



Compendium of 'Vegetable Science'



Indian Society of Vegetable Science (ISVS)
ICAR-Indian Institute of Vegetable Research
Post - Jakhini (Shahanshahpur)
Varanasi - 221305 (Uttar Pradesh)
<https://isvsvegsci.in>

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Printed in February 2024

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Compiled & Edited by

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First Edition: 2024

ISBN: 978-93-92978-51-7



Printed and Published:

MRI PUBLICATION PVT LTD

B-303, Kaanha Residency Uttardhauna,

Ayodhya Road, Chinhat, Lucknow-226 028 Uttar Pradesh, India

Mob - 9696263646

Email ID: info@mripub.com

Website: www.mripub.com

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Editors

Binod Kumar Singh
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Bijendra Singh
Tusar Kanti Behera



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PREFACE

The Indian Society of Vegetable Science (ISVS) was founded on 7th April, 1973 under the Societies Registration Act XXI 1860 with the following objectives: *i*) To promote knowledge and research in vegetable crops and to advance the cause of vegetable science in India; *ii*) To encourage closer relationship among workers on vegetable crops; *iii*) To encourage the development of vegetable cultivation and seed production based on scientific and technical knowledge; and *iv*) To hold conferences, symposia and meetings from time to time for exchange of ideas and discussion of advances in knowledge of vegetable crops. The ISVS has completed its glorious 50 years on 6th April, 2023. To commemorate its Golden Jubilee, ISVS organised a National Seminar on 'Technological Innovations in Vegetable Production under Changing Climate Regime' during 24-26th February, 2024 at Acharya Narendra Deva University of Agriculture and Technology, Kumarganj, Ayodhya, Uttar Pradesh in collaboration with ICAR-Indian Institute of Vegetable Research, Varanasi.

'Vegetable Science' is an official publication of ISVS. The journal plays a crucial role in disseminating knowledge, sharing innovative ideas and fostering collaboration among scientists, academia and experts working in the realm of vegetable crops. The journal 'Vegetable Science' covers all aspects of vegetable research & development i.e. genetics, breeding, cytology, genomics, biotechnology, metabolism, physiology, ecology, quality, production technology, disease management, insect management, seed technology, post-harvest management, marketing, extension etc. Indeed, during the last five decades scientists have made outstanding research contribution in vegetable science. Currently, 'Vegetable Science' journal is Open Access and all published articles are available freely online on <https://isvsvegsci.in>. The Google Scholar Link 'Articles published in Vegetable Science':

<https://scholar.google.com/citations?user=IAjXjj4AAAAJ&hl=en&authuser=1>

The public awareness about the positive role of vegetables as healthy food is expected to increase the demand of nutritious and safe vegetables. Vegetables are an essential component of the Indian diet as they are rich sources of dietary fibres, minerals, carbohydrates, proteins, vitamins, antioxidants, etc. It is anticipated that by 2030, India will have about 1.5 billion populations with diverse food habits. The adverse effects of the climate change regime coupled with demographic alternations have been putting unprecedented pressure on vegetable production. Therefore, increasing production per unit area becomes much more relevant now.

The book on 'Compendium of Vegetable Science' organizes a list of total 2348 research articles published in 'Vegetable Science' journal during the last 50 years (1974 to 2023). This book may serve as an excellent encyclopaedia for M.Sc./Ph.D. students and researchers to search relevant research articles for further use in thesis/dissertation and manuscript writing etc. Further, this book will be useful for farmers, vegetable stake-holders, entrepreneurs, policy makers, academicians to search useful articles on vegetable crops. We have tried our best to make this book error-proof, however we hold ourselves fully responsible for any un-intended errors that might have occurred during compilation and/or printing.

Varanasi
February, 2024

Binod Kumar Singh
Jagesh Kumar Tiwari
Bijendra Singh
Tusar Kanti Behera

CONTENT

Vegetable Science (Vol. & Year)	No. of articles	Page No.
'Vegetable Science' Journal		1
Vol. 1 (1974)	12	4
Vol. 2 (1975)	20	4
Vol. 3 (1976)	27	6
Vol. 4 (1977)	27	8
Vol. 5 (1978)	22	9
Vol. 6 (1979)	26	11
Vol. 7 (1980)	24	13
Vol. 8 (1981)	28	14
Vol. 9 (1982)	28	16
Vol. 10 (1983)	22	18
Vol. 11 (1984)	21	20
Vol. 12 (1985)	22	21
Vol. 13 (1986)	74	22
Vol. 14 (1987)	37	27
Vol. 15 (1988)	32	30
Vol. 16 (1989)	36	32
Vol. 17 (1990)	47	34
Vol. 18 (1991)	40	38
Vol. 19 (1992)	45	40
Vol. 20 (1993)	39	42
Vol. 21 (1994)	42	46
Vol. 22 (1995)	41	49
Vol. 23 (1996)	42	52
Vol. 24 (1997)	50	54
Vol. 25 (1998)	56	58
Vol. 26 (1999)	61	61
Vol. 27 (2000)	58	66
Vol. 28 (2001)	69	70
Vol. 29 (2002)	64	74
Vol. 30 (2003)	55	78
Vol. 31 (2004)	53	82
Vol. 32 (2005)	69	86
Vol. 33 (2006)	62	90

Vol. 34 (2007)	63	94
Vol. 35 (2008)	62	99
Vol. 36 (2009)	72	103
Vol. 36 (spl.) (2009)	43	108
Vol. 37 (2010)	56	111
Vol. 38 (2011)	64	115
Vol. 39 (2012)	60	119
Vol. 40 (2013)	63	123
Vol. 41 (2014)	58	128
Vol. 42 (2015)	63	132
Vol. 43 (2016)	60	136
Vol. 44 (2017)	60	140
Vol. 45 (2018)	60	145
Vol. 46 (2019)	30	149
Vol. 47 (2020)	53	151
Vol. 48 (2021)	40	155
Vol. 49 (2022)	40	158
Vol. 50 (2023)	40	161
Vol. 50 (spl.) (2023)	10	164
Guidelines to Authors (Vegetable Science)		165

‘Vegetable Science’ Journal

‘Vegetable Science’ is an official publication of Indian Society of Vegetable Science (ISVS), a society dedicated to promoting the research & development of vegetables. It is the only journal in field of Vegetable Science, which covers all aspects of Vegetable research and development in the country and abroad. The journal plays a crucial role in disseminating knowledge, sharing innovative ideas and fostering collaboration among scientists, academia and experts working in the realm of vegetable crops. The journal ‘Vegetable Science’ covers all aspects of vegetable research & development such as:

- Breeding, genetics, cytology, genomics and biotechnology of vegetable crops.
- Physiology, biochemistry, nutrition and quality of vegetables.
- Production technologies of vegetable crops, including protected cultivation.
- Management of diseases, insects and pests of vegetable crops.
- Good and sustainable agriculture practices in vegetable cultivation.
- Organic & natural farming and safe vegetable production.
- Post-harvest management of vegetables.
- Seed technological interventions in vegetable crops.
- Extension, marketing and livelihood.

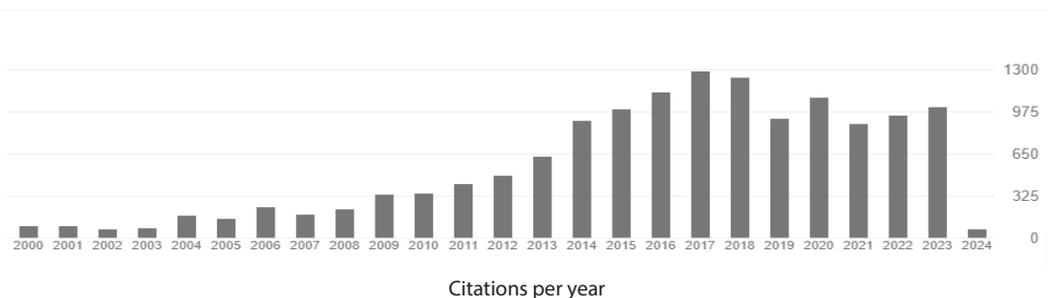
Starting of first issue of the Journal published in 1974, it has completed a successful period of 50 years and served the cause of vegetable research benefiting scientists, students and farmers. Publication of the abstract of each paper in Hindi too, is a unique feature of our journal. The journal “Vegetable Science” with NAAS Score of 5.54 (2024) has been made an open access journal, and hosted now on a new website (<https://isvsvegsci.in>) with online publication system (<https://isvsvegsci.in/index.php/vegetable/about/submissions>). Presently, the articles are now available to global scholars and also freely downloadable.

Citations of Vegetable Science

The citations of all the articles published from 1974 to 2050 are now available on Google Scholar Link: <https://scholar.google.com/citations?user=IAjXjj4AAAAJ&hl=en&authuser=1>. The citations per year from 2020 onwards are presentd in graph below:

Moreover, the overall total citations and indices of Vegetable Science are below in Table:

Particular	All	Since 2019
Citations	14612	4917
h-index	39	21
i10-index	505	105



Most cited papers of Vegetable Science: The total citation for Vegetable Science is 14612 by 10th February 2024. Moreover, the most cited 10 papers published in Vegetable Science are given below in Table along with their references:

Articles	Citation	Year of publication
In vitro screening of tomato genotypes for drought resistance using polyethylene glycol (PEG) M Kulkarni, UD Deshpandey Vegetable Science 32, 11-14	181	2005
Effect of organic nutrition in sprouting broccoli (<i>Brassica oleracea</i> L. var. <i>italica</i> Plenck) B Chaterjee, P Ghanti, U Thapa, P Tripathy Vegetable Science 32 (1), 51-54	109	2005
Genetic variability, correlation and path analysis in okra (<i>Abelmoschus esculentus</i> (L.) Moench) BS Dhankar, SK Dhankar Vegetable Science 29 (1), 63-68	91	2002
Breeding for drought tolerance in vegetables R Kumar, SS Solankey, M Singh Vegetable Science 39 (1), 1-15	83	2012
Novel insecticides for management of insect pests in vegetable crops. A Review MH Kodandaram, AB Rai, J Halder Vegetable Science 37 (2), 109-123	81	2010
Physiological and biochemical basis of drought tolerance in vegetables A Bahadur, A Chatterjee, R Kumar, M Singh, PS Naik Vegetable Science 38 (1), 1-16	71	2011
Effect of nutrient management on growth, yield and yield attributes of rabi onion (<i>Allium cepa</i> L.) PKS Jayathilake, R Reddy, R Reddy Vegetable Science 29 (2), 184-185	71	2002
Correlation and path coefficient analysis in bitter melon (<i>Momordica charantia</i> L.) SS Dey, TK Behera, A Pal, AD Munshi Vegetable Science 32 (2), 173-176	69	2005
Studies on yield and quality traits in tomato (<i>Solanum lycopersicon</i> (Mill.) Wettst.) R Kumar, NK Mishra, J Singh, GK Rai, A Verma, M Rai Vegetable Science 33 (2), 126-132	67*	2006
Flower and fruit infestation by brinjal shoot and fruit borer, <i>Leucinodes orbonalis</i> Guen.-damage potential vs. weather. HP Patnaik Vegetable Science 27 (1), 82-83	63	2000

Editors of journal

The first Editor of journal 'Vegetable Science' was Dr. Vishnu Swarup (1974-1979) followed by Dr. V. S. Seshadri (1980-1982), Dr. Y. R. Mehta (1983-1986), Dr. B. Choudhury (1987-1989), Dr. V. S. Seshadri (1990-1991), Dr. G. Kalloo (1992-2005), Dr. D. S. Yadava (2006-2020), Dr. Major Singh (2011-2015), Dr. A. B. Rai (2016-2021) and Dr. B. K. Singh (2022 to till date).

This journal is also publishing various issues and challenges in the form of special issues from time to time. So far, a total of 2348 articles have been published in 50 volumes from 1974 to 2023 which are summarized in table below:

Vegetable Science 1(1), 1974

- 1 Studies on variability and heritability of some important quantitative characters in watermelon [*Citrullus lanatus* (Thunb.) Mansf.]
JC Thakur, KS Nandpuri
Vegetable Science 1(1), 1-8
- 2 Effect of transplanting of number of seedling per hill on growth and yield of tomato
KS Nandpuri, JS Kanwar, DL Kaul, MS Saimbhi
Vegetable Science 1(1), 9-11
- 3 Effect of little leaf disease on the metabolic changes in the susceptible cultivar and resistant allied species of brinjal (*Solanum melongena* L.)
AK Chakrabarti, B Choudhury
Vegetable Science 1(1), 12-17
- 4 Mode of inheritance of ascorbic acid and protein content in pea (*Pisum sativum* L.)
RP Sharma, KS Nandpuri, JC Kumar
Vegetable Science 1(1), 18-21
- 5 Pod development and germination studies on pea (*Pisum sativum* L.)
MS Manohar, SCP Sachan
Vegetable Science 1(1), 22-30
- 6 Studies on infection of potato leaf roll virus in resistant seeding F.
LC Sikka
Vegetable Science 1(1), 31-35
- 7 Behaviour of tapetum during microsporogenesis in male-sterile and normal potato varieties
H Kishore, S Sardana, AK Sharma, PC Mishra
Vegetable Science 1(1), 36-41
- 8 Studies on the effect of different growth regulators on reproductive physiology and morphology of chilli (*Capsicum annum* L.)
TK Chattopadhyay, SK Sen
Vegetable Science 1(1), 42-46
- 9 Genetic variability and correlation studies in Bhindi (*Abelmoschus esculentus* L. Moench)
K Singh, Y Malik, G Kallou, N Mehrotra
Vegetative Science 1(1), 47-54
- 10 Screening of brinjal (*Solanum melongena* L.) against root-knot nematodes (*Meloidogyne* spp.)
TS Verma, B Choudhury
Vegetable Science 1(1), 55-61
- 11 Die-Back disease of bhindi (*Abelmoschus esculentus* (L.) Moench)
AK Lambat, R Nath, PM Mukewar, A Majumdar, I Rani, KJ Chandra
Vegetable Science 1(1), 62-63
- 12 A note on the response of onion (*Allium cepa* L.) to seedling treatment with 2-chloroethylphosphonic acid
MS Saimbhi, MR Thakur, G Singh
Vegetable Science 1(1), 64-65

Vegetable Science 2(1&2), 1975

- 13 Genetical studies in Indian cauliflowers (*Brassica oleracea* L. var *botrytis* L.): Heterosis and combining ability in maturity group-1
DP Singh, V Swarup, SS Chatterjee
Vegetable Science 2(1&2), 1-7
- 14 Study on chromosome doubling in dihaploids of potato (*Solanum tuberosum* L.)
KC Garg, H Kishore
Vegetable Science 2(1&2), 8-13

- 15 Inheritance of resistance to red pumpkin beetle (*Aulacophora foveicollis* Lucas) in watermelon
RN Vashistha, B Choudhury
Vegetable Science 2(1&2), 14-16
- 16 Response of potato varieties to potash and nitrogen fertilization
RP Sharma, PN Arora
Vegetable Science 2(1&2), 17-20
- 17 Investigations on physiological aspects of heterosis in brinjal (*Solanum melongena* L.) 1. rate of growth and size of embryo
GM Mishra, B Choudhury
Vegetable Science 2(1&2), 21-27
- 18 Sclerotinia rot of peas in Kulu Valley
S Gangopadhyay, KS Kapoor
Vegetable Science 2(1&2), 28-30
- 19 Studies on optimum spacing requirements of four new varieties of tomato (*Lycopersicon esculentum* Mill)
KS Randhawa, KS Nandapuri, D Singh
Vegetable Science 2(1&2), 31-34
- 20 Varietal advice of late cauliflowers grown under varying soil moisture levels
MG Som, PK Jana
Vegetable Science 2(1&2), 35-36
- 21 Response of different sex forms in muskmelon (*Cucumis melo* L.) to 2- chloro ethyl phosphonic acid
TA More, VS Seshadri
Vegetable Science 2(1&2), 37-44
- 22 Indoor hybridization in dihaploids of potato
KP Sharma, BR Tyagi, KC Garg, S Chandra
Vegetable Science 2(1&2), 45-46
- 23 Reaction of tomato varieties to early blight caused by *Alternaria solani* (Ell. and Mart)
Jones and Grout KS Waraitch, GD Munshi, KS Nandpuri, JS Kanwar
Vegetable Science 2(1&2), 47-49
- 24 Combining ability in cabbage (*Brassica oleracea* var. *Capitata* L.)
HS Gill, JP Singh, V Swarup
Vegetable Science 2(1&2), 50-55
- 25 Heterosis and combining ability in spinach (*Spinacea oleracea* L.)
HS Gill, JP Singh, SR Dohare
Vegetable Science 2(1&2), 56-60
- 26 A correlation between organic acid concentration of fruit juice and days to maturity in tomato
ML Pandita, WT Andrew
Vegetable Science 2(1&2), 61-64
- 27 Effect of time of planting steckling and GA sprays on seed production of carrot (*Daucus carota*L.) variety nantes
RP Joshi, RD Singh, JN Seth, KPS Phogat
Vegetable Science 2(1&2), 65-71
- 28 Powery mildew induced resistance in potato to blight
B Prasad, RP Rai
Vegetable Science 2(1&2), 72-75
- 29 Systemic fungicides for the control of wilt of peas
B Sen, IJ Kapoor
Vegetable Science 2(1&2), 76-78
- 30 Inheritance of efficiency in the uptake of certain nutrients in hot pepper (*Capsicum annum* L.) MR Thakur, PK Theerth
Vegetable Science 2(1&2), 79-86

- 31 Effect of temperature and moisture stresses on germination of seed 4- studies on *Luffa cylindrica* L. Roem
MS Manohar, MK Mathur
Vegetable Science 2(1&2), 87-92
- 32 Breeding for resistance to leaf curl virus of tomato (*Lycopersicon esculentum* Mill)
MG Som, B Choudhury
Vegetable Science 2(1&2), 93-99

Vegetable Science 3(1), 1976

- 33 Effect of different dates of transplanting seedling and bulb storage and production of onion (*Allium cepa* L.) var Pusa Red
RP Joshi, RD Singh, AK Singh, KPS Phogat
Vegetable Science 3(1), 1-8
- 34 Study of soil moisture regimes, nitrogen levels and plant spacing on yield of potato
BN Singh, PN Arora
Vegetable Science 3(1), 9-16
- 35 Effect of spacing on carrot seed yield
SS Saini, KB Rastogi
Vegetable Science 3(1), 17-20
- 36 Inheritance of branching habit in cabbage(*Brassica oleracea* L. var. L. *capitata*)
HC Gill, JP Singh, V Swarup
Vegetable Science 3(1), 21-24
- 37 Genotypic and phenotypic variability in in brinjal (*Solanum melongena* L.)
GM Mishra, SN Roy
Vegetable Science 3(1), 25-28
- 38 Genetic studies in tomato, heterosis and combining ability
RS Ratan, SS Saini
Vegetable Science 3(1), 29-36
- 39 Correlation, path analysis and regression studies in tomato
KS Nandpuri, JS Kanwar, Roshanlal
Vegetable Science 3(1), 37-40
- 40 Genetical studies in Indian cauliflower (*Brassica oleracea* var. *botrytis* L.). II. Heterosis and combining ability in maturity group-II
DP Singh, V Swarup, SS Chatterjee
Vegetable Science 3(1), 41-46
- 41 Genetical studies in Indian cauliflower (*Brassica oleracea* var. *botrytis* L.)- Heterosis and combining ability in maturity group-III.
DP Singh, V Swarup, SS Chatterjee
Vegetable Science 3(1), 47-53
- 42 Seasonal fluctuation in population and chemical control of chilli mites *Polyphagotarsonemus latus* (Banks)
UN Mote
Vegetable Science 3(1), 54-60
- 43 Reaction of some varieties of brinjal (*Solanum melongena* L.) to *Pseudomonas solanacearum* Sm MVB Rao,
HS Sohi, OP Vijay
Vegetable Science 3(1), 61-64
- 44 Studies on resistance to Phomopsis blight in eggplant (*Solanum melongena* L.).
TS Kalda, V Swarup, B Choudhury
Vegetable Science 3(1), 65-70
- 45 Reaction of Chinese cabbage lines to white rust
N Singh, S Gangopadhyay
Vegetable Science 3(1), 71-73

- 46 Wet seed treatment to control Fusarium wilt of pea
S Gangopadhyay, KS Kapoor
Vegetable Science 3(1), 74-78

Vegetable Science 3(2), 1976

- 47 Genetic of some characters in brinjal (*Solanum melongena* L.)
RK Mital, SN Singh, HN Singh
Vegetable Science 3(2), 79-86
- 48 A mosaic disease of muskmelon in Punjab
CD Mayee, KS Nandpuri, T Lal
Vegetable Science 3(2), 87-90
- 49 Heterosis and combining ability in tomato
B Singh, S Joshi, N Kumar
Vegetable Science 3(2), 91-96
- 50 Effect of spacing and green fruit pickings on the seed production of okra (*Abelmoschus esculentus* (L) Moench)
UC Pandey, ML Pandita, S Lai, K Singh
Vegetable Science 3(2), 97-102
- 51 Variability studies and scope of improvement in pod yield in peas (*Pisum sativum* L.)
SS Saini, BN Karla, BK Rastogi
Vegetable Science 3(2), 103-107
- 52 Varietal reaction of cowpea to powdery mildew (*Erysiphe polygoni*)
RR Hanchinal, VB Bidari, AF Habib, JV Goud
Vegetable Science 3(2), 108-110
- 53 Resistance in Brinjal to shoot and fruit borer (*Leucinodes orbonalis* Guen., Pyralidae: Lepidoptera)
OP Lal, RK Sharma, TS Verma, PM Bhagchandani, J Chandra
Vegetable Science 3(2), 111-116
- 54 Correlation studies in tomato (*Lycopersicon esculentum* Mill.)
TS Verma, HS Gill, RK Sharma, DC Pachauri
Vegetable Science 3(2), 117-120
- 55 Reduction of protein, phosphorus, carotenoids and chlorophyll, in the leaves of cauliflower after infection by *Xanthomonas campestris*
DK Gupta
Vegetable Science 3(2), 121-122
- 56 Genetic analysis for yield and number of fruits in tomato (*Lycopersicon esculentum* Mill)
RS Rattan, SS Saini
Vegetable Science 3(2), 123-127
- 57 Seasonal incidence and chemical control of brinjal shoot and fruit borer (*Leucinodes orobnalis* Guen.)
UN Mote
Vegetable Science 3(2), 128-130
- 58 Soil moisture regimes and nitrogen levels on the yield and consumptive use of water by cabbage
MG Som, PK Jana, SS Pal
Vegetable Science. 3(2), 131-137
- 59 Gene effects in crosses involving parents from different maturity group of Indian Cauliflower
G Lal, SS Chatterjee, V Swamp
Vegetable Science 3(2), 138-146
-

Vegetable Science 4(1), 1977

- 60 Reaction of four tomato cultivars to different mixtures of isolates of *Pseudomonas solanacearum*
HS Bedekar
Vegetable Science 4(1), 1-5
- 61 Effect of steckling size on seed yield of carrot
PS Arya, SS Saini
Vegetable Science 4(1), 6-10
- 62 Breeding roundmelon for quality and yield
P Nath, OP Dutta, S Velayudhan
Vegetable Science 4(1), 11-18
- 63 Bacterial wilt of ajwain, tomato and fennel in Madhya Pradesh
RL Keshwal, LK Joshi, SN Kulkarni
Vegetable Science 4(1), 19-21
- 64 Inheritance studies in interspecific crosses of *Solanum xanthocarpum* and *Solanum melongena*
L. RA Shariff, AF Habib
Vegetable Science 4(1), 22-24
- 65 Evaluation of antibiotics and fungicides against bacterial blight of guar (*Cyamopsis tetragonoloba*)
DK Gupta
Vegetable Science 4(1), 25-27
- 66 Studies on maturity indices in hyacinth bean (*Dolichos lablab* L.)
SC Jana, TK Chattopadhyay
Vegetable Science 4(1), 28-32
- 67 Evaluation of different modern insecticides against cabbage aphids
UN Mote
Vegetable Science 4(1), 33-36
- 68 Changes in certain chemical constituents associated with maturation of okra (*Abelmoschus esculentus* L.)
KP Rao, UV Sulladurath
Vegetable Science 4(1), 37-42
- 69 Heterosis and combining ability for yield and agronomic characters in pepper (*Capsicum annum* L.)
PP Sharma, SS Saini
Vegetable Science 4(1), 43-48
- 70 Chemical weed control in cabbage-onion relay
KC Gautham, VS Mani, NS Das, Bhagwan, Khokhar
Vegetable Science 4(1), 49-52
- 71 Effect of N, P and K on flowering, fruit size and yield of chilli var N.P.46A
MAR Khan, v Suryanarayana
Vegetable Science 4(1), 53-60
- 72 The effect of N, P and K fertilization on the growth and yield of tomato (*Lycopersicon esculentus* Mill.) cultivars
KS Randhawa, KS Nandpuri, D Singh
Vegetable Science 4(1), 61-66

Vegetable Science 4(2), 1977

- 73 Inheritance of qualitative characters in Indian cauliflower
KS Ahluwalia, V Swarup, SS Chatterjee
Vegetable Science 4(2), 67-80
- 74 Inheritance of capsaicin content in *Capsicum annum* L.
PP Sharma, SS Saini
Vegetable Science 4(2), 81-85

- 75 Inheritance of bud shape index in cabbage (*Brassica oleracea* var. *capitata* L.)
HS Gill, JP Singh, V Swarup
Vegetable Science 4(2), 86-89
- 76 Resistance to Phomopsis blight in eggplant
TS Kalda, V Swarup, B Choudhury
Vegetable Science 4(2), 90-101
- 77 Correlation and path coefficient analysis in cabbage (*Brassica oleracea* var. *capitata* L.)
HS Gill, JP Singh, V Swarup
Vegetable Science 4(2), 102-106
- 78 Combining ability in bitter melon (*Momordica charantia* L.)
PS Sirohi, B Choudhury
Vegetable Science 4(2), 107-115
- 79 Cytomorphology of interspecific triploid hybrids between *Solanum tuberosum* (4n) and *Solanum phureja* (2n)
S Sardana, H Kishore
Vegetable Science 4(2), 116-124
- 80 Effect of different methods on cabbage seed production
SS Saini, KB Rastogi
Vegetable Science 4(2), 125-128
- 81 Seasonal variations in ascorbic acid, dry matter and phenolic content of chillies as affected by fruit maturity
KL Bajaj, H Singh, G Kaur, JS Brar
Vegetable Science 4(2), 129-133
- 82 Residual effect of fertilizers applied to previous crops, on growth and yield of radish (*Raphanus sativus* L.)
LJ Rao, V Suryanarayana
Vegetable Science 4(2), 134-137
- 83 Uptake pattern of phosphorus and potash under varied soil moisture regimes, fertility levels and plant spacing in potato
BN Singh, PN Arora
Vegetable Science 4(2), 138-142
- 84 Active and feeding period of onion thrips and proper time of application of endosulfan for their control
UN Mote
Vegetable Science 4(2), 143-144
- 85 A Note on the seasonal population fluctuation of cabbage aphid on seed cauliflower
PL Tandon, OP Bhalla, AK Verma
Vegetable Science 4(2), 145-147
- 86 Control of chilli pests
UN Mote
Vegetable Science 4(2), 148- 150

Vegetable Science 5(1), 1978

- 87 Correlation studies of rotting and sprouting losses of onion with other traits during storage
DP Singh, MC Joshi
Vegetable Science 5(1), 1-3
- 88 Effect of different levels of nitrogen and spacing on fruit yield of tomato
KB Rastogi, BN Korla, SS Saini
Vegetable Science 5(1), 4-7
- 89 Varietal response to date of planting in cantaloupe
KS Nandpuri, T Lai
Vegetable Science 5(1), 8-14

- 90 Heterosis in bitter gourd (*Momordica charantia* L.)
PS Sirohi, B Choudhary
Vegetable Science 5(1), 15-22
- 91 Varietal variation in the capsaicin content in *Capsicum annuum*
KL Bajaj, G Kaur, RS Sooch, H Singh
Vegetable Science 5(1), 23-29
- 92 Inheritance of maturity, head shape and head size in cabbage (*Brassica oleracea* var. *capitata* L.)
HS Gill, JP Singh, V Swarup
Vegetable Science 5(1), 30-35
- 93 Influence of treatment method, duration and concentration of tetracycline on uptake by little leaf affected brinjal plants
RK Verma, GS Dubey
Vegetable Science 5(1), 36-39
- 94 Multiplication of *Xanthomonas vesicatoria* in host and inoculum concentration in relation to development of leaf spot in chilli (*Capsicum annuum* L.)
PS Shekhawat, BP Chakravarti
Vegetable Science 5(1), 40-43
- 95 Susceptibility of muskmelon (*Cucumis melo* L.) varieties to *Meloidogyne incognita*
R Mahajan, S Ahuja, T Lal, KS Nanpuri
Vegetable Science 5(1), 44-46
- 96 Studies on the varietal resistance of okra (*Abelmoschus esculentus* L.) to fruit borer (*Earias fabia* Stoll.) under field conditions
UN Mote
Vegetable Science 5(1), 47-49
- 97 Incidence of *Dorylus orientalis* West. (Hymenoptera: Formicidae) on *Brassica oleracea* var. *botrytis* in Kangra Valley (H.P.)
BK Kaul, GS Dogra
Vegetable Science 5(1), 50-51

Vegetable Science 5(2), 1978

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B Sarkar, RK Mandal, MK Sadhu, TK Bose
Vegetable Science 5(2), 57-65
- 99 Response of tomato cultivars to fertilizers
A Gupta, V Shukla, K Srinivas
Vegetable Science 5(2), 66-71
- 100 Effect of nitrogen, spacing and planting material on yield of potato
NN Mandal, Arora
Vegetable Science 5(2), 72-77
- 101 Breeding tomatoes for soluble solid contents
RS Rattan, SS Saini, M Singh
Vegetable Science 5(2), 78-82
- 102 Inheritance of days taken to flowering, plant height and number of branches in cabbage (*Brassica oleracea* var. *capitata*)
HS Gill, JP Singh, Swarup, V
Vegetable Science 5(2), 83-88
- 103 Genetic divergence in brinjal (*Solanum melongena* L.)
SD Lal, BP Srivastava
Vegetable Science 5(2), 89-92

- 104 A statistical study of the effect of radiation and ethylmethanesulphonate on shoot and root length in tomato (*Lycopersicon esculentum*)
D Singh, R Majid
Vegetable Science 5(2), 93-99
- 105 Sugars in the resistance mechanism of yellow vein mosaic disease of bhendi (*Abelmoschus esculentus* L.)
R Arumugam, CR Muthukrishnan
Vegetable Science 5(2), 100-103
- 106 Intensity of mycoflora in vegetable seeds in Kulu Valley
S Gangopadhyay, SB Mathur
Vegetable Science 5(2), 104-106
- 107 Studies on the varietal resistance of brinjal (*Solanum melongena* L.) to jassid (*Amrasca biguttuk* Ishida) under field condition
VN Mote
Vegetable Science 5(2), 107-110
- 108 New record and notes on the life history of *Spodoptera exigua* (Hubner) on arum, (*Colocasia esculenta* L.) (Schott) in the Punjab
D Singh, M Ramzan
Vegetable Science 5(2), 111-112

Vegetable Science 6(1), 1979

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RK Sharma, PM Bhagchandani
Vegetable Science 6(1), 1-4
- 110 Studies on flower development, fruit maturity and floral biology in sweet pepper (*Capsicum annum* L.)
OP Vijay, DP Singh, IS Yadav
Vegetable Science 6(1), 5-10
- 111 Heterosis and combining ability in Indian cauliflower (*Brassica oleracea* L. var. *botrytis* L.)
PN Kale, SS Chatterjee, V Swarup
Vegetable Science 6(1), 11-20
- 112 Genetic analysis of quality trait in tomato
RS Rattan, SS Saini
Vegetable Science 6(1), 21-26
- 113 Inheritance of resistant to black-rot (*Xanthomonas compestris* (Pam.) Dowson) in cabbage
RN Tewari, SS Chatterjee, V Swarup
Vegetable Science 6(1), 27-36
- 114 Inheritance of vitamin A content in pepper (*Capsicum annum* L.)
PP Sharma, SS Saini
Vegetable Science 6(1), 37-40
- 115 Studies on canning qualities of tomato (*Lycopersicon esculentum* Mill.)
MR Rao, B Choudhury
Vegetable Science 6(1), 41-47
- 116 The biochemical constituents of French bean pods at different stages of maturity
PS Rawat, B Singh, DC Pant, S Joshi
Vegetable Science 6(1), 48-53
- 117 Association of fruit rot resistance with ascorbic acid content in tomato (*Lycopersicon esculentum* Mill.)
RS Rattan, SS Saini
Vegetable Science 6(1), 54-56
- 118 Resistance in tomato against *Meloidogyne incognita* (Kofoid and White) Chitwood
R Mahajan, S Ahuja, Kanwar, JS, KS Nandpuri
Vegetable Science 6(1), 57-60

- 119 Influence of field soil temperature on Fusarium wilt of peas
R Phal, B Choudhury
Vegetable Science 6(1), 61-65
- 120 Effect of little leaf disease on brinjal plants of different ages
AK Chakrabarti, B Choudhury
Vegetable Science 6(1), 66-69
- 121 *Selepa docilis* Butler (Lepidoptera: Noctuidae) infesting brinjal in semi-arid region of Rajasthan
YD Pande, SRS Yadava
Vegetable Science 6(1), 70-72

Vegetable Science 6(2), 1979

- 122 Effect of varying levels of plant population, nitrogen, phosphorus and potash on growth and yield of chilli
AB Chougule, PR Mahajan
Vegetable Science 6(2), 73-80
- 123 Effect of nitrogen, plant population and soil moisture regimes on seed production of okra (*Abelmoschus esculentus* L.)
UC Pandey, IJ Singh
Vegetable Science 6(2), 81-91
- 124 Plant introduction experiments with tender-podded French bean
NR Bhagat, TG Kawalkar, HP Bhatia, MW Hardas
Vegetable Science 6(2), 92-97
- 125 Inheritance of pod length, number of seeds per pod and seed yield in cabbage (*Brassica oleracea* var. capitata L.)
HS Giiil, JP Singh, V Swarup
Vegetable Science 6(2), 98-105
- 126 Gene effects in bitter melon (*Momordica charantia* L.)
PS Sirohi, B Choudhury
Vegetable Science 6(2), 106-112
- 127 Studies on inheritance of processing qualities in tomato (*Lycopersicon esculentum* Mill.)
MR Rao, B Choudhury
Vegetable Science 6(2), 113-125
- 128 Varietal reaction to powdery mildew (*Erysiphe cichoracearum* DC.) in okra
MB Joi, RV Shende
Vegetable Science 6(2), 126-129
- 129 Effect of growth regulants and micronutrients on French bean
V Suryanarayana, EP Reddy
Vegetable Science 6(2), 130-134
- 130 Effect of different dates of sowing and fungicidal spray on the powdery mildew of coriander
RL Keshwal, PC Choudhary, K Singh
Vegetable Science 6(2), 135-136
- 131 Resistance to root-knot nematode (*Meloidogyne incognita*) in okra (*Abelmoschus esculentus* Moench)
R Mahajan, BR Sharma
Vegetable Science 6(2), 137-138
- 132 Effect of some plant products and alum as soil amendments on *Meloidogyne incognita* on tomato
K Vijayalakshmi, SK Prasad
Vegetable Science 6(2), 139-141
- 133 Separation of nine anisometric cucurbit viruses by host reactions
BB Sarkar, S Mukhopadhyay
Vegetable Science 6(2), 142-144

- 134 Screening of some cucurbits for resistance against red pumpkin beetle
GS Sandhu, AS Sohi, BR Sharma, JS Bhalla
Vegetable Science 6(2), 145-150

Vegetable Science 7(1), 1980

- 135 Effect of irrigation and nitrogen levels on the yield, consumptive use and consumptive use efficiency of sweet potato.
D Biswas, H Sen, MG Som, PK Jana
Vegetable Science 7(1), 1-5
- 136 Effect of micronutrients on the quality of tomato (*Lycopersicon esculentum* Mill.).
MFR Mallick, CR Muthukrishnan
Vegetable Science 7(1), 6-13
- 137 Studies on chemical weeding in onion.
B Singh, RP Singh
Vegetable Science 7(1), 14-17
- 138 Studies on heterosis and perse performance in brinjal.
SN Singh
Vegetable Science 7(1), 18-26
- 139 Studies on heterosis in muskmelon (*Cucumis melo* L.).
TA More, VS Seshadri
Vegetable Science 7(1), 27-40
- 140 Relationship between some seedling characters and earliness in muskmelon (*Cucumis melo* L.).
MS Saimbhi, KS Nandpuri
Vegetable Science 7(1), 41-47
- 141 Varietal variation in some important chemical constituents in chilli (*Capsicum annum* L.) fruits.
KL Bajaj, G Kaur, BS Sooch
Vegetable Science 7(1), 48-54
- 142 Effect of pre-treatment of seed with GA and NAA on growth and yield of okra var. Pusa Sawani.
V Suryanarayana, Arrifuddin
Vegetable Science 7(1), 55-59
- 143 Studies on suitability of some tomato varieties for canning.
BL Raina, CL Kalra, MS Teotia, R Rodriguez, KS Nandpuri, JS Kanwar, ...
Vegetable Science 7(1), 60-66
- 144 Reaction of brinjal varieties to some fungal diseases.
SR Sharma, HS Sohi
Vegetable Science 7(1), 67-69
- 145 Studies on inheritance of resistance to Septoria vignicola causing leaf spot disease of cowpea (*Vigna unguiculata*).
RD Rawal, HS Sohi
Vegetable Science 7(1), 70-73
- 146 Tolerance in brinjal varieties to shoot and fruit borer (*Leucinodes orbonalis* Guen.).
UM Raut, HN Sonone
Vegetable Science 7 (1), 74-78
- 147 Chemical control of *Meloidogyne incognita* in tomato.
R Mahajan, NK Sharma, I Singh
Vegetable Science 7(1), 79-80
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Vegetable Science 7(2), 1980

- 148 Effect of moisture regimes, nitrogen fertilization and intra-row spacing in potato.
BN Singh, PN Arora
Vegetable Science 7(2), 81-89
- 149 Effect of herbicides on weeds and yield of chilli (*Capsicum annuum* L.).
PL Bhalla, GS Nakhtore
Vegetable Science 7(2), 90-93
- 150 Correlation studies in cucumber (*Cucumis sativus* L.).
SS Solanki, JN Seth
Vegetable Science 7(2), 94-101
- 151 Inheritance of quantitative fruit characters in bitter gourd (*Momordica charantia* L.).
PS Sirohi, B Choudhury
Vegetable Science 7(2), 102-107
- 152 Line x tester analysis for combining ability in muskmelon (*Cucumis melo* L.).
TA More, VS Seshadri
Vegetable Science 7(2), 108-117
- 153 X-ray induced mutations in sweet pepper.
PC Thakur, HS Gill, PM Bhagchandani
Vegetable Science 7(2), 118-121
- 154 Cytomorphological features of C8 autotetraploid fenugreek (*Trigonella foenumgraecum* L.).
SS Raghuvanshi, AK Singh
Vegetable Science 7(2), 122-128
- 155 Effect of starters and naphthalene acetic acid in brinjal
G Sambasiva Rao, DUS Rao, V Surayanarayana
Vegetable Science 7(2), 129-132
- 156 Chemical control of powdery mildew on garden pea (*Pisum sativum* L.)
RL Keshwal, AC Jain, RK Sharma
Vegetable Science 7(2), 133-136
- 157 Leaf curl incidence in tomato
BR Singh, RP Singh
Vegetable Science 7(2), 137
- 158 Screening of cucumber against strains of CMV
KB Gahukar, TK Nariani
Vegetable Science 7(2), 138-139

Vegetable Science 8(1), 1981

- 159 Effect of different herbicides on rhizosphere soil microflora in cauliflower (*Brassica oleracea* var. *botrytis* L.).
KS Sandhu, NS Hira, KS Randhawa, RS Kahlon
Vegetable Science 8(1), 1-5
- 160 Carrot seed production-II spacing and umbel order on seed yield
SS Gill, H Singh, J Singh
Vegetable Science 8(1), 6-11
- 161 Effect of growth regulators and nutrient sprays on the yield of okra
V Suryanarayana, KV Subba Rao
Vegetable science 8(1), 12-14
- 162 Study of heterosis in watermelon
PB Kale, VS Seshadri
Vegetable Science 8(1), 15-24

- 163 Selection in garden pea (*Pisum sativum* L.) through component analysis and analysis of variability
AB Pal, Brahmappa, PR Ramachander, SR Biswas
Vegetable Science 8(1), 25-31
- 164 Correlation and path coefficient analysis in capsicum (*Capsicum annum* L.)
PP Sharma, SS Saini, BN Korla
Vegetable science 8(1), 32-36
- 165 Polyphenol oxidase and other chemical constituents in fruits of egg plant (*Solanum melogena* L.) varieties
KL Bajaj, G Kaur, ML Chadha, BP Singh
Vegetable science 8(1), 37-44
- 166 Screening of *Lycopersicon* and *Solanum* species for resistance to leaf curl virus
GC Joshi, B Choudhury
Vegetable science 8(1), 45-50
- 167 Screening for early blight resistance in tomato
VV Datar, CD Mayee
Vegetable Science 8(1), 51-57
- 168 Yield loss in cluster bean caused by *Alternaria cyamopsidis*
SR Sharma
Vegetable Science 8(1), 58-63
- 169 Prevalence of *Fusarium oxysporum* Schlecht and *Fusarium solani* (Mart.) Sacc. causing muskmelon wilt
P Radhakrishnan, B Sen
Vegetable Science 8(1), 64-68

Vegetable Science 8(2), 1981

- 170 Response of okra to date of sowing and plant spacing
A Gupta, J.V. Rao and K. Srinvas
Vegetable Science 8(2), 69-74
- 171 Effect of nitrogen on curd size and yield of cauliflower
HK Roy
Vegetable Science 8(2), 75-78
- 172 Leakage of sugars from some vegetable seeds
S.D. Doijode and P.K. Agrawal
Vegetable Science 8(2), 79-83
- 173 Estimation of leaf area of onion by linear dimension
S.K. Shrivastava and V.K. Khare
Vegetable Science 8(2), 84-86
- 174 Effect of herbicides on weeds and some horticultural traits in okra (*Abelmoschus esculentus* (L.) Moench)
R.S. Rattan, I.S. Hundl, S.S. Saini and A.K. Singh
Vegetable Science 8(2), 87-92
- 175 Genetic variability and genotype x environment interaction in carrot (*Daucus carota* L.)
S.S. Saini, B.N. Korla and K.B. Rastogi
Vegetable Science 8(2), 93-99
- 176 Genetic divergence in bittergourd
C. Ramachandran, P.K. Gopalakrishnan and K.V. Peter
Vegetable Science 8(2), 100-104
- 177 Genetic studies on fruit size and cavity size in pumpkin (*Cucurbita moschata* Poir.)
S.D. Doijode and U.V. Sulladmath
Vegetable Science 8(2), 105-108

- 178 Genetic and correlation studies of some fruit characters in tomato (*Lycopersicon esculentum* Mill)
T.K. Chattopadhyay and S.S. Pal
Vegetable Science 8(2), 109-113
- 179 Genotypic and phenotypic variability in cucumber (*Cucumis sativus* L.)
S. Joshi, M.C. Joshi, B. Singh and A.K. Vishnoi
Vegetable Science 8(2), 114-119
- 180 Heterosis and combining ability in tomato
HA Virdelwala, KS Nandpuri, S Singh
Vegetable Science 8(2), 120-129
- 181 Rhizobium inoculation in combination with nitrogen and phosphorus on French bean.
V Suryanarayana, JP Kumar
Vegetable Science. 8(2), 130-134
- 182 Metabolic changes in relation to leaf curl virus infection in tomato
GC Joshi, B Choudhury
Vegetable Science. 8(2), 135-141
- 183 Resistance to ascochytopasi, *Fusarium oxysporum* F sp. *pisi* and frost in *Pisum sativum* L.
DC Pachauri, HS Gill, S Gangopadhyay
Vegetable Science. 8(2), 142-146
- 184 Occurrence of chilli mosaic in Uttar Pradesh
BR Singh, P Shukla
Vegetable Science. 8(2), 147-148
- 185 Screening of egg plant varieties for resistance to insect pest complex
GV Subbaratnam, DK Butani
Vegetable Science 8(2), 149-153
- 186 Efficacy of synthetic pyrethroids and two newer compounds against okra shoot and fruit borer, *Erias vitella* fab.
RB Nimbalkar, DS Ajri
Vegetable Science. 8(2), 154-156

Vegetable Science 9(1), 1982

- 187 Effect of levels of nitrogen, phosphorus and spacing on yield characters of cabbage
P Ghanti, G Sounda, PK Jana, MG Som
Vegetable science 9(1), 1-4
- 188 Efficacy of herbicides on weed control in tomato
P Kalia, RS Rattan, SS Saini
Vegetable Science 9(1), 5-7
- 189 A note on the nutrition of long melon
A Raychaudhury, SK Mitra, TK Bose
Vegetable Science 9(1), 8-12
- 190 Effect of GA, CCC and ethrel on seed production of carrot
RP Joshi, RD Singh
Vegetable science 9(1), 13-17
- 191 Inheritance study of pod length in guar (cluster bean)
BS Dabas, SP Mital, V Swarup
Vegetable Science 9(1), 18-23
- 192 Combining ability studies in tomato
RS Jamwal, RS Rattan, SS Saini
Vegetable Science 9(1), 24-29

- 193 Combining ability studies of qualitative characters in radish
R Sharma, RS Rattan, SS Saini
Vegetable Science 9(1), 30-33
- 194 Diallel crosses of watermelon
AS Sidhu, JS Brar
Vegetable Science 9(1), 34-41
- 195 Study on leaf protein of two species of Dolichos
AK Singh
Vegetable Science 9(1), 42-50
- 196 Studies on mosaic virus on bottle gourd
OP Sharma, BR Sharma
Vegetable Science 9(1), 51-54
- 197 Studies on varietal resistance and chemical control of bacterial stalk-rot in onion
R Kishun, J Swarup
Vegetable science 9(1), 55-59
- 198 Longevity and downy mildew susceptibility of leaf discs of cucurbits
SS Bains, V Parkash
Vegetable Science 9(1), 60-63
- 199 Studies on the control of yellow vein mosaic in okra seed crop
SN Sinha, AK Chakrabarti
Vegetable Science 9(1), 64-70

Vegetable Science 9(2), 1982

- 200 Response of Capsicum to nitrogen fertilization
K Srinivas, BS Prabhakar
Vegetable Science 9(2), 71-74
- 201 Response of cauliflower to soil moisture regimes, nitrogen and phosphorus levels
RP Sharma, KS Parashar
Vegetable Science 9(2), 75-81
- 202 Effect of nitrogen and potash fertilization on tuber yield and quality of Colocasia
RC Mandal, KD Singh, SB Maini
Vegetable Science 9(2), 82-84
- 203 Effect of spacing and plant regulators on seed production of radish
MC Nautiyal, H Lal
Vegetable Science 9(2), 85-88
- 204 Studies on inheritance of fruit and seed characters in watermelon
RR Sharma, B Choudhury
Vegetable Science 9(2), 89-95
- 205 Genetic variability and correlation studies in cowpea
S Jana, MG Som, ND Das
Vegetable Science 9(2), 96-106
- 206 Inheritance and linkage relationship in chilli (*Capsicum annuum* L.)
AF Habib, BY Kullaiswamy, SG Khan, VB Hullatti
Vegetable Science 9(2), 107-111
- 207 Biochemical constituents of varieties of egg plant
AS Sidhu, G Kaur, KL Bajaj
Vegetable science 9(2), 112-118

- 208 Effect of powdery mildew on the chlorophyll content of two leguminous crops
SS Karwasra, JN Chand, ML Saini
Vegetable Science 9(2), 119-121
- 209 Effect of root exudates of brinjal on *Pseudomonas solanacearum*
R Mukherjee, S Mukhopadhyay
Vegetable Science 9(2), 122-125
- 210 Studies on isolates of two *Colletotrichum* spp. on chillies
S Kaur, J Singh, MR Thakur, TS Thind, P Kaur
Vegetable Science 9(2), 126-130
- 211 Reaction of muskmelon varieties to cucumber mosaic virus
OP Sharma, KS Nandpuri
Vegetable Science 9(2), 131-133
- 212 Detached leaf technique for testing resistance in cucurbits to red pumpkin beetle
SS Grewal, GS Sandhu
Vegetable Science 9(2), 134-136
- 213 A note on the chilli blossom midge (*Asphondylia capsici*) Barnes
NV Rao, CS Rao, P Venkateswarlu
Vegetable Science 9(2), 137-140
- 214 Field incidence of stem fly, *Ophiomyia phaseoli* (Tryon) in different varieties of pea, *Pisum sativum* L.
D Singh, M Ramzan, GS Dhillon
Vegetable Science 9(2), 141-143

Vegetable Science 10(1), 1983

- 215 Effect of nitrogen, phosphorus and potassium fertilization on the yield and quality of cauliflower
KS Randhawa, DS Khuraha
Vegetable Science 10(1), 1-7
- 216 Studies on combining ability in tomato
SC Pandey, RB Singh
Vegetable Science 10(1), 8-21
- 217 Variability, path coefficient and discriminant function analysis in tomato
RS Rattan, HS Kanwar, SS Saini
Vegetable Science 10(1), 22-29
- 218 Inheritance of Beta carotene content in pumpkin (*Cucurbita moschata* Poir)
S. D. doijode
Vegetable Science 10(1), 30-35
- 219 Effect of plant density, seed size and depth of planting on growth and yield of potato
N. C. Banerjee, S. Dutta and M. G. Som
Vegetable Science 10(1), 36-43
- 220 Preserving fresh peas with mild heat treatment
Vijay Sethi and J. C. Ananad
Vegetable Science 10(1), 44-50
- 221 *Xanthomonas campestris* pv. *cyamopsidis* in cluster bean seed and its control
SS Karwasra, RD Parashar, ML Saini
Vegetable Science 10(1), 51-54
- 222 Seed transmission in cowpea viruses
S. R. Sharma and Anupam Varma
Vegetable Science 10(1), 55-62

- 223 A new root rot disease of cluster bean (guar) from Haryana
P.C. Gupta, S. S. Karwarsra and R. S. Rana
Vegetable Science 10(1), 63-64
- 224 Incidence and spread of yellow vein mosaic of okra
R. L. Keshwal and A. C. Jain
Vegetable Science 10(1), 65-69
- 225 Resistance in tomato to root-knot nematode
R. Mahajan, Surjan Singh and K. S. nandpuri
Vegetable science 10(1), 70-72

Vegetable Science 10(2), 1983

- 226 Influence of N, P and K on yield and processing qualities of onion bulb
MS Siambhi, KS Randhwa
Vegetable Science 10(2), 73-76
- 227 Effect of irrigation frequencies and anti- transpirants on chilli
V Suryanarayana, KTR Raju, DVS Rao
Vegetable Science 10(2), 77-83
- 228 Control of seed deterioration and improvement of field performance of okra by hydration-dehydration treatment of stored seed
C Kundu, RN Basu
Vegetable Science 10(2), 84-93
- 229 Correlation of growth and yield parameters in sweet potato
A Chandra, MS Singhel, PKR Nair, JP Tiwari
Vegetable Science 10(2), 94-101
- 230 Genetical studies in bottle gourd
BR Sharma, J Singh, S Singh, D Singh
Vegetable Science 10(2), 102-111
- 231 Studies on biparental progenies in Indian cauliflower
ND Dadlani, V Swarup, SS Chatterjee
Vegetable Science 10(2), 112-122
- 232 Genetic variability and association of yield components with frost resistance in potato
SK Chaudhary, SP Tiwari, NP Sukumaran
Vegetable Science 10(2), 123-128
- 233 Correlation of petal length with fruit weight in tomato
SS Pal, TK Chattopadhyay
Vegetable Science 10(2), 129-133
- 234 Screening of chilli varieties for virus resistance
M Konai, TK Nariani
Vegetable Science 10(2), 134-136
- 235 Evaluation of fungicides against *Myrothecium roridum* in guar
SS Karwasra, JN Chand
Vegetable Science 10(2), 137
- 236 Response of cultivars of tomato to root-knot nematode
A Hasan
Vegetable Science 10(2), 138-140
-

Vegetable Science 11(1), 1984

- 237 Effect of organic mulches and irrigation levels on soil temperature, water economy and yield of summer tomato
BK Srivastava, AK Sharma, NP Singh, UB Pandey
Vegetable Science 11(1), 1-9
- 238 Studies on the relative efficacy of herbicides in controlling weeds in muskmelon
KS Sandhu, PS Bal, KS Randhawa
Vegetable Science 11(1), 10-14
- 239 Effect of growth regulators on sex expression, sex ratio and yield in cucumber (*Cucumis sativus* L.)
RK Singh, GP Singh
Vegetable Science 11(1), 15-20
- 240 Chemical weed control in peas
KS Randhawa, KS Sandhu, D Singh
Vegetable Science 11(1), 21-24
- 241 Inheritance of sex expression and external fruit characters in watermelon
RR Sharma, B Choudhury
Vegetable Science 11(1), 25-31
- 242 Studies on biparental progenies in cauliflower-1 Variability in biparental progenies
J Chand, SS Chatterjee, V Swarup
Vegetable Science 11(1), 32-39
- 243 Genetic characters related to earliness in sweet pepper (*Capsicum annum* L.)
PC Thakur, HS Gill, B Choudhury
Vegetable Science 11(1), 40-51
- 244 Line x tester analysis for combining ability in cabbage (*Brassica oleracea* var. *capitata* L.)
TA More, DH Wallace
Vegetable Science 11(1), 52-63
- 245 Reaction of pepper varieties to fruit rot and leaf blight
SS Bhardwaj, SL Sharma, OP Sharma
Vegetable Science 11(1), 64-67
- 246 Relationship between powdery mildew severity and seed yield in some garden pea varieties
LS Suhag, JC Duhan
Vegetable Science 11(1), 68-70

Vegetable Science 11(2), 1984

- 247 Response of french beans to source and level of applied phosphorus
BS Prabhakar, K Srinivas, TR Subramanian
Vegetable Science 11(2), 73-78
- 248 Quick multiplication technique in potato by stem cutting
BL Dhar, AN Singh
Vegetable Science 11(2), 79-84
- 249 Biometric analysis of earliness, pod yield, seed yield and their components in okra
RC Agrawal, G Lal, KV Peter
Vegetable Science 11(2), 85-93
- 250 Effect of plant growth substances on flowering, growth, yield and quality of muskmelon
AS Sidhu, RS Hooda, ML Pandita, KP Singh
Vegetable Science 11(2), 94-99
- 251 Path analysis and selection criteria in ash gourd
P Vikram, S Mohan, KS Randhawa, VP Gupta
Vegetable Science 11(2), 100-104

- 252 Gene effect in some quality characters in radish (*Raphanus sativus* L.)
RS Rattan, KJ Singh
Vegetable Science 11(2), 105-112
- 253 Early testing of pollen-stigma compatibility in Indian cauliflower (*Brassica oleracea* var. *botrytis* L.)
Vidyasagar, SS Chatterjee
Vegetable Science 11(2), 113-117
- 254 Genetic variability and correlation studies in radish (*Raphanus sativus* L.)
DS Yadav
Vegetable Science 11(2), 118-121
- 255 Studies on biparental progenies in cauliflower-II correlation studies in biparental progenies
Jagdish Chand, SS, Chatterjee, V Swarup
Vegetable Science 11(2), 122-131
- 256 Studies on biparental progenies in cauliflower-III genetic analysis of biparental progenies
Jagdish Chand, SS, Chatterjee, V Swarup
Vegetable Science 11(2)1, 132-139
- 257 Breeding for nematode resistance and some fungal disease in tomato
SB Rai Jadhav, PN Kale
Vegetable Science 11(2), 140-151

Vegetable Science 12(1), 1985

- 258 Response to growth substances of seed germination, seedling growth and hypocotyls anatomy in *Mormordica charantia*
AK Sharma, GM Govil
Vegetable Science 12(1), 1-6
- 259 Studies on the interrelationship between bulb yield and important plant characters of onion
RR Patel, M Prasad, RP Sharma
Vegetable Science 12(1), 7-10
- 260 Genetics of some economic characters in okra
Shubham Bapu Singh, BR Sharma and Shurjan Singh
Vegetable Science 12(1), 11-18
- 261 Inheritance of petal colour in cauliflower (*Brassica oleracea* var. *botrytis* L. sub. var. *cauliflora* DC)
K.S. Ahluwalia, SS Chatterjee and V Swarup
Vegetable Science 12(1), 19-26
- 262 Correlation study of various morphological parameters to plant yield in C_{12} autotetraploid *Trigonella foenum-graecum* L.
Jaya Singh and SS Raghuvanshi
Vegetable Science 12(1), 27-33
- 263 Cytogenetic behaviour of *Allium cepa fistulosum*-triploids ($3n=24$)
U.K Kohli
Vegetable Science 12(1), 34-38
- 264 Studies on potato damage caused by conventional harvesting
SSK Sharma and RP Kachru
Vegetable Science 12(1), 39-41
- 265 Efficacy of some systemic fungicides for the control of powdery mildew of pea
Indra Hooda and RD Parashar
Vegetable Science 12(1), 42-44
- 266 Persistence of three fungitoxicants on different genotypes of cauliflower
R Kaur Grewal and SS Brar
Vegetable Science 12(1), 45-48

- 267 Field efficacy of some insecticide against caterpillars and thrips on cauliflower seed crop
PR Gupta, Arun K. Verma and RC Mishra
Vegetable Science 12(1), 49-54
- 268 Occurrence of white grub *Holotrichia* sp. in soil affecting the chilli crop in Andhra Pradesh
D. Mallikarjuna Rao and Khalid Ahamad
Vegetable Science 12(1), 55-58

Vegetable Science 12(2), 1985

- 269 Onion seed quality in relation to seed deterioration under accelerated ageing conditions
SD Doijode
Vegetable Science 12(2), 59-63
- 270 Response of tomato cultivars to nitrogen fertilizer under mid-hills of Himachal Pradesh
B Singh, OP Awasthi
Vegetable Science 12(2), 64-67
- 271 Quality characters in fruits of eggplant (*Solanum melongena* L.) as affected by maturity
Gurdeep Kaur, KL Bajaj and ML Chadhdha
Vegetable Science 12(2), 68-73
- 272 Studies on seed development and maturation in annual *Moringa*
V. Palanasamy, K. Kumaresan, M. Jayabharathi and TV Kariyaratharagu
Vegetable Science 12(2), 74-78
- 273 Inter-allelic relationship of S-alleles in Indian cauliflower
S Murugiah, Vidyasagar, SS Chatterjee and V Swarup
Vegetable Science 12(2), 79-89
- 274 Combine ability studies in brussels sprouts (*Brassica oleracea* var. *gamnifera* L.)
SR Sharma and HS Gill
Vegetable Science 12(2), 90-96
- 275 Genetic divergence in ridge gourd (*Luffa acutangula* L. Roxb.)
PY Kadam, PN Kale
Vegetable Science 12(2), 97-104
- 276 Association between yield traits in segregating populations of peas (*Pisum sativum* L.)
VG Narsinghani and OP Kashyap
Vegetable Science 12(2), 105-111
- 277 Heterosis and combining ability studies of some quality characters in cauliflower
Dinesh Upadhyay and JC Kumar
Vegetable Science 12(2), 112-119
- 278 Reaction of pepper varieties to bell pepper leaf distortion mosaic caused by potato virus Y (PVY^{o-sbp} strain)
PD Thakur, SC Chowfla, OP Sharma
Vegetable Science 12(2), 120-222
- 279 Effect of nitrogen and potash fertilization on the jassid incidence and yield of okra
R Singh, RS Jaglan
Vegetable Science 12(2), 123-127

Vegetable Science 13(1), 1986

- 280 Effect of different quality of irrigation water on nutrient uptake and yield of cauliflower (*Brassica oleracea* var. *botrytis* L.)
BR Yadav, KV Paliwal, SPS Tomar
Vegetable Science 13(1), 1-7

- 281 Effect of date of sowing and row spacing on processing characters and yield of garden pea
MS Saimbhi, KS Randhawa
Vegetable Science 13(1), 8-16
- 282 Response of chilli (*Capsicum annum* L.), variety pant C-1 to varying levels of nitrogen and spacing
EH Rao, L Gushanlal
Vegetable Science 13(1), 17-21
- 283 Effect of phosphorus and row spacing on green pod yield in garden pea
MS Saimbhi, BS Gill
Vegetable Science 13(1), 22-24
- 284 Effect of packaging on longevity of cluster bean seeds under ambient conditions
SD Doijode
Vegetable Science 13(1), 25-29
- 285 Studies on spacing requirements for seed crop of spinach beet (*Beta vulgaris* var. *bengalensis*)
KP Singh, PS Malik, YS:Yadav
Vegetable Science 13(1), 30-33
- 286 Maintenance of vigour, viability and yield potential of cauliflower seed
R Mitra, RN Basu
Vegetable Science 13(1), 34-40
- 287 Physical and physiological changes during seed development and maturation in cluster bean
D Kalavathi, K Vanangamudi, M Jayabharathi
Vegetable Science 13(1), 41-48
- 288 Genetic variability, heritability and genetic advance for some traits in winged bean
A Philip, SN Ramachandran
Vegetable Science 13(1), 49-54
- 289 Genetic studies on uptake of Fe, Zn and Mn by tomato (*Lycopersicon esculentum* Mill.)
SS Pal, TK Chattopadhyay
Vegetable Science 13(1), 55-59
- 290 Heterosis and combining ability in cucumber (*Cucumis sativus* L.)
AM Musmade, PN Kale
Vegetable Science 13(1), 60-68
- 291 Survival and incubation of *Septoria vignicola* on cowpea
RD Rawal, HS Sohi
Vegetable Science 13(1), 69-73
- 292 Changes in physico-chemical composition of carrot
RK Pal, SK Roy
Vegetable Science 13(1), 74-78
- 293 Influence of different dates of transplanting of kharif onion (*Allium cepa* L.)
TR Katwale, AL Bisen
Vegetable Science 13(1), 79-82
- 294 Fruit and seed yield of chilli (*Capsicum annum* L.) as influenced by Naphthalene Acetic Acid
VT Yamgar, UT Desai, PN Kale, KG Choudhari
Vegetable Science 13(1), 83-89
- 295 Studies on floral biology in beet root (*Beta vulgaris* L.) under mid-hills of Western Himalaya
BS Mehta, ML Bhardwaj, OP Sharma, UK Kohali
Vegetable Science 13(1), 90-91
- 296 Reaction of F1 hybrid and physical mixtures to bacterial wilt in Tomato
AG Sheela, KV Peter
Vegetable Science 13(1), 92-96

- 297 Efficacy of certain insecticides in the control of bhindi shoot and fruit borer (*Earias vitella* stoll)
GD Verma, RN Chaudhary, SK Ghosh, RS Chaudhari
Vegetable Science 13(1), 97-100

Vegetable Science 13(2), 1986

- 298 Breeding for disease resistance in vegetable crops- Problems and Prospects
V Swarup, VS Seshadri
Vegetable Science 13(2), 101-106
- 299 Multi resistant peas in 2000
AD VG Narsinghani, A Tiwari
Vegetable Science 13(2), 107-112
- 300 Inheritance of resistant to powdery mildew of pea (*Pisum sativum* L.)
HK Khosla, CS Goray
Vegetable Science 13(2), 113-115
- 301 Source of resistance for breeding garden peas resistant to Fusarium wilt
Ramphal, B Choudhury, JP Singh, chetan, Singh
Vegetable Science 13(2), 116-121
- 302 Linkage between resistance to Fusarium wilt and plant height in garden pea
C Ramphal, Singh, JP Singh
Vegetable Science 13(2), 122-126
- 303 Observations on inheritance of resistance to Fusarium wilt in garden peas
Ramphal, B Choudhury
Vegetable Science 13(2), 127-130
- 304 Allelic test and inheritance of resistance to powdery mildew in pea
UP Singh, CP Shrivastava, MN Singh, RM Singh
Vegetable Science 13(2), 131-136
- 305 August planting of peas on hillocks in Madhya Pradesh
VG Narsinghani, A Tiwari
Vegetable Science 13(2), 137-139
- 306 Breeding vegetable cowpea resistance to bacterial blight
D Singh
Vegetable Science 13(2), 140-142
- 307 Studies on breeding tomatoes for resistance to bacterial wilt (*Pseudomonas solanacearum*) and root-knot nematode (*Meloidogyne incognita*)
SK Tikoo, N Anand, Ramkishan, PP Reddy
Vegetable Science 13(2), 143-149
- 308 Septoria leaf spot resistance in tomato
BB Madalageri, TH Barksdale
Vegetable Science 13(2), 150-152
- 309 Genotypic variations in tomato for moisture stress conditions
N Anand, SK Tikoo, PR Ramachander
Vegetable Science 13(2), 153-158
- 310 Reaction of breeding lines, cultivars and Lycopersicon species to tomato leaf curl virus
AK Saikia, V Muniyappa, G Channarayappa Shivashankar, ...
Vegetable Science 13(2), 159-168
- 311 Evaluation of segregation and non-segregating populations of tomato for bacterial wilt resistance and assessment of their performance
CN Kutty, KV Peter
Vegetable Science 13(2), 169-173

- 312 Breeding for nematode resistance and some fungal diseases in tomato
SB Rajjadhav, PN Kale
Vegetable Science 13(2), 174-182
- 313 Reaction of tomato cultivars and hybrids to tomato spotted wilt virus
MB Joi, AS Summanwar
Vegetable Science 13(2), 183-188
- 314 Bacterial wilt (*Pseudomonas solanacearum* EF Smith) resistance in eggplant
G Gopinath, BB Madalageri
Vegetable Science 13(2), 189-195
- 315 A note on the evaluation of tomato genotypes for resistance to bacterial wilt (*Pseudomonas solanacearum*)
A Tewari
Vegetable Science 13(2), 196-198
- 316 Chemical composition of little leaf disease affected leaves of different genotypes of brinjal (*Solanum* spp.)
PB Kale, SW Mankar, PD Wangikar, VS Gonge
Vegetable Science 13(2), 199-204
- 317 Integrated effects of plant protection measures and resistance breeding for control of little leaf of brinjal
PB Kale, SW Mankar, PD Wangikar, VS Gange
Vegetable Science 13(2), 205-214
- 318 Identification of sources of resistance to little leaf disease of brinjal
SA Memane, MB Joi, DM Sawant, PN Kale
Vegetable Science 13(2), 215-218
- 319 Screening of chilli varieties against leaf curl complex
DM Sawant, SA Memane, MB Joi, PN Kale
Vegetable Science 13(2), 219-222
- 320 Inheritance of resistance to anthracnose disease in chilli
DS Cheema, DP Singh, RD Rawal, AA Deshpande
Vegetable Science 13(2), 223-229
- 321 Reaction of Capsicum species and varieties to bell pepper yellow mosaic virus
DM Sawant, SP Capoor
Vegetable Science 13(2), 230-234
- 322 Breeding strategy for virus resistance in chillies
VP Tewari
Vegetable Science 13(2), 235-238
- 323 Inheritance of resistance to Cercospora leaf spot in chilli
DS Cheema, DP Singh, RD Rawal, AA Deshpande
Vegetable Science 13(2), 239-246
- 324 Breeding tomato for heat tolerance
S Kalakhanna, G Satyanarayan
Vegetable Science 13(2), 247-249
- 325 Disease resistance in tomato, chilli and brinjal a review
KV Peter, M Joseph
Vegetable Science 13(2), 250-284
- 326 Disease resistance in cauliflower (*Brassica oleracea* var. *botrytis*) against *Sclerotinia sclerotiarum* (lib)
De Bari KS Kapoor
Vegetable Science 13(2), 285-288
- 327 Transferring disease and pest resistance to onion (*Allium cepa* L.) from *Allium fistulosum* L.
UK Kohli
Vegetable Science 13(2), 289-292

- 328 Studies on artificial creation of purple blotch epiphytotics in onion for identifying source of resistance
JS Dhiman, ML Chadha
Vegetable Science 13(2), 293-299
- 329 Source of resistance to purple blotch in onion
CS Pathak, DP Singh, AA Deshpande, TS Sreedhar
Vegetable Science 13(2), 300-303
- 330 Studies on relative reaction of onion genotypes against purple blotch disease
M Kamalesh, SN Sharma
Vegetable Science 13(2), 304-309
- 331 Breeding for disease resistance in okra
MR Thakur
Vegetable Science 13(2), 310-315
- 332 Resistance mechanism in *Abelmoschus manihot* (linn.) Medic introduction to yellow vein mosaic
NS Devi, KV Peter
Vegetable Science 13(2), 316-317
- 333 Use of related species in transferring disease and pest resistance genes to okra
YS Nerkar, ND Jambhale
Vegetable Science 13(2), 318-323
- 334 Identification of sources of resistance to yellow vein mosaic virus in okra cultivars
SA Memane, MB Joi, PN Kale
Vegetable Science 13(2), 324-327
- 335 Inheritance of resistant to choanephora rot (*Choanephora cucurbitarum*) in okra
BN Korla, MR Thakur, PP Sharma
Vegetable Science 13(2), 328-331
- 336 Interspecific hybridization in bhindi for yellow vein mosaic resistance
PRU Pilla, H Mathews, R Gopimony
Vegetable Science 13(2), 332-336
- 337 Resistance of okra (*Abelmoschus esculentus* L.) to yellow vein mosaic virus under field condition
GS Gaur, RP Singh
Vegetable Science 13(2), 337-338
- 338 Nature of resistance and effect of yellow vein mosaic virus on moisture, chlorophyll, chlorophyllase and carbohydrate contents of okra
N Ahmed, M Thakur, K Bajaj
Vegetable Science 13(2), 339-353
- 339 Resistance in okra to the cotton jassid (*Amrasca biguttula biguttula* Ishida) and the fruit borer (*Earias* sp.)
D Singh, BR Sharma, SK Arora
Vegetable Science 13(2), 355-358
- 340 Screening chilli pepper germplasm for resistance against Scirtothrips dorsalis hood
GS Tewari, AA Deshpande, N Anand
Vegetable Science 13(2), 359-364
- 341 Breeding cutworm resistance in peas
J Mahobe
Vegetable Science 13(2), 365-366
- 342 Screening of pea varieties against leaf miner (*Phytomyza atricornis* Meign)
J Mahobe, VG Narsinghani
Vegetable Science 13(2), 367-368
- 343 Genetics of jassid resistance in okra (*A. esculentus* L.)
JS Randhawa
Vegetable Science 13(2), 369-371

- 344 Field evaluation of cucumber genotypes for resistance to pumpkin beetle (*Raphidopalpa foveicollis* Lucas)
VA Khaire, JD Patil, KE Lawande, DS Ajri
Vegetable Science 13(2), 372-375
- 345 Screening of brinjal germplasm (*Solanum* spp.) for resistance to shoot and fruit borer (*Leucinodes orbonalis* Guen.) under field conditions
PB Kale, UV Mohod, VN Dod, HS Thakare
Vegetable Science 13(2), 376-383
- 346 Store grain pest resistance in peas
U Awasthi, VG Narsinghani
Vegetable Science 13(2), 384
- 347 Development of fruit borer *Earias vittella* Stoll. on resistant and susceptible varieties of okra
CS Patil, PR Moholkar, DS Ajri
Vegetable Science 13(2), 385-388
- 348 Resistance to Aphid *craccivora* Kach in cowpea
KA Sulochana, KV Peter
Vegetable Science 13(2), 389-396
- 349 Relative susceptibility of varieties and local collection of brinjal to jassid and borer
DB Pawar, UN Mote, PN Kale
Vegetable Science 13(2), 397-402
- 350 Locating sources of resistance against thrips in onion
DB Pawar, UN Mote, PN Kale
Vegetable Science 13(2), 403-407
- 351 Field evaluation of bottle gourd genotypes for resistance to pumpkin beetle (*Raphidopalpa foveicollis* (Lucas) and aphid *Bevicoryne brassicae* Linn
VA Khaire, DS Ajri, KE Lawande
Vegetable Science 13(2), 408-411
- 352 Biochemical comparison in relation to resistance to shoot and fruit borer in brinjal
PB Kale, UV Mohod, VN Dod, HS Thakare
Vegetable Science 13(2), 412-421
- 353 Germplasm resources in vegetable crops, suitable for stress condition and resistance to disease and pest
BP Singh, RK Singh, BM, Saxena, P Brahma
Vegetable Science 13(2), 422-424

Vegetable Science 14(1), 1987

- 354 Response of mid-season cauliflower to irrigation, nitrogen and age of seedlings
RP Sharma, PN Arora
Vegetable Science 14(1), 1-6
- 355 Effect of maturity of cutting, planting method and depth of ploughing on the yield of sweet potato (*Ipomoea batatas* Poir.)
VR Biswas, IJ Singh
Vegetable Science 14(1), 7-11
- 356 Seasonal cum varietal variation in chemical constituents of muskmelon (*Cucumis melo* L.)
G Kaur, KL Bajaj, T Lal, KS Nandpuri
Vegetable Science 14(1), 12-17
- 357 Growth and yield of pointed gourd (*Trichosanthes dioica* Roxb.) as influenced by nitrogen and phosphorus fertilization
MK Das, TK Maity, MG Som
Vegetable Science 14(1), 18-26

- 358 Gene action in round fruited bottle gourd
T Janakiram, PS Sirohi
Vegetable Science 14(1), 27-32
- 359 Variability studies in carrot (*Daucus carota*L.)
R Singh, BS Sukhija, JS Hundal
Vegetable Science 14(1), 33-36
- 360 Studies on exploitation of heterosis in bottle gourd
PS Sirohi, N Sivakami, B Chaudhary
Vegetable Science 14(1), 37-41
- 361 Effect of temperature and photoperiod on gynoecious sex expression in cucumber
TA More, HM Munger
Vegetable Science 14(1), 42-50
- 362 Seed longevity in different muskmelon cultivars
SD Doijode
Vegetable Science 14(1), 51-54
- 363 Performance of pea varieties against powdery mildew in Himachal Pradesh
SS BHARKWAJ, KR Shyam, NP Dohroo
Vegetable Science, 14(1), 55-57
- 364 Influence of farmyard manure in the efficacy of fungicides in controlling damping off tomato and chilli
DV Satija, I Hooda
Vegetable Science 14(1), 58-64
- 365 Influence of temperature on incidence of yellow vein mosaic virus in okra
BR Sharma, OP Sharma, RD Bansal
Vegetable Science 14(1), 65-69
- 366 Response of different cucurbits to races of *Pseudoperonospora cubensis*
SS Bains, NK Sharma
Vegetable Science 14(1), 70-77
- 367 Effect of inoculum density and seasons on fusarial wilt of tomato
IJ Kapoor, B Kumar
Vegetable Science 14(1), 78-82
- 368 Chemical control of cucurbit wilt caused by *Fusarium oxysporum* Schlecht
SJ Gaikwad, B. Sen
Vegetable Science 14(1), 83-91
- 369 Studies on *Cercospora* leaf spot disease of brinjal in Karnataka
BA Ullasa, HS Sohi
Vegetable Science 14(1), 92-97
- 370 Response of sweet pepper to irrigation and nitrogen fertilization
A Gupta
Vegetable Science 14(1), 98-100
- 371 Effect of plant density on yield beans (*Phaseolus vulgaris*)
S Thimmegowda
Vegetable Science 14(1), 101-104

Vegetable Science 14(2), 1987

- 372 Effect of different levels of nitrogen and spacing on seed yield of radish (*Raphanus sativus* L.)
KB Rastogi, PP Sharma, BN Korla
Vegetable Science 14(2), 105-109

- 373 Effect of different levels of exchangeable sodium percentage (ESP) on seed production of onion (*Allium cepa* L.)
JL Mangal, S Lal, GR Singh, PS Hodda
Vegetable Science 14(2), 110-114
- 374 Response of micronutrients on yield of beet root cv. Sutton's Globe
BK Jana
Vegetable Science 14(2), 115-119
- 375 Effect of different levels of nitrogen and plant spacing on seed yield of okra (*Abelmoschus esculentus* (L.) Moench)
KB Rastogi, PP Sharma, NP Sing, BN Korla
Vegetable Sci 14(2), 120-123
- 376 Influence of micronutrients on growth and yield of French bean cv. Contender under polyhouse conditions
BK Jana, K Jahangir
Vegetable Science 14(2), 124-127
- 377 Genetics of fruit characters in sweet pepper (*Capsicum annuum* Linn. var. *grossum* Sendt.)
PC Thakur, B Choudhary, HS Gill
Vegetable Science 14(2), 128-137
- 378 Maintenance of gynoecious muskmelon with silver thiosulphate
TA More, VS Seshadri
Vegetable Science 14(2), 138-142
- 379 Inheritance of certain seed characters in pumpkin (*Cucurbita moschata* Poir.)
SD Doijode, UN Sulladmath and RS Kulkarni
Vegetable Science 14(2), 143-146
- 380 Gene effects and heritability studies for total soluble solids and thickness in watermelon (*Citrullus lanatus* (Thunb.) Mansf.)
RN Vasshitha, PS Pratap and ML Pandita
Vegetable Science 14(2), 147-151
- 381 Heterosis and combining ability in watermelon (*Citrullus lanatus* (Thunb.) Mansf.)
VVP Reddy, MR Rao, CR Reddy
Vegetable Science 14(2), 152-160
- 382 Heterosis and combining ability studies in turnip (*Brassica rapa* L.)
NK Pathania, RS Rattan, MC Thakur
Vegetable Science 14(2), 161-168
- 383 Genetic variability and heritability studies in Dolichos bean (*Dolichos lablab* Roxb L.)
AK Das, P Hazra, MG Som
Vegetable Science 14(2), 169-173
- 384 Genetic variability and correlation studies in sweet potato (*Ipomoea batata* L.)
RK Srivastava, NC Gautam
Vegetable Science 14(2), 174-179
- 385 Chemotherapy against turnip phyllody in seed producing areas
KS Kapoor, HS Gill, SR Sharma
Vegetable Science 14(2), 180-184
- 386 Bioefficiency and residue of carbaryl investigation in/on brinjal
HCL Gupta, SC Mehta, BL Pareek
Vegetable Science 14(2), 185-194
- 387 Chemical control of chilli thrips, *Scirtothrips dorsalis* Hood (Thysanoptera: Thripidae).
MM Sanap, RN Nawale
Vegetable Science 14(2), 195-199

- 388 Note on heterosis in *Capsicum annuum* L.
TG Devi, KV Peter
Vegetable Science 14(2), 200-202
- 389 Evaluation of turnip (*Brassica rapa* L.) varieties for dehydration
MS Saimbhi, B Singh
Vegetable Science 14(2), 203-205
- 390 Acremonium wilt of pea-a new record.
M Kamlesh, KS Shekhawat, BS Siradhana
Vegetable Science 14(2), 206-208

Vegetable Science 15(1), 1988

- 391 Effect of nitrogen and phosphorus on seed production of turnip (*Brassica rapa* L.)
N Ahmed, MI Tanki
Vegetable Science 15(1), 1-7
- 392 Effect of nitrogen, plant spacing and green fruit pickings on the seed production of okra (*Abelmoschus esculentus* (L.) Moench)
AR Khan, RC Jaisal
Vegetable Science 15(1), 8-14
- 393 Seed storability as affected by different stages of fruit development in chilli
SD Doijode
Vegetable Science 15(1), 15-20
- 394 Carbon assimilation and dry matter partitioning in tomato (*Lycopersicon esculentum* Mill.) cultivars
RM Bhatt, NKS Rao
Vegetable Science 15(1), 21-30
- 395 Epistasis, additive and dominance variation in carrot
KS Chandel, RS Rattan
Vegetable Science 15(1), 31-37
- 396 Genetic analysis of seeds per pod in peas (*Pisum sativum* L.)
CP Srivastava, RB Singh
Vegetable Science 15(1), 38-48
- 397 Genetic analysis of fruit dry matter in tomato
ED Yadav, PN Kale, KN Wavhal
Vegetable Science 15(1), 49-54
- 398 Heterosis and combining ability studies in late cauliflower (*Brassica oleracea* var. *botrytis* L.)
SR Sharma, HS Gill, KS Kapoor
Vegetable Science 15(1), 55-63
- 399 Heterosis and Combining ability studies of pigmentation in brinjal (*Solanum melongena* L.)
ML Chadha, RK Hedge, KL Bajaj
Vegetable Science 15(1), 64-71
- 400 Studies on hybrid vigour and combining ability in brinjal (*Solanum melongena* L.)
B Singh, N Kumar
Vegetable Science 15(1), 72-78
- 401 Interrelationship of yield components in cucumber
S AbuSalena, OP Dutta
Vegetable Science 15(1), 79-85
- 402 Studies on genetic variability and character association in watermelon
L Prasad, SP Gautam, NC, Singh
Vegetable Science 15(1), 86-94

- 403 Correlation and path coefficient analysis in watermelon (*Citrullus lanatus* (Thunb.) Mansf.)
NK Singh, RK Singh
Vegetable Science 15(1), 95-10
- 404 Effect of molybdenum application on yield attributes and yield of cauliflower
CM Sharma, JK Sharma, RS Minhas
Vegetable Science 15(1), 101-104

Vegetable Science 15(2), 1988

- 405 Effect of nitrogen fertilization, spacing and methods of planting on yield parameters and quality of tomato cultivar Pant bahar
DC Dimir, G Lal
Vegetable Science 15(2), 105-112
- 406 Chemical weed control in bell pepper (*Capsicum annuum* L.)
PP Sharma, GM Lnakroo, PS Arya
Vegetable Science 15(2), 113-119
- 407 Effect of various levels of nitrogen, spacing and their interaction on seed crop of onion (*Allium cepa* L.) variety Pusa Red
KP Singh, K Singh, RC Jaiswal, K Singh
Vegetable Science 15(2), 120-125
- 408 Studies on partial vacuum storage of onion and bell pepper seeds
SD Doijode
Vegetable Science 15(2), 126-129
- 409 Dry matter accumulation and distribution pattern in French bean (*Phaseolus vulgaris* L.) in relation to nitrogen and phosphorus fertilization
K Srinivas, LB Naik
Vegetable Science 15(2), 130-136
- 410 Screening of snowball cauliflower genotypes for tolerance to boron deficiency in Chotanagpur region
M Prasad, SC Kotur, DP Singh
Vegetable Science 15(2), 137-140
- 411 Biochemical composition of fruits of promising brinjal varieties and hybrids (*Solanum melongena* L.)
DK Singh, NC Gautam, CP Awasthi, RD Singh
Vegetable Science 15(2), 141-148
- 412 Performance of heading type Chinese cabbage lines at Hisar
HC Khurana and ML Pandita
Vegetable Science 15(2), 149-154
- 413 Genetic variability and genotype x environment interaction in pea
BN Korla, AK Singh
Vegetable Science 15(2), 155-162
- 414 Partial diallel analysis for the study of combining ability in garden pea
AS Tewatia, G Kalloo, BS Dhankar
Vegetable Science 15(2), 163-170
- 415 Heterosis and combining ability studies for some fruit characters in bell pepper (*Capsicum annuum* L.)
BL Kaul, PP Sharma
Vegetable Science 15(2), 171-180
- 416 Commercial evaluation of tomato varieties for processing
KS Randhawa, MS Saimbhi, BS Gill
Vegetable Science 15(2), 181-184
- 417 Control of flower fall through stimulants and regulation in chilli
P Usha, KV Peter
Vegetable Science 15(2), 185-189

- 418 Effect of NAA, ethrel and 2, 4-D on vegetative growth and yield of okra (*Abelmoschus esculentus* L.)
RK Singh, R Kumar
Vegetable Science 15(2), 190-192
- 419 Level of self-incompatibility in tropical cauliflower (*Brassica oleracea* var. *botrytis* L.)
JP Singh, MK Singh, RD Singh
Vegetable Science 15(2), 193-195
- 420 A new species of *Fusarium* causing root rot in okra.
M Kamlesh,
KS Shekhawat
Vegetable Science 15(2), 196-197
- 421 A preliminary report on the occurrence of phyllody in coriander V Prakasam, PGB Vedamuthu, MA Khader,
R Jeyarajan
Vegetable Science 15(2), 198-199
- 422 Effect of different insecticides on the control of thrips in the nursery of Kharif onion sets
RP Gupta, BS Bhardwaj, JB Singh
Vegetable Science 15(2), 200-202

Vegetable Science 16(1), 1989

- 423 Effect of concentration and methods of application of 2, 4-D phenoxy acetic acid on yield, fruit quality and seed quality of tomato (*Lycopersicon esculentum* Mill)
AK Mehta, RP Singh, G Lal
Vegetable Science 16(1), 1-8
- 424 Experimental techniques for onion experiments
PR Ramachander, CS Pathak
Vegetable Science 16(1), 9-13
- 425 Environmental interaction on radish cultivars
TS Verma, S Dayal, R Chard
Vegetable Science 16(1), 14-20
- 426 Effect of tomato leaf curl virus on biochemical attributes in resistant/susceptible plants of tomato (*Lycopersicon esculentum* Mill.)
MK Banerjee, G Kalloo
Vegetable Science 16(1), 21-31
- 427 Morphological attributes associated with the adaptation under water deficit conditions in tomato (*Lycopersicon esculentum* Miller)
MK Rana, K Gautam
Vegetable Science 16(1), 32-38
- 428 Correlation and path analysis in long fruited brinjal (*Solanum melongena* L.)
JS Randhawa, JC Kumar, ML Chadha
Vegetable Science 16(1), 39-48
- 429 Studies on heterosis as influenced by combining ability in bitter gourd
KE Lawande, AV Patil
Vegetable Science 16(1), 49-55
- 430 Screening of onion cultivars for storage quality
RS Patil, PN Kale
Vegetable Science 16(1), 56-61
- 431 Relative efficacy of different fungicides for the control of leaf spot of cabbage
BP Singh, SP Singh, A Mohammad, GM Mishra
Vegetable Science 16(1), 62-65

- 432 Studies on host preference and rate of feeding by red pumpkin beetle (*Aulacophora foveicollis*) on different cucurbits
PK Mehta, GS Sandhu
Vegetable Science 16(1), 66-74
- 433 Effect of plant spacing and seed rate on the seed yield of fenugreek
JS Kanwar, MS Saimbhi
Vegetable Science 16(1), 75-77
- 434 A note on the use of TPS seedling tubers for the production of ware potato crop
SC Khurana, ML Pandita
Vegetable Science 16(1), 78-81
- 435 Effect of some herbicides on chemical composition of potato tubers
J Kumar
Vegetable Science 16(1), 82-84
- 436 Studies on biochemical constituents in different genotypes of Colocasia (*Colocasia esculenta* L.)
RC Jaiswal, B Chand, AB Abidi, NC Gautam
Vegetable Science 16(1), 85-88
- 437 Deteriorative changes in cluster bean seeds stored in different conditions
SD Doijode
Vegetable Science 16(1), 89-92
- 438 Response of tomato (cv. arka vikash) to mixtalol application
V Shukla, BS Prabhakar
Vegetable Science 16(1), 93-95
- 439 Effect of fruit grading on seed quality characteristics in bittergourd
K Vanagamudi, V Palaniswami
Vegetable Science 16(1), 96-98
- 440 Path coefficient and multiple regression analysis in tomato (*Lycopersicon esculentum* Mill.)
AS Sindhu, S Singh
Vegetable Science 16(1), 99-103
- 441 Field reaction of wild tomato species to various diseases
IS Bist, U Chandra, TA Thomas
Vegetable Science 16(1), 104-106

Vegetable Science 16(2), 1989

- 442 Effect of nitrogen and phosphorus on seed production of carrot (*Daucus carota* L.)
N Ahmed, MI Tanki, N Ahmed
Vegetable Science 16(2), 107-112
- 443 Influence of various spacings and methods of training on growth and yield of pointed gourd (*Trichosanthes dioica* Roxb.)
JP Yadav, K Singh, RC Jaiswal, K Singh
Vegetable Science 16(2), 113-118
- 444 Studies on the effect of root age, size and spacing on seed yield of turnip (*Brassica campestris* var. *rapa* L.)
CB Singh, ML Pandita, SC Khurana
Vegetable Science 16(2), 119-124
- 445 Effect of rhizobium and phosphorus on pod yield and chemical constituents of cowpea (*Vigna unguiculata* L.)
T Singh, SB Singh, CP Awasthi, BN Singh, SK Srivastava
Vegetable Science 16(2), 125-131
- 446 Salt tolerance of five cabbage cultivars
JL Mangal, AC Yadava, S Lal, UC Pandey
Vegetable Science 16(2), 132-135

- 447 Effect of nitrogen, potash and zinc on growth, yield and quality of onion
J Singh, BS Dhankar
Vegetable Science 16(2), 136-144
- 448 Biochemical basis of relative field resistance of eggplant (*Solanum melongena*) to the shoot and fruit borer (*Leucinodes orbonalis* Guen.).
KL Bajaj, D Singh, G Kaur
Vegetable Science 16(2), 145-149
- 449 A new method of selection for nucleus seed production in cabbage (*Brassica oleracea* var *capitata* L.)
HS Gill
Vegetable Science 16(2), 150-155
- 450 High temperature tolerance in tomato: evaluation of genotypes
MK Rana, G Kalloo
Vegetable Science 16(2), 156-167
- 451 Evaluation of tomato genotypes for fruit-set under low temperature conditions
A Jhamb, RN Tewari
Vegetable Science 16(2), 168-174
- 452 Genetic analysis of protein content in pea seed (*Pisum sativum* L. var. *hortense*)
KB Rastogi, PP Sharma, BN Korla
Vegetable Science 16(2), 175-180
- 453 Genetic analysis for maturity and plant characteristics in muskmelon (*Cucumis melo*)
MJ Singh, KS Randhawa, Tarsemlal
Vegetable Science 16(2), 181-184
- 454 Studies on floral biology of pointed gourd (*Trichosanthes dioica* Roxb.)
AK Singh, RD Singh, JP Singh
Vegetable Science 16(2), 185-190
- 455 Heterosis and combining ability in okra (*Abalmoschus esculentus* L.)
AK Shukla, NC Gautam, AK Tiwari, AK Chaturvadi
Vegetable Science 16(2), 191-196
- 456 Fungicide trial for the control of damping off of tomato and chilli in nursery beds
D Vir, I Hooda
Vegetable Science 16(2), 197-200
- 457 Studies on moult inhibitor and synthetic pyrethroids for the control of cabbage diamond back moth, *Plutella xylostella* (L.) on cabbage
DS Rajavel, PCS Babu
Vegetable Science 16(2), 201-204
- 458 Polyphenol oxidase and peroxidase activities in relation to resistance in potatoes against bacterial soh rot
SS Karwasre
Vegetable Science 16(2), 205-207

Vegetable Science 17(1), 1990

- 459 Response of cauliflower to nitrogen and phosphorus fertilization on irrigation with saline waters.
BR Yadav, KV Paliwal
Vegetable Science 17(1), 1-6
- 460 Organic, inorganic fertilizers and their combinations on yield and storage life of hot chilli.
N Meena, KV Peter
Vegetable Science 17(1), 7-10
- 461 Response of vegetable pea to irrigation.
J Singh, UC Pandey, VP Kohli
Vegetable Science 17(1), 11-15

- 462 Response of spring planted okra to varying levels of irrigation and plant spacing.
A Gupta
Vegetable Science 17(1), 16-19
- 463 Carrot (*Daucus carota* L.) seed yield as influenced by different shoot and root cut treatments of variety Pusa Kesar.
PT Digole, NN Shinde
Vegetable Science 17(1), 20-24
- 464 Relative growth behaviour of potato (*Solanum tuberosum* L.) cultivars in autumn in Punjab plains.
BD Sharma, UC Sharma, HN Kaul
Vegetable Science 17(1), 25-30
- 465 Biochemical studies on four strains of kakrol (*Momordica dioica* Roxb.)
AK Dubey, GS Gaur
Vegetable Science 17(1), 31-37
- 466 Genotypic differences in longevity of tomato seeds.
SD Doijode
Vegetable Science 17(1), 38-41
- 467 Studies on TSS variation of muskmelon (*Cucumis melo* L.) varieties.
SA Reddy, V Seshadri, TA More
Vegetable Science 17(1), 42-46
- 468 Evaluation of French bean (*Phaseolus vulgaris* L.) germplasm.
HH Ram, BP Singh
Vegetable Science 17(1), 47-55
- 469 Studies on heterosis for growth characters and earliness in brinjal.
V Shankaraiah, RR Rao
Vegetable Science 17(1), 56-62
- 470 Surface residues of EPN on okra and brinjal.
S Sridharan, R Janarthanan
Vegetable Science 17(1), 63-65
- 471 Effect of sowing date on curd production and seed yield of cauliflower.
R Chatterjee, MG Som
Vegetable Science 17(1), 66-69
- 472 Note on chemical weed control in onion crop
RM Sharma, M Singh
Vegetable Science 17(1), 70-72
- 473 Studies on weed control in okra (*Abelmoschus esculentus* (L.) Moench).
V Singh
Vegetable Science 17(1), 73-76
- 474 Studies on the fertilizer requirements for targeted vegetable production and cropping sequence.
K Subbiah, S Sundararajan
Vegetable Science 17(1), 77-81
- 475 Short note on the effect of maturity of cutting, planting method and depth of ploughing on the quality of sweet potato (*Ipomoea batatas* Poir.) cv. Pusa Suffaid.
VR Biswas, IJ Singh
Vegetable Science 17(1), 82-86
- 476 Variation in nitrate reductase activity and protein in the leaves and pods of sem (*Lablab purpureus* (L.) Sweet)
CP Awasthi, NC Gautam, B Agnihotri
Vegetable Science 17(1), 87-90

- 477 Studies in sugar and acid content of tomato fruits (*Lycopersicon esculentum* Mill.) on storage
TK Sarkar, SC Jana, TK Chattopadhyay
Vegetable Science 17(1), 91-94
- 478 Combining ability in early peas.
PG Karmakar, RP Singh
Vegetable Science 17(1), 95-98
- 479 Pollination and seed setting studies in cucumber (*Cucumis sativus* L.).
C Shakti, K Jagmohan, PS Arya
Vegetable Science 17(1), 99-101
- 480 A note on inter relationship between yield and important plant characters in cucumber
KB Rastogi, Aryadeep
Vegetable Science 17(1), 102-104
- 481 Evaluation of selected chilli lines (*Capsicum annum* L.)
Amarchandra, K Verma, RG Satpute
Vegetable Science 17(1), 105-107
- 482 Chemical control of thrips infesting kharif onion
BS Bhardwaj, RP Gupta, UB Pandey
Vegetable Science 17(1), 108-109
- 483 Cost effective control of die-back and fruit rot of chillies.
PP Sinha
Vegetable Science 17(1), 110-112

Vegetable Science 17(2), 1990

- 484 Influence of harvesting conditions on the yield and quality of brinjal seeds.
M Jayabarathi, V Palanisamy, D Kalavathi, P Balamurugan
Vegetable science 17(2), 113-118
- 485 Effects of herbicides on weed population and levels of nitrogen on seed yield and its components in
turnip.
AK Singh, RG Reddy
Vegetable Science 17(2), 119-126
- 486 Effect of different levels of irrigation and fertilization on growth and yield of carrot (*Daucus carota* L.) for
root production.
BR Batra
Vegetable Science 17(2), 127-139
- 487 Morpho-physiological response of garden pea (*Pisum sativum* L.) cultivars to sowing dates II. Growth and
development pattern.
BK Srivastava, RP Singh
Vegetable Science 17(2), 140-148
- 488 Biochemical composition and nutritive quality of immature pods and seeds of sem (*Lablab purpureus* (L.)
Sweet.
CP Awasthi, NC Gautam, B Agnihotri
Vegetable Science 17(2), 149-156
- 489 Evaluation of biparental progenies for the improvement of Indian cauliflower.
L Tarsem, SS Chatterjee, V Swarup
Vegetable Science 17(2), 157-166
- 490 Studies on Fusarium wilt resistance in Lycopersicon: Screening and method of assessment
MK Banerjee, G Kalloo, I Jalali
Vegetable Science 17(2), 167-174

- 491 Genotypexenvironment interaction of yield components in pea (*Pisum sativum* L.).
NC Gautam, AK Chaturvedi
Vegetable Science 17(2), 175-179
- 492 Studies on heterosis and gene action in brinjal (*Solanum melongena* L.).
RD Singh, B Rai
Vegetable Science 17(2), 180-185
- 493 Variation in quality traits of bittergourd (*Momordica charantia* L.) cultivars.
RC Jaiswal, K Sanjeev, R Manoj, DK Singh
Vegetable Science 17(2), 186-190
- 494 Comparative effect of chloride and sulphate salinity in irrigation water on yield and mineral nutrition of cauliflower (*Brassica oleracea* var. *botrytis* L.).
BR Yadav, SPS Tomar
Vegetable Science 17(2), 191-194
- 495 Effect of planting material and date of planting on bolting and seed yield of onion (*Allium cepa* L.).
BK Nehra, ML Pandita, S Kirti
Vegetable Science 17(2), 195-197
- 496 Note on response of turmeric (*Curcuma longa* L.) to phosphorus in acidic soils.
CR Gupta, PN Singh, VK Singh
Vegetable Science 17(2), 198-200
- 497 Physico-chemical characteristics of some tomato cultivars growing under high humid region of NE India.
L Saikia, NN Puzari, A Shadeque
Vegetable Science 17(2), 201-204
- 498 Yield and growth response of garden pea (*Pisum sativum* L.) to nitrogen and phosphorus application.
B Vijai, T Singh
Vegetable Science 17(2), 205-209
- 499 Effect of nitrogen and spacing on seed production of radish.
AP Singh, MK Singh, JP Singh, SB Singh
Vegetable Science 17(2), 210-212
- 500 Genetic variability and correlation studies in French bean (*Phaseolus vulgaris* L.)
P Saha, P Hazra, TK Maity
Vegetable Science 17(2), 213-216
- 501 Genetic variability in Kashmiri chilli (*Capsicum annum* L.).
A Nazeer, MI Tanki, MY Bhat
Vegetable Science 17(2), 217-220
- 502 Genetic variability studies in pumpkin (*Cucurbita moschata* Poir).
U Borthakur, A Shadeque
Vegetable Science 17(2), 221-223
- 503 Variability studies in cucumber (*Cucumis sativus* L.).
KB Rastogi, D Arya
Vegetable Science 17(2), 224-226
- 504 Carbohydrate analysis of some edible mushrooms.
G Savita, VP Kapoor
Vegetable Science 17(2), 227-229
- 505 Effect of irrigation on moisture extraction patterns, consumptive use of water efficiency plant water status in carrot
B R Barta, Kallo
Vegetable Science 18(1), 1-10
-

Vegetable Science 18(1), 1991

- 506 Effect of nitrogen, phosphorus and weed control on growth and yield of vegetable pea
BM Tripathi, SS Singh, SP Singh
Vegetable science 18(1), 11-15
- 507 Effect of nitrogen, potash and zinc on storage loss of onion bulbs (*Allium cepa* L.)
J Singh, BS Dhankhar
Vegetable Science 18(1), 16-23
- 508 Effect of transplanting dates and varieties on number of leaves and yield in onion (*Allium cepa* L.)
A Singh, BN Korla
Vegetable Science 18(1), 24-28
- 509 Effect of colchicine on germination and mortality in tomato (*Lycopersicon esculentum* L.)
BR Thakare
Vegetable Science 18(1), 29-31
- 510 Effect of mixtalol arid vipul on growth, flowering and yield of okra (*Abelmoschus esculentus* L. Moench)
ML Pandita, NK Sharnia, SK Arora
Vegetable Science 18(1), 32-40
- 511 Cultivar identification through seed protein electrophoresis in *Phaseolus vulgaris*
HH Ram, BP Singh
Vegetable Science 18(1), 41-52
- 512 Heterosis and combining ability in a line x tester cross of onion (*Allium cepa* L.)
TS Aghora, CS Pathak
Vegetable Science 18(1), 53-58
- 513 Use of monoecious lines in heterosis breeding in muskmelon (*Cucumis melo* L.)
PK Kesavan, TA More
Vegetable Science 18(1), 59-64
- 514 Genotype x environment interaction in Colocasia (*Colocasia esculenta* var. *esculenta*)
JP Singh, MK Singh, RD Singh
Vegetable Science 18(1), 65-71
- 515 Performance of some cauliflower cultivars under western Maharashtra conditions
KE Lawande, PN Kale, JD Patil
Vegetable Science 18(1), 72-76
- 516 A technique for creation of artificial epiphytotics of powdery mildew and evaluation of resistance in pea against this disease under hill conditions
AK Sharma
Vegetable Science 18(1), 77-81
- 517 Effect of nitrogen fertilization, plant spacing and steckling size on certain morphological characters and seed yield in radish
SK Sharma, G Lal
Vegetable Science 18(1), 82-87
- 518 Influence of storage conditions on the longevity of tomato and cauliflower seeds
OP Verma, RC Jaiswal, K Singh, NC Gautam
Vegetable Science 18(1), 88-92
- 519 Effect of plant growth regulators on yield and quality of tomato
DB Phookan, A Shadeque, Baruah
Vegetable Science 18(1), 93-96
- 520 Floral biology studies in turnip (*Brassica rapa* L.)
NK Pathania, RS Rattan
Vegetable Science 18(1), 97-98

- 521 Performance of some tomato cultivars during summer in Tarai region
L Gulshan, DK Singh, Tiwari
Vegetable Science 18(1), 99-101
- 522 Note on occurrence of self-incompatibility in kohlrabi (*Brassica oleracea* var. *gongylodes* L.) Vidyasagar, J Kumar
Vegetable Science 18(1), 102-105
- 523 Character association in Pea
VG Narsinghani, AK Saxena
Vegetable Science 18(1), 106-108
- 524 Evaluation of tomato breeding material against tomato leaf curl virus: technique of inoculation
MK Banerjee, G Kalloo
Vegetable Science 18(1), 109-112
- 525 Varietal resistance of French bean to *Alternaria* leaf spot
SP Pathak, Y Kumar, RV Singh, NC Gautam
Vegetable Science 18(1), 113-114

Vegetable Science 18(2), 1991

- 526 Effect of nitrogen and phosphorus with and without boron on curd yield and stalk rot incidence in cauliflower
OP Thakur, PP Sharma, KK Singh
Vegetable Science 18(2), 115-121
- 527 Influence of potassium, zinc and boron on growth and yield of tomato (*Lycopersicon esculentum* Mill.)
SS Singh, SK Verma
Vegetable Science 18(2), 122-129
- 528 Economics of herbicides in bell pepper (*Capsicum annum* L.)
NP Singh, AK Johri, KK Singh
Vegetable Science 18(2), 130-133
- 529 Effect of phosphorus and potassium fertilization on seed crop of French bean cultivars SYM-1 and Kentucky wonder
K Kohli, K Arun, PS Arya
Vegetable Science 18(2), 134-139
- 530 Selection for increased salinity in onion seed crops and effects on other characters
JL Mangal, RK Sing, AC Yadava
Vegetable Science 18(2), 140-145
- 531 Combining ability studies in muskmelon
PK Kesavan, TA More
Vegetable Science 18(2), 146-150
- 532 Genotypic differences in tolerance of heat at fruit set in tomato
MK Banerjee, G Kalloo
Vegetable Science 18(2), 151-155
- 533 Yield stability in pointed gourd (*Trichosanthes dioica* Roxb.)
K Prasad, DP Singh
Vegetable Science 18(2), 156-160
- 534 Stability analysis in cowpea (*Vigna unguiculata* L.)
VP Singh, RD Singh
Vegetable Science 18(2), 161-166

- 535 Evaluation of gynoecious F₁ hybrids for horticultural characters in cucumber
P Vijayakumari, TA More, VS Seshadri
Vegetable Science 18(2), 167-176
- 536 Genetics of quantitative traits in brinjal (*Solanum melongena* L.)
DK Singh, NC Gautam
Vegetable Science 18(2), 177-183
- 537 Inheritance of B-carotene content, total sugars and dry matter content in carrot (*Daucus carota* L.)
S Prakash, RS Rattan, RS Jamwal
Vegetable Science 18(2), 184-191
- 538 Studies on gene action in bitter melon (*Momordica charantia* L.)
KE Lawande, AV Patil
Vegetable Science 18(2), 192-199
- 539 Effect of cucumber mosaic virus on chlorophyll pigment in chillies (*Capsicum annuum* L.)
MJ Singh, J Singh
Vegetable Science 18(2), 200-208
- 540 Studies on the effect of different combination schedule of insecticide on the control of onion thrips in rabi onion
RP Gupta, PK Srivastva, BS Bhardwaj
Vegetable Science 18(2), 209-213
- 541 Effect of zinc on curd yield and quality of Indian cauliflower
JP Singh, MK Thakur
Vegetable Science 18(2), 214-216
- 542 Effect of mixtalol on growth, seed yield and quality of bottle gourd (*Lagenaria sciceraria* (Mol.) Stand)
T Singh, RC Jaiswal, AK Singh
Vegetable Science 18(2), 217-221
- 543 Evaluation of selected varieties of vegetable cowpea
MA Vahab, S Joseph, SK Mathe, VS Devadas, KV Peter
Vegetable Science 18(2), 222-224
- 544 Genetics of vitamin c content in chilli (*Capsicum annuum* L.)
CR Gupta, PK Singh, RDS Yadav
Vegetable Science 18(2), 225-227
- 545 Natural incidence of vesicular-arbuscular mycorrhiza (VAM) in hot pepper
M Nair, KV Peter
Vegetable Science 18(2), 228-231

Vegetable Science 19(1), 1992

- 546 Effect of various levels of nitrogen and spacing on growth, yield and quality of tomato
AB Singh, SS Singh
Vegetable Science 19(1), 1-6
- 547 Effect of spacing and starter solution on growth and yield of tomato (*Lycopersicon esculentum* Mill.)
PK Singh, KP Singh
Vegetable Science 19(1), 7-11
- 548 Influence of nitrogen, phosphorus and maleic hydrazide on the growth and yield of onion plants
BK Singh, CBS Rajput
Vegetable Science 19(1), 12-19
- 549 Pruning tomato for better yield under protected cultivation
RP Joshi, AB Chaulakhandi, MC Joshi
Vegetable Science 19(1), 20-24

- 550 Effect of nitrogen levels on growth, yield and quality of tomato
MS Fageria, PS Arya, J Kumar, AK Singh
Vegetable Science 19(1), 25-29
- 551 Genetic divergence in tomato
DA Gadekar, BL Dhonukshe, FB Patil
Vegetable Science 19(1), 30-35
- 552 Inheritance of seed germination (suboptimal) at low temperature in wild species of *Lycopersicon*
G Kalloo, MK Banerjee
Vegetable Science 19(1), 36-39
- 553 Combining ability studies for fruit yield and resistance under root knot nematode infested conditions in tomato (*Lycopersicon esculentum* Mill.)
G Kalloo, MK Banerjee, RK Jain, A Singh
Vegetable Science 19(1), 40-45
- 554 Combining ability of quantitative characters in pumpkin
PS Sirohi, S Ghorui
Vegetable Science 19(1), 46-52
- 555 Correlation and path-analysis in garlic (*Allium sativum* L.)
OP Vijay
Vegetable Science 19(1), 53-58
- 556 Path coefficient analysis in late cauliflower
SK Dutta, BN Korla, PP Sharma
Vegetable Science 19(1), 59-62
- 557 Correlation studies in chillies
CR Gupta, PK Singh
Vegetable Science 19(1), 63-70
- 558 Highy temperature tolerance in tomato: flower and pollen studies
MK Rana, G Kalloo
Vegetable Science 19(1), 71-78
- 559 Effect of seed soaking and foliar spray of cycocel on germination, growth, flowering, fruit set and yield of okra [*Abelmoschus esculentus* (L.) Moench]
SK Arora, BS Dhankar
Vegetable science 19(1), 79-85
- 560 Biological changes of onion bulbs during storage as influenced by preharvest treatment
J Singh, BS Dhankhar
Vegetable Science 19(1), 86-91
- 561 Evaluation of fungicides against leaf spot of French bean
SP Pathak, Y Kumar, RV Singh
Vegetable Science 19(1), 92-96
- 562 Yield and growth response of cluster bean to nitrogen and phosphorus application
R Baboo, R Kumar, JP Verma
Vegetable Science 19(1), 97-101
- 563 Effect of nitrogen and gibberellic acid on growth and yield attributes of okra cultivar Parbani Kranti
BV Subrayamanyam, G Lal, RP Tiwari
Vegetable Science 19(1), 102-106
- 564 Genetic variability, heritability and genetic advance for yield and its contributing traits in chilli (*Capsicum annum* L.)
B Ram
Vegetable Science 19(1), 107-110

- 565 Bacterial wilt resistance in tomato (*Lycopersicon esculentum* Mill.)
Vidyasagar, J Kumar
Vegetable Science 19(1), 111-114
- 566 Screening cowpea varieties against stem rot caused by *Pythium aphanidermatum*
SK Mathew, MA Wahab, K Abraham
Vegetable Science 19(1), 115-117
- 567 Blossom rot and die back of bush Dolichos bean by *Choanephora cucurbitarum*
KA Cherian, SK Mathew, MA Wahab
Vegetable Science 19(1), 118-120

Vegetable Science 19(2), 1992

- 568 The effect of nitrogen rates and irrigation levels on growth, yield and nutrient contents of cabbage (*Brassica oleracea* var. *capitata* L.)
H Padem, R Alan
Vegetable Science 19(2), 121-125
- 569 Evaluation of mulch materials for potato under low hill valley conditions of Uttar Pradesh
B Ram, VP Singh
Vegetable Science 19(2), 126-131
- 570 Effect of mulching vis-a-vis irrigational interval on growth and yield of cabbage
FA Zaki, MS Mir
Vegetable Science 19(2), 132-136
- 571 Influence of moisture regimes under different planting temperatures and fertility levels on sprout emergence of potato
GR Singh, JL Mangal, R Kumar
Vegetable Science 19(2), 137-142
- 572 Evaluation of furrow method of irrigation for potato crop under eastern U.P. conditions
PN Dwivedi, HC Singh, RS Dixit
Vegetable Science 19(2), 143-146
- 573 Studies on the effect of nitrogen and *Azospirillum* on dry matter and nutrient uptake of cauliflower
DP Kalyani, CR Sankar, RN Pillai, DM Parsad
Vegetable Science 19(2), 147-151
- 574 Induction of salt tolerance in tomato
JL Mangal, S Lal, GR Singh, SK Arora
Vegetable Science 19(2), 152-156
- 575 Inheritance of fruit characters in pumpkin (*Cucurbita moschata* Duch. Ex. Poir.)
PS Sirohi, S Ghoruri
Vegetable Science 19(2), 157-160
- 576 Heterosis studies in chillies (*Capsicum annum* L.)
J Singh, Torsem, D Khurana
Vegetable Science 19(2), 161-165
- 577 Selection of parents for vegetable cowpea breeding by multivariate analysis
P Hazra, MG Som, PK Das
Vegetable Science 19(2), 166-173
- 578 Genetic control of some qualitative characters in melon
T Lal and HS Sandhu
Vegetable Science 19(2), 174-180

- 579 Genetics of quality traits in carrot (*Daucus carota* L.)
KS Chandel, RS Rattan, AK Singh
Vegetable Science 19(2), 181-185
- 580 Studies of the heterosis of half sib and full sib families on the improvement of sweet potato
N Ramaswamy, CR Muthukrishnan
Vegetable Science 19(2), 186-191
- 581 Combining ability studies in bacterial wilt resistant tomato (*Lycopersicon esculentum* Mill.) for processing qualities and yield
HV Sathyararayana, N Anand
Vegetable Science 19(2), 192-200
- 582 Full diallel analysis of yield and its contributing characters in round fruited brinjal under alfisols
DP Singh, V Prasad
Vegetable Science 19(2), 201-205
- 583 Differential response of bell pepper and chilli to high temperature stress
N Anand, AA Deshpande, PR Ramachander
Vegetable Science 19(2), 206-211
- 584 Effect of nitrogen, phosphorus and maleic hydrazide on the chemical composition of onion bulbs
BK Singh, CBS Rajput
Vegetable Science 19(2), 212-216
- 585 Seed setting under different system of pollination in radish
AK Singh, VK Chamotre
Vegetable Science 19(2), 217-220
- 586 Evaluation of some important varieties of onion for the quality parameters and storage life
KL Bajaj, ML Chadha, AS Sidhu
Vegetable Science 19(2), 221-225
- 587 Identification of stable resistance to root rot and wilt disease of pea (*Pisum sativum* L.)
PC Arora, PC Gupta
Vegetable Science 19(2), 226-229
- 588 Stability of Ogura cytoplasmic male sterility in three Indian radish cultivars
YS Sodhi, AK Pradhan, A Mukhopadhyay, D Pentel
Vegetable Science 19(2), 230-231
- 589 Screening garden peas (*Pisum sativum* var. *hortense* L.) nodulation and nitrogen fixation
AB Pal, N Mohan, TS Aghora, D Ram, S Mohandas
Vegetable Science 19(2), 232-234
- 590 Callus induction from various seed tissues of French bean (*Phaseolus vulgaris* L.)
VA Parthasarathy
Vegetable Science 19(2), 235-236

Vegetable Science 20(1), 1993

- 591 Improvement of vegetable crops in India
K Singh
Vegetable Science 20(1), 1-13
- 592 Growth and yield of onion (*Allium cepa* L.) bulb as influenced by date of transplanting, nitrogen and potash fertilization
JP Singh, MK Singh, RD Singh
Vegetable Science 20(1), 14-17
- 593 Response of Rabi onion (*Allium cepa* L.) to nitrogen and potassium application on growth and yield
J Singh, RK Singh, T Singh, SB Singh
Vegetable Science 20(1), 18-21

- 594 Effect of type of cutting, node number and levels and NPK mixture on weight loss in stored spine gourd (*Momordica dioica* Roxb.) tubers
P Tripathy, T Maharana, A Nandi, DN Singh
Vegetable Science 20(1), 22-25
- 595 Effect of phosphorus and boron on cauliflower
GV Malewar, BS Indulkar Ind. Soc.
Vegetable Science 20(1), 26-30
- 596 Effect of sulphur nutrition on the yield of potato in Eastern Uttar Pradesh
MV Singh, VB Dwivedi
Vegetable Science 20(1), 31-34
- 597 Effect of root stecklings on seed yield and related characters in turnip (*Brassica rapa* L.)
TS Verma, PC Thakur, A Singh
Vegetable Science 20(1), 35-37
- 598 Effect of head weight on seed yield in Cabbage (*Brassica oleracea* var. *capitata* L.)
NK Pathania, CP Negi
Vegetable Science 20(1), 38-39
- 599 Effect of nitrogen level and growth regulators on growth, yield and quality of chilli (*Capsicum annum* L.) var. Pant C-1
S Latha, RP Singh
Vegetable Science 20(1), 40-43
- 600 Evaluation of some tomato genotypes for variability and bacterial wilt resistance
GC Bora, A Shadeque, LC Bora, AK Phookan
Vegetable Science 20(1), 44-47
- 601 Genetics of quantitative traits in radish (*Raphanus sativus* L.)
KS Chandel, AK Singh, RS Rattan
Vegetable Science 20(1), 48-51
- 602 Gene effects studies of growth characters in cauliflower
KS Baswana, KB Rastogi, PP Sharma
Vegetable Science 20(1), 52-55
- 603 Inheritance studies in cauliflower (*Brassica oleracea* var. *botrytis* L.)
KS Baswana, KB Rastogi, PP Sharma
Vegetable Science 20(1), 56-59
- 604 Detection of additive, dominance and epistatic variation in quantitative traits of carrot (*Daucus carota* L.)
KS Chandel, AK Singh, RS Rattan
Vegetable Science 20(1), 60-63
- 605 Inheritance of fusarium wilt resistance in tomato
SK Malhotra, G Kalloo, RN Vashistha
Vegetable Science 20(1), 64-66
- 606 Sources and genetics of resistance to leaf miner (*Phytomyza horticola* Meigen) in *Pisum sativum*
G Kalloo, AS Tewatia, MK Banerjee
Vegetable Science 20(1), 67-71
- 607 Heterosis and combining ability studies in turnip (*Brassica rapa* L.)
N Ahmed, MI Tanki, SH Khan
Vegetable Science 20(1), 72-76
- 608 Gibberellic acid and maleic hydrazide gametocides for common onion
ML Bhardwaj, RS Rattan
Vegetable Science 20(1), 82-86

- 609 Relation of sweet potato cultivation practices to incidence of weevil (*Cylas formicarius*) and yield in Orissa
PS Bhat, PP Kumar, SP Verma
Vegetable Science 20(1), 87-92

Vegetable Science 20(2), 1993

- 610 Export of vegetables-status and strategies
K Singh, UB Pandey
Vegetable Science 20(2), 93-103
- 611 Standardization of sowing and planting times for the maximization of vegetable and bulb production in onion cv. Brown Spanish
TS Verma, R Chandra, KD Lakhanpal
Vegetable Science 20(2), 104-108
- 612 Effect of fertilizer treatment and size of seedlings on seedling establishment under field conditions in relation to seedling tuber production
VK Batra, YS Malik, ML Pandita
Vegetable Science 20(2), 109-113
- 613 Effect of various levels of nitrogen, phosphorus and potassium on growth, yield and quality of pointed gourd
JP Yadav, RS Mishra, HR Mishra
Vegetable Science 20(2), 114-117
- 614 Effect of sulphur on growth and yield of onion (*Allium cepa* L.) cv. Pusa Red
S Kar, RS Tiwari
Vegetable Science 20(2), 118-120
- 615 Response of cauliflower (*Brassica oleracea* var. *botrytis* L.) cultivars to different dates of planting
A Yadav, PP Sharma, BN Singh
Vegetable Science 20(2), 121-126
- 616 Effect of grading on subsequent seed yield and other economic characters in peas (*Pisum sativum* L.)
PC Thakur, TS Verma, HC Verma
Vegetable Science 20, 127-131
- 617 Interspecific hybridization in the genus *Capsicum*
TP Kumar, TR Gopalakrishnan, KV Peter
Vegetable Science 20(2), 132-141
- 618 Expression of gynoeicisim in cucumber under tropical genetic background
PV Kumari, TA More, VS Seshadri
Vegetable Science 20(2), 142-146
- 619 Studies on heterosis in bitter gourd (*Momordica charantia* L.)
AD Munshi, PS Sirohi
Vegetable Science 20(2), 147-151
- 620 Heterosis in tropical and temperate gynoeicious hybrids in cucumber
P Vijayakumari, TA More, VS Shesadri
Vegetable Science 20(2), 152-157
- 621 Gene effects of certain quantitative characters in pumpkin
PS Sirohi, S Ghorui
Vegetable Science 20(2), 158-162
- 622 Screening of okra genotypes for resistance against root-knot nematodes, *Meloidogyne incognita*
AC Verma, NC Gautam, SP Pathak, A Anwar
Vegetable Science 20(2), 163-165

- 623 Stability analysis of garlic varieties
KA Balakrishanan, BS Tomar, R Verma
Vegetable Science 20(2), 166-168
- 624 Crossability among three *capsicum* species, *C. annum*, *C. chinense* and *C. chacoense C Mini*,
KV Peter
Vegetable Science 20(2), 169-172
- 625 Inheritance of some quantitative characters in bottlegourd
PS Sirohi, S Ghorui
Vegetable Science 20(2), 173-176
- 626 Efficacy of rubigan against powdery mildew in peas
A Tiwari, VG Narsinghani
Vegetable Science 20(2), 177-180
- 627 Relative performance of different fungicides for the economic control of purple blotch of onion in Bihar
PP Sinha, VK Singh
Vegetable Science 20 (2), 181-184
- 628 Screening for resistance to mosaic diseases in pumpkin (*Cucurbita moschata* Poir)
V Sureshababu, TR Gopalakrishnan, KV Peter
Vegetable Science 20(2), 185-187
- 629 Inheritance of fruit colour and surface in okra (*Abelmoschus esculentus* L.)
J Shoran, Shridhar
Vegetable Science 20(2), 188-190

Vegetable Science 21(1), 1994

- 630 Effect of spacing and various levels of nitrogen on seed crops of kharif onion
S Singh, AP Singh, SB Sinha
Vegetable Science 21(1), 1-6
- 631 Effect of NPK fertilizers and spacing on growth and yield of French bean
DN Singh, P Tripathi
Vegetable Science 21(1), 7-11
- 632 Influence of plant spacings and nitrogen levels on growth, yield attributes and seed yield of okra [*Abelmoschus esculentus* (L.) Moench] during spring season
BR Pandey, RK Sharma, RS Sharma
Vegetable Science 21(1), 12-15
- 633 Effect of dates of planting and nitrogen fertilization on growth and seed yield of cauliflower (*Brassica oleracea* var. *botrytis* L.) cv. Pusa Snowball-1
DK Sharma, PP Sharma, SS Bhardwaj
Vegetable Science 21(1), 16-19
- 634 Weed management in kharif tomato in low hill/valley region of UP hills
B Ram, VP Singh, JP Singh
Vegetable Science 21(1), 20-22
- 635 Propagation studies in spine gourd (*Momordica dioica* Roxb.)
P Tripathy, T Maharana, A Nandi, DN Singh
Vegetable Science 21, 23-25
- 636 Weed control studies in tomato
B Singh
Vegetable Science 21(1), 26-28
- 637 Effect of sex type and IBA on rooting of pointed gourd (*Trichosanthes dioica* Roxb.) stem cuttings
P Tripathy, T Maharana, DN Singh, A Nandi
Vegetable Science 21(1), 29-31

- 638 Effect of nitrogen and spacing on yield and economics of seed production in mid season cauliflower
B Singh, K Singh
Vegetable Science 21(1), 32-35
- 639 Qualitative and vigour of radish seed as influenced by transplanting dates of stecklings and nitrogen fertilization
SK Sharma, SP Kanaujia
Vegetable Science 21(1), 36-39
- 640 Effect of pollination techniques and pollination interval on hybrid seed yield of brinjal
SB Pathare, KE Lawande, VR Joshi
Vegetable Science 21(1), 40-44
- 641 Effect of debudding and defruiting on the seed yield of sweet pepper var. California Wonder TS Verma, S Joshi, R Chand, KD Lakhanpal
Vegetable Science 21(1), 45-49
- 642 Studies on seed quality, seed yield and monetary returns of spring okra
BR Pande
Vegetable Science 21(1), 50-52
- 643 Studies on varietal influence on storage behaviour of tomato
RG Khandekar, GD Joshi, MJ Salvi, BB Sapkal
Vegetable Science 21(1), 53-58
- 644 A comparative study on processing of different tomato (*Lycopersicon esculentum* Mill.) varieties in the Konkan region
RG Khandekar, GD Joshi, MJ Salvi, BB Sapkal
Vegetable Science 21(1), 59-64
- 645 Studies of heterosis and inbreeding depression in early indian cauliflower
J Singh, JP Singh, RD Singh
Vegetable Science 21(1), 65-67
- 646 Heterosis and correlation studies in bitter gourd
AS Khattra, NJ Singh, JC Thakur
Vegetable Science 21(1), 68-71
- 647 Genetic studies in chilli (*C. annuum* L.) for early and total yield
SS Bal and J Singh
Vegetable Science 21(1), 72-76
- 648 Inheritance studies on resistance to *Phytophthora infestans* (Mont.) debarry in tomato
HP Singh, S Singh
Vegetable Science 21(1), 77-80
- 649 Evaluation of antibiotics, fungicides and soil amendments on the control of bacterial wilt of chillies
AR Joshi, K Abraham
Vegetable Science 21(1), 81-84
- 650 Influence of genotypic and environmental on the fruit fly infection in bitter gourd
JC THAKUR, AS KHATTRA, KS BRAR
Vegetable Science 21(1), 85-88
- 651 Distribution patterns and sequential sampling of *Helicoverpa armigera* Hubner in tomato
PR Sekhar, NV Rao, M Venkataiah
Vegetable Science 21(1), 89-92

Vegetable Science 21(2), 1994

- 652 Effect of mulching and clove size on growth and yield of garlic (*Allium sativum* L.)
BC Deka, A Shadeque
Vegetable Science 21(2), 93-96

- 653 Effect of different levels of exchangeable sodium on growth and yield of onion
SS Yadav, N Singh, BR Yadav
Vegetable Science 21(2), 97-100
- 654 Influence of exchangeable sodium on the quality and mineral composition of onion
SS Yadav, N Singh, BR Yadav
Vegetable Science 21(2), 101-105
- 655 Effect of paclobutrazol (pp333) on fruit set and fruit ripening of tomato
GKS Baruah, SK Arora, ML Pandita
Vegetable Science 21(2), 106-110
- 656 Quality and seed yield of tomato as influenced by foliar fertilization
SK Sharma
Vegetable Science 21(2), 111-113
- 657 Technique to raise tomato nursery under low temperature stress
R Agarwal, BK Srivastava, MP Singh
Vegetable Science 21(2), 114-117
- 658 Performance of asparagus cultivars in Himachal Pradesh
DK Sharma, PP Sharma
Vegetable Science 21(2), 118-121
- 659 Effect of sowing dates and nitrogen fertilization on seed crop of okra
YC Dwivedi, SK Sengupta, RS Sharma
Vegetable Science 21(2), 121-125
- 660 Fusarium wilt resistance in muskmelon
RS Pan, TA More, B Sen
Vegetable Science 21(2), 126-128
- 661 Breeding of Pusa Hybrid-2 cauliflower
R Singh, HS Gill, SR Sharma
Vegetable Science 21(2), 129-131
- 662 Combining ability estimates in bitter gourd (*Momordica charantia* L.)
AD Munshi, PS Sirohi
Vegetable Science 21(2), 132-136
- 663 Stability of yield and its components in bitter gourd (*Momordica charantia* L.)
JC Rajput, SL Patil, BM Jamadagni, VH Patil
Vegetable Science 21(2), 137-139
- 664 Genetics of blotchy ripening resistance in tomato
N Rai, AK Joshi
Vegetable Science 21(2), 140-144
- 665 Genetic architecture of yield and its components in pumpkin
PS Sirohi
Vegetable Science 21(2), 145-147
- 666 Genetics of fruit habit and clusterness in chilli (*Capsicum annum* L.)
N Ahmed, MI Tanki, MY Bhat
Vegetable Science 21(2), 148-150
- 667 Genetics of red and purple fruit colour in chilli (*Capsicum annum* L.)
N Ahmed, MY Bhat, MI Tanki
Vegetable Science 21(2), 151-153
- 668 Genetic studies for earliness in tomato
N Rai, AK Joshi
Vegetable Science 21(2), 154-157

- 669 Studies on combining ability in bitter gourd
AS Khattra, NJ Singh, JC Thakur
Vegetable Science 21(2), 158-162
- 670 Heterosis in pumpkin (*Cucurbita moschata* Duch. Ex. Poir.)
PS Sirohi
Vegetable Science 21(2), 163-165
- 671 Natural out crossing in chilli
SN Singh, JP Shrivastava, S Ram
Vegetable Science 21(2), 166-168

Vegetable Science 22(1), 1995

- 672 Influence of integrated nutrient management on growth, yield and economics in okra (*Abelmoschus esculentus* (L.) Moench)
NK Sharma, PJ Bhalla
Vegetable Science 22(1), 1-4
- 673 Response of zinc and boron fertilization on yield and quality of tomato fruits at different stages of picking
SK Verma, SS Singh, CP Awasthi
Vegetable Science 22(1), 5-8
- 674 Effect of fertilizer levels and spacing on growth and green pod yield of Dolichos bean var
VS Patil, PB Kale, RV Wankhade, MB Nagdeve Konkan Bhusan
Vegetable Science 22(1), 9-12
- 675 Effect of inter and intra row spacing and levels of nitrogen and phosphorus on yield of radish
YC Dwivedi, AK Naidu, SK Sengupta, RS Sharma
Vegetable Science 22(1), 13-15
- 676 Studies on the determination of doses and method of nitrogen application on chillies (*Capsicum annum* L.)
BR Sharma, APS Chadha, AK Naidu, AC Verma
Vegetable Science 22(1), 16-18
- 677 Response of nitrogen and phosphorus on plant growth and fruit yield of hybrid sweet pepper cultivar Pusa Deepti
SK Sharma
Vegetable Science 22(1), 19-21
- 678 Comparative study of different genotypes and irrigation levels on growth, yield and storage losses in onion (*Allium cepa* L.)
DK Sharma, DR Chaudhary, PP Sharma
Vegetable Science 22(1), 22-26
- 679 Response of boron and calcium nutrition on plant growth, fruit and seed yield of tomato
SK Sharma
Vegetable Science 22(1), 27-29
- 680 Comparative study of seed to seed and bulb to seed production methods in onion cv. Brown Spanish
TS Verma, A Singh, KD Lakhanpal
Vegetable Science 22(1), 30-32
- 681 Quality and seed yield of tomato as influenced by different transplanting dates
SK Sharma, MC Thakur
Vegetable Science 22(1), 33-35
- 682 Effect of phosphorus and potassium fertilization on seed yield of French bean (*Phaseolus vulgaris* L.)
YC Dwivedi, RS Sharma, SK Sengupta
Vegetable Science 22(1), 36-38

- 683 Seed production of raddish as influenced by the application of growth regulators
SK Sharma
Vegetable Science 22(1), 39-41
- 684 Assay of self-incompatibility in Indian cauliflower (*Brassica oleracea* var. *botrytis* L.) with special reference to maturity group I & II
KK Gangopadhyay, HS Gill, TA More
Vegetable Science 22(1), 42-47
- 685 Breeding garden pea against stress conditions for north western hills
Shridhar, VP Mani
Vegetable Science 22(1), 48-51
- 686 A comparison of matings for estimating seed setting in sweet potato
SK Naskar, PK Ghosh
Vegetable Science 22(1), 52-54
- 687 Influence of temperature on storability of pumpkin (*Cucurbita moschata* Poir) seeds
SD Doijode
Vegetable Science 22(1), 55-58
- 688 Effect of row spacing on leaf chlorophyll content and sulphur percent in bulb of onion (*Allium cepa* L.) varieties
RK Srivastava, SK Dwivedi, SK Srivastava, BK Verma
Vegetable Science 22(1), 59-61
- 689 The performance of garden pea varieties with dual resistance against powdery mildew and fusarium wilt
VG Narsinghani, A Tiwari
Vegetable Science 22(1), 62-67
- 690 A study on yield losses due to leaf spot and foliage blight of tomato
K Mathur, GC Bhatnagar
Vegetable Science 22(1), 68-70
- 691 Life tables for pod borer, *Helicoverpa armigera* Hubner on the commonly cultivated vegetables under Krishna Godavari zone of Andhra Pradesh
PR Sekhar, NV Rao, M Venkataiah
Vegetable Science 22(1), 71-73
- 692 Studies on chemical control of thrips in onion
BS Bhardwaj, PK Srivastava, RP Gupta
Vegetable Science 22(1), 74-76

Vegetable Science 22(2), 1995

- 693 Nutrient uptake and yield of fenugreek (*Trigonella foenum-graecum* L.) as affected by nitrogen, phosphorus and cutting management
R Baboo, R Sharma
Vegetable Science 22(2), 77-80
- 694 Quality and seed yield of capsicum as influenced by different transplanting dates
SK Sharma, SN Peshin
Vegetable Science 22(2), 81-83
- 695 Weed control in okra
VR Sagar
Vegetable Science 22(2), 84-86
- 696 Yield and yield components of red pumpkin as influenced by different levels of irrigation and straw mulch
AK Ghorai
Vegetable Science 22(2), 87-89

- 697 Weed management studies in Kharif brinjal
M Raghav
Vegetable Science 22(2), 90-91
- 698 Study on ideal picking date of pods in cowpea
N Kar, T Dasgupta, P Hazra, MG Som
Vegetable Science 22(2), 92-94
- 699 Effect of straw mulch and different levels of irrigation on the yield and yield components of pointed gourd (*Trichosanthes dioica* L.)
AK Ghorai
Vegetable Science 22(2), 95-97
- 700 Gene action in okra (*Abelmoschus esculentus* (L.) Moench)
N Singh, SK Arora, TS Dhillon
Vegetable Science 22(2), 98-100
- 701 Studies on combining ability in bottle gourd
KP Singh, DN Choudhary, VK Singh, G Mangal
Vegetable Science 22, 101-104
- 702 Hybrid vigour in bell shaped paprika (*Capsicum annuum* L.)
S Joshi, PC Thakur, TA Verma
Vegetable Science 22(2), 105-108
- 703 Stability analysis of powdery mildew resistant lines for pod yield in garden pea (*Pisum sativum* Linn.)
H Dev, KB Rastogi
Vegetable Science 22(2), 109-111
- 704 Genetic analysis of resistance to buckeye fruit rot (*Phytophthora nicotianae* var. *parasitica*) in tomato
UK Kohli, H Dev, MS Fageria
Vegetable Science 22(2), 112-115
- 705 Resistance to yellow vein mosaic virus of bhendi in Kerala
L Rajmony, JPC Kutty, N Mohankumaran
Vegetable Science 22(2), 116-119
- 706 Storage behaviour of onion cultivars in Rangda (Late rainy) season
SD Warade, SB Desale, KG Shinde
Vegetable Science 22(2), 120-121
- 707 Effect of different recommended practices of storability of onion bulbs cultivars N-2-4-1 under modified storage structure with bottom ventilation
SD Warade, SB Desale, KG Shinde
Vegetable Science 22(2), 122-125
- 708 Control of fruit rot in off-season crop of capsicum (sweet pepper) in Kumaon hills through safer and less hazardous chemicals
AK Sharma
Vegetable Science 22(2), 126-127
- 709 Survey of post harvest decay of vegetable caused by *fusarium* and *macrophomina*
K Mathur
Vegetable Science 22(2), 128-129
- 710 Shelf life canned sag of some new brassica varieties
P Aggrwal, SPS Saini, GS Bains, ML Gupta
Vegetable Science 22(2), 120-34
- 711 TH-2312- A new root knot nematode resistant tomato hybrid
KS Nandpuri, S Singh, R Mahajan, DS Cheema, AS Sidhu
Vegetable Science 22(2), 135-137

- 712 Economical spray schedule of carbendazim for the control of sclerotinia rot of pea in the North-West hills
AK Sharma
Vegetable Science 22(2), 138-139

Vegetable Science 23(1), 1996

- 713 Determination of nitrogen doses on chilli (*Capsicum annum L.*)
BR Sharma, APS Chadha, AK Naidu, AC Verma
Vegetable Science 23(1), 1-4
- 714 Variation in physiological parameters of bulb productivity in onion (*Allium cepa L.*) varieties as influenced by spacing
RK Shrivastava, SK Dwivedi, BK Verma, SK Shrivastava
Vegetable Science 23(1), 5-8
- 715 Effect of spacing and fertility levels on the growth, yield and economics of tomato hybrids
OP Pandey, BK Srivastava, MP Singh
Vegetable Science 23(1), 9-15
- 716 Quality and pod yield of broad bean (*Vicia faba L.*) as influenced by nitrogen (with and without inoculation) and phosphorus application
R Baboo, S Kumar
Vegetable Science 23(1), 16-20
- 717 P uptake, seed germination and vigour as affected by GA₃, phosphorus and picking in seed crop of okra
KL Bhat, AK Singh
Vegetable Science 23(1), 21-25
- 718 Response of onion varieties to plant spacing in relation to yield attributes and bulb productivity
RK Shrivastava, BK Verma, SK Dwivedi, YC Dwivedi
Vegetable Science 23(1), 26-29
- 719 Studies on weed control in onion
B Singh
Vegetable Science 23(1), 30-35
- 720 Effect of packaging and fruit storage on seed viability, vigour and longevity in chilli (*Capsicum annum L.*)
SD Doijode
Vegetable Science 23(1), 36-41
- 721 Biochemical evaluation of some tomato varieties
S Sharma, R Mahajan, KL Bajaj
Vegetable Science 23(1), 42-47
- 722 Chemical composition of some important varieties of onion
S Sucheta, SS Bal, KL Bajaj
Vegetable Science 23(1), 48-51
- 723 Inheritance of yield components in okra (*Abelmoschus esculentus L.*)
N Pullaiah, TB Reddy, M Resdisexhar, BM Reddy
Vegetable Science 23(1), 52-56
- 724 Selection of parents for vegetable cowpea breeding by multivariate analysis
P Hazra, MG Som, PK Das
Vegetable Science 23(1), 57-63
- 725 Genetics of fruit juice in tomato (*Lycopersicon esculentum Mill.*)
N Rai, MM Syamal, AK Joshi
Vegetable Science 23(1), 64-68
- 726 Genetic analysis of pod yield and its three important components employing a diallel cross in cowpea
A Chattopadhyay, T Dasgupta, P Hazra, MS Som
Vegetable Science 23(1), 69-74

- 727 Effect of temperature and soil depths on survival of *Alternaria alternata* causing leaf blight of brinjal
KK Pandey, SN Vishwakarma
Vegetable Science 23(1), 75-79
- 728 Comparative in vitro study of different fungicides on radial growth inhibition and spore inhibition of *Alternaria alternata* causing leaf blight of brinjal
KK Pandey, SN Vishwakarma
Vegetable Science 23(1), 80-84
- 729 Biometrical study of fruit borer (*Halicoverpa armigera* Hubner) on some tomato genotypes
PC Rath, P Nath
Vegetable Science 23(1), 85-89
- 730 Efficacy of neem based insecticides on jassid and fruit borer in okra
S Rai, S Satpathy
Vegetable Science 23(1), 90-94
- 731 Stability for economic traits and melon fly (*Daucus cucurbitae*) infestation in bitter gourd
JC Thakur, AS Khattria
Vegetable Science 23(1), 95-99
- 732 A note on sowing time of pea (*Pisum sativum* L.) under dry temperate conditions of Kinnaur, Himachal Pradesh (India)
BL Koul, HS Kanwar, CP Negi
Vegetable Science 23(1), 100-102
- 733 A note on nursery application of Vesicular Arbuscular Mycorrhiza on growth and yield of chilli (*Capsicum annuum* L.)
M Sukhada, S Balaji
Vegetable Science 23(1), 103-105
- 734 A note on inheritance of leaf colour in cauliflower
RD Singh, RK Shrivastava, JP Singh
Vegetable Science 23(1), 106-107
- 735 A note on components of genetic variation in bottle gourd for fruit diameter and length
ML Kushwaha, H Ram
Vegetable Science 23(1), 108-110
- 736 A note on management of leaf blight disease of onion
PK Shrivastava, RP Gupta, BK Tiwari, RC Sharma
Vegetable Science 23(1), 111-113

Vegetable Science 23(2), 1996

- 737 The history and adaptation of some introduced vegetable crops in India
VS Seshadri, SS Chatterjee
Vegetable Science 23(2), 114-140
- 738 Time of sowing and plant density on growth and curd yield in early cauliflower (*Brassica oleracea* L. var. *botrytis*) cv. Early Kunwari
DK Sharma, DR Chaudhary
Vegetable Science 23(2), 141-144
- 739 Fructan metabolism in dissected scales of red and white onion (*Allium cepa* L.)
DR Sood, B Tanwar, PS Pratap
Vegetable Science 23(2), 145-151
- 740 Combining ability analysis for flowering and fruit set in eggplant (*Solanum melongena* L.)
BS Tomar, TS Kalda, KA Balakrishnan, SS Gupta
Vegetable Science 23(2), 152-155

- 741 Combining ability and gene action studies for number of locule in tomato (*Lycopersicon esculentum* Mill.)
N Rai, MM Syamal, AK Joshi
Vegetable Science 23(2), 156-161
- 742 Vr, Wr graphical analysis in bottle gourd
ML Kushwaha, HH Ram
Vegetable Science 23(2), 162-165
- 743 Combining ability studies in indian cauliflower (*Brassica oleracea* var. *botrytis* L.) group- iii
V Mahajan, HS Gill, SR Sharma, R Singh
Vegetable Science 23(2), 166-170
- 744 Symptomatology, Epidemiology and Chemical control of collar rot of elephant-foot yam
KK Pandey, PK Pandey
Vegetable Science 23(2), 171-175
- 745 Management of mosaic diseases of cowpea
PK Pandey, KK Pandey
Vegetable Science 23(2), 176-179
- 746 Heterosis in bitter melon (*Momordica charantia* L.)
VA Celine, PS Sirohi
Vegetable Science 23(2), 180-185
- 747 Predictive model for downy mildew of muskmelon
PP Singh, OP Jhorar, R Singh, SS Sokhi
Vegetable Science 23(2), 186-194
- 748 Mustard as a trap crop for management of Diamond back moth, *Plutella xylostella* L. in Cabbage
S Rai, S Satpathy
Vegetable Science 23(2), 195-199
- 749 Efficacy of few insecticidal schedules against shoot and fruit borer of brinjal
MK Tripathi, B Senapati, S Satpathy, LK Mishra
Vegetable Science 23(2), 200-203
- 750 Quality and seed yield of cabbage as influenced by different planting methods under high hills arid conditions
SK Malhotra
Vegetable Science 23(2), 204-206
- 751 A note on levels of zinc and iron on growth and yield of potato cv. "Kufri badshah"
KL Bhat, KC Jandial
Vegetable Science 23(2), 207-209
- 752 Evaluation of tuber characteristics in sweet potato (*Ipomea batatas* Lam.)
SK Naskar, PK Ghoshi
Vegetable Science 23(2), 210-211
- 753 A note on integrated management of onion diseases in storage
PK Srivastava, RP Gupta, RC Sharma
Vegetable Science 23(2), 212-214
- 754 Note on chemical control of onion thrips
BS Bhardwaj, PK Srivastava, RP Gupta
Vegetable Science 23(2), 215-217

Vegetable Science 24(1), 1997

- 755 Effect of biofertilizers on vegetable and seed yield of cabbage
TS Verma, PC Thakur, S Ajeet
Vegetable Science 24(1), 1-3

- 756 Effect of different levels of phosphorus, gibberellic acid and picking on seed production of okra (*Abelmoschus esculentus* (L.) Moench)
KL Bhat, AK Singh
Vegetable Science 24(1), 4-6
- 757 Weed management in garlic under Punjab conditions
KS Sandhu, DT Singh, JW Singh
Vegetable Science 24(1), 7-9
- 758 Enhancing nitrogen use efficiency in okra with nitrification inhibitions
S Bindu, R Kurup, P Kumari, RI Sheeba
Vegetable Science 24(1), 10-12
- 759 Effect of mulch material on growth and yield of ginger (*Zingiber officinale* Rosc.)
CR Gupta, OP Awasthi
Vegetable Science 24(1), 13-15
- 760 Effect of Azospirillum and Azotobacter on growth, yield and quality of knolkhol
MA Chato, MY Gandro, MY Zargar
Vegetable Science 24(1), 16-19
- 761 Response of different levels of irrigation on onion bulb yield under low hills subtropical condition of Himachal Pradesh
HP RS Rana, AK Singh
Vegetable Science 24(1), 20-22
- 762 Breeding Pusa Early Synthetic Cauliflower
R Singh, HS Gill, SS Chatterjee
Vegetable Science 24(1), 23-25
- 763 Heterosis and combining ability studies in early group of Indian cauliflower involving self-incompatible lines
KK Gangopadhyay, HS Gill, SR Sharma
Vegetable Science 24(1), 26-28
- 764 Screening of multiplier onion ecotypes (*Allium cepa* var. *aggregatum* L.) for their tolerance to salt stress
AD Ashok, P Rengasamy
Vegetable Science 24(1), 29-33
- 765 Line x tester analysis for processing characters in tomato
TP Kumar, RN Tewari, DC Pachauri
Vegetable Science 24(1), 34-38
- 766 Genetics of number of seeds in tomato (*Lycopersicon esculentum* Miller)
N Rai, MM Shyamal, AK Joshi
Vegetable Science 24(1), 39-42
- 767 Stability for fruit yield in brinjal
BP Srivastava, KP Singh, JP Srivastava
Vegetable Science 24(1), 43-44
- 768 Inheritance of quantitative characters in Bitter melon (*Momordica charantia* L.)
D Ram, G Kalloo, M Singh
Vegetable Science 24(1), 45-48
- 769 Soil solarization using different colour plastic mulches for the control of collar rot of tomato caused by *Sclerotium rolfsii*
RKS Tiwari, S Vinay, SS Parihar
Vegetable Science 24(1), 49-51
- 770 Okra enation leaf curl disease-a threat to cultivation of okra (*Abelmoschus esculentus* (L.) Moench)
S Chakraborty, PK Pandey, B Singh
Vegetable Science 24(1), 52-54

- 771 In vitro" screening of tomato genotypes against *Alternaria solani*: A new technique
MK Banerjee, ML Chhabra, SK Gandhi, AP Garg, G Kalloo
Vegetable Science 24(1), 55-57
- 772 Screening of French bean genotypes against leaf miner, *Phytomyza horticola* Meigem
S Rai, D Ram
Vegetable Science 24(1), 58-60
- 773 Biology and bionomics of cutworm, *spodoptera exigua* (Hubner) (Noctuidae: Lepidoptera) on chillies
MK Ahmad, G Mohammed, M Venkataiah, NHP Rao
Vegetable Science 24(1), 61-63
- 774 Studies on sun drying of carrots
VR Sagar, SB Maini, R Kumar, N Pal
Vegetable science 24(1), 64-66
- 775 Effect of packaging and temeperatures on seed longevity in okra
HT Doizode
Vegetable Science 24(1), 67-69
- 776 Effect of storage temperature and packaging on longevity of tomato seeds
SD Doijode
Vegetable Science 24(1), 70-72
- 777 Evaluation of different structures for storage of onions
SB Maini, VR Sagar, SS Chandan, R Kumar
Vegetable Science 24(1), 73-74
- 778 A note on yield and quality of cauliflower var. Best Early as affected by different dates of planting
DB Singh, MA Suryanarayana, K Swaroop
Vegetable Science 24(1), 75
- 779 *Alternaria* blight – A serious menace to pea cultivation
K Mathur
Vegetable Science 24(1), 76-78

Vegetable Science 24(2), 1997

- 780 Melon fruit fly resistance in cucurbits-A Review
AS Tewatia
Vegetable Science 24(2), 79-82
- 781 Influence of plastic coverings on the micro-climate under low plastic tunnels
R Kumar, BK Srivastava
Vegetable Science 24(2), 83-86
- 782 Effect of storage temperature and packaging on seed quality in long melon (*Cucumis melo* var. *utilissimus*)
SD Doijode
Vegetable Science 24(2), 87-90
- 783 Effect of phosphorus, potassium and *Rhizobium* inoculation on growth, yield and quality of pea cv. Lincoln
SP Kanaujia, KB Rastogi, SK Sharma
Vegetable Science 24(2), 91-94
- 784 Combining ability studies in okra (*Abelmoschus esculentus* (L.) Moench)
N Ahmed, MA Hakim, GH Zargar
Vegetable Science 24(2), 95-98
- 785 Heterosis in bitter gourd (*Momordica charantia* L.)
D Ram, G Kalloo, M Singh
Vegetable Science 24(2), 99-102

- 786 Studies on heterosis in muskmelon (*Cucumis melo* L.)
AD Munshi, VK Verma
Vegetable Science 24(2), 103-106
- 787 Hybrid vigour of quantitative traits in chilli (*Capsicum annum* L.)
JA Patel, MR Shukla, KM Doshi, SB Patel, SA Patel
Vegetable Science 24(2), 107-110
- 788 Genetic variability and selection indices in melon (*Cucumis melo* L.)
T Lal, S Singh
Vegetable Science 24(2), 111-117
- 789 Genetics of yield attributes in chilli (*Capsicum annum* L.)
HMK Murthy, AA Deshpande
Vegetable Science 24(2), 118-122
- 790 Combining ability studies for certain metric traits in bottle gourd (*Lagenaria siceraria* (Molina) Standl.)
S Kumar, SP Singh
Vegetable Science 24(2), 123-126
- 791 Studies on genetics of powdery mildew (*Leveillula taurica* (Lev.) Arn.) resistance in chilli (*Capsicum annum* L.)
HMK Murthy, AA Deshpande
Vegetable Science 24(2), 127-131
- 792 Seed protein profiles in French bean (*Phaseolus Vulgaris*) genotypes as marker traits
S Dhar, H Hari
Vegetable Science 24(2), 132-135
- 793 Investigation on the level of contamination of insecticide residues in ready to market vegetables in Tamil Nadu
S Chandrasekaran, S Kuttalam, A Regupathy
Vegetable Science 24(2), 136-139
- 794 Selection of potential biocontrol agents based on production of volatile and non volatile antibiotics
KK Pandey, JP Upadhyay
Vegetable Science 24(2), 140-143
- 795 Selection of potential biocontrol agents based on production of volatile and non volatile antibiotics
KK Pandey, JP Upadhyay
Vegetable Science 24(2), 144-146
- 796 Occurrence of Watermelon mosaic virus—1 on bottle gourd (*Lagenaria siceraria*) in Varanasi region
S Chakraborty, A Sinha, PK Pandey
Vegetable Science 24(2), 147-149
- 797 Assessment of losses in seed yield of French bean due to angular leaf spot disease and its management in the Uttarakhand region of U.P.
AK Sharma, KKS Bisht
Vegetable Science 24(2), 150-152
- 798 Screening of some tomato genotypes for susceptibility to the fruit borer *Helicoverpa armigera* Hübner at Varanasi
PC Rath, P Nath
Vegetable Science 24(2), 153-156
- 799 A note on weed management in onion
V Singh, J Singh, RK Bisen, HP Agrawal, V Singh
Vegetable Science 24(2), 157-158
- 800 A note on chemical evaluation of some varieties of onion (*Allium cepa* L.)
S Sharma, AS Sidhu, KL Bajaj
Vegetable Science 24(2), 159-161

- 801 A note on weed control studies in brinjal
V Singh, RK Bisen, HP Agrawal
Vegetable Science 24(2), 162-163
- 802 A note on effect of plant population density on growth and yield of brinjal hybrids
H Singh, MS Saimbhi, SS Bal
Vegetable Science 24(2), 164-166
- 803 A note on effect of Paclobutrazol and IBA on stem cutting of pumpkin
DH Singh
Vegetable Science 24(2), 167-168
- 804 A note on effect of phosphorus and potassium fertilization on radish seed crop
SK Sharma
Vegetable Science 24(2), 169

Vegetable Science 25(1), 1998

- 805 Effect of sowing dates and varieties on growth and yield of early cauliflower
BP Gautam, A Shadeque, L Saikia
Vegetable Science 25(1), 1-4
- 806 Seed yield in powdery mildew resistance F1 parental lines of sweet pepper (*Capsicum annuum* L.)
R Mulge, N Anand
Vegetable Science 25(1), 5-7
- 807 Electrophoretic characterization of indigenous germplasm lines of muskmelon
RK Yadav, HH Ram, A Kumar
Vegetable Science 25(1), 8-10
- 808 Seed protein electrophoresis in the indigenous cultivars of bottle gourd (*Lagenaria siceraria* (mol.) Standl.)
R Upadhyay, H Ram, DK Singh
Vegetable Science 25(1), 11-13
- 809 Inheritance of quantitative fruit characters and vine length in bitter gourd (*Momordica charantia* L.)
VA Celine, PS Sirohi
Vegetable Science 25(1), 14-17
- 810 Genetics of yield and its components in garden pea
N Raj, KB Rastogi, BS Dogra
Vegetable Science 25(1), 18-21
- 811 Genetic analysis of biparental progenies in garden pea
P Kalia, A Sharma
Vegetable Science 25(1), 22-25
- 812 Correlation and path analysis of biparental progenies in garden pea
A Sharma, P Kaali
Vegetable Science 25(1), 26-31
- 813 Combining ability of quantitative characters in Cowpea (*Vigna unguiculata* L.)
R Kumar, SP Singh, AK Joshi
Vegetable Science 25(1), 32-35
- 814 Genetics of green pod yield in Cowpea (*Vigna unguiculata* L.)
K Raj, S SP, J AK
Vegetable Science 25(1), 36-39
- 815 Correlation and path coefficient analysis for certain metric traits in bottle gourd [*Lagenaria siceraria* (Mol.) Standl.]
S Kumar, SP Singh
Vegetable Science 25(1), 40-44

- 816 Heterosis in relation to combining ability in tomato
JP Srivastava, S Hamveer, BP Srivastava, HPS Verma
Vegetable Science 25(1), 45-47
- 817 Detection of epistasis and estimation of components of genetics variation applying modified triple test cross analysis in tomato (*Lycopersicon esculentum* Miller)
JP Singh, KP Singh, AK Singh
Vegetable Science 25(1), 48-50
- 818 Generation mean analysis for earliness and yield in bitter gourd (*Momordica charantia* L.)
VA Celine, PS Sirohi
Vegetable Science 25(1), 51-54
- 819 Heterosis studies in long fruited bottle gourd
PK Singh, JC Kumar, JR Sharma
Vegetable Science 25(1), 55-57
- 820 Manifestation of heterosis for yield and yield contributing characters in pumpkin
BK Mohanty, RS Mishra
Vegetable Science 25(1), 58-62
- 821 Induced morphological mutations in okra [*Abelmoschus esculentus* (L.) Moench] by gamma rays and EMS
AK Singh, KP Singh
Vegetable Science 25(1), 63-67
- 822 Genetic variability studies in summer squash (*Cucurbita pepo* L.)
AMK Raju, MK Rana, MS Dahiya
Vegetable Science 25(1), 68-71
- 823 Genetic divergence in brinjal (*Solanum melongena* L.)
KM Doshi, MK Bhalala, KB Kathiria
Vegetable Science 25(1), 72-74
- 824 Genetics of self incompatibility and S-allele interactions in cabbage
Vidyasagar, S Narang
Vegetable Science 25(1), 75-77
- 825 Line x tester analysis for combining ability and heterosis in bottle gourd (*Lagenaria siceraria* (Mol.) Standl.)
S Kumar, SP Singh, NK Singh
Vegetable Science 25(1), 78-80
- 826 Stability analysis in tomato
G Kallo, SNG Chaurasia, S Major, M Singh
Vegetable Science 25(1), 81-84
- 827 Epidemiology and management of rust disease of French bean
AK Sharma
Vegetable Science 25(1), 85-88
- 828 Sensitivity of different fungicides to *Fusarium udum*, *Trichoderma harzianum* and *Trichoderma viride* for integrated approach of disease management
KK Pandey, JP Upadhyay
Vegetable Science 25(1), 89-92
- 829 A note on gene action in muskmelon (*Cucumis melo* L.)
AD Munshi, VK Verma
Vegetable Science 25(1), 93-94
- 830 A note on the physico-chemical characteristics of some genotypes of garlic
RP Bhatt, VR Biswas, N Kumar
Vegetable Science 25(1), 95-96
- 831 Extent of out crossing and uses of selfing materials in chilli (*Capsicum annuum* L.)
JA Patel, MR Shukla, KM Doshi, SB Patel, BR Patel, SA Patel
Vegetable Science 25(1), 97-99

- 832 A note on age of transplants, mulches and ethrel treatments on yield and quality of ginger
M Kumar, BN Korla
Vegetable Science 25(1), 100-102

Vegetable Science 25(2), 1998

- 833 Breeding for insect and disease resistance in muskmelon. A review
MS Sandha, T Lal
Vegetable Science 25(2), 103-108
- 834 Effect of irrigation methods, staking and plants per hill on bottle gourd Birbal,
YS Malik, SC Khurana
Vegetable Science 25(2), 109-112
- 835 Study on seed viability and vigour in okra varieties under ambient storage conditions
AK Narwal, ML Pandita, YS Malik, SC Khurana
Vegetable Science 25(2), 113-118
- 836 Vesicular-arbuscular mycorrhiza (VAM) improved performance of potted onions under saline conditions with and without phosphorus nutrition
JL Mangal, V Kumar
Vegetable Science 25(2), 119-123
- 837 Effect of seed spacing in nursery on seedling vigour and field performance in chilli (*Capsicum annum* L.)
C Mini, A Joseph
Vegetable Science 25(2), 124-126
- 838 Assessment of physico-chemical characteristics of different tomato (*Solanum esculentum* Mill.) genotypes
A Kumari, RB Grewal, MK Banerjee
Vegetable Science 25(2), 127-130
- 839 Identification of capsicum cultivars by electrophoresis of soluble seed proteins
PB Kale, NGV Rao, DT Deshmukh, BH Naik
Vegetable Science 25(2), 131-132
- 840 Genetic divergence in tomato using a non-hierarchical clustering approach
N Rai, YS Rajput, AK Singh
Vegetable Science 25(2), 133-135
- 841 Evaluation of round shaped brinjal varieties for stability of their yield contributing attribute
N Rai, AK Singh, DA Sarnaik
Vegetable Science 25(2), 136-140
- 842 Combining ability of quantitative characters in cowpea [*Vigna unguiculata* (L.) Walp.]
R Kumar, SP Singh, AK Joshi
Vegetable Science 25(2), 141-144
- 843 Identification and development of male sterile line in chilli (*Capsicum annum* L.)
JA Patel, MR Shukla, KM Doshi, SA Patel, BR Patel, SB Patel, AD Patel
Vegetable Science 25(2), 145-148
- 844 Inter-relationship and path analysis studies on yield characters relationship to shoot and fruit borer resistance in brinjal
TK Behera, N Singh, TS Kalda, SS Gupta
Vegetable Science 25(2), 149-154
- 845 Leaf chlorophyll contents, assimilate production and its partitioning in brinjal (*Solanum melongena* L.) cultivars
BK Verma, RK Shrivastava, SK Dwivedi, DP Sharma
Vegetable Science 25(2), 155-158
- 846 Gene effects for various horticultural traits in bitter gourd (*Momordica charantia* L.)
D Tewari, Hariharam, H Jaiswal
Vegetable Science 25(2), 159-161

- 847 Characterization of the pointed gourd (*Trichosanthes dioica* Roxb.) clones
P Hazra, R Ghosh, P Sahoo, MG Som
Vegetable Science 25(2), 162-165
- 848 Enzymic association of powdery mildew resistance in garden pea
P Kalia
Vegetable Science 25(2), 166-168
- 849 Effect of gamma ray's irradiation on yield and yield contributing characters of garlic (*Allium sativum* L.) genotypes
N Kumar, RS Tiwari
Vegetable Science 25(2), 169-173
- 850 Genetic analysis of induced mutants of okra (*Abelmoschus esculentus* (L.) Moench)
AK Singh, KP Singh, VP Singh
Vegetable Science 25(2), 174-177
- 851 Influence of sowing date and crop phenology on pest infestation in okra
S Satpathy, S Rai
Vegetable Science 25(2), 178-180
- 852 A note on effect of different culture media on seed germination and growth of tomato seedlings
AK Pandey
Vegetable Science 25(2), 181-182
- 853 A note on interaction effect of bulb size and spacing on growth and seed yield of onion (*Allium cepa* L.)
CV. Junagadh local JC Dadhania, NN Gajipara
Vegetable Science 25(2), 183-184
- 854 A note on influence of IAA, IBA and GA3 on growth and yield of onion (*Allium cepa* L.)
VP Shakhda, NN Gajipara
Vegetable Science 25(2), 185-186
- 855 A note on fruit and seed development in okra (*Abelmoschus esculentus* (L.) Moench)
VS Devadas, TG Rani, KJ Kuriakose, SR Nair
Vegetable Science 25(2), 187-189
- 856 A note on quality and yield attributes of tomato varieties under varying alkali gradients
DN Sharma, NR Singh, C Kumar
Vegetable Science 25(2), 190
- 857 A note on longevity of chilli seeds
JA Patel, KM Doshi, MR Shukla, SA Patel
Vegetable Science 25(2), 191-194
- 858 A note on germination of jhampuri (*Phyllocllamys spinosa* Bueav.) seeds under different media
JN Das, CR Mohanty, PK Patra
Vegetable science 25(2), 195-196
- 859 A note on phosphorus and farmyard manure application on French bean (*Phaseolus vulgaris* L.) under mid hill conditions
RS Jasrotia, CM Sharma
Vegetable Science 25(2), 197-198
- 860 A note on genetics of fruit yield components in two crosses of brinjal (*Solanum melongena* L.) KB Kathirria, MH Vaghasiya, MK Bhalala, KM Doshi V
egetable Science 25(2), 199-200

Vegetable Science 26(1), 1999

- 861 Heterosis breeding in muskmelon: a review
MS Sandha, T Lal
Vegetable Science 26(1), 1-5

- 862 Stability analysis for yield and its components under different fertility regimes in French bean S Dhar, HH Ram
Vegetable Science 26(1), 6-11
- 863 Chemical mutagenesis in chilli (*Capsicum annuum* L.)
PJ Mehta, MR Shukla, KM Doshi, PT Shukla
Vegetable Science 26(1), 12-17
- 864 Genetics of yield and quality traits in garden pea
R Narayan, KB Rastogi, SP Kanaujia, S Narayan
Vegetable Science 26(1), 18-21
- 865 Heterosis in cowpea (*Vigna unguiculata* (L.) Walp)
R Kumar, SP Singh, AK Joshi, R Kumar
Vegetable Science 26(1), 22-26
- 866 Heterosis in bitter melon (*Momordica charantia* L.)
D Tewari, HH Ram
Vegetable Science 26(1), 27-29
- 867 Heterosis over mid and top parent under the Line x Tester fashion in bottle gourd (*Lagenaria siceraria* (Molina) Standl.)
S Kumar, SP Singh, RC Jaiswal, S Kumar
Vegetable Science 26(1), 30-32
- 868 Combining ability studies in a diallel cross set of long fruited types of bottle gourd
PK Singh, JC Kumar, JR Sharma
Vegetable Science 26(1), 33-36
- 869 Genetic analysis for embryo weight, cotyledon weight and seed protein in lablab bean
AK Basu, D Pal, SC Sasmala, SK Samanta
Vegetable Science 26(1), 37-40
- 870 Combining ability studies in brinjal (*Solanum melongena* L.)
NC Varshney, YV Singh, BV Singh
Vegetable Science 26(1), 41-44
- 871 Line x tester analysis of combining ability in chilli (*Capsicum annuum* L.)
MR Shukla, JA Patel, KM Doshi, SA Patel
Vegetable Science 26(1), 45-49
- 872 Mitotic index and chromosomal aberrations during first mitosis in relation to germinability of stored onion seeds
P Kumari, S Kumar, TM Vargheese, MK Banerjee, C Ram
Vegetable Science 26(1), 50-54
- 873 Comparison between variability parameters of chilli genotypes in Bhowali conditions, UP
SK Verma, KC Pant
Vegetable Science 26(1), 55-57
- 874 Evaluation of ivy gourd (*Coccinia grandis*) germplasm
DA Sarnaik, SK Verma, GL Sharma
Vegetable Science 26(1), 58-60
- 875 Green and seed yield of palak (*Beta vulgaris* L. var. *bengalensis* hort.) as affected by nitrogen fertilization and cutting management
JC Jana, U Thapa, TK Maity
Vegetable Science 26(1), 61-63
- 876 Effect of irrigation and nitrogen on growth, yield and yield attributes of Rabi onion (*Allium cepa*) in Andhra Pradesh
G Neeraja, KM Reddy, IP Reddy, YN Reddy
Vegetable Science 26(1), 64-68

- 877 Influence of irrigation and mixtalol spray on yield and economics of coriandrum (*Coriandrum sativum* L.)
H Lal, SVS Rathore, P Kumar
Vegetable Science 26(1), 69-73
- 878 Influence of sowing date and insecticide on the incidence of jassid and fruit borer on okra
S Rai, S Satpathy
Vegetable Science 26(1), 74-77
- 879 Efficacy of different pesticides and their combination against jassid and borer of okra
S Satpathy, S Rai
Vegetable Science 26(1), 78-81
- 880 Response of cabbage to sulphur fertilization
M Dhar, JC Jana, TK Maity
Vegetable Science 26(1), 82-84
- 881 Effect of nitrogen and phosphorus on growth and curd yield of cauliflower (*Brassica oleracea* var. *botrytis*)
K Swaroop, MA Suryanarayana, T Sharma, K Swaroop
Vegetable Science 26(1), 85-86
- 882 Effect of boron and calcium on seed production of bell pepper (*Capsicum annum* L.)
SK Sharma
Vegetable Science 26(1), 87-88
- 883 Effect of Nitrogen and Phosphorus on seed yield of okra
KL Bhat, RK Dhar
Vegetable Science 26(1), 89-90
- 884 Effect of phosphorus and potassium on growth, yield and quality of French bean (*Phaseolus vulgaris* L.) cv. Contender
SP Kanaujia, R Narayan, S Narayan
Vegetable Science 26(1), 91-92
- 885 Effect of nitrogen, phosphorus and potassium on growth and yield of rainy season onion (*Allium cepa* L.) raised from seedling
RB Singh, SB Singh
Vegetable Science 26(1), 93-94
- 886 Effect of nitrogen, phosphorus and potassium on growth and seed yield of radish (*Raphanus sativus* L.)
BJ Jadhao, LV Kulwal, KG Mahakal
Vegetable Science 26(1), 95-96
- 887 Effect of inorganic and bio-fertilizers on yield and quality parameters of multiplier onion (*Allium cepa* L.) var. *aggregatum*
S Thilakavathy, N Ramaswamy
Vegetable Science 26(1), 97-98

Vegetable Science 26(2), 1999

- 888 Genetic engineering for quality improvements in vegetable crops: current perspectives
J Singh, G Kallou, AK Singh
Vegetable Science 26(2), 99-108
- 889 Combining ability in self-incompatible lines of late cauliflower (*Brassica oleracea* var. *botrytis*)
PC Thakur, VP Singh
Vegetable Science 26(2), 109-111
- 890 Studies on phenotypic stability for pod yield and its components in asparagus bean (*Vigna sesquipedalis* (L.) Fruw.)
PJ Kulkarni, SP Birari
Vegetable Science 26(2), 112-114

- 891 Stability analysis for maturity and vegetative characters in cabbage
T Chaubey, BK Srivastava, M Singh
Vegetable Science 26(2), 115-119
- 892 Diallel analysis for total soluble solids content, pericarp thickness and locule number in tomato
MS Dhaliwal, S Singh, BS Badhan, DS Cheema, S Singh
Vegetable Science 26(2), 120-122
- 893 Gene effects of fruit length and breadth in *Capsicum annum* L
SS Bal, J Singh
Vegetable Science 26(2), 123-125
- 894 Heterosis in cucumber (*Cucumis sativus* L.)
AK Singh, NC Gautam, RD Singh
Vegetable Science 26(2), 126-128
- 895 Influence of moisture stress on leaf water status, osmotic potential, chlorophyll fluorescence and solute accumulation in field grown tomato cultivars
NK Srinivasa Rao, RM Bhatt, JBD Mascarenhas, A Naren
Vegetable Science 26(2), 129-132
- 896 Weed control in pointed gourd (*Trichosanthes dioica* Roxb)
SV Dwivedi, SS Singh, SP Singh
Vegetable Science 26(2), 133-136
- 897 Effect of sowing time and seed rate on the production of onion sets for Kharif crop
RS Gupta, RD Bhutani, SC Khurana, KK Thakral
Vegetable Science 26(2), 137-139
- 898 Influence of direct seeding, transplanting time and mulching on tomato yield
RS Hooda, J Singh, VS Malik, VK Batra
Vegetable Science 26(2), 140-142
- 899 Effect of planting time, bulb cut and pinching of bolt treatments on yield and quality of onion seed
YS Malik, N Singh, BK Nehra
Vegetable Science 26(2), 143-145
- 900 Effect of population density and nitrogen on growth characters and yield of cabbage (*Brassica oleracea* var. *capitata*)
KS Sandhu, BS Chahai, D Singh, MS Sandha
Vegetable Science 26(2), 146-148
- 901 Effect of steckling, planting dates and spacing on seed yield of radish (*Raphanus sativus* L.) cv. Pusa Chetki
YS Malik, BK Nehra, S Narendra
Vegetable Science 26(2), 149-151
- 902 Fruit quality of snake gourd (*Trichosanthes anguina* L.) as influenced by nitrogen, ethephon and drip irrigation frequency
K Elizabeth, Syriac, G Raghavan Pillai
Vegetable Science 26(2), 152-156
- 903 Studies on the incidence of bhindi yellow vein mosaic virus on some selected popular varieties under field conditions
PS Nath, P Bhattacharya, SC Mallik, MK Pandit
Vegetable Science 26(2), 157-159
- 904 Sources of resistance against powdery mildew (*Erysiphe pisi*) and its pathogens reaction under both natural as well as artificial epiphytotic conditions
KK Pandey, PK Pandey, G Kallou, Rajkumar, S B
Vegetable Science 26(2), 160-163
- 905 An integrated approach for the management of brinjal fruit and shoot borer
S Chakraborti
Vegetable Science 26(2), 164-166

- 906 Management of brinjal shoot and fruit borer *Leucinodes orbonalis* Guen
J Raja, B Rajendran, CN Pappiah
Vegetable Science 26(2), 167-169
- 907 Correlation and multiple regression analysis of physiological parameters in onion (*Allium cepa*, L.)
RK Shrivastava, BK Verena, AK Mehta, SK Dwivedi
Vegetable Science 26(2), 170-171
- 908 Association among yield and other plant traits in *Colocasia esulenta*
HB Singh, CP Awasthi, P Kumar
Vegetable Science 26(2), 172-173
- 909 Electrophoretic characterization of indigenous germplasm lines of muskmelon [*Cucumis melo* (L.)]
DK Singh, D Shukla, D Tewari
Vegetable Science 26(2), 174-175
- 910 Correlation and path analysis for horticultural traits in green sprouting broccoli
Shakuntala, P Kalia, J Kumar
Vegetable Science 26(2), 176-177
- 911 Variation in physiological growth attributes in brinjal (*Solanum melongena* L.) cultivars
RK Shrivastva, SK Dwivedi, BK Verma
Vegetable Science 26(2), 178-179
- 912 Performance of Varsha Uphar cultivar of okra (*Abelmoschus esculentus* (L.) Moench.) as affected by the sowing date and plant geometry
SK Yadav, BS Dhankhar
Vegetable Science 26(2), 180-182
- 913 Biochemical composition of lungru (*Diplazium esculentum*) of palam velly of Himachal Pradesh
S Prasad, CP Awasthi, AB Singh
Vegetable Science 26(2), 183-185
- 914 Biochemical composition and nutritive value of promising collections of different elephant foot yam (*Amorphophallus campanulatus* (Roxb.)
AB Singh, CP Awasthi, N Singh
Vegetable Science 26(2), 186-187
- 915 Weed management in seed crop of okra (*Abelmoschus esculentus* (L.) Moench)
BJ Jadhao, LV Kulwal, BM Patil, AP Karunakar, PS Joshi, JS Vyas
Vegetable Science 26(2), 188-189
- 916 Chemical weed control in seed crop of radish (*Raphanus sativus* L.)
BJ Jadhav, LB Kuwal, BM Patil, AP Karunakar, PS Joshi
Vegetable Science 26(2), 190-191
- 917 Fungicidal control of phomopsis fruit rot of brinjal.
AK Singh, KC Agrawal
Vegetable Science 26(2), 192
- 918 Effect of biofertilizers on growth, yield and nutrient uptake of onion (*Allium cepa* L.)
F Mengistu, N Singh
Vegetable Science 26(2), 193-195
- 919 Effect of storage conditions and packing materials on shelf-life of carrot CV. Hisar Gairic
K Jitender, JL Mangal, AS Tewatia
Vegetable-Science 26(2), 196-197
- 920 Response of tomato and chilli to foliar application of speciality fertilizers
SP Palaniappan, A Jeyabal, Chelliah
Vegetable Science 26(2), 198-200

- 921 Effect of training system on fruit yield and quality attributes of different tomato (*Lycopersicon esculentum* Mill) cultivars
MS Sandhu, DS Jaspreet, J Singh, D Singh
Vegetable Science 26(2), 201-202

Vegetable Science 27(1), 2000

- 922 Male sterility: mechanisms and current status on identification, characterization and utilization in vegetables
S Kumar, MK Banerjee, G Kalloo
Vegetable Science 27(1), 1-24
- 923 Gene action of nutritional traits in bottle gourd [*Lagenaria siceraria* (Mol.) Standl].
AK Sit, PS Sirohi
Vegetable Science 27(1), 25-27
- 924 Genetics of earliness in cowpea [*Vigna unguiculata* (L.) Walp.].
K Raj, SP Singh, AK Joshi
Vegetable Science 27(1), 28-30
- 925 Effect of genic male sterility on flowering behaviour of muskmelon.
AS Dhath, SS Gill
Vegetable Science 27(1), 31-34
- 926 SDS-PAGE in cucurbits
H Chaudhary, HH Ram
Vegetable Science 27(1), 35-38
- 927 Genetic variability, heritability and genetic advance for some traits in chillies (*Capsicum annum* L.).
AD Munshi, TK Behera
Vegetable Science 27(1), 39-41
- 928 Seedling injury, reduced pollen and ovule fertility and chlorophyll mutations induced by gamma rays and EMS in okra [*Abelmoschus esculentus* (L.) Moench].
AK Singh, KP Singh, RB Singh
Vegetable Science 27(1), 42-44
- 929 Stability analysis of yield and quality contributing characters in cabbage.
T Chaubey, BK Srivastava, S Major
Vegetable Science 27(1), 45-50
- 930 Effect of pre-sowing treatment on germination and seedling growth in *Capsicum annum* (cv. California Wonder) under different moisture levels.
NKS Rao, RM Bhatt, JBD Mascarenhas, N Anitha
Vegetable Science 27(1), 51-53
- 931 Photosynthetic response of bell pepper to biozyme in relation to fruit yield.
P Kumar, SD Dube, VS Chauhan
Vegetable Science 27(1), 54-56
- 932 Response of pea cultivars to water stress: changes in morphophysiological characters, endogenous hormones and yield.
KK Upreti, GSR Murti, RM Bhat
Vegetable Science 27(1), 57-61
- 933 Influence of integrated nutrient management on yield and economics in broccoli (*Brassica oleracea* L. var *italica* Plenck) under cold temperate conditions.
KC Sharma
Vegetable Science 27(1), 62-63
- 934 Effect of fertigation on growth and yield of gherkin.
SS Raman, KMD Murthy, G Ramesh, SP Palaniappan, S Chelliah
Vegetable Science 27(1), 64-66

- 935 Evaluation of capsicum genotypes for oleoresin recovery with respect to season and harvest maturity.
C Mini, MA Vahab
Vegetable Science 27(1), 67-71
- 936 Screening for disease incidence of yellow vein mosaic virus (YVMV) in okra [*Abelmoschus esculentus* (L.) Moench] treated with gamma rays and EMS.
AK Singh, KP Singh
Vegetable Science 27(1), 72-75
- 937 Yield potentiality of some brinjal cultivars in severely bacterial wilt infected condition.
SJN Baruah, M Binoy, HA Rachid
Vegetable Science 27(1), 76-77
- 938 Screening of okra parental lines and their F1s for resistance against YVMV
KP Singh, PK Panda, C Deo
Vegetable Science 27(1), 78-79
- 939 Management of thrips and leaf spot disease in onion
J Raja, B Rajendran, K. Sachithanandam and CM Pappiah
Vegetable Science 27(1), 80-81
- 940 Flower and fruit infestation by brinjal shoot and fruit borer, *Leucinodes orbonalis* Guen.-damage potential vs. weather.
HP Patnaik
Vegetable Science 27(1), 82-83
- 941 Effect of different types of mulch and herbicidal treatments on soil microflora of tomato (*Lycopersicon esculentum* Mill.).
IS Hundal, KS Sandhu, S Daljit, MS Sandha
Vegetable Science 27(1), 84-85
- 942 Screening of germplasm for multiple resistance in fenugreek (*Trigonella corniculata* L.)
JS Kanwar, KS Brar, S Kaur and JS Dhiman
Vegetable Science 27(1), 86-87
- 943 Significance of nitrogen, phosphorous and potassium on onion (*Allium cepa* L.) raised from onion sets (bulblets)
Ram Batuk Singh, SB Singh
Vegetable Science 27(1), 88-89
- 944 Determination of population size for seed crop in cauliflower
JP Singh, RD Singh
Vegetable Science 27(1), 90-91
- 945 Evaluation of some promising type lettuce cultivars for leaf and quality characters.
S Daljeet, AK Atwal, KL Bajaj
Vegetable Science 27(1), 92-93
- 946 Response of tomato (*Lycopersicon esculentum* Mill.) to nitrogen and potassium fertilization in acidic soil of Bastar.
CR Gupta, SS Sengar
Vegetable Science 27(1), 94-95
- 947 Allelopathic potential of eucalyptus (*E. tereticornis*) plant parts on germination and seedling growth of garlic (*Allium sativum* L.).
TB Allolli, PN Reddy, R Mahadeva
Vegetable Science 27(1), 96-98
- 948 Influence of nitrogen and potassium on growth and head yield of broccoli (*Brassica oleracea* L. var. *Italica* L. Plenck) under low hills subtropical condition of HP
AK Singh, S Akhilesh
Vegetable Science 27(1), 99-100

- 949 Growth and yield of table pea (*Pisum sativum* L.) as influenced by levels of phosphorus and lime in acidic soil.
CR Gupta, SS Sengar, J Singh
Vegetable Science 27(1), 101-102
- 950 Performance of sweet potato varieties in hills of Uttar Pradesh.
VR Biswas, K Narendra
Vegetable Science 27(1), 103-104

Vegetable Science 27(2), 2000

- 951 Genetic engineering for insect resistance in vegetable crops.
S Major, S Chakraborty, K Sanjeev, G Kalloo
Vegetable Science 27(2), 105-116
- 952 H-24: moderately leaf curl resistant variety of tomato (*Lycopersicon esculentum* Mill.).
G Kalloo, MK Banerjee
Vegetable Science 27(2), 117-120
- 953 Development of okra hybrids resistant to yellow vein mosaic virus.
RS Rattan, B Arvind
Vegetable Science 27(2), 121-125
- 954 Inbreeding depression in cowpea [*Vigna unguiculata* (L.) Walp.].
K Raj, SP Singh, AK Joshi
Vegetable Science 27(2), 126-129
- 955 Adoptibility in early Indian cauliflower varieties and hybrid
SR Sharma, TK Behera, R Singh, C A.
Vegetable Science 27(2), 130-132
- 956 Phenotypic stability in long fruited brinjal hybrids.
N Rai, AK Singh, T Tirkey
Vegetable Science 27(2), 133-135
- 957 Peroxidase isozyme as marker for bacterial wilt resistance in tomato (*Lycopersicon esculentum* Mill.).
SSC Bose, S Rajan
Vegetable Science 27(2), 136-141
- 958 Genetic analysis of yield and its components in radish.
PS Sirohi, C Kutty
Vegetable Science 27(2), 142-144
- 959 Natural cross-pollination and pollen dispersal studies in brinjal.
JS Kanwar, BS Gill
Vegetable Science 27(2), 145-147
- 960 Combining ability studies in bitter melon in relation to linex tester crossing system
AS Khattria, R Singh, JC Thakur
Vegetable Science 27(2), 148-151
- 961 Studies on self-incompatibility and its stability in open pollinated varieties of Indian cauliflower.
S Sonia, JC Thakur, AS Khattria
Vegetable Science 27(2), 152-154
- 962 Genotype-environment interaction, stability and adaptability of tomato (*Lycopersicon esculentum* Mill.).
AR Mandal, BK Senapati, TK Maity
Vegetable Science 27(2), 155-157
- 963 Studies on heterosis in bitter melon (*Momordica charantia* L.)
AK Singh, UB Pandey, S Mamta
Vegetable Science 27(2), 158-161

- 964 Genetic estimates (gene action) in long fruited bottle gourd
PK Singh, JC Kumar, JR Sharma
Vegetable Science 27(2), 162-164
- 965 Effect of various levels of N, P, K on physiological growth determinants of productivity in garlic (*Allium sativum* Linn.).
AK Naidu, JP Tiwari, SK Dwivedi, SK Saxena
Vegetable Science 27(2), 165-167
- 966 Seed viability and biochemical changes during storage of winter squash (*Cucurbita maxima* Duch.) seeds.
SD Doijode
Vegetable Science 27(2), 168-171
- 967 Effect of nitrogen and phosphorus on growth and seed yield of French bean (*Phaseolus vulgaris* L.).
JK Tewari, SS Singh
Vegetable Science 27(2), 172-175
- 968 Yield and nutritive values of different varieties of fenugreek (*Trigonella spp.*).
IM Chhibba, JS Kanwar, VK Nayyar
Vegetable Science 27(2), 176-179
- 969 Studies on growth, pungency and flavour characteristics of five varieties of garlic (*Allium sativum* L.) bulbs during development.
DR Sood, C Vinod, S Jitender
Vegetable Science 27(2), 180-184
- 970 Economics of controlling *Helicoverpa armigera* (Hubner) through suitable varieties and cultural practices in tomato.
K Sundeep, S Dilbagh
Vegetable Science 27(2), 185-188
- 971 Variability in isolates of *Ralstonia solanacearum* affecting solanaceous vegetables in Kerala.
SK Mathew, D Girija, SN Devi, PG Sadhankumar, S Rajan
Vegetable Science 27(2), 189-191
- 972 Screening of okra varieties to yellow vein mosaic virus under field conditions.
VK Batra, S Jitendra
Vegetable Science 27(2), 192-193
- 973 Selection of potential isolate of biocontrol agents based on biomass production, growth rate and antagonistic capability.
KK Pandey, PK Pandey, JP Upadhyay
Vegetable Science 27(2), 194-196
- 974 Weed control in tomato.
N Bhriugu, S Neelam
Vegetable Science 27(2), 197-198
- 975 Position of seeds in the fruit affects storability of seeds in brin. Jal (*Solanum melongena* L.)
SD Doijode
Vegetable Science 27(2), 199-200
- 976 Response of paclobutrazol on growth, yield and quality of amaranth (*Amaranthus tricolor*).
DK Singh
Vegetable Science 27(2), 201-202
- 977 Effect of head compactness on bolting and seed yield of cabbage (*Brassica oleracea* var. *capitata*).
HS Kanwar, UK Kohli, S Ravinder
Vegetable Science 27(2), 203-204
- 978 Studies on moringa (*Moringa pterigosperma* Gaertn) oil and water coagulation by press cake.
T Sakthivel, S Thamburaj
Vegetable Science 27(2), 205-207

- 979 Effect of integrated nutrient management on yield and economics of okra in an inceptisol.
D Selvi, P Rani
Vegetable Science 27(2), 207-208

Vegetable Science 28(1), 2001

- 980 Physiological basis of drought tolerance in vegetable crops
NKS Rao, RM Bhatt
Vegetable Science 28(1), 1-8
- 981 Current status and future strategies in genetic improvement of cowpea
L Sahoo, T Sugla, ND Singh, Sonia, P Nijasure, A Gulati, RP Singh
Vegetable Science 28(1), 9-16
- 982 Genotype x environment interaction and stability analysis in kharif onion
BK Mohanty, AM Prusti
Vegetable Science 28(1), 17-21
- 983 Characterization of indigenous germplasm lines of cucumber (*Cucumis melo* L.) through SDS-PAGE
DK Singh, HH Ram
Vegetable Science 28(1), 22-23
- 984 Combining ability studies for long shelf life in tomato
L Roopa, AT Sadashiva, KM Reddy, KPG Rao, BC Prasad
Vegetable Science 28(1), 24-26
- 985 Genetic control of resistance to powdery mildew and its relationship with quality characters in garden pea (*Pisum sativum* L.)
R Kaur, S Kaur, TS Dhillon, M Singh
Vegetable Science 28(1), 27-29
- 986 Introduction and characterization of male sterile and parthenocarpic lines of tomato (*Lycopersicon esculentum* Mill.)
K Rajesh, A Singh, K Sanjeet, MK Banerjee, G Kalloo
Vegetable Science 28(1), 30-33
- 987 Inbreeding depression for yield and quality characters in tomato (*Lycopersicon esculentum* Mill.)
S Pandey, J Dixit
Vegetable Science 28(1), 34-37
- 988 Growth and yield of lettuce cv. Alamo-1 as influenced by dates of planting and plant density
DK Sharma, DR Chaudhary, DP Pandey
Vegetable Science 28(1), 38-39
- 989 Response of rabi onion cv Nashik Red to Nitrogen and Potassium Fertilization
BK Mohanty, JN Das
Vegetable Science 28(1), 40-42
- 990 Effect of cultivars, packing types and waxing on shelf life of brinjal (*Solanum melongena* L.)
JL Mangal, J Kumar, VK Batra, J Singh
Vegetable Science 28(1), 43-44
- 991 Quality variation in ginger
RK Goyal, BN Korla
Vegetable Science 28(1), 45-47
- 992 Response of F1 hybrid cabbage to nitrogen and phosphorus fertilization
RV Singh, AN Maurya, KP Singh
Vegetable Science 28(1), 48-50
- 993 Radiotracer techniques to trace the infection courts and movement of *Ralstonia solanacearum* (Smith) in chilli (*Capsicum annuum* L.)
BL Markose, AM Vahab, KV Peter, S Rajan
Vegetable Science 28(1), 51-54

- 994 Sources of resistance to downy mildew (*Peronospora parasitica*) disease in Asiatic group of cauliflower
KK Pandey, PK Pandey, B Singh, G Kalloo, KS Kapoor
Vegetable Science 28(1), 55-57
- 995 Preying and reproductive response of *Chrysoperla carnea* (Neuropetra: Chrysopidae) to variable prey and prey density level
S Satpathy, R Samarjit, R Sanjeev
Vegetable Science 28(1), 58-62
- 996 Genetic divergence in Garden Pea (*Pisum sativum* L. sub. sp. hortense Asch and Graebn)
AK Sureja, RR Sharma
Vegetable Science 28(1), 63-64
- 997 Yield stability in pole beans (*Phaseolus vulgaris* L.)
RS Pan, V Prasad, M Rai
Vegetable Science 28(1), 65-66
- 998 Cluster analysis in pointed gourd (*Trichosanthes dioica* Roxb.)
D Ram, G Kalloo, M Singh
Vegetable Science 28(1), 67-68
- 999 Pusa Sharad-a mid early maturity cauliflower
SR Sharma, R Singh, HS Gill
Vegetable Science 28(1), 69
- 1000 Studies on weed management through use of herbicides in seed crop of carrot
KS Sandhu, D Singh, MS Sandhu, J Singh
Vegetable Science 28(1), 70-71
- 1001 Effect of soil solarization on weed control and yield of tomato (*Lycopersicon esculentum* Mill.)
VKK Kumar, HV Nayjappa, BK Ramachandrappa
Vegetable Science 28(1), 72-73
- 1002 Effect of plant bioregulators on chilli
NC Joshi, DK Singh
Vegetable Science 28(1), 74-75
- 1003 Effect of maturity stages on seed quality in okra
P Anitha, PG Sadhankumar, S Rajan
Vegetable Science 28(1), 76-77
- 1004 Response of tomato (*Lycopersicon esculentum*) to zinc and iron
MC Patnaik, GB Raj, IP Reddy
Vegetable Science 28(1), 78-79
- 1005 Response of brinjal (*Solanum melongena* L.) to zinc and iron
GB Raj, MC Patnaik, IP Reddy, AP Rao
Vegetable Science 28(1), 80-81
- 1006 Active root distribution zone of bell paper (*Capsicum annum* L.) under drip irrigation with and without mulches
PVL Ratnakumari, P Prabhu Prasadini, P Venkat Reddy
Vegetable Science 28(1), 82-83
- 1007 Efficiency of coirpith as a substitute for farm yard manure
R Pushpakumari, VL Geethakumari
Vegetable Science 28(1), 84-85
- 1008 Biochemical variability of Pointed gourd (*Trichosanthes dioica* Roxb.) varieties
RP Singh, AB Abidi, RN Kewat
Vegetable Science 28(1), 86-87
- 1009 Vegetative propagation of jhumpuri (*Phyllocllamys spinosa* Bueav) by stem cutting
JN Das, CR Mohanty
Vegetable Science 28(1), 88-89

- 1010 Effect of GA3 and foliar feeding of urea on bulb production of onion (*Allium cepa* L.)
A Bahadur, VN Maurya
Vegetable Science 28(1), 90-91
- 1011 Effect of plant density and mineral nutrition on the yield of garlic (*Allium sativum* L.) cultivars Mardasi
J Dos, B Mohanty
Vegetable Science 28(1), 92-93
- 1012 Pod rot of guar induced by *Macrophomina phaseolina* - A new post-harvest problem
K Mathur, RBS Gurjar, R Mathur
Vegetable Science 28(1), 94
- 1013 Host preference of *Raphidopalpa foveicollis* (Lucas)
RM Vandana, PR Prasad, NV Rao
Vegetable Science 28(1), 95-97

Vegetable Science 28(2), 2001

- 1014 Stability differences among tomato genotypes for fruit quality parameters
JS Arvindakumar, R Mulge, MB Madalageri, MP Patil, MS Kulkarni, PM Gangadharappa
Vegetable Science 28(2), 102-105
- 1015 Studies on heterosis and combining ability in indigenous bitter gourd (*Momordica charantia* L.) for fruit yield
D Tewari, HH Ram, HR Jaiswal
Vegetable Science 28(2), 106-108
- 1016 Detection of epistasis and estimation of components of genetic variation in okra (*Abelmoschus esculentus* L. Moench.)
V Tripathi, SK Arora
Vegetable Science 28(2), 109-112
- 1017 Inheritance of growth traits in garden pea (*Pisum sativum* L.)
KG RaiKumar, M Singh
Vegetable Science 28(2), 113-116
- 1018 Combining ability studies in chilli (*Capsicum annum* L.) for oleoresin and related traits
R Singh, JS Hundal
Vegetable Science 28(2), 117-120
- 1019 Genetic divergence in bottle gourd (*Lageneria sicereria* (Mol.) Standl)
A Mathew, BL Markose, S Rajan, S Devi, N
Vegetable Science 28(2), 121-123
- 1020 Manifestation of heterosis in chilli (*Capsicum annum* L.)
R Singh, JS Hundal
Vegetable Science 28(2), 124-126
- 1021 Gene action of mineral elements and vitamins in pumpkin (*Cucurbita moschata*)
PS Sirohi, SR Yayasani
Vegetable Science 28(2), 127-129
- 1022 Heterosis studies over environments in chilli (*Capsicum annum* L.)
JA Patel, MJ Patel, AD Patel, RR Acharya, MK Bhalala
Vegetable Science 28(2), 130-132
- 1023 Effect of nitrogen and phosphorus on growth and curd yield of cauliflower var. "Aghani" in Terai zone of West Bengal
JC Jana, TP Mukhopadhyay
Vegetable Science 28(2), 133-136
- 1024 Intercropping of sweet pepper with radish, cabbage and onion
K Singh, KS Sandhu, MS Sandha
Vegetable Science 28(2), 137-139

- 1025 Effect of planting time on the performance of onion cultivars
BK Mohanty
Vegetable Science 28(2), 140-142
- 1026 Identification of suitable vegetable cropping sequences for greenhouse cultivation in Uttaranchal hills
T Pant, RP Joshi, AS Bhoj, N Kumar
Vegetable Science 28(2), 143-145
- 1027 Effect of Azotobacter and nitrogen on plant growth and fruit yield of tomato
SK Sharma, KS Thakur
Vegetable Science 28(2), 146-148
- 1028 Effect of irrigation schedule on growth, yield and yield attributes in off-season vegetable pea under low hill valley situation of Uttaranchal
VP Singh, SS Tripathi, DC Dimri
Vegetable Science 28(2), 149-151
- 1029 Influence of fertility levels on yield and yield components in cabbage
T Chaubey, BK Srivastava, Major-Singh
Vegetable Science 28(2), 152-156
- 1030 Influence of graded doses of nitrogen on indeterminate tomato hybrids
SNS Chaurasia, N De, KP Singh
Vegetable Science 28(2), 157-159
- 1031 Seed-transmission of brinjal mosaic disease caused by a strain of cucumber mosaic virus
S Sriram, S Doraiswamy
Vegetable Science 28(2), 160-162
- 1032 Genetic divergence in hyacinth bean
MG Biju, KP Prasanna, S Rajan
Vegetable Science 28(2), 163-164
- 1033 Heterosis and combining ability in ridge gourd (*Luffa acutangula* Roxb.)
TJ Mole, SN Devi, S Rajan, PG Sadhankumar
Vegetable Science 28(2), 165-167
- 1034 Heterosis studies in tomato (*Lycopersicon esculentum* Mill.)
KC Baishya, MM Syamal, KP Singh
Vegetable Science 28(2), 168-169
- 1035 Genetic divergence in pointed gourd (*Trichosanthes dioica* Roxb.)
DK Dora, GC Acharya, S Das
Vegetable Science 28(2), 170-171
- 1036 Dry matter heterosis in bell pepper (*Capsicum annum* L.)
N Anand, R Mulge, M Chavan
Vegetable Science 28(2), 172-174
- 1037 Effect of nitrogen and spacing on seed production of paprika
SK Sharma
Vegetable Science 28(2), 175-176
- 1038 Head replanting time for cabbage seed production under dry temperate zone of Himachal Pradesh
HS Kanwar, R Singh
Vegetable Science 28(2), 177-178
- 1039 Effect of organic manure and *Azospirillum* inoculation on yield and quality of Okra (*Abelmoschus esculentus* L.)
AK Raj, GVL Kumari
Vegetable Science 28(2), 179-181
- 1040 Qualitative traits of some pumpkin
S Chaturve
Vegetable Science 28(2), 182-183

- 1041 Effect of integrated nutrient management on yield and quality in chilli (*Capsicum annuum* L.)
SR Sharu, M Meerabai
Vegetable Science 28(2), 184-185
- 1042 Effect of nutrition and time of sowing on growth and seed production of okra
Y Prasad, G Singh
Vegetable Science 28(2), 186-187
- 1043 Performance of scalded and healthy tomato seed as affected by priming
PM Singh, RGS Rao, KP Singh
Vegetable Science 28(2), 188-189
- 1044 A study on pod, shoot, yield and dry matter production of vegetable cowpea (*Vigna unguiculata* Walp.) as affected by phosphorus, potash and *Rhizobium*
S Kishan, SVS Rathore, AN Ganeshamurthy, DR Singh, K Swaroop
Vegetable Science 28(2), 190-191
- 1045 Concentric cracking in tomato–biochemical, physical and anatomical factors
PG Sadhankumar, S Rajan, KV Peter
Vegetable Science 28(2), 192-194
- 1046 Possibilities for off-season production of cabbage hybrids under mid-hill conditions of Himachal Pradesh
R Sharma, SK Sharma
Vegetable Science 28(2), 195-196
- 1047 Response of okra to biofertilizers
A Bahadur, RK Manohar
Vegetable Science 28(2), 197-198
- 1048 A note on source of resistance on watermelon bud necrosis caused by tospovirus
PK Pandey, KK Pandey
Vegetable Science 28(2), 199-200

Vegetable Science 29(1), 2002

- 1049 Tomato ripening mutants-rin, nor and alc: A potential germplasm to improve shelf life
AS Dhatt, S Singh, MS Dhaliwal, DS Cheema
Vegetable Science 29(1), 1-12
- 1050 Performance of biparental progenies in late cauliflower: variability and association analysis
MS Kanwar, BN Korla
Vegetable Science 29(1), 13-16
- 1051 Genetic analysis for some seed parameters in Lablab bean
AK Basu, SK Samantha, SK Sasmala
Vegetable Science 29(1), 17-19
- 1052 Genetic analysis of some parameters associated with fruit firmness in tomato by involving genetic male sterile lines
P Kaur, MS Dhaliwal, S Singh
Vegetable Science 29(1), 20-23
- 1053 Genetics of yield and its component characters in brinjal (*Solanum melongena* L.)
M Singh, G Kalloo, MK Banerjee, SN Singh
Vegetable Science 29(1), 24-26
- 1054 Influence of environments on association of yield and its components traits in tomato (*Lycopersicon esculentum* Mill.)
JS Aravindakumar, R Mulge
Vegetable Science 29(1), 27-29
- 1055 Induced mutation in okra by gamma rays and EMS
AK Singh, KP Singh
Vegetable Science 29(1), 30-33

- 1056 Heterosis in Asiatic and European cultivars in radish (*Raphanus sativus* L.)
B Kumar, KS Chandel, NK Patahnia
Vegetable Science 29(1), 34-36
- 1057 Genetic diversity in French bean under moisture stress condition
RB Govanakoppa, RM Hosamani, PM Salimath
Vegetable Science 29(1), 37-39
- 1058 Effect of VAM and inorganic fertilizers on growth and yield of onion (*Allium cepa* L.)
A Singh, SP Singh, BO Singh
Vegetable Science 29(1), 40-42
- 1059 Production potential and economic returns of different harvest management systems in broccoli (*B. oleracea* L. var. *italica* Plenck.) under temperate conditions.
S Sood, JJ Sharma
Vegetable Science 29(1), 43-44
- 1060 Response of brinjal (*Solanum melongena* L.) to inorganic sources of nutrients
J Devi, TK Maity, U Thapa
Vegetable Science 29(1), 45-47
- 1061 Influence of crop phenology on infestation of *Liriomyza trifolii* Burgess
B Hemlata, T Umamaheswari, G Ramarao
Vegetable Science 29 (1), 48-49
- 1062 Tropical gynoecious cucumber hybrids: reaction to powdery mildew, downy mildew and viral disease
CD Badgugar, TA More
Vegetable Science 29(1), 50-54
- 1063 Reaction of bitter gourd genotypes against distortion mosaic virus
P Arunachalam, VV Radhakrishnan, SK Mathew, PGS Kumar
Vegetable Science 29(1), 55-57
- 1064 Resistance to *Alternaria* blight of radish in relation to different disease parameters
KK Pandey, B Singh, PK Pandey
Vegetable Science 29(1), 58-62
- 1065 Genetic variability, correlation and path analysis in okra (*Abelmoschus esculentus* (L.) Moench)
BS Dhankar, SK Dhankar
Vegetable Science 29(1), 63-65
- 1066 Heterosis and combining ability in diallel cross of sweet pepper
V Pandey, Z Ahmed, N Kumar
Vegetable Science 29(1), 66-67
- 1067 Genetic variability and correlation study of some heat tolerant tomato genotypes
P Singh, S Singh, DS Cheema, MS Dhaliwal, S Singh
Vegetable Science 29(1), 68-70
- 1068 Path coefficient analysis in sweet pepper (*Capsicum annuum* L.) genotypes under mid hills of Uttaranchal
AC Mishra, RV Singh, HH Ram
Vegetable Science 29(1), 71-74
- 1069 Studies on heterosis for yield attributes in cucumber (*Cucumis sativus* L.)
SK Bairagi, DK Singh, HH Ram
Vegetable Science 29(1), 75-77
- 1070 Inheritance of shade tolerance in chilli (*Capsicum* spp.)
I Sreelathakumary, M Abdul Vahab, L Rajamony
Vegetable Science 29(1), 78-79
- 1071 Pod development rate and its impact on yield on garden pea (*Pisum sativum* L.)
M Sarkar, RR Sharma, PS Deshmukh
Vegetable Science 29(1), 80-81

- 1072 Effect of withering on quality of chili
C Mini, MA Wahab
Vegetable Science 29(1), 82-83
- 1073 Genetic analysis of quantitative traits in brinjal (*Solanum melongena* L.)
HV Singh, SP Singh, M Singh, S Singh, M Singh, S Singh
Vegetable Science 29(1), 84-86
- 1074 Effect of microbial inoculants, chemical nitrogen and their combination on brinjal (*Solanum melongena* L.)
IA Kamili, MY Zargar, MA Chattoo
Vegetable Science 29(1), 87-89
- 1075 Effect of nitrogen and phosphorus levels on growth and yield of brinjal hybrid (*Solanum melongena* L.)
S Pal, MS Saimbhi, SS Bal
Vegetable Science 29(1), 90-91
- 1076 Influence of black polyethylene and organic mulches on tomato (*Lycopersicon esculentum* Mill.) and okra (*Abelmoschus esculentus* (L.) Moench) production in Assam
AK Sannigrahi, BC Borah
Vegetable Science 29(1), 92-93
- 1077 Seed quality improvement by size grading in multiple onion (*Allium cepa* L. var. *aggregatum*)
P Murugesan, K Vanangamudi, S Easwaran, S Muthuramalingam
Vegetable Science 29(1), 94-95
- 1078 Effect of seed rate and NPK fertilizers on green pod production of pea cultivar Arkel
SK Sharma, S Harnam
Vegetable Science 29(1), 96-98
- 1079 Effect of methods of drying on seed quality in okra
P Anitha, PG Sadhankumar, S Rajan
Vegetable Science 29(1), 99-100

Vegetable Science 29(2), 2002

- 1080 RAPD protocol for tagging of fertility restorer and male sterility genes in chilli (*Capsicum annuum* L.)
S Kumar, V Singh, S Kumar, M Singh, M Rai, G Kalloo
Vegetable Science 29(2), 101-105
- 1081 Genetic analysis for pod yield and its contributing traits in garden pea (*Pisum sativum* L.)
A Sharma, P Kalia
Vegetable Science 29(2), 106-109
- 1082 Line x tester analysis for the study of combining ability in radish (*Raphanus sativus* L.)
KS Chandel, VK Sharma, NK Pathania
Vegetable Science 29(2), 110-112
- 1083 Inheritance of fruit characters in ash gourd (*Benincasa hispida* (Thunb.) Cogn.)
J Mandal, PS Sirohi, TK Behera
Vegetable Science 29(2), 113-115
- 1084 Heterosis studies in okra (*Abelmoschus esculentus* (L.) Moench)
S Chauhan, Y Singh
Vegetable Science 29(2), 116-118
- 1085 Heterosis in temperate carrot (*Daucus carota* L.)
TS Verma, SC Sharma, H Lal
Vegetable Science 29(2), 119-122
- 1086 Genetic variability for antioxidants and yield components in pumpkin (*Cucurbita moschata* Duch. ex Poir.)
S Pandey, J Singh, AK Upadhyay, D Ram
Vegetable Science 29(2), 123-126

- 1087 Combining ability of quantitative characters in brinjal
AK Singh, RS Pan, M Rai, V Prasad
Vegetable Science 29(2), 127-130
- 1088 Seed protein stability in French bean (*Phaseolus vulgaris* L.) under different fertility environments
D Shri, HH Ram
Vegetable Science 29(2), 131-133
- 1089 Gene action of quality traits in muskmelon (*Cucumis melo* L.)
SS Moon, VK Verma, AD Munshi
Vegetable Science 29(2), 134-136
- 1090 Principle component analysis of growth, yield and seed characters of snake gourd (*Trichosanthes anguina* L.)
P Ashok, S Rajan
Vegetable Science 29(2), 137-141
- 1091 Evaluation of self incompatibility in Indian Cauliflower (*Brassica oleracea* L. var. *botrytis*)
B Singh, A Singh, AK Pal, MK Banerjee
Vegetable Science 29(2), 142-145
- 1092 Genotype-environment interaction and stability for yield and yield components in chilli (*Capsicum annum* L.)
BK Senapati, G Sarkar
Vegetable Science 29(2), 146-148
- 1093 Standardization of Paclotrazol concentrations in vegetable crops
N Rai, DS Yadav, RK Yadav
Vegetable Science 29(2), 149-153
- 1094 Effect of nitrogen, phosphorus and potassium on production of broccoli (*Brassica oleracea* var. *italica*) cv. KTS-1
S Brahma, DB Phookan, BP Gautam, DK Bora
Vegetable Science 29(2), 154-156
- 1095 Effect of date of planting and growing environment on the plant survival, growth and yield of early cauliflower in rainy season
P Srivastava, BK Srivastava, MP Singh
Vegetable Science 29(2), 157-160
- 1096 Effect of VAM and inorganic fertilizers on yield and NP content and uptake of onion (*Allium cepa* L.)
A Singh, SP Singh, BP Singh
Vegetable Science 29(2), 161-163
- 1097 Effect of date of planting on growth, yield and quality of onion (*Allium cepa* L.)
SV Sawant, MT Ingavale, KK Mangave, BK Wath, NR Bhat
Vegetable Science 29(2), 164-166
- 1098 Predator-prey interaction between jassid (*Amrasca biguttula biguttula*, Ishida) and a staphylinid in okra
TM Shivalingaswamy, S Satpathy, B Singh, A Kumar
Vegetable Science 29(2), 167-169
- 1099 Evaluation of some chemicals and bioagents against tomato fruit borer, *Helicoverpa armigera* Hubner
C Chiranjeevi, IP Reddy, CS Reddy, M Vijaya
Vegetable Science 29(2), 170-171
- 1100 Management of cotton jassid, *Amrasca biguttula biguttula* (Ishida) and spotted bollworm, *Earias* spp. in okra.
K Sandeep
Vegetable Science 29(2), 172-175
- 1101 Reaction of tomato (*Lycopersicon esculentum* Mill.) genotypes against leaf curl virus
RS Rattan, A Bindal
Vegetable Science 29(2), 176-177

- 1102 Heterosis for yield and its attributing traits in pumpkin (*Cucurbita moschata* L.)
PS Sirohi, YS Reddy, TK Behera
Vegetable Science 29(2), 178-179
- 1103 Path analysis in pointed gourd (*Trichosanthes dioica* Roxb.)
DK Dora, GC Acharya, S Das
Vegetable Science 29(2), 180-181
- 1104 Inheritance of yield component in French bean (*Phaseolus vulgaris* L.)
RR Govanakoppa, RM Hosamani, PM Salimath
Vegetable Science 29(2), 182-183
- 1105 Effect of nutrient management on growth, yield and yield attributes of rabi onion (*Allium cepa* L.)
PKS Jayathilake, R Reddy, R Reddy
Vegetable Science 29(2), 184-185
- 1106 Response of tomato (*Lycopersicon esculentum* Mill.) to bio inoculation at different levels of nitrogen
SK Sengupta, YC Dwivedi, SS Kushwah
Vegetable Science 29(2), 186-188
- 1107 Effect of planting date and variety on seed production of early cauliflower
U Thapa, TK Matty, MK Pati
Vegetable science 29(2), 189-190
- 1108 Integrated weed management in onion (*Allium cepa* L.) seed crops in vertisol of South Rajasthan
N Kumar, IB Mourya, SK Intodia
Vegetable Science 29(2), 191-192
- 1109 Effect of nutrient sources on the fruit yield of tomato (*Lycopersicon esculentum* Mill.)
CS Reddy, M Narayanamma, C Chiranjeevi, LP Reddy
Vegetable Science 29(2), 193-194
- 1110 Effect of nitrogen and phosphorus application on residual soil fertility and yield of hybrid brinjal in mollisol
UP Shahi, S Singh, BK Srivastava, MP Singh
Vegetable science 29(2), 195-196
- 1111 Management of sucking pests in chilli (*Capsicum annum* L.)
CH Chiranjeevi, IP Reddy, G Neeraja, M Narayanamma
Vegetable Science 29(2), 197-197
- 1112 Evaluation of vegetable amaranthus for yield and leaf blight resistance under Kerala conditions
VA Celine, C Gokulapalan, SR Nair
Vegetable Science 29(2), 198-199

Vegetable Science 30(1), 2003

- 1113 Genetic resources of underutilized vegetables and their regions of diversity
RK Arora
Vegetable Science 30(1), 1-9
- 1114 Marker aided selection for disease resistance in vegetable crops
S Kumar, S Kumar, M Singh, M Rai
Vegetable Science 30(1), 10-20
- 1115 Combining ability of quality and yield in tomato (*Lycopersicon esculentum* Mill.)
M Rai, AK Singh, RS Pan, VSR Krishnaprasad
Vegetable Science 30(1), 21-24
- 1116 Generation mean analysis for yield and yield traits in okra (*Abelmoschus esculentus* (L.) Moench)
PK Panda, KP Singh
Vegetable Science 30(1), 25-29

- 1117 Genetic analysis of green fruit yield and its components in chilli (*Capsicum annum* L. var. longum)
JA Patel, MJ Patel, RR Acharya, AS Bhanvadia, SB Patel, MK Bhalala
Vegetable Science 30(1), 30-33
- 1118 Stability analysis of bulb yield and its attributes in onion
DR Mehta, IJ Golani, MA Vaddoria, KL Dobaraya
Vegetable Science 30(1), 34-37
- 1119 Heterosis in relation to combining ability in brinjal (*Solanum melongena* L.)
HV Singh, SP Singh, S Singh, CBS Rajput
Vegetable Science 30(1), 38-41
- 1120 Gene actions for floral traits in tomato at high temperature
SK Dhankar, BS Dhankar, MK Banerjee
Vegetable Science 30(1), 42-44
- 1121 Combining ability and heterosis in November maturity group of cauliflower
SK Jindal, JC Thakur
Vegetable Science 30(1), 45-49
- 1122 Combining ability studies in brinjal (*Solanum melongena* L.)
V Kumar, NK Pathania
Vegetable Science 30(1), 50-53
- 1123 Evaluation of F₁ hybrids in bottle gourd (*Lagenaria siceraria* (Mol.) Standl.)
M Padma, G Neeraja, AS Padmavamma, IP Reddy, B Gautam
Vegetable Science 30(1), 54-56
- 1124 In vitro screening of tomato under NaCl stress (*Lycopersion esculentum* Mill.)
GJ Rani, G Balakrishnamurthy, N Chezhiyan
Vegetable Science 30(1), 57-59
- 1125 Fruit and seed quality development in okra [*Abelmoschus esculentus* (L.) Moench]
B Singh, RC Yadav, AK Pal, RGS Rao, M Rai
Vegetable Science 30(1), 60-63
- 1126 Component analysis in snapmelon (*Cucumis melo* var. *momordica*)
S Pandey, M Rai, D Ram, B Singh, PK Chaubey
Vegetable Science 30(1), 64-67
- 1127 Influence of plant nutrition and vegetable harvest on seed yield and quality in amaranthus (*Amaranthus tricolour*)
D Sukumar, S Rajan, M Joseph
Vegetable Science 30(1), 68-70
- 1128 Response of seed yield of garden pea (*Pisum sativum*) to various seed rate and fertility
R Singh, SS Singh
Vegetable Science 30(1), 71-73
- 1129 Distribution of important mineral contents in some promising carrot cultivars, grown in Central Himalayan region
HK Pandey, PS Rawat, N Kumar
Vegetable Science 30(1), 74-76
- 1130 Artificial screening against white rot for resistance sources in Asiatic group of cauliflower
KK Pandey, PK Pandey, B Singh
Vegetable Science 30(1), 77-78
- 1131 Genetic analysis for pod yield and quality traits in garden pea (*P. sativum* L. var. *hortense*)
N Singh, GS Dhillon
Vegetable Science 30(1), 79-80

- 1132 Genetic variability, heritability and genetic advance for quantitative characters in Indian cauliflower (*Brassica oleracea* var. *botrytis* L.)
RK Dubey, BP Singh, HH Ram
Vegetable Science 30(1), 81-82
- 1133 Gene action and combining ability studies for earliness in garden pea (*Pisum sativum* L.)
A Sharma, Vidyasagar, A Singh
Vegetable Science 30(1), 83-84
- 1134 Correlation studies in different translocation homozygotes of pea (*Pisum sativum* L.)
S Kumar, PC Sharma, BK Prasad, Kamaluddin
Vegetable Science 30(1), 85-86
- 1135 Response of French bean (*Phaseolus vulgaris* L.) to fertility levels and moisture regimes
G Singh, S Kumar, R Data, TP Singh, T Singh
Vegetable Science 30(1), 87-88
- 1136 Combining ability and gene action studies for earliness in tomato (*Lycopersicon esculentum* Mill.)
KC Sharma, S Verma, S Pathak
Vegetable Science 30(1), 89-90
- 1137 Genetics of earliness and vine length in ridge gourd [*Luffa acutangula* (Roxb.) L.]
NK Hedau, PS Sirohi
Vegetable Science 30(1), 91-92
- 1138 Heterosis in bottle gourd over three varied seasons
IB Maurya, SP Singh, NK Singh, R Kumar
Vegetable Science 30(1), 93-95
- 1139 Differentiation of plantlets from the leaf bit calli of tomato
GJ Rani, G Balakrishnamurthy, N Chazhiyan
Vegetable Science 30(1), 96-97
- 1140 In vitro propagation of asparagus (*Asparagus officinalis* L.)
AK Singh, M Singh, S Kumar
Vegetable Science 30(1), 98-100

Vegetable Science 30(2), 2003

- 1141 Prospects of grafting in vegetables: an appraisal
AK Pandey, M Rai
Vegetable Science 30(2), 101-109
- 1142 Identification of source of resistance to cowpea golden mosaic geminivirus
S Chakraborty, M Rajkumar Singh
Vegetable Science 30(2), 110-114
- 1143 Genetic divergence and path analysis for yield and its traits in Indian bean (*Lablab purpureus* L.)
N Rai, DS Yadav, BS Asati
Vegetable Science 30(2), 115-119
- 1144 Combining ability studies in radish (*Raphanus sativus* L.)
CN Kutty, PS Sirohi
Vegetable Science 30(2), 120-123
- 1145 Characterization of muskmelon (*Cucumis melo* L.) genotypes through SDS-PAGE of seed proteins
RK Yadav, HH Ram
Vegetable Science 30(2), 124-127
- 1146 Survey and surveillance of vegetable growing areas for prevalence of major diseases
KK Pandey, PK Pandey
Vegetable Science 30(2), 128-134

- 1147 Triple test cross analysis for yield and some component characters in bottle gourd
PP Singh, SP Singh, PK Singh
Vegetable Science 30(2), 135-137
- 1148 In vitro regeneration studies on effect of genotype, explant and media in garlic (*Allium sativum* L.)
A Khar, RD Bhutani, NR Yadav
Vegetable Science 30(2), 138-144
- 1149 Characterization of brinjal (*Solanum melongena* L.) germplasm
P Hazra, A Rout, U Roy, S Nath, T Roy, R Dutta, S Acharya, AK Mondal
Vegetable Science 30(2), 145-149
- 1150 Influence of thermal environment on phenological development and yield of snap melon (*Cucumis melo* var. *momordica*) genotypes in southern West Bengal
MK Pandit, A Saha, A Saha
Vegetable Science 30(2), 150-154
- 1151 Performance, intertrait relationship and Hierarchical clustering in advance lines of tomato (*Lycopersicon esculentum* Mill.)
M Rai, HC Parsana, A Singh, S Kumar, G Kalloo
Vegetable Science 30(2), 155-158
- 1152 Combining ability in chilli (*Capsicum annum* L.)
J Sabita, N Baruah
Vegetable Science 30(2), 159-160
- 1153 Estimation of heterosis using male sterile lines in tomato (*Lycopersicon esculentum*)
J Singh, S Singh
Vegetable Science 30(2), 161-163
- 1154 Evaluation of chili genotypes against anthracnose disease
HD Angadi, MK Naik, MG Patil, RG Patil
Vegetable Science 30(2), 164-165
- 1155 Identification of promising F₁ and F₂ segregants in okra (*Abelmoschus esculentus* L.)
S Sood, Y Singh, DR Chaudhary
Vegetable Science 30(2), 166-168
- 1156 Heterosis in ash gourd (*Benincasa hispida* (Thunb.) Cogn.)
J Mandal, PS Sirohi
Vegetable Science 30(2), 169-170
- 1157 Resistance in okra (*Abelmoschus esculentus* (L.) Moench) genotypes to yellow vein mosaic virus
PK Panda, KP Singh
Vegetable Science 30(2), 171-172
- 1158 Floral biology studies in chilli (*Capsicum annum* L.)
A SAXENA, JS Hunda, RK Dhal
Vegetable Science 30(2), 173-175
- 1159 Characterization of landraces of culinary melon (*Cucumis melo* L.) for growth and yield
R Rakhi, L Rajamony
Vegetable Science 30(2), 176-178
- 1160 Role of biofertilizers in solarized plot of babycorn
K Haripriya, S Kamalakannan, TU Maheswari
Vegetable Science 30(2), 179-181
- 1161 Response of foliar application of micronutrients on tomato variety-Hissar Arun
S Makhan, VK Batra, AK Bhatia, V Singh, SK Arora
Vegetable Science 30(2), 182-184

- 1162 Morphological characters of chilli (*Capsicum annuum* L.) as affected by vegetable picking and seed soaking with NAA
A Napoleon, A George
Vegetable Science 30(2), 185-186
- 1163 Effect of integrated nutrient management on yield, yield components and economics of drumstick (*Moringa oleifera* Lamk.) grown under rainfed conditions
M Prabhakar, SS Hebbar, M Devaraja
Vegetable Science 30(2), 187-189
- 1164 Genetic divergence in rajmash (*Phaseolus vulgaris* L.)
PK Chaubey, SP Singh, T Chaubey
Vegetable Science 30(2), 190-191
- 1165 Effect of organic manures and biofertilizers on growth, yield and quality attributes of broccoli (*Brassica oleracea* L. var. *italica* Plenck)
A Bahadur, J Singh, AK Upadhyay, KP Singh
Vegetable Science 30(2), 192-194
- 1166 Genetic studies of quantitative traits in brinjal (*Solanum melongena* L.)
AK Singh, RS Pan, M Rai, VSR Krishnaprasad
Vegetable Science 30(2), 195-197
- 1167 Effect of mulching and training on production potential of pointed gourd (*Trichosanthus dioica* Roxb.)
J Prakash, T Singh, BN Singh
Vegetable Science 30(2), 198-199

Vegetable Science 31(1), 2004

- 1168 Reaction of pepper genetic stocks to anthracnose
SJM Baruah, HA Rachid, M Barua
Vegetable Science 31(1), 1-6
- 1169 Identification, cloning and expression of coat protein gene of dolichos yellow mosaic virus
SK Singh, AK Singh, M Singh, PK Pandey, M Rai
Vegetable Science 31(1), 7-10
- 1170 Heterosis and combining ability for earliness in bottle gourd (*Lagenaria siceraria* (Mol.) Standl.)
SK Pandey, SBL Srivastava, NP Singh, JP Srivastava
Vegetable Science 31(1), 11-16
- 1171 Line x tester analysis for early yield components in vegetable pea (*Pisum sativum* L.)
AJ Gupta, YV Singh
Vegetable Science 31(1), 17-21
- 1172 Genetic variation and character association in photo-insensitive Dolichos bean (*Lablab purpureus* L. Sweet)
RS Pan, AK Singh, M Rai, VSR Krishnaprasad, S Kumar
Vegetable Science 31(1), 22-25
- 1173 Inheritance of yield and component traits in brinjal (*Solanum melongena* L.)
G Kumar, JP Srivastava, SK Singh
Vegetable Science 31(1), 26-29
- 1174 Comparison between graphical analysis (WR-VR Graph) and numerical approach for determination of gene action in round fruited brinjal (*Solanum melongena* L.)
B Panda, YV Singh, HH Ram
Vegetable Science 31(1), 30-35
- 1175 Evaluation of vermi-compost in offseason cultivation of beans (*Phaseolus vulgaris* L.) under plyhouse
R Singh, R Singh, DS Bhakuni, N Kumar
Vegetable Science 31(1), 36-39

- 1176 Response of bell pepper (*Capsicum annuum*) cultivars to foliar application of magnesium, boron and zinc
RK Pal, TK Behera, N Sen, M Singh
Vegetable Science 31(1), 40-44
- 1177 Integrated disease management of vegetable nursery
KK Pandey, PK Pandey, KK Mishra
Vegetable Science 31(1), 45-50
- 1178 Heterosis for fruit yield and its components in bitter melon (*Momordica charantia* L.)
AK Chaubey, HH Ram
Vegetable Science 31(1), 51-53
- 1179 Self-incompatibility in open-pollinated varieties of radish
CN Kutty, PS Sirohi
Vegetable Science 31(1), 54-56
- 1180 Evaluation of tomato genotypes for late summer crop by use of stress related parameters
H Singh, DS Cheema
Vegetable Science 31(1), 57-59
- 1181 Phenotypic stability analysis in tomato (*Lycopersicon esculentum* Mill.)
LK Dhaduk, DR Mehta, HM Pandya
Vegetable Science 31(1), 60-62
- 1182 Effect of GA3 and NAA on vegetative growth, yield and quality of garden pea (*Pisum sativum* L.)
AK Pandey, KT Sunil, PM Singh, M Rai
Vegetable Science 31(1), 63-65
- 1183 Effect of irrigation and nitrogen fertilization on yield and quality of pumpkin (*Cucurbita moschata* Poir.)
SH Ansary, P Ghanti, U Thapa
Vegetable Science 31(1), 66-68
- 1184 Response of fertility levels and plant density on growth, yield and quality of hybrid cabbage
SK Singh, T Singh, BN Singh, RB Verma
Vegetable Science 31(1), 69-72
- 1185 Effect of pod position and stage of harvesting on the seed quality of okra [*Abelmoschus esculentus* (L.) Moench]
MK Verma, BK Srivastava, MP Singh
Vegetable Science 31(1), 73-74
- 1186 Effect of spacing, phosphorus and potassium fertilization on yield of tomato under cold arid condition of Ladakh
AK Singh
Vegetable Science 31(1), 75-77
- 1187 Nutrient uptake affected by irrigation method and micronutrient applications in tomato hybrid Avinash-2
B Agrawal, HG Sharma, A Pandey
Vegetable Science 31(1), 78-82
- 1188 Inter and intra truss variation for seed quality and quantity of tomato (*Lycopersicon esculentum* Mill.)
DS Cheema, DMC Dissanayake, G Bassi
Vegetable Science 31(1), 83-85
- 1189 Date of harvest and its effects on shelf life and quality of baby corn (*Zea mays* L.)
VS Vani, V Shankaraiah, YN Reddy
Vegetable Science 31(1), 86-88
- 1190 Vegetable Science 31, 92-94 3 2004 Relationship between seed imbibition and seedling emergence in tomato (*Lycopersicon esculentum* Mill.)
PM Singh, RGS Rao, LP Sahoo, M Rai
Vegetable Science 31(1), 89-91

- 1191 Effect of planting geometry and fertilizer levels on growth and yield of red cabbage under high hill dry temperate conditions of North-Western Himalayas
A Sharma, R Kumar, MC Rana
Vegetable Science 31(1), 92-94
- 1192 Effect of PGR on growth, flowering and yield of pole type French bean cv. Maghalaya Local
N Rai, RK Patel, DS Yadav, BS Asati
Vegetable Science 31(1), 95-97
- 1193 Response of tomato to foliar feeding of water soluble fertilizers
BD Yadav, RB Khandelwal, YK Sharma
Vegetable Science 31(1), 98-100

Vegetable Science 31(2), 2004

- 1194 Fertility restoration in pepper (*Capsicum annum* L.) inheritance and screening of inbred lines
S Kumar, SK Rai, M Singh, M Rai
Vegetable Science 31(2), 101-106
- 1195 Response of exogenous growth regulators on callus proliferation and morphogenesis on mature embryo culture of onion (*Allium cepa* L.)
S Tiwari, MK Tripathi, UK Khare, SK Pathak
Vegetable Science 31(2), 107-111
- 1196 Genetics of yield and horticultural traits in tomato (*Lycopersicon esculentum* Mill.)
A Joshi, A Vikram, KS Thakur
Vegetable Science 31(2), 112-117
- 1197 Genetic analysis of yield and its component characters in tomato (*Lycopersicon esculentum*) under low temperature
D Chahal, M Dhaliwal, D Ruma
Vegetable Science 31(2), 118-124
- 1198 Genetic divergence in brinjal
RB Babu, RV Patil
Vegetable Science 31(2), 125-128
- 1199 Heterosis and combining ability in sathputia (*Luffa hermaphrodita*)
D Ram, M Rai, AK Verma, S Pandey
Vegetable Science 31(2), 129-134
- 1200 Combining ability analysis in chilli (*Capsicum annum* L.)
JP Srivastava, NP Singh, DK Srivastava
Vegetable Science 31(2), 135-137
- 1201 Genetic analysis in French bean (*Phaseolus vulgaris* L.)
N Rai, BS Asati, DS Yadav, AK Singh
Vegetable Science 31(2), 138-141
- 1202 Genetic diversity in brinjal (*Solanum melongena* L.)
DR Mehta, IJ Golani, HM Pandya, RK Patel, MV Naliyadhara
Vegetable Science 31(2), 142-145
- 1203 Heterosis for yield and its contributing attributes in brinjal (*Solanum melongena* L.)
AK Singh, RS Pan, R Mathura, VSR Krishnaprasad
Vegetable Science 31(2), 146-148
- 1204 Seed germinability and vigour as influenced by fruit position, season and gravity separation in okra (*Abelmoschus esculentus* L. Moench)
RGS Rao, PM Singh, B Singh, AK Pandey, M Rai
Vegetable Science 31(2), 149-154

- 1205 Genetic of cowpea golden yellow mosaic geminivirus resistance in cowpea (*Vigna unguiculata* L.)
R Kumar, SP Singh, R Chand
Vegetable Science 31(2), 155-157
- 1206 Heterosis in bacterial wilt resistant lines of brinjal (*Solanum melongena* L.)
V Kumar, NK Pathania
Vegetable Science 31(2), 158-160
- 1207 Correlation and path analysis in brinjal (*Solanum melongena* L.)
O Singh, J Kumar
Vegetable Science 31(2), 161-163
- 1208 Heterosis and combining ability in Indian cauliflower (*Brassica oleracea* var. *botrytis* L.)
SK Dixit, BP Singh, H Ram
Vegetable Science 31(2), 164-167
- 1209 Heterosis for yield and yield components in okra (*Abelmoschus esculentus* (L.) Moench)
B Singh, S Singh, AK Pal, M Rai
Vegetable Science 31 (2), 168-171
- 1210 Character association for seed yield in rajmash bean (*Phaseolus vulgaris* L.)
KP Singh, AK Singh, VK Yadav
Vegetable Science 31(2), 172-174
- 1211 Genetic divergence in snake gourd (*Trichosanthes anguina* L.)
C Narayanankutty, CK SUNANDA, U Jaikumaran
Vegetable Science 31(2), 175-176
- 1212 Heterosis for net head weight and vit 'C' in cabbage (*Brassica oleracea* var. *capitata*)
V Pandey, HK Pandey, Z Ahmed, N Kumar
Vegetable Science 31(2), 177-178
- 1213 Influence of plant nutrition and vegetable harvest on seed yield and quality in amaranth (*Amaranthus tricolor*)
D Sukumar, S Rajan, M Joseph
Vegetable Science 31(2), 179-180
- 1214 Dissipation pattern of dimethoate residue in cabbage
PK Pandey, TM Shivalingaswamy, KK Pandey, N De, S Satpathy, ...
Vegetable Science 31(2), 181-182
- 1215 Influence of harvesting time on physicotextural changes in fruits of bell pepper (*Capsicum annum* L.)
RK Pal, TK Behera, M Singh, N Sen
Vegetable Science 31(2), 183-185
- 1216 Effect of glomus mosseae and *Azospirillum lipoferum* inoculation on growth and yield of onion (*Allium cepa* L.) cv. B-780
AM Navale, PV Wani
Vegetable Science 31(2), 186-189
- 1217 Effect of plant geometry and nitrogen on growth, yield and quality of tomato
BN Singh, RB Verma, SK Singh, SK Singh
Vegetable Science 31(2), 190-192
- 1218 Effect of biofertilizers, FYM, NPK, and lime on pea in acidic soils of Uttaranchal Hills
S Negi, RV Singh, GK Dwivedi
Vegetable Science 31(2), 193-195
- 1219 Economics of sweet pepper (*Capsicum annum* L. var. *grossum*) production under polyhouse condition
S Sasikala, S Natarajan
Vegetable Science 31(2), 196-198
- 1220 Effect of dates of planting and spacing on growth and yield in leek (*Allium porrum* L.) cv. Musselburgh
DK Sharma, BL Koul
Vegetable Science 31(2), 199-200

Vegetable Science 32(1), 2005

- 1221 Micronutrient disorders and management in vegetable crops: a review
N De, M Rai
Vegetable Science 32(1), 1-10
- 1222 In vitro screening of tomato genotypes for drought resistance using polyethylene glycol (PEG)
M Kulkarni, UD Deshpandey
Vegetable Science 32(1), 11-14
- 1223 Distinguishing certain released varieties of brinjal, French bean and pea by SDS-PAGE
HH Ram, K Sharma, HR Jaiswal
Vegetable Science 32(1), 15-18
- 1224 Morphological and biochemical variability in pea (*Pisum sativum* L.)
G Kalloo, M Rai, J Singh, M Verma, R Kumar, GK Rai, Vishwanath
Vegetable Science 32(1), 19-23
- 1225 Genetics of resistance against shoot and fruit borer (*Leucinodes orbonalis* Guen.) in brinjal
N Rai, DS Yadav, KK Patel, RK Yadav, AB Rai
Vegetable Science 32(1), 24-26
- 1226 Additive, dominance and epistatic variation for fruit yield and its component traits in cucumber
BP Shahi, J Dixit, PK Singh
Vegetable Science 32(1), 27-29
- 1227 Diallel analysis for yield and its components in okra
SK Jindal, TR Ghai
Vegetable Science 32(1), 30-32
- 1228 Heterosis and combining ability in ash gourd [*Benincasa hispida* (Thunb.) Cogn.]
S Pandey, M Rai, B Singh, AK Pandey
Vegetable Science 32(1), 33-36
- 1229 Genetic analysis of dry fruit yield and its component in chilli (*Capsicum annum* L.)
RC Jagadeesha, MC Wali
Vegetable Science 32(1), 37-40
- 1230 Combining ability for yield, quality and physiological characters in summer grown brinjal
Y Suneetha, KB Kathiria, PK Kathiria, T Srinivas
Vegetable Science 32(1), 41-43
- 1231 Genetics of earliness in brinjal (*Solanum melongena* L.)
N Rai, DS Yadav, KK Patel, RK Yadav
Vegetable Science 32(1), 44-46
- 1232 Heterosis and combining ability in tomato
V Premalakshmi, T Thangaraj, T Veeraragavathatham, Arumugam
Vegetable Science 32(1), 47-50
- 1233 Effect of organic nutrition in sprouting broccoli (*Brassica oleracea* L. var. *italica* Plenck)
B Chatterjee, P Ghanti, U Thapa, P Tripathy
Vegetable Science 32(1), 51-54
- 1234 Influence of mulching on growth and yield of tomato (*Solanum lycopersicum* L.) in north Indian plains
R Singh
Vegetable science 32(1), 55-58
- 1235 Integrated nutrient management influences yield and nodulation of pea
RK Singh, J Singh, N De, M Rai
Vegetable Science 32(1), 59-61
- 1236 Integrated nutrient management in cauliflower (*Brassica oleracea* var. *botrytis* L.)
M Narayanamma, CH Chiranjeevi, IP Reddy, SR Ahmed
Vegetable Science 32(1), 62-64

- 1237 Identification of arbuscular mycorrhizal fungi from rhizosphere soils of solanaceous crops in bacterial wilt areas of Kerala
KS Gopal, SK Mathew, A Kumar, KS binimol
Vegetable Science 32(1), 65-68
- 1238 Performance of improved varieties of Solanaceous vegetable crops at farmers' field in eastern Uttar Pradesh
M Rai, N Singh, B Singh, M Singh
Vegetable Science 32(1), 69-72
- 1239 Compositional differences of stem and floral portions of broccoli under different organic manures and natural growth promoters
SK Sanwal, N Rai, DS Yadav, RK Yadav
Vegetable Science 32(1), 73-75
- 1240 Generation mean analysis of yield and anthracnose resistance in chilli (*Capsicum annuum* L.)
PM Ajith, PM Anju
Vegetable Science 32(1), 76-77
- 1241 Variability studies in annual moringa
S Raja, BG Bagle
Vegetable Science 32(1), 78-79
- 1242 Effect of curd cutting techniques at different curd stages on seed production in Indian cauliflower (*Brassica oleracea* var. *botrytis* L.)
B Singh, AK Singh, S Pandey, M Rai
Vegetable Science 32(1), 80-81
- 1243 Combining ability studies of yield and its contributing traits in tomato (*Lycopersicon esculentum* Mill.)
AK Singh, RS Pan, M Rai
Vegetable Science 32(1), 82-83
- 1244 Genetic divergence for yield and its contributing traits in French bean (*Phaseolus vulgaris*)
SK Gupta, A Joshi
Vegetable Science 32(1), 84-85
- 1245 Studies on heterosis and mean performance in brinjal (*Solanum melongena* L.)
M Prabhu, S Natarajan, L Pugalendhi
Vegetable Science 32(1), 86-87
- 1246 Correlation and path coefficient analysis in sweet pepper (*Capsicum annuum* var. *grossum* L.)
G Nazir, R Narayan, K Hussain, N Ahmed, K Bhat
Vegetable Science 32(1), 88-89
- 1247 Screening for heat tolerance in tomato (*Solanum lycopersicum* L.)
R Singh, S Singh, DS Cheema, MS Dhaliwal
Vegetable Science 32(1), 90-91
- 1248 Response of okra to foliar feeding of water soluble fertilizers
V Sundaram, V Kanthaswamy
Vegetable Science 32(1), 92-93
- 1249 Effect of Azotobacter inoculation with nitrogen levels on quality characters of tomato
SKS Bhadoria, YC Dwivedi, SS Kushwah
Vegetable Science 32(1), 94-95
- 1250 Effect of sowing season on seed yield and related attributes in Okra
S Kumar, JS Kuwar
Vegetable Science 32(1), 96-97
- 1251 Effect of mulch material on soil hydrothermal regimes, growth and fruit yield of brinjal under arid conditions
OP Awasthi, IS Singh, BD Sharma
Vegetable Science 32(1), 98-99

- 1252 Reaction of pole bean accessions against *Helicoverpa armigera* (Hubner)
HS Singh, RS Pan, M Rai
Vegetable Science 32(1), 100
- 1253 Influence of bulb size and spacing on onion seed production in Leh (Ladakh)
S Narendra, Z Ahmed
Vegetable science 32(1), 101-102
- 1254 Biointensive management of eggplant shoot and fruit borer (*Leucinodes orbonalis* Guen.)
S Satpathy, TM Shivalingaswamy, A Kumar, AB Rai, M Rai
Vegetable Science 32(1), 103-104
- 1255 Evaluation of IPM Module for the management of Brinjal Shoot & Fruit Borer
CH Chiranjeevi, M Narayanamma, G Neeraja
Vegetable Science 32(1), 105-106
- 1256 Artificial screening technique and sources of resistance to downy mildew disease in bitter gourd
KK Pandey, D Ram, PK Pandey, M Rai
Vegetable Science 32(1), 107-108

Vegetable Science 32(2), 2005

- 1257 Sustaining potato processing in India: impact of indigenous varieties
SK Pandey, RS Marwaha, SV Singh, D Kumar
Vegetable Science 32(2), 109-113
- 1258 Inter-specific hybridization in *Solanum melongena* and *Solanum gilo* species for resistance against Fusarium wilt and shoot and fruit borer
N Rai, DS Yadav, KK Patel, RK Yadav, AB Rai
Vegetable Science 32(2), 114-116
- 1259 Characterization of germplasm lines of cucumber (*Cucumis sativus* L.) through seed protein profiles
A Singh, HH Ram
Vegetable Science 32(2), 117-119
- 1260 Stability analysis for growth and yield attributes in brinjal
SNS Chaurasia, M Singh, R Mathura
Vegetable Science 32(2), 120-122
- 1261 Genetics of Polygalacturonase activity in relation to shelf life governing traits in tomato (*Solanum lycopersicum* L.)
A Joshi
Vegetable Science 32(2), 123-128
- 1262 Analysis of genetic divergence of dolichos bean (*Lablab purpureus*) genotypes
H Lal, M Rai, A Verma, Vishwanath
Vegetable Science 32(2), 129-132
- 1263 Heterosis for yield and its component in cucumber (*Cucumis sativus* L.)
AD Munshi, R Kumar, B Panda
Vegetable Science 32(2), 133-135
- 1264 Correlation and path coefficient analysis in Asiatic carrot (*Daucus carotavar. sativa*) B Singh, S Pandey, AK Pal, J Singh, M Rai
Vegetable Science 32 (2), 136-139
- 1265 Combining ability analysis for yield and its components in bottle gourd [*Lagenaria siceraria* (Mol.) Standl.]
PG Sreevani
Vegetable Science 32(2), 140-142
- 1266 Heterosis in cucumber
S Panday, B Singh, M Singh, M Rai
Vegetable Science 32(2), 143-145

- 1267 Effect of inorganic and biofertilizers on production of cauliflower (*Brassica oleracea* L. var. *botrytis*)
VN Singh, SS Singh
Vegetable Science 32(2), 146-149
- 1268 Growth characters of chilli (*Capsicum annum* L.) as influenced by varying levels of fertilizers in combination with Fluorescent *pseudomonas* and *Azospirillum*
V Anu, KE Syriac, PIP Yadav, VL Geethakumari
Vegetable Science 32(2), 150-153
- 1269 Phosphate dynamics in okra (*Abelmoschus esculentus* L. Moench)
D Nirmal, B Singh, R Mathura, G Kalloo
Vegetable Science 32(2), 154-157
- 1270 Effect of foliar application of micronutrients on nutrient uptake in tomato
L Bhatt, BK Srivastava
Vegetable Science 32(2), 158-161
- 1271 Optimization of thickener and acid level in tomato ketchup
AK Singh, M Singh, Sudhir, Rai, A Verma
Vegetable Science 32(2), 162-165
- 1272 Dissipation pattern of indoxacarb and thiamethoxam residues in vegetables
D Sharma, S Mohapatra
Vegetable Science 32(2), 166-168
- 1273 Integrated management of leaf blight of *Amorphophallus paeoniifolius* Blume
R Singh, RS Yadav, V Singh, PP Singh
Vegetable Science 32(2), 169-172
- 1274 Correlation and path coefficient analysis in bitter gourd (*Momordica charantia* L.)
SS Dey, TK Behera, A Pal, AD Munshi
Vegetable Science 32(2), 173-176
- 1275 Genetic analysis of yield and its components in tomato
M Rai, AK Singh, RS Pan, VSR Krishnaprasad
Vegetable Science 32(2), 177-178
- 1276 Genetic divergence in spine gourd
LK Bharathi, G Naik, DK Dora
Vegetable Science 32(2), 179-181
- 1277 Genotype x environment interaction in cucumber (*Cucumis sativus* L.)
S Das, DN Chaudhary, KR Maurya
Vegetable Science 32(2), 182-183
- 1278 Genetic variability studies in chow-chow (*Sechium edule* SW)
N Rai, RK Yadav, DS Yadav
Vegetable Science 32(2), 184-186
- 1279 Studies on pollination and breeding behaviour in moringa (*Moringa oleifera* Lam)
V Kanthaswamy
Vegetable Science 32(2), 187-188
- 1280 Study of polygenic traits in off season bottle gourd (*Lagenaria siceraria* (Mol) Stand L.)
D Ram, RS Singh, S Pandey, M Rai
Vegetable Science 32(2), 189-191
- 1281 Fruit and seed yield of capsicum lines and hybrids as influenced by environment
Z Ahmed, HC Tiwari, V Pandey, N Kumar
Vegetable Science 32(2), 192-193
- 1282 Integrated nutrient management in tomato (*Solanum lycopersicum* L.) under semi-arid region of Punjab
R Singh, R Asrey
Vegetable Science 32(2), 194-195

- 1283 Storage potential of seed germplasm of radish
SD Doijode
Vegetable Science 32(2), 196-197
- 1284 Organic nutrition in amaranthus (*Amaranthus tricolor* L.)
VL Geethakumari, S Santhoshkumar, UC Thomas, A George, MS Sindhu
Vegetable Science 32(2), 198-199
- 1285 Optimum nitrogen and phosphorus fertilization in hybrid capsicum
LC Vijay, RV Singh, M Raghav
Vegetable Science 32(2), 200-202
- 1286 Response of Cowpea (*Vigna Unguiculata* L. Walp.) to phosphorus levels and microbial inoculation
JS Singh, BN Singh, T Singh
Vegetable Science 32(2), 203-204
- 1287 Rodent infestation and its control in brinjal
DK Kocher, R Kaur
Vegetable Science 32(2), 205-206
- 1288 Evaluation of non-chemical IPM module for the management of brinjal shoot and fruit borer
LK Rath, B Dash
Vegetable Science 32(2), 207-209
- 1289 Study of sucking and leaf feeding insect in relation to weather parameters on the brinjal crop
S Singh, A Kumar, BK Awasthi
Vegetable Science 32(2), 210-212

Vegetable Science 33(1), 2006

- 1290 Molecular characterization of promising genotypes in bottle gourd including a novel segmented leaf type through RAPD
HH Ram, K Sharma, HR Jaiswal
Vegetable Science 33(1), 1-4
- 1291 Heterosis and combining ability analysis in tomato (*Solanum lycopersicon* Mill.) for yield and yield contributing traits
V Premalakshme, T Thangaraj, Veeraragavathatham, T Arumugam
Vegetable Science 33(1), 5-9
- 1292 Protein profiling study of indigenous germplasm lines of pumpkin (*Cucurbita moschata* Duch. ex. Poir.)
K Jagesh, DK Singh, HH Ram
Vegetable Science 33(1), 10-12
- 1293 Line x tester analysis for yield and quality characters in tomato (*Solanum lycopersicon* (Mill.) Wettstd.)
SK Pandey, J Dixit, VN Pathak, PK Singh
Vegetable Science 33(1), 13-17
- 1294 Characterization of bottle gourd germplasm based on SDS-PAGE of seed protein
M Upadhyay, HH Ram
Vegetable Science 33(1), 18-20
- 1295 Genetic divergence in chilli (*Capsicum annum* var. *longum* (D. C.) Sendt.)
SM Gogate, RK Patel, MJ Patel, JA Patel
Vegetable Science 33(1), 21-25
- 1296 Effect of fertigation on growth, yield and water use efficiency in tomato (*Lycopersicon esculentum* Mill.)
B Anant, KP Singh, R Mathura
Vegetable Sciences 33(1), 26-28
- 1297 Influence of fertility levels and seasons on maturity and morphological traits of cabbage
T Chaubey, BK Srivastava, M Singh, PK Chaubey, M Rai
Vegetable Science 33(1), 29-33

- 1298 Effect of irrigation on yield and quality of onion
R Sharda, G Mahajan, MP Kaushal, N Chawla, SS Bal
Vegetable Science 33(1), 34-37
- 1299 Effect of chemical treatments on storage of dried chilli cv. LCA334
K Umajyoti, C Ravi Shankar
Vegetable Science 33(1), 38-44
- 1300 Integrated management of collar rot of *Amorphophallus paeoniifolius* Blume caused by *Sclerotium rolfsii* Saccardo
R Singh, PP Singh, V Singh
Vegetable Science 33(1), 45-49
- 1301 Extent of crop loss due to serpentine leaf miner (*Liriomyza trifolii* B.) On tomato crop
RK Singh, P Nath
Vegetable Science 33(1), 50-54
- 1302 Spinosad: A new molecule for management diamond back moth (*Plutella xylostella* L.) in cauliflower
TM Shivalingaswami, A Kumar, S Satapathy, AB Rai, M Rai
Vegetable Science 33(1), 55-57
- 1303 Efficacy of certain ecofriendly insecticides against serpentine leaf miner (*Liriomyza trifolii* B.) on tomato.
P Nath, RK Singh
Vegetable Science 33(1), 58-62
- 1304 Cause and effect analysis of yield in off season bitter gourd (*Momordica charantia* L.)
D Ram, N Rai, HK Singh, A Verma, S Pandey, A Kumar
Vegetable Science 33(1), 63-64
- 1305 Genetic analysis for green fruit yield and its components in chilli (*Capsicum annum* var. longum (D.C.) Sendt.)
RK Patel, MJ Patel, JA Patel
Vegetable Science 33(1), 65-67
- 1306 Combining ability analysis in brinjal (*Solanum melongena* L.)
GS Bisht, MC Singh, M Singh, SK Singh, M Rai
Vegetable Science 33(1), 68-70
- 1307 Genetic divergence in okra (*Abelmoschus esculentus* (L.) Moench)
M Kumari, DN Chaudhury
Vegetable Science 33(1), 71-72
- 1308 Combining ability in bell pepper
S Sood, S Kaul
Vegetable Science 33(1), 73-75
- 1309 Combining ability studies in tomato [*Solanum lycopersicon* (Mill.) Wettstd.]
K Veer, VK Sharma, SP Uniyal
Vegetable Science 33(1), 76-78
- 1310 Discriptive changes during the development of fruits and seeds in ash gourd (*Benincasa hispida* (Thunb) Cong.)
P Murugation, K Vanangamudi
Vegetable Science 33(1), 79-81
- 1311 Genetic variability for curd yield and its component traits in cauliflower (*Brassica oleracea* var. botrytis L.) under high hills dry temperate conditions
A Sharma, S Sharma, S Pathak, S Sood
Vegetable Science 33(1), 82-84
- 1312 Combining ability in tomato [*Solanum lycopersicon* (Mill.) Wettstd.]
PK Singh, B Singh, JP Singh, S Singh
Vegetable Science 33(1), 85-87

- 1313 Effect of nutrient on yield and root parameters in vegetable pea
RK Singh, J Singh, N De, M Rai
Vegetable Science 33(1), 88-90
- 1314 Effect of growth hormones and chemicals on growth, yield and quality of moringa varieties
V Kanthaswami
Vegetable Science 33(1), 91-93
- 1315 Influence of water soluble fertilizers on yield of brinjal
M Narayanamma, C Saireddy, CH Chiranjeevi, IP Reddy
Vegetable Science 33(1), 94-95
- 1316 Response of tomato to foliar application of watersoluble fertilizers
SNS Chaurasia, KP Singh, M Rai
Vegetable Science 33(1), 96-97
- 1317 Reaction of segregating populations for tomato leaf curl virus (TLCV) resistance by artificial screening in tomato
M Thangam, D Veeraragavathatham
Vegetable Science 33(1), 98-100
- 1318 Screening of okra genotypes based on leaf shape index
SR Karri, P Acharya
Vegetable Science 33(1), 101-102
- 1319 Genetic divergence in French bean (*Phaseolus vulgaris* L.)
AK Singh
Vegetable Science 33(1), 103-105
- 1320 Identification of yield attributes in bottle gourd for rainfed condition
S Raja, BG Bagle, DG Dhandar
Vegetable Science 33(1), 106-108

Vegetable Science 33(2), 2006

- 1321 Insect transmitted viruses of pepper: a review
S Prakash, SJ Singh
Vegetable Science 33(2), 109-116
- 1322 Qualitative inheritance of segmented leaf shape in bottle gourd (*Lagenaria siceraria* (Molina) Standl.).
T Akhilesh, HH Ram
Vegetable Science 33(2), 117-121
- 1323 Stability analysis for tomato leaf curl virus (ToLCV) resistance in tolerant genotypes of tomato by additive main effects and multiplicative interaction (AMMI) model
M Thangam, D Veeraragavathatham
Vegetable Science 33(2), 122-125
- 1324 Studies on yield and quality traits in tomato (*Solanum lycopersicon* (Mill.) Wettst.)
R Kumar, NK Mishra, J Singh, GK Rai, A Verma, M Rai
Vegetable Science 33(2), 126-132
- 1325 Stability analysis for marketable head yield and its contributing horticultural traits in cabbage under high hills dry temperate conditions
A Sharma, S Sharma, C Parkash
Vegetable Science 33(2), 133-137
- 1326 Response of okra (*Abelmoschus esculentus* L.) cultivars to water stress: Carbon exchange rate and seed setting
RM Bhatt, NKS Rao
Vegetable Science 33(2), 138-144

- 1327 Stability analysis of yield and its components in bush type French bean
RS Pan, AK Singh, M Rai, S Kumar
Vegetable Science 33(2), 145-148
- 1328 Multivariate genetic analysis of pea (*Pisum sativum* L.)
M Rai, A Verma, R Kumar, Vishwanath
Vegetable Science 33(2), 149-154
- 1329 Integrated nutrient management for quantitative and qualitative yield of French bean (*Phaseolus vulgaris* L.)
PK Rajput, ON Singh, Y Singh, JP Singh
Vegetable Science 33(2), 155-159
- 1330 Ginger-based intercropping: highly profitable and sustainable in mid hill agro climatic conditions of North East Hill Region
SK Sanwal, RK Yadav, DS Yadav, N Rai, PK Singh
Vegetable Science 33(2), 160-163
- 1331 Field efficacy of methomyl against thrips, *S. dorsalis* (H.) in chilli. 2006
S Satpathy, A Kumar, AB Shivalingaswamy, M Rai
Vegetable Science 33(2), 164-167
- 1332 Bioefficacy of *Catenaria anguillulae* on *Meloidogyne incognita* causing root knot of brinjal (*Solanum melongena* L.)
KP Singh, RC Gupta
Vegetable Science 33(2), 168-172
- 1333 Improvement in nutritive values of tomato ketchup with pumpkin as thickener
AK Singh, M Rai, S Singh, A Verma
Vegetable Science 33(2), 173-177
- 1334 Heterosis in intraspecific hybrids for quantitative traits of bell pepper
S Sood, S Kaul
Vegetable Science 33(2), 178-179
- 1335 Effect of plant growth regulators on growth, yield and quality of tomato (*Solanum lycopersicon* Mill.) grown under mid hill of Meghalaya
N Rai, DS Yadav, KK Patel, RK Yadav, BS Asati, T Chaubey
Vegetable Science 33(2), 180-182
- 1336 Genetic components analysis for pod yield and its related traits in Indian bean (*Lablab purpureus* var. *typicus*)
AR Tukadiya, KB Kathiria, KG Modha
Vegetable Science 33(2), 183-184
- 1337 Study the genetic components of pod yield and yield components in 9 parents
KB Kathiria, KG Modha
Vegetable Science 33(2), 183-184
- 1338 Combining ability studies for economic attributes in muskmelon (*Cucumis melo* L.)
BR Choudhary, MS Fageria, S Pandey, M Rai
Vegetable Science 33(2), 185-187
- 1339 Genetic architecture of yield and its component traits in bottle gourd [*Lagenaria siceraria* (Molena) Standl.]
NP Singh, AK Dubey, JP Srivastava
Vegetable Science 33(2), 188-189
- 1340 Heterosis for fruit yield and its components in tomato (*Solanum lycopersicon* (Mill.) Wettstd.)
AK Singh, RS Pan, M Rai
Vegetable Science 33(2), 190-191

- 1341 Detection of epistasis and genetic components for quality traits and powdery mildew incidence in garden pea (*Pisum sativum* L.)
G Singh, A Sharma
Vegetable Science 33(2), 192-193
- 1342 Studies on combining ability in bottle gourd
SK Singh, B Singh, GS Bisht, D Ram, M Rai
Vegetable Science 33(2), 194-195
- 1343 Influence of integrated nutrient management on growth of gherkin (*Cucumis sativus* L.) Cv. Ajax hybrid
P Sareedha, A Amburani, J Samruban
Vegetable Science 33(2), 196-197
- 1344 Response of nutrient sources and spacing on growth and yield of broccoli (*Brassica oleracea* var. Italica Plenck)
R Singh, SNS Chaurasia, SN Singh
Vegetable science 33(2), 198-200
- 1345 Characterization of recombinant inbred lines (RILs) of *Capsicum annum* L
TK Singh, S Kumar, M Singh, S Kumar, G Singh, M Rai
Vegetable Science 33(2), 201-202
- 1346 Seasonal dynamics and management of pumpkin caterpillar, *Diaphania indica* saunders and fruit fly, *Bactrocera cucurbitae* Conq. in bitter gourd
HS Singh, G Naik
Vegetable Science 33(2), 203-205
- 1347 First report of teleomorph in *Colletotrichum acutatum* on pepper (*Capsicum annum* L.)
KK Pandey, TC Wang, JF Wang, M Rai, AB Rai
Vegetable Science 33(2), 206-208
- 1348 Histological changes associated with chilli leaf curl
VY Solanki, AB Rai
Vegetable Science 33(2), 209-211
- 1349 Dissipation pattern of endosulfan residue in/on tomato fruits
PK Pandey, TM Shivalingaswamy, KK Pandey, N De, S Satpathy, ...
Vegetable Science 33(2), 212-213
- 1350 Bioefficacy of chitin synthesis inhibitors alone and in combination with cartap hydrochloride against diamond back moth, (*Plutella xylostella* L.) infesting cabbage
CR Goud, SRK Rao, C Chiranjeevi
Vegetable Science 33(2), 214-215
- 1351 Performance appraisal of okra varieties in farmer's field
N Singh, MRB Singh, AB Rai
Vegetable Science 33(2), 216-218

Vegetable Science 34(1), 2007

- 1352 Yellow mite (*Polyphago tarsonemus* Latus Banks) menace in chilli crop
AB Rai, S Satpathy, RG Gracy, TMS Swamy, M Rai
Vegetable Science 34(1), 1-13
- 1353 Spectrum and frequency of induced macro-mutations in M₂ generation of French bean (*Phaseolus vulgaris* L.).
M Sood, P NK
Vegetable Science 34(1), 14-17
- 1354 Effect of different artificial methods of pollination on fruit setting and subsequent development of fruits in pointed gourd
R Das, SK Mandal, TK Malty
Vegetable Science 34(1), 18-20

- 1355 Genetic diversity in tomato leaf curl resistant varieties and relationships among some species of solanum using RAPD markers
HC Prasanna, S Hittalmani, HC Lohithaswa, V Muniyappa
Vegetable Science 34(1), 21-25
- 1356 Studies on processing and nutritional qualities of tomato as influenced by genotypes and environment
I Chakraborty, CA Vanalliani, P Hazra
Vegetable Science 34(1), 26-31
- 1357 Impact of different mating approaches in generating variability in brinjal (*Solanum milongena* L.)
HR Dhameliya, KL Dobariya
Vegetable Science 34(1), 32-36
- 1358 Combining ability and gene action studies for salinity tolerance in tomato (*Solanum lycopersicum* Mill.)
S Kavitha, K Sekar, Kalyanasundaram
Vegetable Science 34(1), 37-39
- 1359 Genotypic variation and hierarchical clustering of tomato (*Solanum lycopersicum*) based on morphological and biochemical traits
J Singh, M Rai, R Kumar, HC Prasanna, A Verma, GK Rai, AK Singh
Vegetable Science 34(1), 40-45
- 1360 Assessment of yield loss and resistance to yellow mite *Polyphago tarsonemus* Latus. Banks in chilli
HR Desai, KA Bandhanja, AB Rai, AJ Patel, MB Patel
Vegetable Science 34(1), 46-50
- 1361 Heterosis and combining ability in soybean for the traits of vegetable importance
AA Durai, B Subbalakshmi
Vegetable Science 34(1), 51-54
- 1362 Integrated pest management in tomato in farmers participatory mode experiences and scope
N Singh, M Rai, KK Pandey, AB Rai
Vegetable Science 34(1), 55-59
- 1363 Effect of sources and level of organic manure on yield, quality and economics of garden pea (*Pisum sativum* L.) in eastern Uttar Pradesh
RN Meena, Y Singh, SP Singh, JP Singh, K Singh
Vegetable Science 34(1), 60-63
- 1364 Genetic diversity and interrelation analysis in sweet gourd (*Momordica cochinchinensis*) genotypes of northeast India
SK Sanwal, RK Yadav, N Rai, DS Yadav, PK Singh
Vegetable Science 34(1), 64-66
- 1365 Insecticide spray volume effects on shoot and fruit borer, *Earias vittella* F. Damage and yield in okra
S Satpathy, TM Shivalingaswamy, AP Singh, A Kumar, AB Rai
Vegetable Science 34(1), 67-69
- 1366 Effect of treated sewage sludge on growth, yield and quality of okra (*Abelmoschus esculentus* (L.) Moench)
SNS Chaurasia, RK Mishra, G Singh, J Singh, T Chaubey, R Mathura
Vegetable Science 34(1), 70-73
- 1367 Association of characters and their direct and indirect contributions for bell pepper (*Capsicum annum* var. *grossum* L.) improvement
A Sharma, Y Singh, S Sharma
Vegetable Science 34(1), 74-76
- 1368 Genetic divergence in chilli (*Capsicum annum* var *longum* (D.C.) Srndt.)
SN Gogate, RK Patel, MJ Patel, JA Patel
Vegetable Science 34(1), 77-79
- 1369 Genetic divergence in carrot (*Daucus carota* L.) Genotypes using multivariate methods
K Hussain, DK Singh, N Ahmed, G Najir, R Qadir
Vegetable Science 34(1), 80-81

- 1370 Genotypic variability in floral biological attributes of bittergourd (*Momordica charantia* L.)
JP Devmore, BL Dhonukshe
Vegetable Science 34(1), 82-83
- 1371 Combining ability for fruit yield and its attributes in ridge gourd [*Luffa acutangula* (Roxb.) L.]
VL Purohit, DR Mehta, LK Dhaduk, NN Gajipara
Vegetable Science 34(1), 84-85
- 1372 Effect of boron and molybdenum on seed production of early cauliflower (*Brassica oleracea* L. var. *botrytis*)
cv. Pusa
Katki N Buragohain, S Gogoi
Vegetable Science 34(1), 86-88
- 1373 Combining ability analysis for pod yield and its related traits in Indian bean (*Lablab purpureus* L. var. *lignosus*)
KG Modha, KB Kathiria, AR Tukadiya
Vegetable Science 34(1), 89-91
- 1374 Heterosis and combining ability studies for yield and quality traits in tomato
BS Asati, G Singh, N Rai, AK Chaturvedi
Vegetable Science 34(1), 92-94
- 1375 Heterosis analysis in bitter gourd through line x tester design
SK Singh, B Singh, U Kumar, M Rai
Vegetable Science 34(1), 95
- 1376 Genetic analysis for fruit yield and its components in brinjal
KG Shinde
Vegetable Science 34(1), 96-98
- 1377 Combining ability of quality traits and yield in tomato (*Solanum lycopersicon* (Mill). Wettsd.)
N Kumari, JP Srivastava
Vegetable Science 34(1), 99-100
- 1378 Genetic architecture of soluble protein and ascorbic acid content in garden pea
P Kalla, Y Singh
Vegetable Science 34(1), 101-102
- 1379 Study on genetic variability, heritability and genetic advance for yield and its attributes in bell pepper (*Capsicum annuum* L.)
S Johri, V Kumar
Vegetable Science 34(1), 103-105
- 1380 Heterosis for yield and yield components in okra
D Veerasekara, RC Jagadeesii, MC Wali, PM Salimath
Vegetable Science 34(1), 106-107
- 1381 Heterosis for fruit yield and its component in tomato (*Solanum lycopersicum*)
AK Singh, RS Pan, M Rai
Vegetable Science 34(1), 108-108

Vegetable Science 34(2), 2007

- 1382 Tomato genomics and its implications in tomato breeding
M Rai, HC Prasanna, DP Sinha, M Singh
Vegetable Science 34(2), 109-118
- 1383 Resistant to okra yellow vein mosaic virus in Maharashtra
T Prabhhu, SD Warade, PH Ghante
Vegetable Science 34(2), 119-122
- 1384 Estimates of gene action in cucumber (*Cucumis sativus* L.)
J Kumar, AD Munshi, R Kumar, RK Sharma
Vegetable Science 34(2), 123-126

- 1385 Dynamics of leaf phenolic content and conidial germination in relation to powdery mildew resistance in garden pea genotypes
RS Pan, B Das, S Kumar, M Rai, AK Singh
Vegetable Science 34(2), 127-130
- 1386 Identification of stable variety for yield and quality attributes in tomato
HC Prasanna, T Chaubey, R Kumar, M Rai, A Verma, S Singh
Vegetable Science 34(2), 131-134
- 1387 Response of different invigoration treatments in different genotypes of okra (*Abelmoschus esculentus* L. Moench)
J Singh, JS Kanwar, G Bassi
Vegetable Science 34(2), 135-139
- 1388 Developing trellis system for efficient pest control in bitter gourd under coastal ago-ecosystem of Orissa
HS Singh, V Pandey, G Naik, V Nath
Vegetable Science 34(2), 140-144
- 1389 Heterosis and inbreeding depression in cowpea (*Vigna unguiculata* (L.) Walp.)
H Lal, AP Singh, A Verma, M Rai, SN Singh, Vishwanath, D Ram
Vegetable. Science 34(2), 145-149
- 1390 Efficacy of certain ecofriendly insecticides and bait spray against fruit fly [*Bactrocera cucurbitae* (Coquillett)] infesting fruits of bottle gourd
P Nath, S Bhushan, A Kumar
Vegetable Science 34(2), 150-152
- 1391 Correlation, path-coefficient and genetic diversity pattern in Colocasia (*Colocasia esculenta*) genotypes
RK Yadav, N Rai, DS Yadav, SK Sanwal
Vegetable Science 34(2), 153-156
- 1392 Comparative toxicity of foliar applications of neonicotinoids against whitefly (*Bemisia tabaci*) gennadius in okra
M Raghuraman, MK Rai, R Bhagat
Vegetable Science 34(2), 157-159
- 1393 Efficacy of indoxacarb 15 EC in the control of diamondback moth, *Plutella xylostella* L. in cabbage
AB Rai, A Kumar, S Satpathy, TM Shivalingaswamy, M Rai
Vegetable Science 34(2), 160-162
- 1394 Enhancing nitrogen use efficiency of spring planted sugarcane through insitu residue management of intercropped vegetable cowpea at varying levels of fertilizer nitrogen
AK Singh, M Lal, KP Singh, A Suman
Vegetable Science 34(2), 163-166
- 1395 Studies on population dynamics of *Myzus persicae* on potato crop with special reference to its relation with various weather parameters
P Rashmi, R Mayank, S Kuldeep, C Deepti
Vegetable Science 34(2), 167-169
- 1396 Combining ability studies of quantitative traits in sponge gourd (*Luffa cylindrica* (Roem) L.)
D Ram, V Kumar, M Rai, TB Singh, A Kumar, T Chaubey
Vegetable Science 34(2), 170-172
- 1397 Evaluation of fungicides against *Fusarium solani*, the causal agent of wilt of chilli
MK Naik, HM Madhukar, GSD Rani
Vegetable Science 34(2), 173-176
- 1398 Effect of drip irrigation and black polythene mulch on growth, yield, water use efficiency and economic of tomato (*Solanum lycopersicum*)
R Singh, S Kumar
Vegetable Science 34(2), 177-180

- 1399 Estimation of epistasis in inter-varietal crosses of okra
SK Arora, Deepak Jindal, TR Ghai, K Singh
Vegetable Science 34(2), 181-184
- 1400 Biochemical characterization of germplasm of sponge gourd (*Luffa cylindrica* Roem.)
R Pandey, DK Singh, M Upadhyay
Vegetable Science 34(2), 185-186
- 1401 Heterosis in bacterial wilt resistant tomatoes
PG Sadhankumar, PR Rani, SK Mathew, S Rajan
Vegetable Science 34(2), 187-188
- 1402 Intercropping in brinjal: A prospectful component for the management of fruit and shoot borer, *Leucinodes orbonalis* Guenee (Pyralidae: Lepidoptera)
GS Prasad, V Jayakumar, VR Bhagwat, BS Rayudu
Vegetable Science 34(2), 189-191
- 1403 Variability and correlation studies for some quality traits in kale (*Brassica oleracea* var. *acephala* L.)
SH Khan, N Ahmed, I Murtaza, AJ Gupta, MA Chattoo
Vegetable Science 34(2), 192-193
- 1404 Selection strategy for productive plant type in garden pea (*Pisum sativum* L.)
AK Singh, JP Sharma
Vegetable Science 34(2), 194-195
- 1405 Genetics of fruit yield and its components in sponge gourd [*Luffa cylindrica* (Roem.) L.]
MV Nallyadhara, LK Dhaduk, AV Barad, ST Sanandhiya
Vegetable Science 34(2), 196-197
- 1406 Studies on combining ability for yield and contributing characters in green sprouting broccoli (*Brassica oleracea* L. var. *italica* Plenck)
PK Singh, SR Sharma, SVS Rathore, SK Tripathi
Vegetable Science 34(2), 198-199
- 1407 Sulphur improves the factor productivity in pea
RK Singh, N De, TK Singh, M Rai
Vegetable Science 34(2), 200-201
- 1408 Seed enhancement treatments and quality in brinjal (*Solanum melongena*)
G Bassi, J Kanwar, P Singh
Vegetable Science 34(2), 202-203
- 1409 Effect of transplanting dates and nitrogen levels on early leaf blight and yield of tomato under cold arid region
HV Singh, MS Mir, HKR AI, GK Rai
Vegetable Science 34(2), 204-205
- 1410 Management of Early Blight Disease of Tomato cv.'Ksahi Amrit' through fungicides, bioagents and cultural practices in India
V Kumar, RC Gupta, PC Singh, KK Pandey, R Kumar, AS Rai, M Rai
Vegetable Science 34(2), 206-207
- 1411 Efficacy of intercropping as a management strategy for the control of *Plutella xylostella* (L.) On cabbage
UMA Shankar, SVS Raju, MD Monobrullah, S Rai
Vegetable Science 34(2), 208-210
- 1412 Screening of parental lines and their F1, crosses against bacterial wilt in tomato (*Solanum lycopersicum*) under mid hill of Meghalaya
BS Asati, N Rai, RK Singh, G Singh, T Chaubey
Vegetable Science 34(2), 211-212

- 1413 Effect of foliar application of micronutrients on the growth, yield and nutrient content of cabbage (*Brassica oleracea* L. var. *capitata*) in Andhra Pradesh
M Narayanamma, CH Chiranjeevi, SR Ahmed
Vegetable Science 34(2), 213-214
- 1414 Genetic diversity among elite lines of garden pea
K Kumar, K Singh, D Pathak, M Singh
Vegetable Science 34(2), 215-216

Vegetable Science 35(1), 2008

- 1415 Breeding for extractable colour and pungency in capsicum -A review
D Prasath, V Ponnuswami
Vegetable Science 35(1), 1-9
- 1416 Identification of chilli (*Capsicum annum* L.) genotypes through RAPD
D Singh, R Mehta, JG Talati
Vegetable Science 35(1), 10-13
- 1417 Genetics and potential of tomato ripening mutants under north-western plains of India
AS Dhatt, S Singh
Vegetable Science 35(1), 14-20
- 1418 Saunty resistance in cabbage and okra genotypes during germination and early growth stages
B Lahon, JP Srivastava
Vegetable Science 35(1), 21-24
- 1419 Manifestation of heterosis in CMS based hybrids of chilli (*Capsicum annum* L.)
J Pandey, J Singh, A Verma, AK Singh, AK Upadhyay, M Rai, K S
Vegetable Science 35(1), 25-30
- 1420 Comparative study of pesticide residue pattern in vegetables grown under IPM and non-IPM practices
D Sharma, PN Krishnamoorthy, A Krishnamoorthy
Vegetable Science 35(1), 31-34
- 1421 Component analysis in pumpkin (*Cucurbita moschata* Duch. ex Poir.)
S Pandey, S Kumar, BR Choudhary, DS Yadav, M Rai
Vegetable Science 35(1), 35-37
- 1422 Variability studies for yield and its contributing characters and AUDPC in pea [*Pisum sativum* (L.)]
VK Singh, CP Srivastava, R Chand, SP Singh, AK Singh, KK Singh
Vegetable Science 35(1), 38-40
- 1423 Effect of integrated nutrient management on yield and quality of cauliflower (*Brassica oleracea* var. *botrytis*) variety Pusa Snowball K-1
SNS Chaurasia, AK Singh, KP Singh, AJ Rai, CPN Singh, M Rai
Vegetable Science 35(1), 41-44
- 1424 Performance of hybrid cabbage (*Brassica oleracea* L. var. *capitata*) as influenced by foliar micronutrient spray
A Nandi, SC Nayak
Vegetable Science 35(1), 45-48
- 1425 Screening of chilli genotypes against Fusarium wilt caused by *Fusarium solani* (Mart.) Sacc
GSD Rani, MK Naik, MB Patil, MG Patil
Vegetable Science 35(1), 49-54
- 1426 In vitro efficacy of botanicals against *Alternaria* blight (*Alternaria brassicae*) in cauliflower
PK Mishra, RK Rai, RP Singh, KK Pandey, TK Bag, AB Rai
Vegetable Science 35(1), 55-58
- 1427 Reaction of tomato genotypes against tomato leaf curl virus (TOLCV)
A Diyakaran, SK Mathew, SN Devi, PA Nazeem, D Girija
Vegetable Science 35(1), 59-61

- 1428 Response of cowpea genotypes to seed inoculation of biofertilizers
A Bahadur, KP Singh, A Varma, AK Rai, M Rai
Vegetable Science 35(1), 62-64
- 1429 Intercropping of winter vegetables with autumn planted sugarcane in relation to profitable and sustainable production system
SN Singh, VC Jadon, RK Singh, SB Singh
Vegetable Science 35(1), 65-68
- 1430 Evaluation of some cultivars and F₁ hybrids of cauliflower *Brassica oleracea* var. *botrytis* L against cabbage butterfly
JL Yadav, RN Barwal
Vegetable Science 35(1), 69-71
- 1431 Farmers' participatory assessment of high yielding varieties of important vegetable crops in Andaman island
SC Pramanik
Vegetable Science 35(1), 72-76
- 1432 Inheritance of yield and its component traits in vegetable amaranth (*Amaranthus tricolor* L.)
B Varalakshmi
Vegetable Science 35(1), 77-78
- 1433 Genetics of resistance to rust (*Uromyces phaseoli* reben wint) in French bean (*Phaseolus vulgaris*)
TS Aghora, MB Madalageri, N Mohan
Vegetable Science 35(1), 79-80
- 1434 Genetic variation and character association in vegetable amaranth (*Amaranthus tricolor* L.)
RS Pan, AK Singh, S Kumar, M Rai
Vegetable Science 35(1), 81-83
- 1435 Genetic parameters to breeding value in round gourd (*Praecitrullus fistulosus* Pang.)
JP Srivastava, NS Shukla, NP Singh, AK Dubey
Vegetable Science 35(1), 84-85
- 1436 Correlation studies in some tomato (*Lycopersicon esculentum* mill.) Cultivars
TK Hazrika, DB Phookan
Vegetable Science 35(1), 86-87
- 1437 Germplasm evaluation of four *Amaranthus* species for green yield under coastal ecosystem
MK Anuja, S Mohideen
Vegetable Science 35(1), 88-89
- 1438 Effect of source-sink manipulation for fruit size in tomato hybrid
K Pradheep, D Veeraragavathatham, J Auxcliia
Vegetable Science 35(1), 90-92
- 1439 Effect of different packaging materials on shelf-life of capsicum (*Capsicum annum* L.) Under Meghalaya condition
N Rai, A Nath, KK Patel, P Sharma
Vegetable Science 35(1), 93-94
- 1440 Growth characters as influenced by various organic manures in snake gourd var. C0-2
N Jayaraman, A Anburani, R Suchindra
Vegetable Science 35(1), 95-96
- 1441 Relative susceptibility of bottle gourd cultivars to red pumpkin beetle, *Aulacophora foveolcollis* Lucas
TM Shivalingaswamy, A Kumar, S Satpathy, DR Bhardwaj
Vegetable Science 35(1), 97
- 1442 Effect of different levels of nitrogen and spacing on growth and yield of endive (*Chichorium endivia* L.)
PK Singh, B Kumar, AK Pandey, V Yati
Vegetable Science 35(1), 98-99

- 1443 Allelopathic influence of aqueous leaf extract of drumstick on germination and seedling growth of ground storey crops
OP Awasthi, IS Singh, SR Meena
Vegetable Science 35(1), 100-102
- 1444 Study of the biology of melon fruit fly, *Bacteracera cucurbitae* Coquillett on bitter gourd crop
P Nath, AK Singh, S Bhuhan, A Kumar
Vegetable Science 35(1), 103-104
- 1445 DNA fingerprinting of bacterial wilt resistant tomato (*Solanum lycopersicum* L.) cultivars
S Karumannil, PG Sadhankumar, PA Nazeem, D Girija
Vegetable Science 35(1), 105-108
- 1446 Molecular mechanism and genomics of abiotic stress tolerance in crop plants: A review
R Kumar, M Singh, U Mishra, A Rai, HP Pandey, M Rai
Vegetable Science 35(1), 109-118

Vegetable Science 35(2), 2008

- 1447 Comparison of growing systems for cauliflower (*Brassica oleracea* var. *botrytis*) under tropical greenhouse conditions
JK Ranawana, WAP Weerakkody, KB Wahundeniya
Vegetable Science 35(2), 119-123
- 1448 Identification of promising segregants in the F4 generation of the cross *A. caillei* x *A. esculentus*
P Jaseena, KV Sureshbabu, TE George, SK Mathew
Vegetable Science 35(2), 124-126
- 1449 Synergistic effect of sodium azide on gamma-irradiated seeds of peas (*Pisum sativum* L.)
CP Srivastava, AK Singh, VK Singh, S Kumar
Vegetable Science 35(2), 127-131
- 1450 Heterosis, combining ability and gene action studies in tomato (*Solanum lycopersicum* L.)
CB Singh, N Rai, AK Singh, RK Singh, AK Chaturvedi
Vegetable Science 35(2), 132-135
- 1451 Gene effects for biochemical traits in edible podded peas (*Pisum sativum* L. var. *macrocarpum*)
Z Singh, M Singh, PS Brar
Vegetable Science 35(2), 136-139
- 1452 Stability for fruit yield and its components in bitter gourd (*Momordica charantia* L.)
SC Agasimani, PM Salimath, PR Dharmatti, Laxuman
Vegetable Science 35(2), 140-143
- 1453 Component analysis for quantitative traits in ridge gourd [*Luffa acutangula* (Roxb.) L.]
BR Choudhary, S Pandey, DR Bhardwaj, DS Yadav, M Rai
Vegetable Science 35(2), 144-147
- 1454 Efficacy of local isolate of *Stelnerinema carpocapsae* against *Plutella xylostella* (L.)
S Gupta, V Kaul, Uma Shankar, S Rai
Vegetable Science 35(2), 148-151
- 1455 Efficacy of some eco-friendly insecticides, poisons baits and their combinations against bitter gourd infestation by melon fruit fly (*Bactrocera cucurbitae* Coquillett)
AK Panday, P Nath, AB Rai
Vegetable Science 35(2), 152-155
- 1456 Physical, yield and nutraceutical performance of new tropical carrot genotypes and their suitability for dehydration
VR Sagar, P Kalla, R Kumar
Vegetable Science 35(2), 156-159

- 1457 Genetic parameters and character association in garden pea (*Pisum sativum* L.) cultivars
A Kumari, M Kumar, UK Kohli
Vegetable Science 35(2), 160-164
- 1458 Influence of Soil Amendments and Azotobacter on Growth and Yield of Broccoli (*Brassica oleracea* L. var *italica*)
AK Pandey, RK Mishra, M Rai
Vegetable Science 35(2), 165-168
- 1459 Evaluation of botanical extracts in management of stemphylium blight of onion (*Allium cepa* L.)
RK Mishra, KJ Srivastava, RP Gupta
Vegetable Science 35(2), 169-171
- 1460 Evaluation of Improved vegetable varieties through community approach in Kushinagar district of Uttar Pradesh
N Singh, BR Choudhary, AB Rai, A Rai, AK Rai, M Rai
Vegetable Science 35(2), 172-175
- 1461 Correlation of environmental conditions with okra yellow vein mosaic virus coefficient of infection and *Bemisia tabaci* population density
T Prabu, SD Warade, M Saidei
Vegetable Science 35(2), 176-179
- 1462 Gene action for some biochemical traits in okra (*Abelmoschus esculentus* L. Moench)
D Arora, SK Jindal, TR Ghai
Vegetable Science 35(2), 180-184
- 1463 Character association and path coefficient analysis in lettuce (*Lactuca sativa* L.) genotypes under Kashmir conditions
T Dolma, AJ Gupta
Vegetable Science 35(2), 185-189
- 1464 Determination of F₁, hybrid purity of *Capsicum annum* L. Using RAPD markers
D Prasath, V Ponnuswami
Vegetable Science 35(2), 190-191
- 1465 Genetic variability in clove bean [*Ipomoea muricata* (L.) Jacq.]
MS Joseph, BL Markose
Vegetable Science 35(2), 192-193
- 1466 Inheritance of resistance to tomato leaf curl virus in tomato (*Lycopersicon esculentum* Mill.)
AK Singh, GK Rai, M Singh, SK Singh, S Singh
Vegetable Science 35(2), 194-196
- 1467 Evaluation of cucumber (*Cucumis sativus*) genotypes against downy mildew
KK Pandey, B Singh, RC Gupta, AB Rai, M Rai
Vegetable Science 35(2), 197-198
- 1468 Heterosis and combining ability studies in sponge gourd [*Luffa cylindrica* (Roem) L.]
SR Patel, DT Desai
Vegetable Science 35(2), 199-200
- 1469 Effect of *Apis mellifera* pollination on the yield attributing characters and yield of cucumber (*Cucumis sativus* L.)
AB Rai, RG Gracy, A Kumar, SNS Chaurasia, M Rai
Vegetable Science 35(2), 201-202
- 1470 Comparative efficacy of some insecticides and alternatives against pumpkin fruit borer, *dlaphania indica* (saunders) under two pandal systems of bitter gourd cultivation
HS Singh, V Pandey, G Naik, BS Sahoo
Vegetable Science 35(2), 203-205

- 1471 Available soil nutrients status and yield of tomato grown organically in an inceptisol field balances of some mineral nutrients in organic tomato production - a case study
A Rai, KP Singh, S Satpathy, M Rai
Vegetable Science 35(2), 206-207
- 1472 Effect of organic manures and amendments with or without fertilizers on performance of garden pea (*Pisum sativum* L.)
A Nandi
Vegetable Science 35(2), 208-209
- 1473 Response of VA-mycorrhiza, *Rhizobium* culture and phosphorus levels on yield and its contributing characters of cowpea (*Vigna unguiculata*)
S Prasad, SP Singh, NN Dwivedi, SR Singh, VK Singh, S Singh
Vegetable Science 35(2), 210-211
- 1474 Characterization of various genotypes of culinary melon (*Cucumis melo* var. *acidulus* L.)
B Kaur, NPS Dhillon
Vegetable Science 35(2), 212-214
- 1475 Relative antifeedency of some neem formulations against larvae of *Spodoptera litura* (Fab.)
AN Singh, RK Singh
Vegetable Science 35(2), 215
- 1476 Studies on the genetic architecture of some okra crosses through triple test cross method
AP Patel, DR Mehta, VP Chovatia
Vegetable Science 35(2), 216-217

Vegetable Science 36(1), 2009

- 1477 Vascular Wilt Diseases-A Menace in Vegetable Crops
M Loganathan, AB Rai, R Ramesh, BK Sharma, RK Rai, M Rai
Vegetable Science 36(1), 1-13
- 1478 Combining Ability in Indigenous Bitter Gourd (*Momordica charantia* L.)
ML Kushwaha, M Maurya
Vegetable Science 36(1), 14-16
- 1479 Studies on Yield and ITS Attributes in Vegetable Amaranth
J Mandal, VK Dhangra
Vegetable Science 36(1), 17-21
- 1480 Bio-inoculants amendment substitutes synthetic fertilizers in cauliflower (*Brassica oleracea* var. *botrytis* L.) and influences growth, yield, nutrient uptake and residual soil
A Sharma, P Kumar, DK Parmar, Y Singh, KC Sharma
Vegetable Science 36(1), 22-26
- 1481 Heterosis and Inbreeding Depression in Okra [*Abelmoschus esculentus* (L) Moench]
VV Kalpande, BL Dhonukshe, HV Kalpande
Vegetable Science 36(1), 27-30
- 1482 Generation Mean Analysis in Brinjal (*Solanum melongena* L.)
KG Shinde, SD Warade, JH Kadam, PB Sanap, MN Bhalekar
Vegetable Science 36(1), 31-34
- 1483 Stability of Yield and its Components in Bush Type French Bean Under Off-Season (Summer) Cultivation
RS Pan, AK Singh, S Kumar, M Rai
Vegetable Science 36(1), 35-38
- 1484 Optimizing Soil Moisture Regime for Vegetable Cowpea Intercropped with Spring Planted Sugarcane
AK Singh, M Lal, KP Singh
Vegetable Science 36(1), 39-42

- 1485 Population Dynamics and Economic Threshold Level of *Amrasca biguttula biguttula* Ishida in Okra
K Kumari, P Nath, AB Rai
Vegetable Science 36(1), 43-46
- 1486 Response of cabbage to foliar application of micronutrients
BD Yadav, RB Khandelwal, YK Sharma
Vegetable Science 36(1), 47-50
- 1487 Effect of integrated nutrient management and spacing on yield, quality and economics of broccoli (*Brassica oleracea* var. *italica* Plenck.)
SNS Chaurasia, R Singh, M Rai
Vegetable Science 36(1), 51-54
- 1488 Heterosis and combining ability in bottle gourd
MD Ojha, VS Pandey, G Singh
Vegetable Science 36(1), 55-59
- 1489 Antifungal effect of neemazal a commercial product of neem (*Azadirachta indica*)
PK Mishra, S Saha, AB Rai, M Rai
Vegetable Science 36(1), 60-63
- 1490 Studies on influence of organic manure in conjunction with inorganic fertilizers in tomato (*Lycopersicon esculentum* Mill.)
SR Ahmed, T Ramprakash
Vegetable Science 36(1), 64-68
- 1491 Character association and path analysis in garlic (*Allium sativum* L.)
A Agrawal, RS Tiwari
Vegetable Science 36(1), 69-73
- 1492 Effect of planting dates, size of setts and methods of planting on kharif onion (*Allium cepa* L.) production under submountain low hill conditions of Himachal Pradesh
AK Sharma, RS Bhatia, R Raina
Vegetable Science 36(1), 74-76
- 1493 Effect of integrated nutrient management on growth, yield and yield attributes of baby corn (*Zea mays*)
MK Singh, RN Singh, SP Singh
Vegetable Science 36(1), 77-79
- 1494 Production cost analysis of solanaceous vegetables in sub-humid region of India
R Rai, B Mishra, N Singh, R Kumar
Vegetable Science 36(1), 80-83
- 1495 Effect of integrated nutrient management on the residual soil fertility in brinjal-pea-okra cropping system in a mollisol
UP Shahi, BK Srivastava, MP Singh, S Singh, P Srivastava, B Singh
Vegetable Science 36(1), 84-87
- 1496 Technology refinement on ms-12 based hybrid seed production in chilli (*Capsicum annum* L.)
NK Singh, S Kumar, MC Singh, M Rai
Vegetable Science 36(1), 88-89
- 1497 Character association and path analysis in Ashgourd (*Benincasa hispida* Cogn.)
B Lovely, DS Devi
Vegetable Science 36(1), 90-92
- 1498 Disease progress and latent inoculum perpetuation in hot pepper (*Capsicum annum*) and anthracnose (*Colletotrichum capsici*) pathosystem
R Garg, KK Pandey, BK Roy, AB Rai
Vegetable Science 36(1), 93-95
- 1499 Effect of maturity stages on seed recovery and quality in bitter gourd
SN Devi, PG Kumar, SK Mathew
Vegetable Science 36(1), 96-97

- 1500 Combining ability analysis in relation to heterosis for yield and its components in bottle gourd
PP Singh, SP Singh
Vegetable Science 36(1), 98-99
- 1501 Community analysis of plant parasitic nematodes associated with vegetable crops in Varanasi
S Singh, RAI AB, M Rai
Vegetable Science 36(1), 100-102
- 1502 Seed mycoflora of rajmash (*Phaseolus vulgaris* L.) in relation to different coloured seed coat
JN Srivastava, BP Dwivedi, DN Shukla
Vegetable Science 36(1), 103-105
- 1503 Gene effects for fruit yield and its components in brinjal (*S. melongena* L.)
HR Dhameliya, KL Dobariya
Vegetable Science 36(1), 106-108
- 1504 Effect of integrated nutrient management on yield and quality parameters in bhendi (*Abelmoschus esculentus* (L.) Moench) cv. Arka Anamika
S Ravi, KK Gowda, R Krishnamanohar
Vegetable Science 36(1), 109-110
- 1505 ToLCV incidence and yield potential in tomato F₁ S using wild species as female crossed with cultivar Kashi Anupam (DVRT-2) as A male
RK Singh, N Rai, AB Rai, MRT Chubey, AK Chaturvedi
Vegetable Science 36(1), 111-112
- 1506 Combining ability analysis in ridge gourd (*Luffa acutangula* L.)
VA Lodam, DT Desai, V Khandelwal, PP Patil
Vegetable Science 36(1), 113-115
- 1507 Effect of sowing dates, phosphorus levels and seed treatment with rhizobium culture on growth and yield of French bean
DK Rana, SS Rawat, SP Uniyal, AC Mishra
Vegetable Science 36(1), 116-118
- 1508 Heterosis in bitter melon (*Momordica charantia* L.)
KA Jadhav, BV Garad, DB Kshirsagar, SS Dhupal, BT Patil, KG Shinde
Vegetable Science 36(1), 119-121
- 1509 Effect of various doses of nitrogen and spacing on growth and yield of turmeric (*Curcuma longa* L.) cv Medukar
DK Pandey, HR Mishra
Vegetable Science 36(1), 122-123
- 1510 Effect of insect pollinators on growth and yield of carrot seed cv. Pusa Yamdagni under field and controlled conditions
SK Sharma, T Rank, AK Joshi
Vegetable Science 36(1), 124-125
- 1511 Effect of Azospirillum with graded levels of nitrogenous fertilizer on performance of chilli (*Capsicum annuum* L.)
A Nandi, G Prasad, SK Dash
Vegetable Science 36(1), 126-127
- 1512 Correlation and path analysis in sweet pepper (*Capsicum annuum* L.)
S Islam, RV Singh
Vegetable Science 36(1), 128-130
- 1513 Effect of seed imbibition on germination behaviour in brinjal and vegetable pea
PM Singh, AK Pandey, RGS Rao, AK Rai, A Verma
Vegetable Science 36(1), 131-132
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Vegetable Science 36(2), 2009

- 1514 Sources of biotic stress resistance in vegetable crops: a review
B Singh, SK Sanwal, M Rai, AB Rai
Vegetable Science 36(2), 133-146
- 1515 Inheritance of fruit shape in bottle gourd (*Lagenaria siceraria* (Mol.) Standl.)
A Tiwari, HH Ram
Vegetable Science 36(2), 147-149
- 1516 Genetic variability and divergence studies in brinjal (*Solanum melongena* L.)
N Senapati, HN Mishra, MK Bhoi, SK Dash, G Prasad
Vegetable Science 36(2), 150-154
- 1517 Screening of chilli genotypes and host range studies against aflatoxin contamination caused by *Aspergillus flavus* (Link.) Fers
S Sudha, MK Naik, RM Hosmani
Vegetable Science 36(2), 155-158
- 1518 Combining ability for yield and related traits in cucumber (*Cucumis sativus* L.)
JK Tiwari, AD Munshi, R Kumar, RK Sharma, AK Sureja
Vegetable Science 36(2), 159-162
- 1519 Effect of organic nutrients on yield and yield attributes of cucumber (*Cucumis sativus*) cv. Long Green
S Anuja, KK Poovizhi
Vegetable Science 36(2), 163-166
- 1520 Inbreeding depression in sponge gourd [*Luffa cylindrica* (Roem.) L.]
DR Bhardwaj, V Kumar, H Lal, M Rai
Vegetable Science 36(2), 167-170
- 1521 Integrated nutrient management in sweet pepper (*Capsicum annuum* var. *grossum*) grown in naturally ventilated polyhouse
A Singh, KG Singh, SK Gosal
Vegetable Science 36(2), 171-174
- 1522 Response of hybrid tomato to drip irrigation scheduling and Plastic mulching
A Bahadur, TD Lama, A Rai, RP Sharma, KP Singh
Vegetable Science 36(2), 175-178
- 1523 Enhancement of yield and its attributes of sprouting broccoli through drip irrigation and fertigation
AJ Gupta, N Ahmed, FN Bhat
Vegetable Science 36(2), 179-183
- 1524 Heterosis for yield and its components in hybrids of salinity-tolerant and sensitive cucumber inbreds
JK Tiwari, AD Munshi, R Kumar, AK Sureja
Vegetable Science 36(2), 184-187
- 1525 Effect of biorational insecticides on susceptibility of *Spodoptera litura* (Fab) by different bioassay techniques
MH Kodandaram, AB Rai, TMS Swamy
Vegetable Science 36(2), 188-192
- 1526 Potential rhizobacteria for the suppression of bacterial wilt pathogen, *Ralstonia solanacearum* in eggplant (*Solanum melongena* L.)
R Ramesh, MP Ghanekar, AA Joshi
Vegetable Science 36(2), 193-199
- 1527 Validation of CAPS marker associated with Tolcv resistance gene *Ty-2* in parental lines of tomato
D Datta, A Kumar, HC Prasanna, S RK, S Kumar, M Singh, A Kumar
Vegetable Science 36 (2), 200-202
- 1528 Analysis of various quality traits in baby corn genotypes
SK Chauhan, J Mohan, OP Sharma, RN Gadag
Vegetable Science 36(2), 203-208

- 1529 Comparative osmotic diffusion treatment and drying of bitter gourd (*Momordica charantia* L) Slices,
S Singh, RR Rai, M Rai, C SNS
Vegetable Science 36(2), 209-213
- 1530 Inheritance of yield and component traits in brinjal (*Solanum melongena* L.)
G Kumar, JP Srivastava, SK Singh
Vegetable Science 36(2), 214-216
- 1531 Heterosis studies in brinjal (*Solanum melongena* L.)
GS Bisht, M Singh, SK Singh, MC Singh, M Rai
Vegetable Science 36(2), 217-219
- 1532 Genetic variability, heritability and genetic advance for some traits in cucumber (*Cucumis sativus* L.)
S Kumar, YC Yadav, B Bisen, SK Dixit
Vegetable Science 36(2), 220-221
- 1533 Role of trap crop and insecticides on the incidence of tomato fruit borer in tomato
LK Rath, US Nayak
Vegetable Science 36(2), 222-224
- 1534 Influence of sowing dates on vegetative growth, yield and quality of radish (*Raphanus sativus* L.)
AK Pandey, M Singh, PM Singh, M Rai, TB Singh
Vegetable Science 36(2), 225-226
- 1535 Heterosis and anthracnose resistance in bottle gourd [*Lagenaria siceraria* (Mol.) Standl]
RS Rattan, A Bindal
Vegetable Science 36(2), 227-229
- 1536 Reaction of pepper leaf curl virus field resistance of chilli (*Capsicum annum* L.) genotypes under
challenged condition
S Kumar, R Kumar, S Kumar, M Singh, AB Rai, M Rai
Vegetable Science 36(2), 230-232
- 1537 Effect of cultural practices on various quantitative characters of tomato (*Solanum esculentum* Mill)
A Kumar, S Singh, DS Cheema
Vegetable Science 36(2), 233-234
- 1538 Genetic variability, heritability and genetic advance for quality traits in carrot (*Daucus carota* L.)
P Kaur, DS Cheema, N Chawla
Vegetable Science 36(2), 235-236
- 1539 Studies on heterosis for various yield related traits in tomato (*Solanum esculentum* Mill) under high
temperature conditions
DS Cheema, D Kumar, R Kaur
Vegetable Science 36(2), 237-240
- 1540 Genetic architecture of yield and its components in okra (*Abelmoschus esculentus* L. Moench)
SK Jindal, D Arora, TR Ghai
Vegetable Science 36(2), 241-243
- 1541 Inheritance of yield and its component in chilli (*Capsicum annum* L.)
N Jabeen, N Ahmed, AJ Gupta, SH Khan, MA Chattoo
Vegetable Science 36(2), 244-247
- 1542 Genetic Variability, Heritability and Genetic Advance in Muskmelon (*Cucumis melo* Linn.)
R Mehta, D Singh, MK Bhalala
Vegetable Science 36(2), 248-250
- 1543 Microbial Variability in Rhizospheric Soil of Bt and Non-Bt Eggplant (*Solanum melongena* L.)
S Satpathy, AB Rai, A Kumar, BK Sharma, M Singh, M Rai
Vegetable Science 36(2), 251-252
- 1544 Damage inflicted by the slug (*Filicaulisalte* (Ferussac) to some vegetable crops at malerkotla (Punjab)
H Kaur, R Kaur
Vegetable Science 36(2), 253-257

- 1545 Effect of hybrid and non-hybrid okra (*Abelmoschus esculentus* (L.) Moench) to fertilizer levels on yield, economics and soil fertility
UK Singh, B Sinha, M Kumar, VK Choudhary, DN Choudhary, RR Singh
Vegetable Science 36(2), 258-260
- 1546 Heterosis and Inbreeding Depression in Tomato (*Solanum lycopersicon*)
B Singh, JR Yadav, JP Srivastava
Vegetable Science 36(2), 261-264
- 1547 Combining ability of quantitative characters in cowpea (*Vigna unguiculata* (L.) Walp)
HL Singh, BN Rai, V Nath
Vegetable Science 36(2), 265-267
- 1548 Screening of pea (*Pisum sativum*) genotypes against powdery mildew in north west Himalayas
KS Hooda, JC Bhatt, D Joshi, SV Mahajan
Vegetable Science 36(2), 268

Vegetable Science 36(3s), 2009

- 1549 Genetics, pathology and molecular biology of T-cytoplasm male sterility: a review
V Singh, M Singh
Vegetable Science 36(3s), 269-282
- 1550 Biochemical basis of resistance to yellow vein mosaic virus in okra
T Prabu, SD Warade
Vegetable Science 36(3s), 283-287
- 1551 Breeding of parthenocarpic cucumber line
DK Singh, S Padiyar
Vegetable Science 36(3s), 288-291
- 1552 Estimation of genetic divergence for yield and quality traits in tomato (*Lycopersicon esculentum* Mill)
A Ara, R Narayan, N Ahmed, T Salim
Vegetable Science 36(3s), 292-296
- 1553 Some approaches in management of sucking pests on chilli with special reference to tarsonemid mite, Polyphagotarsonemus latus Bank
AB Rai, S Satpathy, RG Gracy, TMS Swamy
Vegetable Science 36(3s), 297-303
- 1554 Assessing changes in character associations among biparental and F₃ progenies in late cauliflower (*Brassica oleracea* var. *botrytis* L.)
MS Kanwar, BN Korla, S Kumar, SP Rai, SS Smita, RP Meena, SK Rai
Vegetable Science 36(3s), 304-308
- 1555 Techno-economic evaluation of drip irrigation and fertigation practices in *capsicum* under Kashmir conditions
AJ Gupta, MA Chattoo, FN Bhat
Vegetable Science 36(3s), 309-314
- 1556 Stability analysis for yield and yield attributes in early vegetable pea (*Pisum sativum* L.) genotypes
SK Sanwal, R Kumar, M Rai, B Singh
Vegetable Science 36(3s), 315-318
- 1557 A study on variability, character association and path analysis for green pod yield in yard long bean (*Vigna unguiculata* sub spp. *sesquipedalis* (L.) Verdcourt)
HN Mishra, SR Dash
Vegetable Science 36(3s), 319-322
- 1558 Analysis of heterosis and combining ability status among diallel set of hybrids for yield and quality traits in watermelon (*Citrullus lanatus* Thunb)
SP Singh, G Dadwadia
Vegetable Science 36(3s), 323-326

- 1559 Response of okra to zinc and boron micronutrients
SK Sanjay, Chankhar, MK Rana
Vegetable Science 36(3s), 327-331
- 1560 Heterosis in relation to combining ability for flowering behaviors and yield parameters in pumpkin
A Jha, S Pandey, M Rai, DS Yadav, TB Singh
Vegetable Science 36(3s), 332-335
- 1561 Studies on response of tomato to different levels of N and K fertigation inside naturally ventilated polyhouse
S Brahma, P Barua, L Saikia, T Hazarika
Vegetable Science 36(3s), 336-339
- 1562 Influence of integrated nutrient management on growth, yield and economics of cauliflower (*Brassica oleracea* L. var. *botrytis*)
A Singh, T Singh, BN Singh
Vegetable Science 36(3s), 340-343
- 1563 Effect of bio-inoculants and graded level of fertilizers on growth, yield and nutrient uptake in cauliflower (*Brassica oleracea* L. var. *botrytis* L.)
A Sharma, P Kumar, DK Parmar, Y Singh, KC Sharma
Vegetable Science 36(3s), 344-348
- 1564 Susceptibility of two populations of *Leucinodes Orbonalis* Guen. to Cry1AC toxin
S Satpathy, AB Rai, M Singh, A Kumar, BK Sharma, M Rai
Vegetable Science 36(3s), 349-352
- 1565 Insect pollinators of pointed gourd and effect of different artificial methods of pollination on fruit setting and subsequent development of fruits
R Das, SK Mandal, TK Maity
Vegetable Science 36(3s), 353-355
- 1566 Effect of fungicides, botanical and bioagent against leaf spot of cauliflower caused by *Alternaria brassicae* (BERK). SACK
PK Mishra, KR Rakesh, S Saha, KK Pandey, RP Singh, AB Rai
Vegetable Science 36(3s), 356-359
- 1567 Effect of crop diversification and intensification and organic manuring on system productivity and soil health
Y Singh, PK Rajput, K Singh, JP Singh
Vegetable Science 36(3s), 360-363
- 1568 Marketing appraisal of solanaceous vegetables in different agro-climatic zones of India
R Rai, B Mishra, N Singh, R Kumar
Vegetable Science 36(3s), 364-367
- 1569 Farmwomen participation in vegetable pest management in coastal Orissa
A Singh, HS Singh, V Nath, BN Sadangi
Vegetable Science 36(3s), 368-371
- 1570 Quality evaluation of sago and carrot juice based sweetened yoghurt
PR Patel, J Singh, DC Rai
Vegetable Science 36(3s), 372-374
- 1571 Characterization of indigenous germplasm lines of pumpkin using seed protein profile
SR Damke, DK Singh, P Singhal, H Choudhary
Vegetable Science 36(3s), 375-377
- 1572 Character association and coefficient analysis in French bean (*Phaseolus vulgaris* L.)
AK Dubey, NP Singh, JP Srivastava
Vegetable Science 36(3s), 378-379

- 1573 Development of tomato (*Solanum lycopersicon*) lines with ToLCV resistance gene and their authentication through molecular marker
D Datta, A Kumar, HC Prasanna, S Kumar, AB Rai, M Rai
Vegetable Science 36(3s), 380-381
- 1574 Genetic variability, correlation and path coefficient analysis in amaranthus
DS Khurana, J Singh, B Kaur
Vegetable Science 36(3s), 382-385
- 1575 Adaptability of different tomato cultivars during off-season under protected cultivation
TK Hazarika, DB Phookan
Vegetable Science 36(3s), 386-389
- 1576 Promising lines for qualitative traits in chilli (*Capsicum annum* L.)
J Pandey, J Singh, AK Singh, M Rai, S Kumar
Vegetable Science 36(3s), 390-392
- 1577 Effect of multi-micronutrient mixture on yield of okra (*Abelmoschus esculentus* L.) grown on goradu soils of Kheda district
KC Patel, KP Patel, VP Ramani, V George
Vegetable Science 36(3s), 393-394
- 1578 Direct and residual effects of urban solid wastes on yield parameters and quality of edible parts in tomato (*Lycopersicon esculentum* Mill)- cabbage (*Brassica oleracea*)
P Kavitha, KJ Rao, A Reddy
Vegetable Science 36(3s), 395-398
- 1579 Screening of some bitter melon varieties/germplasms on the basis of some biological and biometrical parameters of melon fruit fly (*Bactrocera cucurbitae* Coquillett)
AK Day, PNAB Rai, A Kumar
Vegetable Science 36(3s), 399-400
- 1580 Effect of genotypes and growth regulators on plant regeneration from leaf explants in tomato
R Devi, MS Dhaliwal, SS Gosal
Vegetable Science 36(3s), 401-403
- 1581 Genetic variability and component analysis in sponge gourd (*Luffa cylindrica*)
R Singh, PK Singh, BR Choudhary, DR Bhardwaj, M Rai
Vegetable Science 36(3s), 404-405
- 1582 Response of radish to the use of integrated nutrient management practices
M Kumar, S Kumar, P Rattan, JP Sharma, GK Rai
Vegetable Science 36(3s), 406-407
- 1583 Development of resistance in laboratory selected *Dysdercus koenigii* (f) to certain commonly used insecticides
SVS Raju, S Kumar, U Shankar
Vegetable Science 36(3s), 408-411
- 1584 Rodent pest management in pea (*Pisum sativum*) crop by integrating habitat manipulation with rodenticide treatments
N Singla, VR Parshad
Vegetable Science 36(3s), 412-414
- 1585 Effect of organic manures and biofertilizers on biomass distribution, growth and yield of okra
SK Pandey, A Bahadur, R Singh, MC Singh
Vegetable Science 36(3s), 415-417
- 1586 Evaluation of tomato (*Lycopersicon esculentum* Mill.) variety through farmers participatory approach in vindhyan region
SP Singh, SP Prasad, Sant, Singh
Vegetable Science 36(3s), 418-419

- 1587 Effect of Integrated Weed Management Studies on Seed Yield and Quality of Okra (*Abelmoschus esculentus* L.)
TR Nandal, R Sharma
Vegetable Science 36(3s), 420-421
- 1588 Influence of Pre-Treatments on Drying Characteristics in Tomato Slices
S Singh, F Ullah, SNS Chaurasia, M Rai
Vegetable Science 36(3s), 422-424
- 1589 Effect of Pruning and Spacing on Tomato (*Lycopersicon esculentum* Mill.) Variety Tolsytay
M Bihari, S Narayan
Vegetable Science 36(3s), 425-427
- 1590 Effect of Acaricides/Botanical Pesticides on Predatory Mite, *Amblyseius indicus* (Narayanan and Kaur) on Pumpkin
S Prasad, RN Singh
Vegetable Science 36(3s), 428-430
- 1591 Genetic Variability and Correlation Studies in Arvi (*Colocasia esculenta* L. var. *antiquarum*)
VS Pandey, MD Ojha, PK Singh
Vegetable Science 36(3s), 431-434

Vegetable Science 37(1), 2010

- 1592 Antibiotic Resistance Marker-Free Transgenic Plants
S Kumar, M Singh
Vegetable Science 37(1), 1-13
- 1593 Regeneration of *Cucumis melo* L. through somatic embryogenesis and organogenesis from cultured embryonic axes
SK Bairwa, SS Kushwah, MK Tripathi, S Tiwari, BS Baghel
Vegetable Science 37(1), 14-20
- 1594 Combining ability analysis in sponge gourd [*Luffa cylindrica* (Roem.) L.]
MV Naliyadhara, LK Dhaduk, AV Barad, DR Mehta
Vegetable Science 37(1), 21-24
- 1595 Inheritance of fruit yield and its components in sponge gourd [*Luffa cylindrica* (Roem.) L.]
ST Sanandia, DR Mehta, VD Tarpara
Vegetable Science 37(1), 25-29
- 1596 Micro-propagation of chilli (*Capsicum annum* L.) plants through shoot tip culture
K Ranjan, AK Chakrabarti, SK Singh
Vegetable Science 37(1), 30-34
- 1597 Stability analysis in muskmelon (*Cucumis melo* L.)
RK Yadav, HH Ram
Vegetable Science 37(1), 35-39
- 1598 Response of cauliflower (*Brassica oleracea* L. var. *botrytis*) to boron and molybdenum application
S Kumar, SS Singh, PK Singh, VN Singh
Vegetable Science 37(1), 40-43
- 1599 Effect of boron and molybdenum on seed production of early cauliflower (*Brassica oleracea* L. var. *botrytis*) cv Pusa Katki
N Buragohain, S Gogoi
Vegetable Science 37(1), 44-47
- 1600 Heterosis and combining ability in soybean for the traits of vegetable importance
AA Durai, B Subbalakshmi
Vegetable Science 37(1), 48-51

- 1601 consumer perception and quality assurance of tomato ketchup with different thickener
S Singh, AK Singh, N Singh
Vegetable Science 37(1), 52-55
- 1602 Quality attributes of radish as affected by genotypes and dates of sowing
MS Dhaliwal, JS Klair
Vegetable science 37(1), 56-60
- 1603 Influence of integrated nutrient management on the yield, nutrient status and quality of cucumber (*Cucumis sativus* L.)
M Narayanamma, CH Chiranjeevis, R Ahmed, A Chaturvedi
Vegetable Science 37(1), 61-63
- 1604 Heterosis and combining ability for yield and contributing traits in cucumber (*Cucumis sativus* L.)
HK Singh, S Pandey, A Tiwari, MC Singh
Vegetable Science 37(1), 64-66
- 1605 Influence of poison baits and weather factors on fruit fly (*Bactrocera cucurbitae* COQ.) Catches in Cucurbits
AK Pandey, P Nath, AB Rai, A Kumar, S Gupta
Vegetable Science 37(1), 67-68
- 1606 Influence of interaction effect of NPK on number of fruits per vine and weight of fruit in cucumber (*Cucumis sativus* L.) cv. Japanese long green
A Rahul, A kade, D Singh
Vegetable Science 37(1), 69-71
- 1607 Field efficacy of certain bio-rational insecticides and *Bacillus thuringiensis* based bio-insecticides against cabbage butterfly, *Pieris brassicae* Linn.
SS Singh, MK Rai, VB Singh
Vegetable Science 37(1), 72-74
- 1608 Genetic variability and character association in diverse collection of Indian and exotic germplasm lines of pea (*Pisum sativum* L.)
P Yadav, AK Singh, CP Srivastava
Vegetable Science 37(1), 75-77
- 1609 Response of total phenols and peroxidase activity in Chilli exposed to pepper leaf curl virus disease
VP Rai, N Jaiswal, S Kumar, S Singh, R Kumar, A Rai
Vegetable Science 37(1), 78-80
- 1610 Gene action in cucumber (*Cucumis sativus* L.)
J Kumar, AD Munshi, R Kumar, RK Sharma
Vegetable Science 37(1), 81-83
- 1611 Ovicidal performance of certain acaricides against spider mites, *Tetranychus Urticae* Koch on okra
RN Singh
Vegetable Science 37(1), 84-85
- 1612 Effect of nitrogen and phosphorus fertilization in seed production of tomato
RV Singh, S Kumar
Vegetable Science 37(1), 86-88
- 1613 Floral biology of cluster bearing and gynoecious population of sponge gourd (*Luffa cylindrica*)
PK Singh, BR Choudhary, T Chaubey, R Singh, DR Bhardwaj, B Singh
Vegetable Science 37 (1), 89-90
- 1614 Effect of soil and foliar application of organic nutrients on yield and quality of cucumber cv. Long Green
S Anuja, KK Poovizhi
Vegetable Science 37(1), 91-93
- 1615 Response of varieties and transplanting dates on seed yield and quality of tomato
R Singh, PM Singh, S Gupta
Vegetable Science 37(1), 94-96

- 1616 Gene action of economic traits in brinjal (*Solanum melongena* L.)
V Prasad, VK Dwivedi, AA Deshpande, BK Singh
Vegetable Science 37(1), 97-99
- 1617 Effect of using varying level of NPK and biofertilizers on vegetative growth and yield of okra (*Abelmoschus esculentus* (L.) Moench)
JK Singh, A Bahadur, NK Singh, TB Singh
Vegetable Science 37(1), 100-101
- 1618 Modified triple test cross analysis for yield and its component in tomato (*Lycopersicon esculentum* Mill.)
JP Singh, KP Singh
Vegetable Science 37(1), 102-104
- 1619 Variability studies for some quantitative characters in white onion (*Allium cepa* L.) advance lines
RK Singh, BK Bhonde, RP Gupta
Vegetable Science 37(1), 105-107

Vegetable Science 37(2), 2010

- 1620 Novel insecticides for management of insect pests in vegetable crops: a review
MH Kodandaram, AB Rai, J Halder
Vegetable Science 37(2), 109-123
- 1621 Emergence of new variant of chilli leaf curl virus in North India
VP Rai, AC Rai, S Kumar, R Kumar, S Kumar, M Singh, AB Rai, SP Singh
Vegetable Science 37(2), 124-128
- 1622 Mutagenic effectiveness and efficiency of gammarays and ethyl methane sulphonate and their combined treatments in paprika (*Capsicum annuum* L.)
GA Kumar, V Ponnuswami
Vegetable Science 37(2), 129-131
- 1623 Genetic analysis of productivity traits in baby corn
SK Chauhan, J Mohan, RN Gadag
Vegetable Science 37(2), 132-135
- 1624 Compatibility of certain insecticides with propiconazole against pod borer and die-back and fruit rot in chilli
CH Goud, SR Rao, SJ Rahaman, RD Prasad
Vegetable Science 37(2), 136-140
- 1625 Stability analysis for fruit yield and attributing traits in chilli
R Venugopalan, Reddy, K Madhavi
Vegetable Science 37(2), 141-145
- 1626 Molecular characterization and diversity analysis of *Abelmoschus esculentus* germplasm
R Agarwal, B Singh, R Kumar
Vegetable Science 37(2), 146-148
- 1627 Effect of integrated nutrient management on yield and quality of dwarf pea (*Pisum sativum* L.)
A Kumari, ON Singh, R Kumar, AK Singh, R Singh
Vegetable Science 37(2), 149-152
- 1628 Effect of chloroform extracts of *Vinca rosea* and *Callistemon lanceolatus* on feeding behaviour of *Helicoverpa armigera* Hub.
J Halder, C Srivastava, S Dhingra, P Dureja, AB Rai
Vegetable Science 37(2), 153-155
- 1629 Heterosis, combining ability and genetic divergence in cow pea (*Vigna unguiculata* (L.) Walp.)
D Sharma, N Mehta, J Trivedi, CR Gupta
Vegetable Science 37(2), 156-159

- 1630 Studies on effect of fertigation with different levels of N and K fertilizers on growth, yield quality and economics of early season capsicum (*Capsicum annuum* L. var. *grossum*)
S Brahma, L Saikia, P Barua, T Hazarika, B Sharma
Vegetable Science 37(2), 160-163
- 1631 Effect of intercropping of spices, cereal and root crops on the incidence of *Helicoverpa armigera* (Hub.) in tomato
S Ram, S Singh
Vegetable Science 37(2), 164-166
- 1632 Quality evaluation of sago and orange juice based sweetened yoghurt and their comparison with carrot yoghurt
PR Patel, J Singh, SP Singh
Vegetable Science 37(2), 167-170
- 1633 Bio-efficacy of bio-rational insecticides and BT based bio-insecticides against shoot and fruit borer, *Earias vittella* F. in Okra
SS Singh, MK Rai, VB Singh
Vegetable Science 37(2), 171-174
- 1634 Effect of sources of nutrients and packaging materials on shelf life of bottle gourd fruits (*Lagenaria siceraria* (Mol.) Standl.) at ambient temperature
H Singh, SNS Chaurasia, S Singh, DK Singh, A Jha
Vegetable Science 37(2), 175-180
- 1635 Effect of vermicompost on yield and quality of kharif season okra (*Abelmoschus esculantus* (L) Moench)
TR Sharma, AK Pandey, SD Updhyaya, SB Agrawal
Vegetable Science 37(2), 181-183
- 1636 Response of cultivars, plant geometry and method of fertilizer application on parthenocarpic cucumber (*Cucumis sativus* L.) under zero energy polyhouse condition during rainy season
A Sharma, RA Kaushik, DK Sarolia, RP Sharma
Vegetable Science 37(2), 184-186
- 1637 Heterosis, combining ability and gene action studies in okra [*Abelmoschus esculentus* (L.) Moench]
B Singh, SK Sanwal
Vegetable Science 37(2), 187-189
- 1638 Effect of boron and molybdenum on growth, yield and quality of cauliflower in mid altitude condition of Arunachal Pradesh
SP Kumar, R Bhagawati, VK Choudhary, P Devi, T Ronya
Vegetable science 37(2), 190-193
- 1639 Combining ability analysis in chilli (*Capsicum annuum* L.)
BT Patil, MN Bhalekar, KG Shinde
Vegetable Science 37(2), 194-195
- 1640 Response of cowpea (*Vigna unguiculata* L.) cv. Guj-4 to the foliar application of plant growth regulating chemicals
RS Chovatia, TR Ahlawat, SV Mepa, G Jat
Vegetable Science 37(2), 196-197
- 1641 Response of cowpea (*Vigna unguiculata* L. Walp.) and French bean (*Phaseolus vulgaris* L.) to foliar sprays of micronutrients
A Bahadur, KP Singh, J Singh, SNS Chaurasia, S Gupta
Vegetable Science 37(2), 198-199
- 1642 Heterosis study for yield and its components in bottle gourd [*Lagenaria siceraria* (Molina) Standl.]
A Kumar, V Kumar, B Singh, M Kumar, A Kumar, A Sirohi, IP Singh
Vegetable Science 37(2), 200-202
- 1643 Influence of Integrated Nutrient Management in Ridge Gourd (*Luffa acutangula* (Roxb.) L.)
PL Kameswari, M Narayanamma, SR Ahmed, A Chaturvedi
Vegetable Science 37(2), 203-204

- 1644 Consortia of arbuscular mycorrhizal fungi for the management of bacterial wilt disease in susceptible tomato
KS Gopal, A Nandakumar, SK Mathew
Vegetable Science 37(2), 205-207
- 1645 Evaluation of fungicides and cultural practice against fusarium wilt of chilli in intermediate hill zone of J&K
AK Singh, AK Singh, JN Srivastva, AK Sharma
Vegetable Science 37(2), 208-209
- 1646 Stability analysis for flowering and maturity traits in cucumber (*Cucumis sativus* L.)
A Singh, HH Ram
Vegetable Science 37(2), 210-212
- 1647 Genetic divergence studies in radish (*Raphanus sativus* L.) under Kashmir conditions
AK Singh, N Ahmed
Vegetable Science 37(2), 213-215

Vegetable Science 38(1), 2011

- 1648 Physiological and biochemical basis of drought tolerance in vegetables
A Bahadur, A Chatterjee, R Kumar, M Singh, PS Naik
Vegetable Science 38(1), 1-16
- 1649 Combining ability for yield and yield contributing characters in pea (*Pisum sativum* L.)
B Bisht, YV Singh
Vegetable Science 38(1), 17-21
- 1650 Evaluation of irrigation and shading methods on nursery production of onion (*Allium cepa* L.)
PC Tripathi, KE Lawande
Vegetable Science 38(1), 22-25
- 1651 Combining ability analysis in okra
TB Raghuvanshi, M Singh, AP Singh, U Singh, VP Singh, B Singh
Vegetable Science 38(1), 26-29
- 1652 Identifying superior quality F1 tomato hybrids for year round production under low cost plastic greenhouses in North-West Himalayas
MK Sharma, R Kumar, S Kumari
Vegetable Science 38(1), 30-34
- 1653 Effect of bio-fertilizers on growth, yield and quality of French bean (*Phaseolus vulgaris* L.)
V Ramana, M Ramakrishna, K Purushotham, B Reddy
Vegetable Science 38(1), 35-38
- 1654 Heterosis in bottle gourd (*Lagenaria siceraria*) over two varied seasons
PP Singh, SP Singh, S Pandey
Vegetable Science 38(1), 39-43
- 1655 Integrated use of FYM and inorganic sources of nutrients in potato-radish crop sequence
MK Jatav, RP Sharma, M Kumar, SP Trehan, VK Dua, SS Lal
Vegetable Science 38(1), 44-48
- 1656 Combining ability studies in cucumber (*Cucumis sativus* L.)
R Singh, AK Singh, S Kumar, BK Singh, SP Singh
Vegetable Science 38(1), 49-52
- 1657 Effect of organic growing media and crop geometry on growth and yield of capsicum var. California wonders under protected condition in north west Himalayas
S Roy, N Kumar, DK Singh, AK Srivastava
Vegetable Science 38(1), 53-57

- 1658 Effect of organic inorganic and bio fertilizers on uptake of nutrients by different vine parts of cucumber grown under protected condition
M Anjanappa, J Venkatesha, BS Kumara
Vegetable Science 38(1), 58-62
- 1659 Bio-management of root-knot disease of chilli (*Capsicum annum*) caused by *Meloidogyne incognita*
S Singh, AB Rai, RK Singh
Vegetable Science 38(1), 63-67
- 1660 Genetic divergence in hermaphrodite ridge gourd (*Luffa acutangula*)
BR Choudhary, S Pandey, PK Singh, R Singh
Vegetable Science 38(1), 68-72
- 1661 Diallel analysis of quantitative characters in cucumber (*Cucumis sativus* L.)
M Sarkar, PS Sirohi
Vegetable Science 38(1), 73-75
- 1662 Effect of different levels of boron and its methods of application on growth and yield of cauliflower (*Brassica oleracea* var. *botrytis* L.)
KP Singh, VK Singh, Kamalkant, RK Roy
Vegetable Science 38(1), 76-78
- 1663 Identification of new resistant sources for yellow vein mosaic virus disease of Okra (*Abelmoschus esculentus* L.)
ND Deshmukh, BP Jadhav, IS Halakude, JC Rajput
Vegetable Science 38(1), 79-81
- 1664 Nodules as influenced by Rhizobium inoculation, phosphorus application and their interactions in cowpea [*Vigna unguiculata* (L.) Walp]
AK Singh, MM Syamal
Vegetable Science 38(1), 82-84
- 1665 Estimates of gene action in bitter melon (*Momordica charantia*)
SS Dey, TK Behera, AD Munshi, R Bhatia
Vegetable Science 38(1), 85-87
- 1666 Heterosis and inbreeding depression for fruit yield and its components in brinjal (*Solanum melongena* L.)
A Sao, N Mehta
Vegetable Science 38(1), 88-91
- 1667 A comparative study on different types of structures for onion storage
SS Yadav, VV Yadav
Vegetable Science 38(1), 92-94
- 1668 Effect of sulphur on yields of cowpea (*Vigna sinensis*) and French bean (*Phaseolus vulgaris* L.) as influenced by applied sulphur in acidic upland soils of Ranchi
S Singh
Vegetable Science 38(1), 95-97
- 1669 Human resource management practices in organised fresh fruits and vegetables retail outlets
P Goyal
Vegetable Science 38(1), 98-100
- 1670 Influence of biofertilizers and NAA on growth and yield of Chilli (*Capsicum annum* L.) cv. JM-283
MK Athaneria, N Sengar, BR Pandey
Vegetable Science 38(1), 101-103
- 1671 Antibiosis mechanism of resistance in some selected tomato genotypes to tomato fruit borer (*Helicoverpa armigera*)
LK Rath, US Nayak
Vegetable Science 38(1), 104-106

- 1672 Manifestation of heterosis in relation to seasonal variation in okra [*Abelmoschus esculentus* (L.) Monech]
SS Solankey, AK Singh
Vegetable Science 38(1), 107-110
- 1673 Effect of seeds and seedlings soaking in borax solution on cauliflower (*Brassica oleracea* var. *botrytis* L.)
KP Singh, VK Singh, RK Roy
Vegetable Science 38(1), 111-112
- 1674 Efficacy of IPM module in against fruit borer (*Helicoverpa armigera*) on Tomato
AN Singh, RK Singh
Vegetable Science 38(1), 113-114
- 1675 Inheritance of downy mildew resistance in cauliflower (Group I)
B Varalakshmi, G Ganeshan, A Pushpalatha, BS Chethana
Vegetable Science 38(1), 115-116
- 1676 Effect of Rhizobium inoculation and phosphorus application on protein and carbohydrate content of cowpea [*Vigna unguiculata* (L.) walp]
AK Singh, MM Syamal
Vegetable Science 38(1), 117-118
- 1677 Evaluation of the different herbicides for controlling weeds in onion (*Allium cepa* L.)
JM Vashi, NK Patel, DT Desai
Vegetable Science 38(1), 119-120
- 1678 Fungicidal management powdery mildew (*Erysiphe polygoni*) in pea
M Loganathan, V Vekttaravanappa, S Saha, AB Rai
Vegetable Science 38(1), 121-122
- 1679 In vitro clonal propagation of a male sterile lines in chilli crop
DS Khurana, KN Kannanghara, R Devi, SS Gosal
Vegetable Science 38(1), 123-127

Vegetable Science 38(2), 2011

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SC Dhawan, S Singh
Vegetable Science 38(2), 128-134
- 1681 Effect of organic manures and inorganic fertilizers on growth, yield and quality of okra [*Abelmoschus esculentus* (L.) Moench]
MA Chattoo, N Ahmed, MH Wani, SA Mir, SH Khan, N Jabeen
Vegetable Science 38(2), 135-139
- 1682 Effect of organic manures and inoculation of beneficial microorganisms on growth yield and economics of garden pea (*Pisum sativum* L.)
NK Singh, KK Deshmukh, AP Bhandarkar
Vegetable Science 38(2), 140-142
- 1683 Weather based relations on different component of epiphytotic for early blight of tomato
KK Pandey
Vegetable Science 38(2), 143-146
- 1684 Crop diversification with turmeric crop for maximizing productivity, profitability and resource conservation
B Singh, RK Naresh, S Prakash, HL Singh
Vegetable Science 38(2), 147-151
- 1685 Population succession of tomato fruit borer (*Helicoverpa armigera*) on tomato (*Lycopersicon esculentum* Mill.) agro-ecosystem in eastern region of UP
K Singh, SVS Raju, DK Singh
Vegetable Science 38(2), 152-155

- 1686 Combining ability analysis for green pod yield and its components in inter sub-species of cowpea [*Vigna unguiculata* (L) Walp.] ssp.
D Sharma, N Mehta, J Trivedi, CR Gupta
Vegetable Science 38(2), 156-161
- 1687 Evaluation of botanical, microbial and chemical insecticide on the fruit damage inflicted by fruit borer in tomato
S Ram, S Singh
Vegetable Science 38(2), 162-164
- 1688 Effect of mulch materials on vegetative characters, yield and economics of summer squash (*Cucurbita pepo*) under rainfed mid-hill condition of Uttarakhand
L Bhatt, R Rana, SP Uniyal, VP Singh
Vegetable Science 38(2), 165-168
- 1689 Heterosis and combining ability for fruit yield and its component traits in bottle gourd [*Lagenaria siceraria* (Mol.) Standl.]
JA Shaikh, KB Kathiria, RR Acharya
Vegetable Science 38(2), 169-175
- 1690 Effect of row spacing and fertilizer on growth and yield attributes of Okra
S Kumar, P Bhagawati, RY Das, J Basar
Vegetable Science 38(2), 176-179
- 1691 Generation mean analysis in chilli (*Capsicum annum*)
BT Patil
Vegetable Science 38(2), 180-183
- 1692 Effect of sowing dates and varieties on yield and quality of garden pea seed
R Singh, PM Singh
Vegetable Science 38(2), 184-187
- 1693 Effect of sowing time on yield and quality of okra seed
SK Dhankhar, AC Yadav, DP Deswal
Vegetable Science 38(2), 188-190
- 1694 Differential responses of major vegetable aphids to newer insecticide molecules
J Halder, MH Kodandaram, AB Rai
Vegetable Science 38(2), 191-193
- 1695 Stability for fruit yield and yield contributing traits in brinjal (*Solanum melongena* L.)
L Bora, YV Singh, BB Kumar
Vegetable Science 38(2), 194-196
- 1696 Influence of intercropping vegetables with winter harvested plant cane for enhanced productivity of subsequent ratoon in sub-tropical India
SN Singh, SC Singh, GK Singh, RK Singh, ML Sharma
Vegetable Science 38(2), 197-199
- 1697 Seasonal incidence of white fly (*Bemisia tabaci* Gennadius) on Tomato (*Lycopersicon esculentum* Mill.) in eastern region of UP
K Singh, SVS Raju, DK Singh
Vegetable Science 38(2), 200-202
- 1698 Combining ability studies in cucumber (*Cucumis sativus* L.)
PN Mule, V Khandelwal, AB Patil, BR Chaudhary
Vegetable Science 38(1), 203-205
- 1699 Gene action in tomato (*Lycopersicon esculentum* Mill) under open and protected environments
VR Biswas, RP Bhatt, N Kumar
Vegetable Science 38(2), 206-208

- 1700 Influence of integrated nutrient management in Ridge gourd (*Luffa acutangula* (Roxb.) L.)
PL Kameswari, M Narayanamma, SR Ahmed, A Chaturvedi
Vegetable Science 38(1), 209-211
- 1701 Combining ability analysis for yield and yield contributing characters in Okra [*Ablemoschus esculentus* (L.) Moench]
SP Singh
Vegetable Science 38(2), 212-214
- 1702 Response of cultivars, plant geometry and methods of fertilizer application on parthenocarpic cucumber (*Cucumis sativus* L.) under zero energy polyhouse condition
A Sharma, RA Kaushik, DK Sarolia, RP Sharma
Vegetable Science 38(2), 215-217
- 1703 Evaluation of red and yellow capsicum hybrids for quality attributes in naturally ventilated poly house in mid hills of western Himalayas
N Choudhary, NK Pathania, SP Singh, P Kumar, Y Singh
Vegetable Science 38(2), 218-220
- 1704 Floral biology studies in Chilli (*Capsicum annum* L.)
RD Dhall, JS Hundal, A Saxena
Vegetable Science 38(2), 221-224
- 1705 Inheritance of sex expression and fruit bursting in melons
S Singh, S Pandey, R Raghuwanshi, PK Singh, A Jha, M Singh
Vegetable Science 38(2), 225-227
- 1706 Effect of different concentration of plant growth regulators on the yield and quality attributes of tomato (*Lycopersicon esculentum* Mill.)
Y Singh, SS Singh
Vegetable Science 38(2), 228-230
- 1707 Combining ability of quantitative characters in brinjal (*Solanum melongena* L.)
KG Shinde, MN Bhalekar, BT Patil
Vegetable Science 38(2), 231-234
- 1708 Response of cucumber (*Cucumis sativus* L.) to chemical fertilizers and biofertilizer
MK Parmar, BN Patel, SR Mane
Vegetable Science 38(2), 235-236
- 1709 Exploitation of heterosis in cucumber (*Cucumis sativus* L.)
M Sarkar, PS Sirohi
Vegetable Science 38(2), 237-238
- 1710 Characterization and preliminary evaluation of Vegetable amaranth (*Amaranthus* spp.)
V Joshi, M Vijaya, K Sireesha, PM Latha
Vegetable Science 38(2), 239-240
- 1711 Genetic divergence analysis in dolichos bean (*Dolichos lablab* L.) for Chhattisgarh plains
KL Patel, N Mehta, GL Sharma, DA Sarnaik
Vegetable Science 38(2), 241-242

Vegetable Science 39(1), 2012

- 1712 Breeding for drought tolerance in vegetables
R Kumar, SS Solankey, M Singh
Vegetable Science 39(1), 1-15

- 1713 Variability in Capsaicinoids content and phylogenetic analysis of AT3, and Acyltransferase gene in Chilli (*Capsicum annuum* L.)
P Naresh, KM Reddy, MK Reddy, KV Ravishankar
Vegetable Science 39(1), 16-20
- 1714 Influence of microorganism's inoculation on nutrient economy in potato radish crop sequence in North Western Himalayas
MK Jatav, M Kumar, SP Trehan, VK Dua, SS Lal, RP Sharma
Vegetable Science 39(1), 21-25
- 1715 Multivariate analysis of the genetic diversity of bitter gourd (*Momordica charantia* L.)
J Resmi, I Sreelathakumary
Vegetable Science 39(1), 26-30
- 1716 Estimates of stability parameters for yield and its components in cucumber (*Cucumis sativus* L.)
A Singh, HH Ram
Vegetable Science 39(1), 31-34
- 1717 Factors influencing consumers behaviour for vegetable purchase
M Chikkamath, BR Atteri, SK Srivastava, S Roy
Vegetable Science 39(1), 35-39
- 1718 Combining ability for characters related to yield and earliness in bitter gourd (*Momordica charantia* L.)
C Thangamani, L Pugalendhi, T Sumathi
Vegetable Science 39(1), 40-46
- 1719 Growth, yield and quality attributes of cucumber (cv. Hassan local) as influenced by integrated nutrient management grown under protected condition
M Anjanappa, J Venkatesha, BS Kumara
Vegetable Science 39, 47-50
- 1720 Heterosis and combining ability in garden pea (*Pisum sativum* L.) for yield and its contributing traits
PS Brar, RK Dhall
Vegetable Science 39(1), 51-54
- 1721 Screening of popular cauliflower cultivars towards arsenic contamination in plants parts under deltaic Bengal
R Kundu, S Pal, A Majumder
Vegetable Science 39(1), 55-58
- 1722 Effect of plant densities and phosphorus levels on the growth and yield of vegetable cowpea (*Vigna unguiculata* (L.) Walp)
KR Kumar, VS Vani, KU Jyothi, K Sasikala
Vegetable Science 39(1), 59-62
- 1723 Genetic divergence in okra (*Abelmoschus esculentus* (L.) Moench.)
PC Chaurasia, M Yadav, SC Ghosh
Vegetable Science 39(1), 63-64
- 1724 Line x tester analysis to study combining ability effects in tomato (*Solanum lycopersicum* L.)
S Kumari, MK Sharma
Vegetable Science 39(1), 65-69
- 1725 Genetic variability, correlation and path analysis in fenugreek (*Trigonella foenum-graecum* L.)
D Singh, PP Singh, IS Naruka, SS Kushwah
Vegetable Science 39(1), 70-72
- 1726 Heterosis studies in chilli (*Capsicum annuum* L.) for earliness, growth and green fruit yield
BT Patil, MN Bhalekar, KG Shinde
Vegetable Science 39(1), 73-75
- 1727 Genetic divergence in muskmelon (*Cucumis melo* L.)
R Mehta, D Singh, MK Bhalala
Vegetable Science 39(1), 76-78

- 1728 Correlation and path coefficient studies in garlic (*Allium sativum* L.) over different environments
YM Barad, KB Kathiria, KG Modha
Vegetable Science 39(1), 79-82
- 1729 Evaluation of genetic variability in bottle gourd genotypes
A Sharma, SK Sengupta
Vegetable Science 39(1), 83-85
- 1730 Studies on variability, heritability and genetic advance in garlic (*Allium sativum* L.)
RK Singh, BK Dubey, SR Bhonde, RP Gupta
Vegetable Science 39(1), 86-88
- 1731 Stability analysis for fruit yield and its component traits in bottle gourd (*Lagenaria siceraria* (Mol.) Standl.)
JA Shaikh, KB Kathiria, RR Acharya
Vegetable Science 39(1), 89-91
- 1732 Genetics of earliness and total yield in okra (*Abelmoschus esculentus* (L.) Moench)
PS Aulakh, RK Dhall, J Singh
Vegetable Science 39(1), 92-94
- 1733 Correlation and path coefficient analysis for yield and yield contributing traits in soybean (*Glycine max* (L.) Merrill)
PB Koladiya, SN Saravaiya, DA Patel, KN Chaudhari
Vegetable Science 39(1), 95-97
- 1734 Correlation and path coefficient studies in garlic (*Allium sativum* L.)
BT Patil, PP Gidmare, MN Bhalekar, KG Shinde
Vegetable Science 39(1), 98-100
- 1735 Influence of tomato genotypes in relation to time of planting against fruit infestation by *Helicoverpa armigera* (Hubner)
CJ Akato, HK Singh, AM Alemla
Vegetable Science 39(1), 101-102
- 1736 Genetic divergence in brinjal (*Solanum melongena* L.)
KG Shinde, UM Birajdar, MN Bhalekar, BT Patil
Vegetable Science 39(1), 103-104
- 1737 Biochemical characterization of parental lines and F1 hybrids in smooth gourd (*Luffa cylindrica* Roem.)
VBS Chauhan, DK Singh, H Choudhury
Vegetable Science 39(1), 105-107
- 1738 Correlation and path analysis in eggplant (*Solanum melongena* L.)
KG Shinde, UM Birajdar, MN Bhalekar, BT Patil
Vegetable Science 39(1), 108-110
- 1739 Influence of sowing method on seed yield of radish (*Raphanus sativus* L.)
D Singh, JP Singh, A Tewari
Vegetable Science 39(1), 111-112
- 1740 A simple and efficient agrobacterium-mediated transformation of tomato
R Devi, MS Dhaliwal, SS Gosal
Vegetable Science 39(1), 113-117

Vegetable Science 39(2), 2012

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M Kumari, VY Patade, Z Ahmed
Vegetable Science 39(2), 118-121
- 1742 Genetic divergence in muskmelon (*Cucumis melo* L.)
MK Bhalala, M
Vegetable Science 39(2), 122-123

- 1743 Contribution of nitrogen and phosphorus from combined application of Azotobacter and phosphobacteria in potato
MK Jatav, VK Dua, M Kumar, SC Khurana, AK Bhatia, DN Nandekar
Vegetable Science 39(2), 123-127
- 1744 Intercropping of vegetables with pre-bearing litchi plants for profitable and sustainable production system
A Kumar, SD Pandey, RR Rai
Vegetable Science 39(2), 128-131
- 1745 Line x tester analysis for combining ability in okra (*Abelmoschus esculentus* (L.) Moench)
JP Sharma, AK Singh
Vegetable Science 39(2), 132-135
- 1746 Diallel analysis for yield and yield attributing traits in capsicum (*Capsicum annuum* L. var. *grossum* Sendt)
V Pandey, A Chura, HK Pandey, HS Meena, MC Arya, Z Ahmed
Vegetable Science 39(2), 136-139
- 1747 Genetic diversity and its relationship with heterosis in okra
P Kiran, M Pathak
Vegetable Science 39(2), 140-143
- 1748 Effect of consortium of *Trichoderma harzianum* isolates on growth attributes and *Sclerotinia sclerotiorum* rot of brinjal
SP Singh, HB Singh
Vegetable Science 39(2), 144-148
- 1749 Biochemical and nutritional variations in lettuce, cabbage, tomato and turnip
A Singh, BK Tiwari, P Singh, AB Abidi
Vegetable Science 39(2), 149-152
- 1750 Comparative economics and production constraints of leguminous vegetables in Vindhyan region
N Singh, S Roy, JS Bohra, A Singh
Vegetable Science 39(2), 153-156
- 1751 Physiological and biochemical changes during seed development and maturation in onion (*Allium cepa* L.)
M Ramya, HS Yogeesh, K Bhanuprakash, RV Gowda
Vegetable Science 39(2), 157-160
- 1752 Floral biology of onion construed as an annual crop for seed production
C Karak, P Hazra
Vegetable Science 39(2), 161-164
- 1753 Genetics of early and total yield in okra (*Abelmoschus esculentus* (L.) Moench)
PS Aulakh, RK Dhall, J Singh
Vegetable Science 39(2), 165-168
- 1754 Genetic analysis of quality attributes in table pea (*Pisum sativum* L.)
KP Singh, JD Singh, HC Singh, JP Srivastava
Vegetable Science 39(2), 169-172
- 1755 Studies on efficacy of SI NPV with plant extracts in the management of *S. litura* on cabbage
G Narasimhamurthy, S Sobita, P Anandhi, Chandrashekaraiah
Vegetable Science 39(2), 173-176
- 1756 Studies on efficacy of SLNPV with plant extracts in the management of *Spodoptera litura* (Fabricius) on cabbage
GM Narasimhamurthy, S Simon, P Anandhi
Vegetable Science 39(2), 173-176
- 1757 Root yield and quality of radish as affected by sowing dates and spacing
A Lavanya, VS Vani, P Reddy, K Sasikala
Vegetable Science 39(2), 177-179

- 1758 Combining ability analysis in okra (*Abelmoschus esculentus* (L.) Moench)
P Kumar, V Singh, RK Dubey
Vegetable Science 39(2), 180-182
- 1759 Interrelationship among components of lodging and yield in pea (*Pisum sativum* L.)
AK Singh, N Tyagi, CP Srivastava
Vegetable Science 39(2), 183-185
- 1760 Characterization of brinjal (*Solanum melongena* L.) germplasm
KG Shinde, MN Bhalekar, BT Patil
Vegetable Science 39(2), 186-188
- 1761 Genetic studies of quality traits in tomato (*Solanum lycopersicum* L.) under low temperature
D Droka, R Kumar, S Joshi, RK Yadav
Vegetable Science 39(2), 189-191
- 1762 Path analysis for pod yield in French bean (*Phaseolus vulgaris* L.)
D Mehra, DK Singh
Vegetable Science 39(2), 192-194
- 1763 Occurrence of unreported fruit rot caused by *Fusarium chlamyosporum* on *Capsicum annum* in Bay Island, India
K Kumar, S Bhagat, K Madhuri, A Birha, RC Srivastava
Vegetable Science 39(2), 195-197
- 1764 Correlation and path coefficient analysis for quantitative traits in early season bottle gourd (*Lagenaria siceraria* (Mol.) standl)
AK Singh, RS Pan, P Bhavana
Vegetable Science 39(2), 198-200
- 1765 Quality seed production of okra in northern plains of India
V Sharma, V Singh, AC Yadav, D Duhan
Vegetable Science 39(2), 201-202
- 1766 Genetic analysis for quality and nutritional traits in tomato under low temperature regime
PK Negi, RR Sharma, R Kumar, VBS Chauhan
Vegetable Science 39(2), 203-206
- 1767 Genetic diversity assessment through principal component analysis in potato (*Solanum tuberosum* L.)
M Lohani, D Singh, JP Singh
Vegetable Science 39(2), 207-209
- 1768 Evaluation of tomato-spinach and carrot based vegetable savoy soup
T Verma, J Singh, SP Singh
Vegetable Science 39(2), 210-213
- 1769 Estimates of genetic components of variation in sponge gourd (*Luffa cylindrica* Roem.)
R Kumar, AD Munshi, TK Behera, R Kumar, AK Sureja
Vegetable Science 39(2), 214-217
- 1770 Variability studies for six slow rusting traits in pea (*Pisum sativum* L.)
VK Singh, SP Singh, CP Srivastava
Vegetable Science 39(2), 218-220
- 1771 Genetic diversity and path analysis in tomato (*Solanum lycopersicum* L.)
T Buckseth, MK Sharma, KS Thakur
Vegetable Science 39(2), 221-223

Vegetable Science 40(1), 2013

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NK Rai, PP Sahu, S Gupta, MK Reddy, KV Ravishankar, M Singh, ...
Vegetable Science 40(1), 1-6

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A Ghani, I Mustafa, I Ahmad, N Hasan, T Islam
Vegetable Science 40(1), 7-10
- 1774 Crossability studies in genus *Abelmoschus*
T Prabu, SD Warade
Vegetable Science 40(1), 11-16
- 1775 Soil test based phosphorus recommendation for potato
MK Jatav, VK Dua, M Kumar, SP Trehan, SK Singh, SC Khurana, ...
Vegetable Science 40(1), 17-22
- 1776 Selection strategies for fruit yield in tomato (*Solanum lycopersicum* L.)
JK Tiwari, AK Tiwari, N Mehta
Vegetable Science 40(1), 23-27
- 1777 Manifestation of heterosis for fruit yield, quality and shelf-life in tomato (*Solanum lycopersicum* L.) hybrids incorporating rin, nor or alc alleles in main-and late-seasons of ...
N Garg, DS Cheema, N Chawla
Vegetable Science 40(1), 28-33
- 1778 Micro and mini-tubers formation and in vitro shoot regeneration from bud sprout of potato (*Solanum tuberosum* L.)
RA Gami, SK Parmar, PT Patel, CJ Tank, RM Chauhan
Vegetable Science 40(1), 34-36
- 1779 Variability parameter for quantitative and qualitative traits in sweet pepper in mid hills of Western Himalaya
V Pandey, A Chura, MC Arya, Z Ahmed
Vegetable Science 40(1), 37-39
- 1780 Varieties and planting dates affect the growth, yield and quality of turmeric (*Curcuma longa* L.) in mild-tropical environment BK Singh, Y Ramakrishna, BC Deka, VK Verma, KA Pathak
Vegetable Science 40(1), 40-44
- 1781 Evaluation of indeterminate tomato hybrids for fruit, yield and quality traits under net house and open field conditions
DS Cheema, N Singh, SK Jindal
Vegetable Science 40(1), 45-49
- 1782 Variation in the protein and galactomannan content in guar seeds of the different genotypes
CSR Naik, R Ankaiah, P Sudhakar, TD Reddy, V Radhakrisnamurthy, ...
Vegetable Science 40(1), 50-54
- 1783 Adoption of improved potato cultivation practices
M Sharma, K Sidhu
Vegetable Science 40(1), 55-60
- 1784 Combining ability for yield and other quantitative traits in eggplant (*Solanum melongena* L.)
JP Patel, U Singh, SP Kashyap, DK Singh, A Goswami, SK Tiwari, ...
Vegetable Science 40(1), 61-64
- 1785 Status of secondary nutrients vis-a-vis soil site-characteristics of vegetable growing soils of Varanasi
RP Sharma, RB Yadava, TD Lama, A Bahadur, KP Singh
Vegetable Science 40(1), 65-68
- 1786 Effect of integrated nutrient management on growth, yield and economics of broccoli (*Brassica oleracea* L. var. *italica* plenck.)
SK Mohapatra, PS Munsri, PN Mahapatra
Vegetable Science 40(1), 69-72

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D Sharma, N Mehta, J Singh, CR Gupta
Vegetable Science 40(1), 73-76
- 1788 Effect of bio-fertilizer azospirillum on growth and yield parameters of coriander (*Coriandrum sativum* L.)
cv. Pant Haritima
SP Singh
Vegetable Science 40(1), 77-79
- 1789 Heterosis for productivity traits in brinjal (*Solanum melongena* L.)
JP Patel, U Singh, SP Kashyap, SK Tiwari, DKSM Singh, M Singh
Vegetable Science 40(1), 80-82
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S Kumari, MK Sharma
Vegetable Science 40(1), 83-86
- 1791 Correlation and path analysis studies in round fruited brinjal
RG Kranthi, VA Celine
Vegetable Science 40(1), 87-89
- 1792 Effect of meteorological factors on the population dynamics of insect pests of tomato
D Sharma, A Maqbool, H Ahmad, K Srivastava, M Kumar, V Vir, S Jamwal
Vegetable Science 40(1), 90-92
- 1793 Effect of herbicides on weed intensity, weed control efficiency and yield in Kharif onion cv. Phule Samarth
KG Shinde, MN Bhalekar, BT Patil
Vegetable Science 40(1), 93-95
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cultivation under rainfed rice based production system
YC Kushwah, PK Dwivedi, SS Jain
Vegetable Science 40(1), 96-98
- 1795 Evaluation of promising interspecific hybrid derivatives of okra (*Abelmoschus esculentus* (L.) Moench)
Y Mogili, KVS Babu, TE George, KP Prasanna, SK Mathew, S Krishnan
Vegetable Science 40(1), 99-101
- 1796 Genetic variability, correlation and path coefficient studies in garlic (*Allium sativum* L.)
RK Dhall, PS Brar
Vegetable Science 40(1), 102-104
- 1797 Efficiency of okra-based intercropping under subsistence farming
AC Mishra
Vegetable Science 40(1), 105-106
- 1798 Effect of micronutrients on plant growth and fruit yield parameters of bell pepper (*Capsicum annum* L.)
grown under mid hill conditions of Himachal Pradesh
GD Dubey, AS Parmar, HS Kanwar, SC Verma, DK Mehta
Vegetable Science 40(1), 107-108
- 1799 Quantification of lutein and β carotene in underutilized green leafy vegetables using high performance
liquid chromatography
P Latha, P Sudhakar, MB Krishna, CR Begam, TG Krishna
Vegetable Science 40(1), 109-110
- 1800 Variability, heritability and genetic advance for fruit yield, quality and pest and disease incidence in
eggplant
SR Kumar, T Arumugam
Vegetable Science 40(1), 111-113

- 1801 Performance and correlation studies on nutritional uptake and nutritional content by various organic and inorganic fertilizers on Spinach
K Padmanabha, M Nagaraja, GN Kumar, DC Hanumanthappa
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M Kumar, B Das, KK Prasad, K P
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PK Singh, V Pandey, M Singh, SR Sharma
Vegetable Science 40(2), 121-136
- 1804 Gas exchange characteristics, water use efficiency and osmotic adjustment in relation to heterosis in hot pepper (*Capsicum annum* L.) under water stress
RM Bhatt, NK Rao, KM Reddy, VS Rao
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- 1805 Plant regeneration and *Agrobacterium*-mediated gene transfer in brinjal (*Solanum melongena* L.)
A Kumari, G Gambhir, DK Srivastava
Vegetable Science 40(2), 143-148
- 1806 Phylogenetic relationship of coat protein genomic components of Chilli leaf curl virus
DP Sinha, S Saxena, M Singh, SK Tiwari
Vegetable Science 40(2), 149-154
- 1807 Molecular marker analysis for bacterial wilt resistance in mapping populations of tomato
VC Ragina, PG Sadhankumar
Vegetable Science 40(2), 155-158
- 1808 Proximate composition of pumpkin (*Cucurbita pepo*) irrigated with municipal waste water of Sargodha city
A Ghani, I Mustafa, AA Shah, T Islam, I Ahmed
Vegetable Science 40(2), 159-163
- 1809 Combining ability and gene action studies over environments in bacterial wilt resistant tomato genotypes
P Kapur, Vidyasagar, S Chadha
Vegetable Science 40(2), 164-168
- 1810 Investigations on seed viability and vigour of aged seeds by priming in French bean (*Phaseolus vulgaris* L.)
G Sarika, GV Basavaraju, K Bhanuprakash, BC Chaanakeshava, ...
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- 1811 Extension of gherkin shelf life through the use of reduced temperature and polyethylene packaging
Y Bindiya, D Srihari, JD Babu
Vegetable Science 40(2), 174-177
- 1812 Analysis of biochemical parameters in tomato fruits before and after inoculation with root knot nematode (*Meloydogyne incognita*)
K Choudhary, N Chawla, S Kaur, S Jindal
Vegetable Science 40(2), 178-181
- 1813 Study of genetic divergence on vegetable cowpea [*Vigna unguiculata* (L.) Walp.]
MK Rana, PS Partap, R Ranjan
Vegetable Science 40(2), 182-184
- 1814 Physiological and biochemical changes during seed development and maturation in onion (*Allium cepa* L.)
M Ramya, HS Yogeesh, K Bhanuprakash, RV Gowda
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- 1815 Genetic analysis for yield and its contributing traits in tomato under low temperature regime
PK Negi, RR Sharma, R Kumar, VBS Chauhan
Vegetable Science 40(2), 189-194
- 1816 Effect of GA₃ and NAA on growth and yield of tomato
RN Prasad, SK Singh, RB Yadava, SNS Chaurasia
Vegetable Science 40(2), 195-197
- 1817 Genetic analysis of yield and its components in okra (*Abelmoschus esculentus* (L.) Moench)
M Kumar, AK Yadav, RK Yadav, HC Singh, S Yadav, PK Yadav
Vegetable Science 40(2), 198-200
- 1818 Management of black rot of cabbage and cauliflower by seed treatment, root dipping and foliar spray of antibiotics and biocontrol agents
S Saha, M Loganathan, AB Rai, B Singh
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- 1819 Growth and nodulation of cowpea [*Vigna unguiculata* (L.) Walp] as influenced by phosphorus levels and bio-inoculants
RN Prasad, RK Singh, RB Yadava, SNS Chaurasia
Vegetable Science 40(2), 204-206
- 1820 Correlation and path coefficient analysis for quantitative traits in early season bottle gourd [*Lagenaria siceraria* (Mol.) Stand L.]
AK Singh, RS Pan, P Bhavana
Vegetable Science 40(2), 207-209
- 1821 Genetic variation, path and correlation analysis in crosses among Indian and Taiwan parents in chilli
SL Krishnamurthy, KM Reddy, AM Rao
Vegetable Science 40(2), 210-213
- 1822 Non-pesticidal management of okra shoot and fruit borer (*Earias vittella* Fab.) by changing dates of sowing
HK Gautam, NN Singh, AB Rai
Vegetable Science 40(2), 214-216
- 1823 Correlation studies in tomato (*Solanum lycopersicum* L.)
SA Patel, DB Kshirsagar, MN Bhalekar, NS Kute
Vegetable Science 40(2), 217-218
- 1824 Genetic divergence in eggplant (*Solanum melongena* L.)
SP Mishra, A Jha, MK Kushwah, VK Mishra
Vegetable Science 40(2), 219-220
- 1825 Effect of micronutrients on plant growth and fruit yield parameters of bell pepper (*Capsicum annum* L.) grown under mid hills condition of Himachal Pradesh
G Dubey, AS Parmar, HS Kanwar, SC Verma, DK Mehta
Vegetable Science 40(2), 221-222
- 1826 Induced mutagenesis in okra [*Abelmoschus esculentus* (L.) Moench] by gamma rays and ethyl methane sulphonate
PA Jadhav, HV Kalpande, SK Arbad, AR Mali
Vegetable Science 40(2), 223-224
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Y Mogili, KV Shureshbabu, TE Gorge, KP Prasanna, SK Methew, S Krishnan
Vegetable Science 40(2), 225-227
- 1828 Effect of herbicides on weed intensity, weed control efficiency and yield in kharif onion cv Phule Samarh
KG Shindhe, MN Bhalekar, BP Patel
Vegetable Science 40(2), 228-230

- 1829 Effect of metrological factors on the population dynamics of insect's pests of tomato
D Sharma, A Makbool, H Ahmad, K Srivastava, M Kumar, VVS Jamwal
Vegetable Science 40(2), 231-233
- 1830 Extending harvest duration in tomato (*Solanum lycopersicum* L.) with a combination of varieties, row spacings and planting systems
KS Sikawal, DK Sarolia, RL Bhardwaj, RA Kaushik, HK Jain, KD Ameta, ...
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- 1831 Heterosis in cowpea (*Vigna unguiculata* L. Walp)
DB Kajale, Y Ravindrababu, DB Prajapati, AA Khule
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- 1832 Transgressive segregation in F3 generation of intervarietal crosses of tomato (*Solanum lycopersicon* L.)
DB Kshirsagar, MN Bhalekar, RS Patil, NS Kute, SB Patil
Vegetable Science 40(2), 240-242
- 1833 Performance of organic leafy vegetables production under Hyderabad conditions
PM Latha, V Joshi, K Siresha, M Vijaya
Vegetable Science 40(2), 243-245
- 1834 Effect of integrated nutrient management growth and yield of okra (*Abelmoschus esculentus* (L). Moench)
cv. Arka Anamika
K Gayathri, P Reddy
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P Shamprasad, AT Sadashiva, KV Ravishankar, MK Reddy
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- 1836 Assessment of combining ability and heterosis involving root knot nematode resistant lines in tomato
DS Cheema, H Singh, SK Jindal, S Kaur
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- 1837 Response of cucumber to combined application of organic manures, biofertilizers and chemical fertilizers
Y Bindiya, IP Reddy, D Srihari
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- 1838 Development of value added vegetable soup by adding paneer whey
DC Rai, M Kumar, PR Patel, A Upadhyay
Vegetable Science 41(1), 16-18
- 1839 Garden pea harnessing high remuneration leads to livelihood security in eastern Uttar Pradesh
N Singh, S Roy, AB Rai, B Singh
Vegetable Science 41(1), 19-21
- 1840 Biomass accumulation and essential oil quality of geranium in geranium garlic intercropping system as affected by levels of nitrogen application
S Singh, M Ram, N Yadav
Vegetable Science 41(1), 22-26
- 1841 Soil microflora, fruit quality and yield of tomato as affected with application of organics, inorganics and bioinoculants
SS Kushwah, AK Naidu
Vegetable Science 41(1), 27-30
- 1842 Heterosis and combining ability in indeterminate tomato
RS Rattan, A Bindal
Vegetable Science 41(1), 31-33

- 1843 Impact of various IPM modules on major pests of cucumber at Dehradun (Uttarakhand)
SS Singh, MK Rai, SK Dwivedi
Vegetable Science 41(1), 34-36
- 1844 Genetic analysis of yield and yield attributing traits in bitter gourd
A Shukla, U Singh, AK Rai, DR Bharadwaj, M Singh
Vegetable Science 41(1), 37-41
- 1845 Growth and productivity of garlic influenced by plant geometry and cultivars
G Patel, IS Naruka, P Singh, RPS Shaktawat, D Singh
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- 1846 Genetic divergence in okra
Y Mogili, KV Babu, TE George, KP Prasanna, SK Mathew, S Krishnan
Vegetable Science 41(1), 45-46
- 1847 Nutritional quality and antioxidant activity in brinjal treated by *Trichoderma harzianum*
SP Singh, HB Singh
Vegetable Science 41(1), 47-49
- 1848 Gene action for fruit characters in eggplant
AM Ansari, YV Singh
Vegetable Science 41(1), 50-53
- 1849 Correlation and path analysis in garlic
S Vatsyayan, PS Brar, RK Dhall, H Singh
Vegetable Science 41(1), 54-55
- 1850 Path coefficient analysis for pod yield in French bean
D Mehra, DK Singh
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- 1851 Genetic analysis of fruit yield and its component trait in a diallel cross of brinjal
AK Singh, RS Pan
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- 1852 Categorization of spine gourd based on dus test guidelines
P Basumatary, GC Bora, J Saikia, UC Kalita, K Baruah
Vegetable Science 41(1), 60-62
- 1853 Screening of tomato genotypes for resistance to tomato leaf curl virus (ToLCV)
K Yadav, P Sadankumar, S Nirmaladevi, SK Methew, TE Gorge, SK Krishnan
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- 1854 Optimization of quantity of foliar spray of boron and zinc in chilli for Kymore plateau and Satpura hills of Madhya Pradesh
NK Singh, TR Sharma, NK Bisen, KK Deshmukh
Vegetable Science 41(1), 66-67
- 1855 Record of hymenopterous natural enemies of *Pieris brassicae* from India
S Mirfakhraie, D Dey
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- 1856 The efficacy of insecticides against diamondback moth
NK Yadav, YP Malik
Vegetable Science 41(1), 71-73
- 1857 Evaluation of different biological based IPM modules on major diseases and insect-pests of tomato
KK Pandey, S Satpathy, KK Mishra
Vegetable Science 41(1), 74-76
- 1858 Low tunnel technology for boosting the economy of farmers in Ladakh
M Mehdi, HK Rai, F Ahmad, A Kumar, S Kumar
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- 1859 Food value of spreading hogweed under different nutrient combinations
MV Menon
Vegetable Science 41(1), 80-81
- 1860 Shelf Life and quality of baby corn as affected by different gauges and ventilations of polybags under cool chamber
VS Vani, BT Priya, P Reddy
Vegetable Science 41(1), 82-83
- 1861 Quality seed production of okra under northern plains of India
V Sharma, V Singh, AC Yadav, D Duhan
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- 1862 Correlation and path coefficient analysis in cauliflower
KP Singh, RN Jha, R Kumar, A Ranjan
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B Jerli, A Rai, Devraj, P Saroj, M Singh, A Singh, K Kumar, P Kumar
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M Kumar, AK Yadav, RK Yadav, HC Singh, VK Yadav, PK Yadav
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J Halder, RB Yadava, AB Rai
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- 1866 Effect of plant growth regulators on growth, flowering quality of tomato
PPS Verma, P Chaudhary
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- 1867 Yield and yield attributes of cowpea in relation to phosphorus levels and bio-inoculants
RN Prasad, RK Singh, RB Yadava, SNS Chaurasia
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K Singh
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MDM Chamikara, M Ishan, SS Karunadasa, M Perera, PI Rajapaksha, ...
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- 1870 Response of brinjal genotypes to drought and flooding stress
RM Bhatt, RH Laxman, TH Singh, MH Divya, Srilakshmi, A Nageswar Rao
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- 1871 Performance of some introduced fresh market tomato in Ghana
GAK Gongolee, MK Osei, R Akromah, D Nyadanu, LM Aboagye
Vegetable Science 41(2), 125-128
- 1872 Plant regeneration, genetic transformation and expression of *gus* gene in broccoli
K Dhiman, S Verma, DK Srivastava
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- 1873 Comparative study on knowledge and adoption of improved practices by tomato grower in chikmagalore and Raichur districts, Karnataka
N Kumara
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- 1874 Development of flavored bitter gourd chips
S Singh, D Kumar, RK Pandey, DC Rai
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- 1875 Effect of tillage, planting method and residue management on energetics and economics of cowpea in the Indo-Gangetic plain of Eastern Uttar Pradesh
TD Lama, RB Yadava, A Bahadur, SNS Chaurasia, B Singh
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A Kumari, G Gambhir, DK Srivastava
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- 1877 Effect of integrated use of organic manures and fertilizers on yield, nutrient uptake and soil fertility in onion on red soils of Vindhyan region
SN Singh, P Rai, SR Singh, SK Goyal, SP Singh
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- 1878 Effect of humic acid multinutrient complex fertilizers on yield and quality of tomato and potato
S Rajendiran, TJ Purakayastha
Vegetable Science 41(2), 155-159
- 1879 Combining ability analysis in chilli
VC Navhale, VV Dalvi, MM Wakode, NB Gokhale, JS Dhekale
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- 1880 Effect of different pre-harvest chemical sprays on growth, yield and quality attributes of onion
V Anbukkarasi, P Paramaguru, L Pugalendhi, N Ragupathi, P Jeyakumar
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S Kaur, S Singh
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- 1882 Line x Tester analysis of five characters in tomato
RS Rattan, A Bindal
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- 1883 Combining ability analysis in bitter gourd using gynocious lines
A Shukla, AK Rai, DR Bharadwaj, U Singh, M Singh
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- 1884 Effect of soil moisture regimes and mulch materials on growth, yield and economics of summer squash in Uttarakhand hills
P Thapliyal, L Bhatt, SP Uniyal, SK Maurya
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- 1885 Heterosis and combining ability studies for quantitative and qualitative traits in bell pepper
V Pandey, A Chura, MC Arya, M Nasim
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NK Bhardwaj, V Singh, SK Tiwari, M Singh
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- 1887 Balance nutrition in tomato through nutrient management for quality production of fruits
DP Singh, T Chaubey, B Singh, UC Mishra, PK Chaubey
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- 1888 Evaluation and characterization of spine gourd germplasm of Assam
P Basumatary, GC Bora, UC Kalita, L Saikia
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- 1889 Heterosis, combining ability and gene action studies in sweet potato
PC Chaurasiya, J Singh, SN Dikshit, N Mehta
Vegetable Science 41(2), 208-210
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K Sadaiah, VN Reddy, SS Kumar, MS Kumar
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- 1891 Genetic characterization in vegetable cowpea
Nancee, MK Rana, PS Partap, R Ranjan
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A Bhattacharya, B Palan, L Verma, K Mali, B Char
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BK Singh, B Singh
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B Ram, RR Acharya
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- 1896 Development of intermediate moisture product from carrot pulp
P Aggarwal, R Kaur
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- 1897 Participatory variety evaluation and influencing factors appraisal for offseason cabbage cultivation on rainfed uplands of Odisha
J Maharana, P Acharya, A Das, P Jakhar
Vegetable Science 42(1), 38-43
- 1898 True seed production of garlic (*Allium sativum* L.) in sub-tropical plains of India
RK Dhall
Vegetable Science 42(1), 44-48
- 1899 Effect of planting time and phosphorus dosage on growth, flowering, yield and quality of Indian bean (*Lablab purpureus* L.)
B Kharbamon, AK Jha, VK Verma, BU Choudhury, BC De
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PK Pawar, KG Shinde, MN Bhalekar, BT Patil
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R Babu, Singh, SK Jawandha, MS Alam, SK Jindal, DS Khurana
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- 1902 Combining ability studies in bottle gourd (*Lagenaria siceraria* (Mol.) Standl.)
RL Raut, SP Mishra
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S Akhtar, P Hazra
Vegetable Science 42(1), 67-71
- 1904 Genetic divergence in eggplant (*Solanum melongena* L.)
R Khan, YV Singh
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R Kumar, S Kumar, D Kumar, YR Shukla, RK Gupta
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- 1906 Yield and yield contributing characters as influenced by integrated nutrient management and sowing methods in European carrot (*Daucus carota* L.)
A Chauhan, R Kumar, R Gupta
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B Deepthi, PSS Reddy, MP Rao, P Asho
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DK Singh, SK Maurya, A Singh, DP Singh
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S Sivathanu, GM Yassin, SR Kumar
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- 1910 Integrated management of *Colletotrichum lindemuthianum*, the incitant of anthracnose in Cowpea
MR Satpathy, SK Beura
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- 1911 Morphological characterization of chilli genotypes
S Sarkar, P Hazra, A Chattopadhyay
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- 1912 Studies on integrated nutrient management on yield contributing characters and soil nutrient status in onion (*Allium cepa* L.)
KG Shinde, DH Rathod, MN Bhalekar, BT Patil
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- 1913 Field evaluation of different fungicides against powdery mildew of cluster bean
MD Sangani, LF Akbari, IB Kapadiya, SV Lathiya
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- 1914 Genetic variability and heritability studies in pole type Indian bean (*Lablab purpureus* L. Sweet)
BT Patil, AF Inamdar, MN Bhalekar, KG Shinde
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AC Mishra
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SR Babu, V Singh
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R Patel, SK Sengupta, S Prajapati
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KG Shinde, JM Kadam, MN Bhalekar, BT Patil
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- 1919 Effect of time and frequency of jerking on growth and yield of carrot (*Daucus carota* L.) cv. Super Lal
DK Singh, S Aswal, G Aswani, MK Shivhare, L Jat, NS Devra
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M Hazarika, DB Phookan, A Basumatary
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RC Mathad, SB Patil
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- 1922 Character association and path analysis in vegetable cowpea [*Vigna unguiculata* (L.) Walp.] MK Nancee, PS Partap, R Ranjan
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D Sharma
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N Chawda, V Chawda
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BM Singh, T Singh, VK Verma
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SK Dingre, DD Pawar
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DK Sahu, CP Khare, HK Singh, MP Thakur
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J Halder, AB Rai, D Dey
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D Sharma, CP Khare
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- 1932 Characterization of exotic germplasm of tomato (*Solanum lycopersicum* L.) and variability studies at mid hills of Himalaya
A Agarwal, R Ranjan, M Nasim
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S Dhar
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- 1934 Estimation of mutagenic efficiency and effectiveness of ethyl methane sulphonate in two divergent lines of tomato (*Solanum lycopersicum* L.)
S Sikder, B Das, P Hazra
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A Panchbhaiya, DK Singh
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S Natarajan, JA Joshi, M Priyadharshini
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HK Gautam, NN Singh, AB Rai
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D Vishal, D Swapnil
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RS Yadav, D Kumar, U Singh, DK Singh
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VK Sachan, R Kumar
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S Vatsyayan, PS Brar, RK Dhall
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SK Jindal, A Khan
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A Verma, DK Singh
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M Revathy, V Kanthaswamy
Vegetable Science 42(2), 104-106
- 1949 Effect of irrigation systems and NPK levels on onion (*Allium cepa* L.) in temperate hills
AC Mishra, A Raturi
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- 1950 Correlation and path analysis in oriental pickling melon
RR Babu, NH Rao, R Reddy, M Sujatha
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- 1951 Combining ability studies in chilli
M Ramgiry, RK shrivastav
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VM Ganiger, B Goudappanavar, SP Gondi, G Bhuvaneshwari
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P Sarmah, GC Bora, NK Chaurasia
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MJ Bharathi, D Balachander
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- 2051 Heterosis for morphological and yield traits in bitter gourd (*Momordica charantia* L.)
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U Kumar, G Chandra, M Raghav
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AK Singh, RS Pan, P Bhavana, A Srivastava, T Seth
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AK Singh, AK Chaurasiya, S Mitra
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PK Kujur, V Bahadur, R Shrivastava, A Kumar
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SP Singh, S Laddha, SK Pal
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- 2059 Morphological characterization of bottle gourd [*Lagenaria siceraria* (Mol.) Standley] genotypes
DS Sachin, Duhan, VPS Panghal, MK Rana
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- 2062 Effect of carnauba wax coating on the quality and shelf life of carrot (*Daucus carota* L.)
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H Sutradhar, VK Pandita, BS Tomar
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AK Rai, SS Vaish, HB Singh
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NK Singh, S Bisen
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- 2071 Saag Sarson: A new variety of Chinese cabbage (*Brassica rapa* subsp. *chinensis*)
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- 2072 Character association studies for traits of economic importance in okra
PS Ranpise, BT Patil, VR Joshi
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- 2073 Evaluation of vegetable soybean genotypes for plant growth and seed quality traits
RS Nayana, B Fakrudin
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- 2074 Genetic architectural study for yield and yield contributing traits in diverse genotypes of bitter melon (*Momordica charantia* L.)
DP Moharana, MM Syamal, AK Singh
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V Korat, BR Patel, DP Gohil
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MB Devi, NK Pathania
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S Maragal, AK Singh, TK Behera, AD Munshi
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DP Singh, T Chaubey, B Singh
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BK Singh, PM Singh, B Singh
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RB Babu, K Singh, SK Jindal
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DS Duhan, MK Rana, H Singh, M Mazoka
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S Bhagat, SK Sinha, JK Tiwari
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- 2092 Genotypic response to bolting tolerance in short day onion (*Allium cepa* L.)
AJ Gupta, V Mahajan, KE Lawande
Vegetable Science 45(1), 92-96
- 2093 Effect of drip irrigation and fertigation on growth and yield of garden pea
S Garg, A Singh, R Sharda
Vegetable Science 45(1), 97-101
- 2094 Genotypic variability in physiological response to deficit water condition in bell pepper (*Capsicum annuum* L.)
RM Bhatt, MR Namratha, M Sharma, KK Upreti, RH Laxman, KM Reddy
Vegetable Science 45(1), 102-108
- 2095 Genetic variability among bacterial wilt resistant genotypes of sweet pepper for yield and morpho-physiological traits under mid hill conditions of North Western Himalayas
Y Singh, R Thakur, BS Sekhon
Vegetable Science 45(1), 109-115
- 2096 Flower and fruit colour variability in Indian spinach (*Basella alba*)
Pragya, B Singh, PM Singh, JK Ranjan, V Sagar, R Bhardwaj, CD Pandey
Vegetable Science 45(1), 116-117
- 2097 Identification and possibility of monoecious inbred of muskmelon (*Cucumis melo* L.) for heterosis breeding
BR Choudhary, SM Haldhar, SK Maheshwari
Vegetable Science 45(1), 118-120
- 2098 Beta-carotene rich pure line of tomato with yellow-orange fruit colour
A Agarwal, O Prakash, SK Dwivedi, M Bala
Vegetable Science 45(1), 121-123
- 2099 'Punjab Gaurav' and 'Punjab Sartaj': Tomato varieties for polyneet house cultivation
MS Dhaliwal, SK Jindal
Vegetable Science 45(1), 124-126
- 2100 Morphological characterization and components of genetic variation in brinjal (*Solanum melongena* L.)
S Kaur, MK Sidhu, AS Dhatt
Vegetable Science 45(1), 127-130
- 2101 Effect of herbicides and mulches on production of onion (*Allium cepa* L.) in western Maharashtra
KG Shinde, MN Bhalekar, DN Damse, BT Patil
Vegetable Science 45(1), 131-133
- 2102 Response of organic inputs on growth, yield and quality of ridge gourd (*Luffa acutangula* Roxb.)
N Barik, DB Phookan, J Saikia
Vegetable Science 45(1), 134-136

- 2103 Seed priming durations and concentrations influence on germination and seedling growth of bitter gourd
A Debbarma, J Devi, M Barua
Vegetable Science 45(1), 137-139
- 2104 Pest profiling and varietal screening of winged bean (*Psophocarpus tetragonolobus*): A lesser known green vegetable and grain legume in Eastern Uttar Pradesh, India
J Halder, D Kushwaha, RK Dubey, AB Rai, B Singh
Vegetable Science 45(1), 140-143
- 2105 Punjab Sona Cherry and Punjab Kesar Cherry-Varieties of cherry tomato for naturally ventilated polynet house cultivation
MS Dhaliwal, SK Jindal
Vegetable Science 45(1), 144-147

Vegetable Science 45(2), 2018

- 2106 Genetic analysis and identification of molecular marker linked to the gene for fruit skin colour in eggplant (*Solanum melongena* L.)
N Bhanushree, P Saha, BS Tomar, YA Lyngdoh, G KS, B Gurung, ...
Vegetable Science 45(2), 149-153
- 2107 Genetic studies of yield and its component traits using generation mean analysis in summer squash (*Cucurbita pepo* subsp. *pepo*)
N Kaur, AS Dhatt, MK Sidhu
Vegetable Science 45(2), 154-160
- 2108 Variability and character association studies for horticultural and quality traits in garden pea (*Pisum sativum* L. var. *hortense*)
J Devi, SK Sanwal, TK Koley, RK Dubey, PM Singh, B Singh
Vegetable Science 45(2), 161-165
- 2109 Screening of tetraploidy induction methods using anti-microtubule agent colchicine in watermelon (*Citrullus lanatus* (Thunb.) Matsum & Nakai)
B Kaur, R Singh, D Singh
Vegetable Science 45(2), 166-172
- 2110 Genetic variability, heritability and genetic advances analysis for quantitative traits in bottle gourd [*Lagenaria siceraria* (Mol.) Standl.] genotypes
SS Chikkeri, DS Duhan, VPS Panghal, RK Arya
Vegetable Science 45(2), 173-179
- 2111 Elucidation of correlation and path coefficient analysis for various morphological attributes in elite genotypes of bitter melon (*Momordica charantia* L.)
DP Moharana, MM Syamal, AK Singh, KK Gautam
Vegetable Science 45(2), 180-184
- 2112 Selection parameters for yield and quality traits in Bhut Jolokia (*Capsicum chinense* Jacq.) under poly-house condition from North East India
E Mena, SD Warade, RK Dubey, M Ansari, MT, Ramjan
Vegetable Science 45(2), 185-190
- 2113 Genetic variability studies in tomato (*Solanum lycopersicum* L.) under ecofriendly management
V Chabbi, RK Gupta, S Kumar, M Kumar
Vegetable Science 45(2), 191-196
- 2114 Effect of micronutrient foliar application on seed yield and storability of pea cv. Master B AF El-Aidy, NA Hassan, YB El-Warakly, FESA El-Ftooh
Vegetable Science 45(2), 197-203
- 2115 Heterosis for yield and its contributing traits in sponge gourd [*Luffa cylindrica* (Roem) L.]
YP Singh, VB Singh
Vegetable Science 45(2), 204-209

- 2116 Heterosis and potence ratio studies for yield and its contributing traits in cucumber (*Cucumis sativus* L.)
R Kumari, DK Kumar, Ramesh, Mehta, RK Dogra, V Banyal
Vegetable Science 45(2), 210-219
- 2117 Effect of date, method of sowing and seed rate on growth, yield and seed quality attributes in garden pea
SK Singh, S Kumari, BS Tomar, YS Shivay, MA Joshi
Vegetable Science 45(2), 220-225
- 2118 DUS characterization and assessing the diversity of varieties in onion and garlic
AJ Gupta, V Mahajan
Vegetable Science 45(2), 226-231
- 2119 Combining ability analysis for yield and quality traits in ridge gourd (*Luffa acutangula* L. Roxb.)
A Chittora, RA Kaushik, KD Ameta
Vegetable Science 45(2), 232-237
- 2120 Comparative production performance of vegetable crops in the country visà-vis Eastern India
N Ahmad, DK Sinha, KM Singh, RR Mishra
Vegetable Science 45(2), 238-243
- 2121 Nutritive values, dietary antioxidant and seed protein profile of some underutilized seeds and nuts from ethnic sources
K Kalita
Vegetable Science 45(2), 244-248
- 2122 Effect of exogenous application of phytohormones and fungicides on yield, quality storability and economics of garlic (*Allium sativum* L.)
M Ram, S Kumar, S Chopra, M Kumar, RK Gupta
Vegetable Science 45(2), 249-253
- 2123 Effect of different growing methods and integrated nutrient management systems on yield and yield contributing traits of broccoli [*Brassica oleracea* (L.) var. *italica*]
R Kumar, MK Sharma
Vegetable Science 45(2), 254-257
- 2124 Bioefficacy and phytotoxicity study of Fosetyl Al 80 WP on tomato seedlings against the damping off disease
N K, S Saha, S Kumari, RM Rai, AB Rai, B Singh
Vegetable Science 45(2), 258-261
- 2125 Management of root- knot nematode *Meloidogyne incognita* in tomato with liquid bioformulations
MT Gowda, C Sellaperumal, BR Reddy, AB Rai, B Singh
Vegetable Science 45(2), 262-268
- 2126 Punjab Swarna: high yielding tomato variety for naturally ventilated polynet house cultivation
SK Jindal, MS Dhaliwal
Vegetable Science 45(2), 269-271
- 2127 Correlation and path coefficient analysis for growth, yield and its associated traits in sponge gourd [*Luffa cylindrica* (Roem) L.]
YP Singh, VB Singh, PP Kumar, MK Singh
Vegetable Science 45(2), 272-276
- 2128 Genetic divergence studies in green fruited brinjal (*Solanum melongena* L.)
PI Vethamoni, N Nirmala, Natarajan
Vegetable Science 45(2), 277-280
- 2129 Comparative investigation of genetic diversity in garden pea (*Pisum sativum* var. *hortense* L.) for yield and yield attributing characters
KK Gautam, DP Moharana, MM Syamal, V Singh
Vegetable Science 45(2), 281-283

- 2130 GH-22: A new bottle gourd variety
DS Duhan, NK Sharma
Vegetable Science 45(2), 284-286
- 2131 Field assessment of tinda [*Praecitrullus fistulosus* (Stocks) Pangalo] genotypes under lateritic soils of Eastern India
J Mandal, S Mohanta
Vegetable Science 45(2), 287-290
- 2132 Kashi Bathua-2: A bathua variety for higher nutrient and yield
BK Singh, SNS Pragya, Chaurasia, B Singh, PM Singh
Vegetable Science 45(2), 291-293
- 2133 Evaluation of cherry tomato varieties (*Solanum lycopersicum* var. *cerasiforme*) for growth, yield and quality under naturally ventilated polyhouse
S Gyadi, DB Phookan
Vegetable Science 45(2), 294-296
- 2134 Impact of pre-storage seed invigoration in ash gourd [*Benincasa hispida* (Thunb.) Cogn.]
S Athmaja, RM Francies, Dijee Bastian, ST George, Anita Cherian K
Vegetable Science 45(2), 297-299
- 2135 Effect of plastic mulches on performance of brinjal (*Solanum melongena* L.) in temperate Himalaya
AC Mishra
Vegetable Science 45(2), 300-302

Vegetable Science 46(1&2), 2019

- 2136 Root knot nematodes menace in vegetable crops and their management in India: A Review
MT Gowda, AB Rai, B Singh
Vegetable Science 46(1&2), 1-16
- 2137 Identification of resistant sources against chilli leaf curl virus disease through field and molecular screening in chilli
R Kumar, I Prasad, AK Singh, A Rai, K Nagendran, PM Singh, J Singh
Vegetable Science 46(1&2), 17-22
- 2138 Effect of farming conditions on bacterial wilt incidence in brinjal
N Rathore, V Katoch, V Kumari, S Chadha, B Akanksha, S Kumar, ...
Vegetable Science 46(1&2), 23-27
- 2139 Standardization of sowing date and covering material under low tunnels for early harvest of long melon
AK Verma, BR Choudhary, DK Samadia, D Singh
Vegetable Science 46(1&2), 28-33
- 2140 Effect of γ -irradiation on in vitro pollen germination of muskmelon (*Cucumis melo* L.)
HA Kaur, SP Sharma, A Kalia, NK Sarao
Vegetable Science 46(1&2), 34-38
- 2141 Effect of transplanting dates and mulching on growth and yield of tomato (*Solanum lycopersicum* L.)
S Tomar, D Beniwal
Vegetable Science 46(1&2), 39-43
- 2142 Selection criteria for genetic improvement of sugar snaps (*Pisum sativum* var. *saccharatum*) based on components of genetic variability
A Chauhan, A Sharma, V Kumari
Vegetable Science 46(1&2), 44-49
- 2143 Diversity analysis of bottle gourd (*Lagenaria siceraria* (Molina) Standl.) germplasm by multivariate analysis
K Shubha, R Srivastava, KK Gangopadhyaya, JC Rana
Vegetable Science 46(1&2), 50-55

- 2144 Effect of FYM and gypsum with high RSC water application on growth and phenological characters of radish (*Raphanus sativus* L.)
DR Choudhary, A Singh, VPS Panghal
Vegetable Science 46(1&2), 56-59
- 2145 Assessment of competitive indices in intercropping system of brinjal and palak
S Kumar, SK Dhankhar, V Kumar, N Sehgal
Vegetable Science 46(1&2), 60-65
- 2146 Effect of genotype and spacing on yield and quality traits in broccoli (*Brassica oleracea* var. *italica* Plenck) under Pune conditions
KK Bhangre, MN Bhalekar
Vegetable Science 46(1&2), 66-71
- 2147 Response of soil applied lignite coal derived humic acid on yield and quality of spinach (*Spinacia oleracea* L.)
AN Dubey, P Raha, A Kundu
Vegetable Science 46(1&2), 72-77
- 2148 In vitro propagation of golden berry (*Physalis peruviana* L.): A review
S Yadav, N Barnwal, GK Rai, M Bajpai, NP Rai
Vegetable Science 46(1&2), 78-82
- 2149 Screening tomato genotypes for resistance against collar rot disease caused by *Alternaria solani* Sorauer
SR Yerasu, L Murugan, HC Prasanna, A Singh
Vegetable Science 46(1&2), 83-87
- 2150 Genetic variability, heritability and genetic advance for horticultural traits and mineral content in watermelon
J Jamatia, H Choudhary, TK Behera, VK Sharma
Vegetable Science 46(1&2), 88-91
- 2151 Estimation of phenotypic divergence in a collection of muskmelon germplasm, including Indian and exotic populations
D Singh, SP Sharma, VK Vashisht, N Chawla
Vegetable Science 46(1&2), 92-96
- 2152 Nitrogen management in okra through neem coated urea
UC Sati, M Raghav, K Sati
Vegetable Science 46(1&2), 97-101
- 2153 Determination of selection parameters for genetic improvement by evaluating F_7 progenies of green chilli
PS Negi, A Sharma
Vegetable Science 46(1&2), 102-106
- 2154 Evaluation of onion genotypes suitable for organic farming
AJ Gupta, V Mahajan, KE Lawande
Vegetable Science 46(1&2), 107-113
- 2155 Impact of biofertilizer and mulch on growth, yield and soil health parameters in pea (*Pisum sativum* L.)
T Singh, HC Raturi, L Bora, YR Shukla
Vegetable Science 46(1&2), 114-119
- 2156 Effects of gamma radiation on germination and growth characteristics of spine gourd (*Momordica dioica* Roxb.)
JK Tiwari, D Sharma, V Kumar, BK Das
Vegetable Science 46(1&2), 120-122
- 2157 PSM-1: A high yielding bell pepper variety having seed production potential under North Indian plains
SK Jindal, MS Dhaliwal
Vegetable Science 46(1&2), 123-125

- 2158 Acuity analysis of the vegetable experts to determine the priorities in sustainable vegetable production technologies
S Roy, N Singh, SM Vanitha, RN Prasad, J Singh
Vegetable Science 46(1&2), 126-128
- 2159 Growth, yield and quality of onion cultivars under laterite belt of Eastern India
J Mandal, R Ajgalley, D Saha, S Mohanta
Vegetable Science 46(1&2), 129-131
- 2160 Studies on parameters of genetic variability for yield and its attributing traits in chilli (*Capsicum annuum* L.)
V Kumari, J Singh, S Mishra, D Sharma
Vegetable Science 46(1&2), 132-134
- 2161 Punjab Kheera-1: A new variety of parthenocarpic cucumber for poly net house cultivation
RK Dhall
Vegetable Science 46(1&2), 135-138
- 2162 Generation mean analysis for earliness and yield traits in yard long bean (*Vigna unguiculata* subsp. *sesquipedalis* (L.) verdcourt)
EG Merin, S Sarada
Vegetable Science 46(1&2), 139-141
- 2163 PTH-2: A multiple disease resistant hybrid of tomato
SK Jindal, MS Dhaliwal
Vegetable Science 46(1&2), 142-144
- 2164 Performance of advanced breeding lines of green-long brinjal for resistance to bacterial wilt disease resistance, yield and quality attributes
KP Sahana, J Kattogoudar, HB Lingaih, CG Sangeetha, SJ Prashant, K Padmanabha, J Ugalat
Vegetable Science 46(1&2), 145-147
- 2165 Standardization of seed germination testing protocol in *Moringa oleifera* Lam
N Gupta, C Manimurugan, PM Singh, R Kumar, L Mishra, V Sagar
Vegetable Science 46(1&2), 148-151

Vegetable Science 47(1), 2020

- 2166 Genetic homology between the CMS (A) and their alloplasmic maintainer (B) line in chilli pepper through SSR markers
SK Jindal, MS Dhaliwal, OP Meena
Vegetable Science 47(1), 1-6
- 2167 Heterosis in watermelon for yield and quality traits [*Citrulus lanatus* (Thunb.) Matsum. & Nakai]
G Singh, R Singh, D Singh
Vegetable Science 47(1), 7-15
- 2168 Unleashing the genetic potential of CMS-based F1 hybrids of radish (*Raphanus sativus* L.) to winter and summer temperature
BK Singh, PM Singh
Vegetable Science 47(1), 16-22
- 2169 Callus induction and plant regeneration of tomato through anther culture
S Kumar, SK Jindal, NK Sarao, MS Dhaliwal
Vegetable Science 47(1), 23-27
- 2170 Variability, character association and path analysis in garden pea (*Pisum sativum* L.)
A Bhardwaj, A Sharma, H Lata
Vegetable Science 47(1), 28-33

- 2171 Genetic improvement through chemical and physical mutagenesis for enhanced leaf production in moringa (*Moringa oleifera* Lam.)
CS Prasanth, AJ Pulical, M Govindaswamy, SS Vanjinathan
Vegetable Science 47(1), 34-38
- 2172 Development of integrated disease management (IDM) module for major diseases in bitter melon
K Nagendran, S Kumari, V Dubey, KK Pande
Vegetable Science 47(1), 39-43
- 2173 Productivity enhancement of organic lettuce through use of organic manures, biofertilizers and bio-stimulants
S Saha, R Chatterjee, A Das
Vegetable Science 47(1), 44-48
- 2174 Screening of onion genotypes for sets production and raising of early kharif crop
AJ Gupta, V Mahajan, KE Lawande, M Singh
Vegetable Science 47(1), 49-54
- 2175 Heterosis for quantitative and qualitative traits in brinjal (*Solanum melongena* L.)
D Rameshkumar, IP Vethamonai
Vegetable Science 47(1), 55-61
- 2176 Effect of lime and organic manures on yield and quality of tomato and capsicum grown under protected condition in the mid-hills of Meghalaya
VK Verma, BC Verma, AK Jha
Vegetable Science 47(1), 62-68
- 2177 Clustering of knolkhol (*Brassica oleracea* var. *gongyloides* L.) genotypes for various quantitative and quality traits
R Dolkar, RK Samnotra, SK Sharma
Vegetable Science 47(1), 69-73
- 2178 Effect of paddy straw mulch, irrigation regimes and nitrogen levels on the performance of spring transplanted bell pepper in semi-arid environment of South-Western Punjab
A Kaur, KS Sekhon, S Thaman, AS Sidhu, N Garg, N Chawla
Vegetable Science 47(1), 74-79
- 2179 Effect of drip irrigation scheduling and mulching on plant growth, physiology, yield, water use efficiency and weed growth in spring-summer okra (*Abelmoschus esculentus* Muench)
A Bahadur, DK Singh, MA Nadeem, S Singh, AK Singh, RN Prasad
Vegetable Science 47(1), 80-84
- 2180 Character associations and path analysis for horticultural traits and fruit fly infestation in oriental pickling melon (*Cucumis melo* var. *conomon* Mak.)
R Silpa, P Anitha, T Pradeepkumar, CL John
Vegetable Science 47(1), 85-92
- 2181 Response of plant growth regulators and trace elements on growth, flowering and yield of bottle gourd cv. GH 22
A Rahman, DS Duhan, PK Zood, H Raj
Vegetable Science 47(1), 93-98
- 2182 Effect of head manipulation techniques and planting distance on seed yield and yield contributing parameters of cabbage (*Brassica oleracea* var. *capitata*)
N Kurmanchali, AC Mishra, A Kukreti, M Kurmanchali
Vegetable Science 47(1), 99-104
- 2183 Influence of foliar nutrients on growth and yield of potato (*Solanum tuberosum* L.)
R Bhatt, M Raghav, UC Sati
Vegetable Science 47(1), 105-109

- 2184 Effect of foliar application of boron, iron and zinc on growth, yield and economics of cucumber grown under naturally ventilated polyhouse condition
MK Sidhu, HC Raturi, SK Singh, L Bora, YR Shukla
Vegetable Science 47(1), 110-115
- 2185 Molecular screening of Indian garlic genotypes (*Allium sativum* L.) for bolting using DNA based Bltm markers
AP Benke, A Nair, R Krishna, S Anandhan, V Mahajan, M Singh
Vegetable Science 47(1), 116-120
- 2186 Identification of purple blotch and thrips resistant lines of onion (*Allium cepa* L.)
DC Manjunathagowda, M Anjanappa, KS Shankarappa
Vegetable Science 47(1), 121-123
- 2187 Studies on gene action expression of yield and yield related traits of brinjal (*Solanum melongena* L.)
S Kaseera, S Saravanan, V Bahadur, VM Prasad
Vegetable Science 47(1), 124-126
- 2188 Efficacy of integrated pest management (IPM) modules against fruit fly (*Bactrocera cucurbitae* C.) in bitter gourd
US Nayak, SS Mahapatra
Vegetable Science 47(1), 127-130
- 2189 Punjab Tinda 1: An early bearing new variety of round gourd [*Praecitrullus fistulosus* (Stocks) Pangalo]
N Garg
Vegetable Science 47(1), 131-134
- 2190 Development and evaluation of integrated disease management module for leaf curl disease in chilli
K Nagendran, S Kumari, V Dubey, R Kumar, KK Pandey
Vegetable Science 47(1), 135-137
- 2191 Variability in morphology and yield attributes of pumpkin varieties grown in South India
A Gopan, RM Francies, D Bastian
Vegetable Science 47(1), 138-141
- 2192 Evaluation of soilless growing media for cost effective production of coloured capsicum under protected conditions
RS Spehia, M Devi, DK Mehta
Vegetable Science 47(1), 142-145
- 2193 Evaluation of different growing media for tomato nursery
P Mahala, RK Sharma
Vegetable Science 47(1), 146-149
- 2194 Perspicacity analysis for priority setting in processing and post-harvest sector of vegetables in India
S Roy, N Singh, RN Prasad, S Singh, J Singh
Vegetable Science 47(1), 150-152
- 2195 Genetic analysis of bacterial wilt resistance in hot pepper (*Capsicum annum* L.)
GS Naveena, V Sandeep, N Ponnamp, M Kumari, GC Acharya, P Srinivas, ...
Vegetable Science 47(1), 153-156

Vegetable Science 47(2), 2020

- 2196 Culinary melon of South India: A review
KRM Swamy, P Nath
Vegetable Science 47(2), 157-175
- 2197 Genetic diversity analysis using SSR markers for high temperature tolerance in tomato (*Solanum lycopersicum* L.)
S Shaji, A Vijayakumar, S KB, S Alex, V MM
Vegetable Science 47(2), 176-182

- 2198 Confirmation of hybridity in DOGR hybrids of onion (*Allium cepa* L.) using SSR markers
AJ Gupta, S Anandhan, V Mahajan, SK Kad, M Singh
Vegetable Science 47(2), 183-188
- 2199 Comparative evaluation of sun, solar cabinet and electric cabinet drying methods for drying of lesser known leafy vegetables in Jharkhand
T Seth, RS Pan, SS Mali, SK Naik, AK Singh
Vegetable Science 47(2), 189-195
- 2200 Production potential and economics of different vegetable-based crop sequences
RN Prasad, SK Singh, RB Yadava, SM Vanitha, J Singh
Vegetable Science 47(2), 196-200
- 2201 Evaluation of IDM modules for tomato leaf curl disease management in Madhya Pradesh
KK Mishra, J Singh
Vegetable Science 47(2), 201-206
- 2202 Seedling growth and antioxidant activity of eggplant (*Solanum melongena* L.) genotypes under salt stress
S Bhati, KK Gangopadhyay, SK Yadav, G Garg
Vegetable Science 47(2), 207-212
- 2203 Ameliorating thermo-tolerance in bell pepper (*Capsicum annuum* L. var. *grossum*) with plant growth regulators
T Preet, N Ghai, SK Jindal
Vegetable Science 47(2), 213-218
- 2204 Morpho-chemical characteristics of cultivated genotypes of leafy chenopod (*Chenopodium album* L.) developed at ICAR-IIVR, Varanasi, Uttar Pradesh
BK Singh, TK Koley, PM Singh
Vegetable Science 47(2), 219-223
- 2205 Effect of ultra-drying on storability and vigour of onion seeds
VR Yalamalle, Y Khade, M Singh
Vegetable Science 47(2), 224-229
- 2206 Estimation of heterosis for yield and yield related traits in tomato (*Solanum lycopersicum* L.) under polyhouse conditions
A Panchbhैया, DK Singh, L Yadav, S Yadav, AK Singh
Vegetable Science 47(2), 230-237
- 2207 Effect of inorganic and organic fertilizers on growth, yield and nutrient uptake in beetroot (*Beta vulgaris* L.) under shade-net conditions
A Kayalvizhi, PI Vethamoni
Vegetable Science 47(2), 238-242
- 2208 Effect of foliar application of GA3 on growth, fruit yield and seed quality parameters in okra [*Abelmoschus esculentus* (L.) Moench]
P Thakur, M Kumar, S Kumari
Vegetable Science 47(2), 243-247
- 2209 Effect of different mode of pollination on fruit and seed characteristics of cucumber (*Cucumis sativus* L.)
N Verma, R Kumar, J Kaur, D Singh
Vegetable Science 47(2), 248-253
- 2210 Vegetable intercropping: An approach for doubling the small Farmers' income under semi-arid conditions of Haryana
S Kumar, SK Dhankhar, N Sehgal
Vegetable Science 47(2), 254-260
- 2211 Modern NHRDF onion storage structure under sub-tropical conditions
P Bhasker, PK Gupta, BP Rayte, TP Ambare
Vegetable Science 47(2), 261-265

- 2212 Physio-biochemical changes associated with spatial differences of ovules in cucumber (*Cucumis sativus* L) fruit under open field and protected environments
N Gupta, SK Jain, BS Tomar
Vegetable Science 47(2), 266-273
- 2213 Trends in hybrid cucumber development
A Verma, V Kumar
Vegetable Science 47(2), 274-284
- 2214 Economic analysis of sweet pepper-garden pea cropping sequence as influenced by NPK and micronutrients through fertigation under polyhouse conditions
N Mushtaq, N Ahmed, K Hussain, AQ Ganai
Vegetable Science 47(2), 285-287
- 2215 Effect of sowing dates on biochemical parameters of edible pod pea genotypes
A Sharma, J Singh, YS Dhaliwal, S Manuja
Vegetable Science 47(2), 288-290
- 2216 Character association among yield and market related traits in pumpkin (*Cucurbita moschata* L.)
SK Maurya
Vegetable Science 47(2), 291-295
- 2217 Crossability studies among cultivated and wild species of okra [(*Abelmoschus esculentus* (L.) Moench)]
G Singh, M Pathak
Vegetable Science 47(2), 296-299
- 2218 Effect of pre-harvest treatments on growth and yield characters of multiplier onion (*Allium cepa* L. var. *aggregatum* Don.) cv. CO-5
M Gomathi, VP Irene
Vegetable Science 47(2), 300-303

Vegetable Science 48(1), 2021

- 2219 Zero hidden hunger: role of vegetables
KV Peter, B Singh, PG Sadhankumar
Vegetable Science 48(1), 1-21
- 2220 Gene action for yield components and fruit quality characters of tomato genotypes possessing mutant genes through generation mean analysis
M Longjam, P Hazra, S Hazra, P Biswas, A Chattopadhyay
Vegetable Science 48(1), 22-29
- 2221 Effect of incubation temperature and sucrose concentration on callus induction and plant regeneration in cauliflower (*Brassica oleracea* var. *botrytis*)
R Singh, R Devi, NK Sarao
Vegetable Science 48(1), 30-34
- 2222 Drip irrigation and fertigation requirement of broccoli under mid hill conditions
RS Spehia, R Negi
Vegetable Science 48(1), 35-40
- 2223 Heterosis for yield and yield attributing traits in tomato (*Solanum lycopersicum* L.)
K Kumar, D Sharma, J Singh, N Chandel
Vegetable Science 48(1), 41-48
- 2224 Response to selection through introgression breeding in onion (*Allium cepa* L.)
AJ Gupta, V Mahajan, SR Singh, G Sheemar, M Singh
Vegetable Science 48(1), 49-55
- 2225 Response of different organic nutrient management schedules on productivity, head quality, nutrient uptake and economics of organic cabbage
V Sindhu, R Chatterjee, S Mishra
Vegetable Science 48(1), 56-61

- 2226 Response of spring season grown okra (*Abelmoschus esculentus*) to drip irrigation and fertigation
A Singh, S Garg, KG Singh
Vegetable Science 48(1), 62-66
- 2227 Estimation of combining ability and gene action for yield and its contributing traits in okra [*Abelmoschus esculentus* (L.) Moench]
N Singh, DK Singh, AK Singh, A Panchbhैया, S Yadav
Vegetable Science 48(1), 67-72
- 2228 Influence of varieties, organic manures and inorganic fertilizers on growth, yield and quality of okra (*Abelmoschus esculentus* L.)
U Damar, RK Sharma., SS Kushwah, OP Singh
Vegetable Science 48(1), 73-78
- 2229 Performance of parthenocarpic lines of brinjal (*Solanum melongena* L.) in net house and open field during the rainy season
A Sarangal, MK Sidhu, AS Dhatt
Vegetable Science 48(1), 79-85
- 2230 Combining ability studies for yield components, quality characters and relative susceptibility to fruit and shoot borer in brinjal
R Mondal, P Hazra, S Hazra, A Chattopadhyay
Vegetable Science 48(1), 86-94
- 2231 Microsatellites mining in Capsicum genomes and development of SSR markers in *Capsicum baccatum*
DK Das, N Ponnampalani, V Sandeep, AC Reddy, GC Acharya, M Kumari, ...
Vegetable Science 48(1), 95-101
- 2232 Effect of FYM and black plastic mulching in sponge gourd (*Luffa cylindrica* L.)
AC Mishra, SV Dwivedi
Vegetable Science 48(1), 102-104
- 2233 Genetic variability, correlation and path analysis of yield and its components characters in okra (*Abelmoschus esculentus* L. Moench)
AL Ola, K Pandey, G Sharma, M Pandey, Lavlesh, D Tiwari, MP Ola
Vegetable Science 48(1), 105-107
- 2234 CH-52: Chilli hybrid suitable for low tunnel cultivation
SK Jindal, MS Dhaliwal
Vegetable Science 48(1), 108-110
- 2235 Genetic variability and correlation coefficient for horticultural traits in bottle gourd (*Lagenaria siceraria*)
P Pandey, D Dewedi, M Pandey, K Singh
Vegetable Science 48(1), 111-113
- 2236 Estimation of genetic divergence in okra [*Abelmoschus esculentus* (L.) Moench]
VK Maurya, GC Yadav
Vegetable Science 48(1), 114-116
- 2237 VRRAD-201 (INGR20032): first Ogura-CMS line of radish with sinuate leaf for hybrid development
BK Singh, PM Singh, B Singh
Vegetable Science 48(1), 117-118
- 2238 Inheritance of white seed coat colour in sponge gourd [*Luffa cylindrica* (L.) Roem.]
AD Munshi, J Singh, AK Sureja, TK Behera, H Choudhary, SS Dey
Vegetable Science 48(1), 119-121

Vegetable Science 48(2), 2021

- 2239 Onion (*Allium cepa* L.): breeding for quality traits and export
V Mahajan, DC Manjunathagowda, AJ Gupta, AP Benke, M Singh
Vegetable Science 48(2), 123-135

- 2240 A molecular clue towards fusarium wilt resistant gene in melon (*Cucumis melo* L.) germplasm
SAH Patel, AS Dhatt, SP Sharma, A Sharma
Vegetable Science 48(2), 136-141
- 2241 Evidence confirms the occurrence of stenospemocarpic seedless fruit development in pointed gourd
(*Trichosanthes dioica* Roxb.)
P Karmakar, DR Bhardwaj, BK Singh, T Chaubey, V Singh, PM Singh, ...
Vegetable Science 48(2), 142-149
- 2242 Influence of planting time and mulching on yield and quality of direct sown muskmelon (*Cucumis melo* L.)
under low tunnel
KR Anusha, K Singh, V Sardana, SP Sharma, R Singh
Vegetable Science 48(2), 150-155
- 2243 Variation in biochemical attributes and rust reaction in response to crop geometry in mono-picking
garden pea for mechanical harvesting
RK Dhall, R Kaur
Vegetable Science 48(2), 156-163
- 2244 Generation mean analysis unveils genetic effects controlling major yield traits in okra [*Abelmoschus
esculentus* (L.) Moench]
ND Vinay, RK Yadav, TK Behera, A Talukdar, S Lata, A Das
Vegetable Science 48(2), 164-171
- 2245 Grafting parthenocarpic cucumber for yield and quality
K Anand, A Bhardwa, R Kumar, AK Pal, T Chattopadhyay, R Padbhusan
Vegetable Science 48(2), 172-177
- 2246 Single dominant gene controls glabrous trait in vegetable soybean accession 'AGS-406'
J Devi, V Sagar, RK Dubey, RK Verma, PM Singh, TK Behera
Vegetable Science 48(2), 178-182
- 2247 VRPLK-2: A superior genotype of spinach beet for round the year cultivation
BK Singh, B Singh
Vegetable Science 48(2), 183-187
- 2248 Estimation of genetic variability in diverse germplasm of okra [*Abelmoschus esculentus* (L.) Moench.]
ND Vinay, MK Mahalik, TK Behera, T Talukdar, A Das, RK Yadav, S Lata
Vegetable Science 48(2), 188-197
- 2249 Genetic diversity studies for improved horticultural traits in bitter gourd
[*Momordica charantia* L.] genotypes t
Mehta, DS Duhan, VPS Panghal
Vegetable Science 48(2), 198-202
- 2250 Introgression of cytoplasmic male sterility (CMS) in tropical carrots (*Daucus carota* subsp. *sativus* Schubl. &
Martens)
BK Singh, P Karmakar
Vegetable Science 48(2), 203-208
- 2251 Effect of drip irrigation scheduling on yield attributes and water productivity of bitter gourd-cabbage-
cowpea cropping sequences
A Bahadur, S Singh, DK Singh, SNS Chaurasia
Vegetable Science 48(2), 209-213
- 2252 Effect of different spacing and planting ratio on seed yield and quality parameters of chilli (*Capsicum
annuum* L.) hybrid GAVCH 1
J Chandela, KG Patil, NA Patel, P Susmitha
Vegetable Science 48(2), 214-218
- 2253 Analysis of genetic diversity among Indian garlic (*Allium sativum* L.) genotypes using SSR markers and
morphological traits
AJ Gupta, K Jayaswall, A Khar, V Mahajan, SK Kad, M Singh
Vegetable Science 48(2), 219-227

- 2254 Screening of colored and green capsicum cultivars for economic traits and antioxidant potential grown at mid-hill climatic conditions of Uttarakhand
P Pandey, HK Pandey, A Guglani, G Balakrishna
Vegetable Science 48(2), 228-233
- 2255 Effect of different gamma rays and EMS concentrations on growth and yield of brinjal genotypes in M3 generation
P Singh, AK Singh, BK Singh, T Chaubey, RK Singh, RK Maurya, T Singh, ...
Vegetable Science 48(2), 234-238
- 2256 Genetic diversity in parthenocarpic cucumber (*Cucumis sativus* L.) for yield and quality traits under protected cultivation
S Kumar, P Singh, A Bhardwaj
Vegetable Science 48(2), 239-241
- 2257 Punjab Kheera Hybrid-11 (PKH-11): A new hybrid of parthenocarpic gynoecious cucumber (*Cucumis sativus* L.) for poly-net house cultivation
RK Dhall
Vegetable Science 48(2), 242-245
- 2258 Identification of potential chilli (*Capsicum annum* L.) accession as a rootstock for managing bacterial wilt disease in bell pepper
PK Nischay, P Ponnampalani, GC Acharya, SP Barik, V Sandeep, M Kumari
Vegetable Science 48(2), 246-249

Vegetable Science 49(1), 2022

- 2259 Origin, distribution, taxonomy, genetic diversity and genetic improvement of ash gourd [*Benincasa hispida* (Thunb.) Cogn.}
KRM Swamy
Vegetable Science 49(1), 1-14
- 2260 Heterotic potential of male sterility-based cross combinations in brinjal (*Solanum melongena* L.)
SK Gill, AS Dhaliwal, MK Sidhu, OP Meena, M Sharma, JS Khosla
Vegetable Science 49(1), 15-20
- 2261 Inheritance of fruit colour, fruit ridge pattern and related traits through generation mean analysis in bitter melon (*Momordica charantia* L.)
K Prasanth, B Varalakshmi
Vegetable Science 49(1), 21-25
- 2262 Population dynamics of arthropods under different insecticide and biopesticide treatments in okra
R Kaur, R Singh, HS Bhullar
Vegetable Science 49(1), 26-32
- 2263 Effect of IBA on root development and associated biochemical changes in single- and double-node stem-cuttings of spine gourd
JK Tiwari, G Ameen, VK Sandilya, A Kumar, AK Singh
Vegetable Science 49(1), 33-40
- 2264 Influence of nitrogen and potassium on growth and yield of chilli (*Capsicum annum* L.)
Babanjeet, D Talwar, K Singh, SK Jindal
Vegetable Science 49(1), 41-46
- 2265 Evaluation of physical and chemical mutagens on various genotypes of brinjal (*Solanum melongena* L.) in M generation
P Singh, AK Singh, BK Singh, AK Pal, T Chaubey, RK Singh, T Singh, ...
Vegetable Science 49(1), 47-51
- 2266 A new strain of Papaya ring spot virus infecting ivy gourd (*Coccinia grandis* L.) in India
K Nagendran, SK Manoranjitham, G Karthikeyan
Vegetable Science 49(1), 52-55

- 2267 Osmo-drying and quality evaluation of cauliflower genotypes
S Sharma, BK Singh, SK Singh
Vegetable Science 49(1), 56-61
- 2268 Influence of integrated nutrient management and sowing dates on growth, yield and quality of broad bean (*Vicia faba* L.)
T Lanzas, M Kumar, A Bhushan, S Kumar, S Chopra, S Kumar, ...
Vegetable Science 49(1), 62-68
- 2269 Influence of plant growth regulators on growth, flowering and fruit yield of bottle gourd [*Lagenaria siceraria* (Mol.) Standl.]
DS Duhan, J Singh, VPS Panghal, Hansraj
Vegetable Science 49(1), 69-74
- 2270 Biocontrol effects of endophytic and rhizospheric bacteria against the root pathogen *Fusarium oxysporum* of hot pepper (*Capsicum annum* L.)
G Fentahun, M Kibret, B Stotaw, A Asrat
Vegetable Science 49(1), 75-85
- 2271 Effect of time of planting and spacing on the quality seed production of okra cv. Pusa Bhindi-5
SM Harisha, BS Tomar, RK Yadav, N Singh
Vegetable Science 49(1), 86-90
- 2272 Evaluation of bio-control agents and new fungicides to control *Pythium* damping off in nursery of solanaceous vegetable crops
AN Tripathi, RK Singh, SK Tiwari
Vegetable Science 49(1), 91-95
- 2273 Problems faced by the vegetable based-farmers producer companies: a descriptive analysis
A Mukherjee, S Roy, VK Yadav, K Pradhan, S Kumari, DK Singh, U Kumar
Vegetable Science 49(1), 96-100
- 2274 Per se performance of matromorphic progenies (Mat) 3 and their parental lines in garden pea (*Pisum sativum* L.) under subtropical conditions of J&K
S Sharma, A Bhushan, RK Samnotra, S Chopra, S Kumar, S Kumar, ...
Vegetable Science 49(1), 101-108
- 2275 Effect of different PGRs and stages of spray on growth attributes of bitter melon
S Priyadarshi, RB Verma, L Babu, VK Singh
Vegetable Science 49(1), 109-112
- 2276 Assessment of nitrogen application and row spacing on growth and yield attributes of coriander (*Coriandrum sativum* L.)
R Nair, A Sharma, SK Pandey
Vegetable Science 49(1), 113-115
- 2277 Correlation and path analysis studies in parthenocarpic cucumber (*Cucumis sativus* L.)
P Mehta, P Sharma, M Kaur, Shilpa, A Sharma, N Bhardwaj
Vegetable Science 49(1), 116-119
- 2278 Induction of chlamydospores to enhance the shelf-life in *Trichoderma asperellum* using phosphorus deficient medium
S Maurya, DP Singh, N SK, KK Pandey
Vegetable Science 49(1), 120-122

Vegetable Science 49(2), 2022

- 2279 Tomato breeding for processing in India: current status and prospects
JK Tiwari, TK Behera, N Rai, SR Yerasu, MK Singh, PM Singh
Vegetable Science 49(2), 123-132

- 2280 Exploring the phytochemical potential of purple carrot (*Daucus carota* L. subsp. *sativus* var. *atrorubens* Alef.) developed at ICAR-IIVR, Varanasi, UP
BK Singh, P Karmakar, PM Singh, J Singh
Vegetable Science 49(2), 133-144
- 2281 Genotype × environment interaction and stability analysis for yield and biochemical traits in pumpkin (*Cucurbita moschata* Duch. ex Poir.)
V Kumar, DP Mishra, GC Yadav, DK Singh, A Tiwari
Vegetable Science 49(2), 145-155
- 2282 Growth and bulb yield of onion (*Allium cepa* L.) varieties as influenced by NPS fertilizer in Western Ethiopia
C Kitila, A Abraham, S Shuma
Vegetable Science 49(2), 156-162
- 2283 Ex-post economic impact assessment of vegetable cowpea var. Kashi Kanchan using economic surplus model
SM Vanitha, S Roy, N Singh
Vegetable Science 49(2), 163-168
- 2284 Environmental effects on yield and quality of French bean genotypes grown in poly-net house
R Kaur, TS Dhillon, RK Dhall, R Devi
Vegetable Science 49(2), 169-175
- 2285 Estimation of correlation and path coefficient for morphological and quantitative traits in okra (*Abelmoschus esculentus* L. Moench)
S Awasthi, DP Singh, P Singh, A Upadhyay, B Lal
Vegetable Science 49(2), 176-182
- 2286 Influence of expanded polyethylene biopolymer packaging on shelf life of capsicum
S Singh, SNS Chaurasia, S Sharma, I Prasad, P Khemariya, T Alam
Vegetable Science 49(2), 183-189
- 2287 off -season vegetable cultivation under low tunnel technology in Bikaner District of Rajasthan: An economic analysis
R Rani, SR Meena, BR Choudhary, MK Jatav, PL Saroj, A Meena
Vegetable Science 49(2), 190-196
- 2288 Dynamics of anthocyanin and chlorophyll content in red fruited okra var. Kashi Lalima
P Karmakar, V Sagar, PM Singh
Vegetable Science 49(2), 197-203
- 2289 Studies on genetic variability, heritability, genetic advance and character association for various quantitative traits in bottle gourd [*Lagenaria siceraria* (Mol.) Standl.]
DS Duhan, V Gill, VPS Panghal, PJ Karande
Vegetable Science 49(2), 204-210
- 2290 Evaluation of various monoecious and gynoeocious genotypes of bitter gourd (*Momordica charantia*L.) for yield and attributing traits
DP Moharana, DR Bhardwaj, AK Singh, SP Kashyap, KK Gautam
Vegetable Science 49(2), 211-218
- 2291 Embryo rescue of inter-specific hybrid of *Solanum lycopersicum* × *S. neorickii*
SR Yerasu, HC Prasanna, R Krishna, SP Kashyap, JK Tiwari, N Rai
Vegetable Science 49(2), 219-224
- 2292 Studies on different levels and scheduling of potassium on growth and yield of onion var. Agrifound Light Red in light-textured soil of Western UP
S Singh, UP Shahi, BP Dhyani, S Kumar, M Kumar, MK Singh, A Singh
Vegetable Science 49(2), 225-232
- 2293 Study on socio-economic condition of tribal farmers in Sonbhadra district of Uttar Pradesh
S Roy, G Pal, N Singh, S Maurya, SK Singh, DR Bhardwaj, TK Behera
Vegetable Science 49(2), 233-240

- 2294 Antagonistic potential of rhizobacterial liquid formulations against *Meloidogyne incognita* infecting okra under field conditions
MT Gowda, C Sellaperumal, R Reddy, KK Pandey
Vegetable Science 49(2), 241-247
- 2295 A review on biopriming in vegetable crops for yield and quality traits
SG Hegde, DS Duhan, PK Karande
Vegetable Science 49(2), 248-258
- 2296 Effect of integrated weed management in cucumber
HU Nandhini Devi, L Pugalendhi
Vegetable Science 49(2), 259-261
- 2297 Field-efficacy of fungicides for the management of purple blotch of onion in Jalandhar, Punjab
R Raj, B Kaur
Vegetable Science 49(2), 262-265
- 2298 Association of frost injury with tuber yield components in potato (*Solanum tuberosum* L.)
SK Luthra
Vegetable Science 49(2), 266-269
-

Vegetable Science 50(1), 2023

- 2299 Advances in pea breeding and genomics: From traditional techniques to modern approaches
A Sharma, J Devi, RK Dubey, Srishti, A Prashar, V Singh, S A.
Vegetable Science 50(1), 1-10
- 2300 Utilizing Ogura-CMS and doubled haploid lines of cabbage for newgeneration hybrid breeding
TS Aruna, C Parkash, S Kumar, BS Tomar, TK Behera, R Singh, KP Singh, ...
Vegetable Science 50(1), 11-22
- 2301 Over environments evaluation of bell pepper hybrids developed through modified triple test cross mating design for earliness, yield and quality under North-Western Himalayas
Anuradha, S Sood, T Sood
Vegetable Science 50(1), 23-32
- 2302 Characterization of begomoviruses associated with emerging mosaic disease of ivy gourd (*Coccinia grandis* L.) in Tamil Nadu, India
S Vignesh, P Renukadevi, G Karthikeyan
Vegetable Science 50(1), 33-38
- 2303 Effect of potassium permanganate on postharvest quality attributes of bitter gourd fruit
P Belwal, AK Singh, AK Pal, S Sharma, K Barman
Vegetable Science 50(1), 39-45
- 2304 A study on economic impact assessment of tomato var. Kashi Aman using the economic surplus model
G Pal, S Roy, N Singh, PM Singh, SR Yerasu, RB Yadava, TK Behera
Vegetable Science 50(1), 46-51
- 2305 Genetics of quantitative traits from interspecific crosses between *Luffa hermaphrodita* × *Luffa cylindrica*
MK Sidhu, S Chaudhary, M Sharma
Vegetable Science 50(1), 52-57
- 2306 Optimization of yield and quality of hull-less seeded pumpkin (*Cucurbita pepo* var. *styriaca*) through foliar application
Monika, AS Dhatt, M Sharma, OP Meena, H Ram, JS Khosa, MK Sidhu
Vegetable Science 50(1), 58-64
- 2307 Standardization of pre-sowing organic seed encrustation treatments on seedling parameters of onion (*Allium cepa*) under ambient storage conditions
N Ekka, PK Rai
Vegetable Science 50(1), 65-72

- 2308 Development and characterization of F₁ hybrids involving cultivated and related species of okra
J Kaur, M Pathak, D Pathak
Vegetable Science 50(1), 73-77
- 2309 Genetics of cluster bearing habit and fruit surface morphology in ridge gourd (*Luffa acutangula* Roxb.)
P Karmakar, M AD.
Vegetable Science 50(1), 78-81
- 2310 Influence of potassium and sulphur nutrition on quality of garlic (*Allium sativum* L.)
SS Sandhu, K Singh, M Sharma, D Singh, N Chawla, D Talwar
Vegetable Science 50(1), 82-87
- 2311 Quantitative assessment and seasonal incidence of soil invertebrates in okra (*Abelmoschus esculentus* L.)
crop
R Kaur, R Singh
Vegetable Science 50(1), 88-94
- 2312 Identification of novel late blight resistance source in wild potato species and interspecific somatic
hybrids, and their distinctness, uniformity and stability (DUS) characterization
N Bhatia, JK Tiwari, C Kumari
Vegetable Science 50(1), 95-103
- 2313 Deciphering genetic variability in melon (*Cucumis melo* L.) using morphological characters
KK Tara, H Choudhary, RK Yadav, J Kumari, DC Mishra, K Shankar
Vegetable Science 50(1), 104-109
- 2314 Effect of soil salinity on germination and survival of brinjal (*Solanum melongena* L.)
D Talwar, K Singh, N Kaur, AS Dhatt
Vegetable Science 50(1), 110-117
- 2315 Kashi Purvi: a newly developed high-yielding early variety of vegetable pea (*Pisum sativum* var. *hortense*
L.)
J Devi, RK Dubey, SK Sanwal, AN Tripathi, S Chandra
Vegetable Science 50(1), 118-120
- 2316 Effect of organic and inorganic source of nutrient on growth, yield and quality attributes of okra seed cv.
Kashi Pragati
S Singh, DP Singh, BK Maurya, B Kishor, H Singh, Nirankar
Vegetable Science 50(1), 121-124
- 2317 Effect of organic manures and bio-fertilizers on growth and quality of Indian bean [*Lablab purpureus* (L.)
var. *typicus*]
M Kumari, AK Soni, G Choudhary, B Goswami, SK Bairwa
Vegetable Science 50(1), 125-128
- 2318 VRCAR-252 (INGR22088): Anthocyanin-rich petaloid-CMS line of black carrot with better heterotic
potential
BK Singh, P Karmakar
Vegetable Science 50(1), 129-130

Vegetable Science 50(2), 2023

- 2319 Okra: breeding and genomics
B Singh, P Karmakar, P Singh, BK Maurya, H Singh, V Sagar, GP Mishra
Vegetable Science 50(2), 261-273
- 2320 Expression analysis of key curding and flowering genes in diverse thermosensory groups of cauliflower
S Luhana, S Singh, M Mangal, V Verma, K Varotariya, A Khar
Vegetable Science 50(2), 274-281

- 2321 Identification and in-silico characterization of RPN10 gene as a candidate for genome editing to develop little leaf disease resistance in brinjal
SG Karkute, AK Singh, PA Divekar, N Gupta, SK Tiwari
Vegetable Science 50(2), 282-287
- 2322 Heterotic combinations among advanced breeding lines of brinjal (*Solanum melongena* L.)
AK Gill, MK Sidhu, AS Dhatt, N Chawla
Vegetable Science 50(2), 288-294
- 2323 Generation mean analysis to study the genetics of fruit yield and yield attributing traits in bitter melon
I Panigrahi, TK Behera, AD Munshi, SS Dey, GS Jat, AK Singh
Vegetable Science 50(2), 295-301
- 2324 Characterization of tomato lines for yield components, processing traits and disease resistance based on phenotype and molecular markers
JK Tiwari, N Rai, MK Singh, LK Mishra, G Mishra, TK Behera
Vegetable Science 50(2), 302-309
- 2325 Influence of organic nutrient sources on growth and seed quality of garden pea
N Yadav, KS Thakur, RK Bhardwaj, M Sharma
Vegetable Science 50(2), 310-315
- 2326 Economic analysis of hybrids vis-à-vis HYVs of okra and bottle gourd in Haryana
N Pawar, DP Malik
Vegetable Science 50(2), 316-321
- 2327 Genetic variation and association among quantitative and qualitative traits to design breeding strategy in red ripe chili (*Capsicum annuum* L.) under North-Western Himalayas
N Banyal, A Sharma
Vegetable Science 50(2), 322-329
- 2328 A study on assessing area, production and impact of vegetable varieties from ICAR-Indian Institute of Vegetable Research, Varanasi, Uttar Pradesh, India
G Pal, PMS Singh, S Roy, N Singh, A Bahadur, TK Behera
Vegetable Science 50(2), 330-337
- 2329 Effect of integrated nutrient management on growth, yield and quality parameters of cauliflower
SK Singh, DK Singh, U Singh
Vegetable Science 50(2), 338-342
- 2330 Yield response and economic evaluation of drip-fertigated muskmelon cultivated under mulched conditions
J Kaur, K Singh, KG Singh, SP Sharma
Vegetable Science 50(2), 343-349
- 2331 Amelioration of economically important traits through mutagenesis in spine gourd (*Momordica dioica*)
S Chatterjee, P Sagar, M Mishra, BP Jagdish, JK Tiwari
Vegetable Science 50(2), 350-358
- 2332 Relative toxicity of some newer insecticide molecules against vector and sucking pest complex of okra
J Halder, H Das, PA Divekar
Vegetable Science 50(2), 359-364
- 2333 Development and evaluation of different integrated disease management modules for the cost-effective control of fungal diseases of tomato
KK Pandey, RM Rai
Vegetable Science 50(2), 365-370
- 2334 Impact of pinching on growth, flowering and early season fruit yield of bottle gourd [*Lagenaria siceraria* (Mol.) Standl.]
P Sharma, P Mahala
Vegetable Science 50(2), 371-376

- 2335 Physiological effect of fruit load management and post-harvest ripening on seed yield and quality in summer squash (*Cucurbita pepo* L.)
N Gupta, R Kumar, PM Singh, T Chaubey, G Karkute, N Rai, TK Behera
Vegetable Science 50(2), 377-382
- 2336 Effectiveness of common household methods for removal of deltamethrin from vegetables
S Majumder, J Pandey, DR Bhadwaj, KK Pandey, TK Behera
Vegetable Science 50(2), 383-388
- 2337 VRCAR-214 (INGR22160): A petaloid-CMS line of red-colored tropical carrot
BK Singh, P Karmakar, S Bhuvaneswari
Vegetable Science 50(2), 389-391
- 2338 Kashi Tripti: A newly developed high-yielding mid-season edible-podded variety of vegetable pea
J Devi, RK Dubey, SK Sanwal
Vegetable Science 50(2), 392-394

Vegetable Science 50(Special issue), 2023

- 2339 Vegetable breeding: status and strategies
TK Behera, J Devi, JK Tiwari, BK Singh
Vegetable Science 50(Special Issue), 131-145
- 2340 Tomato: breeding and genomics
HC Prasanna, N Rai, Z Hussain, SR Yerasu, JK Tiwari
Vegetable Science 50(Special Issue), 146-155
- 2341 Potato: breeding and genomics
SK Luthra, V Kumar, JK Tiwari
Vegetable Science 50(Special Issue), 156-165
- 2342 Brinjal: breeding and genomics
JK Tiwari, S Bhuvneswari, SG Karkute, SK Tiwari, M Singh
Vegetable Science 50(Special Issue), 166-176
- 2343 Chili: breeding and genomics
M Reddy, R Kumar, N Ponnamp, I Prasad, SP Barik, R Pydi, S Timmarao
Vegetable Science 50(Special Issue), 177-188
- 2344 Bitter melon: breeding and genomics
TK Behera, DR Bhadwaj, KK Gautam
Vegetable Science 50(Special Issue), 189-207
- 2345 Cucumber: breeding and genomics
SS Dey, V Sagar, SN Kujur, AD Munshi, S Pandey, TK Behera
Vegetable Science 50(Special Issue), 208-220
- 2346 Carrot: breeding and genomics
P Kalia, BK Singh, S Bhuvaneswari, V Patel, R Selvakumar
Vegetable Science 50(Special Issue), 221-230
- 2347 Cabbage: breeding and genomics
C Parkash, S Kumar, N Thakur, S Singh, BB Sharma
Vegetable Science 50(Special Issue), 231-243
- 2348 Onion: breeding and genomics
V Mahajan, AJ Gupta
Vegetable Science 50(Special Issue), 244-260

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The journal 'Vegetable Science' covers all aspects of vegetable research & development i.e. genetics, breeding, cytology, genomics, biotechnology, metabolism, physiology, ecology, quality, production technology, disease management, insect management, post-harvest management, marketing, extension, etc. Articles reporting research in vegetable crops or reviews/interpretation of such research will be accepted for review as research/review papers. Short articles concerned with experimental techniques, apparatus and observations of unique phenomena will be accepted for review as short communications.

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Name and affiliations: The name of authors and the address of the institution where the work was carried out should be mentioned below the title. E-mail addresses of the corresponding author (*) should also be indicated.

Abstract: The abstract should clearly state the rationale, objectives, methods, and important conclusions of the study. It should not exceed 150-200 words.

Keywords: The abstract should be 4-6 keywords highlighting the contents of the paper and useful for abstracting purposes.

Introduction: It should be brief and limited to the statement of the problem and aim of the experiment.

Materials and Methods: It should include relevant details on the nature of material, experimental design, the techniques employed and the statistical method used. For well-known methods, citation of reference will suffice.

Results and Discussion: It should be clear to readers in different disciplines. Units of measurement should be SI.

Conclusion: The article should be concluded in 50-100 words with conclusive findings.

Acknowledgments (optional): Should mention only guidance or assistance received in real terms, and financial grant provided by an agency. Acknowledgements for inspiration, typing etc., need not be mentioned.

Conflict of interest: The authors must declare the conflict of interest, if any.

Figures: Submit figures in high-resolution (300 or more dpi), TIFFS/EPS/JPG files. Photographs and drawings for graphs and charts should be prepared with good contrast of dark and light. Give care full attention to the width of lines and size and clarity of type and symbols. Figure caption should be brief but sufficiently detailed to tell its own story.

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The style and format as mentioned for full-length papers should be followed for Short Communications without abstract. Illustrative material should be kept at minimum, usually not more than one table or figure and only few references should be included (not more than 10).

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Cite references in the text by name and year such as by Singh (2015), Singh & Seligman (1996), (Singh, 1991; Barakat et al., 1995; Singh & Chaudhary, 1995). The list of references should only include works that are cited in the text and that have been published or accepted for publication. Personal communication and unpublished work should only be mentioned in the text. Do not use foot notes or end notes as a substitute for a reference list. All the references cited in the text should be in reference and vice versa. Some examples of reference listing are given below:

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In-text citation- Parenthetical: (Singh et al., 2022); Narrative: Singh et al. (2022)

Book

Ram, H. H. (1998). *Vegetable breeding: Principle and practices* (1st ed.). Kalyani Publishers, New Delhi. ISBN 8127202428. doi.org/.. (if any)

In-text citation- Parenthetical: (Ram, 1998); Narrative: Ram (1998)

Book Chapter

Devi, J., Sagar, V., Kaswan, V., Ranjan, J. K., Kumar, R., Mishra, G. P., Dubey, R. K., & Verma, R. K. (2021). Advances in breeding strategies of bell pepper (*Capsicum annuum* L. var. *grossum* Sendt.), pp 3-58. In: Al-Khayri, J.M., Jain, S.M., Johnson, D.V. (eds.) *Advances in Plant Breeding Strategies: Vegetable Crops*. Springer, Cham. doi.org/....

In-text citation- Parenthetical: (Devi et al., 2021); Narrative: Devi et al. (2021)

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FAOSTAT. (2021). (accessed on 12 April 2021). Available online: <http://www.fao.org/faostat/en/#home>.

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