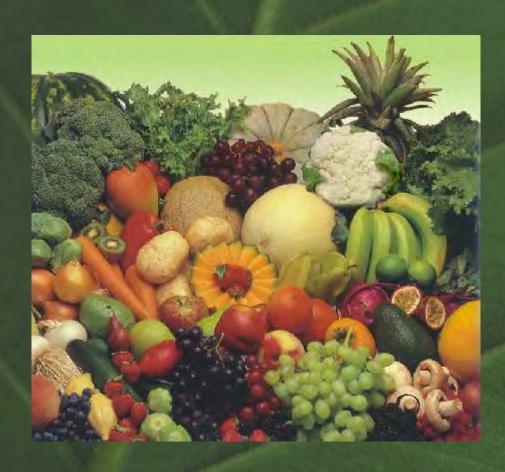
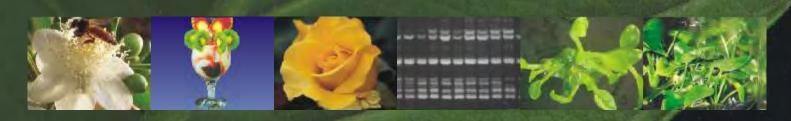
ISSN 0972-1045

Journal Appl Hort

Journal of Applied Horticulture





Journal of THE SOCIETY FOR ADVANCEMENT OF HORTICULTURE

Vol. 17, No. 3, October-December, 2015

Inoculation of sweet potatoes with AM fungi produced on-farm increases yield in high P soil —D.D. Douds Jr., J. Lee, J.E. Shenk and S. Ganser	171
Comparative effects of kaolin and calcium carbonate on apple fruit surface temperature	
and leaf net CO₂ assimilation —H.L. Alvarez, C.M. Di Bella, G.M. Colavita, P. Oricchio and J. Strachnoy	176
Use of optical sensors to monitor <i>Gaillardia</i> Foug. nitrogen status —Bruce L. Dunn, Arjina Shrestha, Carla Goad and Amir A. Khoddamzadeh	181
Lactuca sativa biofertilization using biofilm from Bacillus with PGPR activity —Mirta Esther Galelli, Gabriela Cristina Sarti and Silvia Susana Miyazaki	186
In vitro explant sterilization and bud initiation studies of four strawberry cultivars —M. Munir, S. Iqbal, J.U.D. Baloch and A.A. Khakwani	192
Quantifying postharvest losses along a commercial tomato supply chain in Fiji: A case study —S.J.R. Underhill and Salesh Kumar	199
Evaluation of colour behavior during ripening of Banganapalli mango using CIE-Lab	
and RGB colour coordinates—V. Eyarkai Nambi, K. Thangavel, S. Shahir and V. Geetha	205
Morphological characteristics and ancestry of Japanese garlic clones – An overview —Yoshihiko Shiga, Sakio Tsutsui and Tetsuo Mikami	210
Effect of intercrops on productivity, quality, leaf nutrient status and relative economic	
yield of apple cv. Red Delicious —Rifat Bhat, Sharbat Hussain, W.M. Wani, F.A. Banday and M.K. Sharma	213
Analysis of Aegle marmelos (L.) Corr. diversity using citrus based microsatellite markers —Chandra Kant Sharma and Vinay Sharma	217
Enhancement of in vitro corm production in Gladiolus by periodically replacement of	
liquid media using coir matrix —A.K. Bera, T.R. Maity, A. Samanta, A. Dolai, B. Saha and S. Datta	222
Physico-mechanical properties of sapota (<i>Achras sapota</i> L.) —Suchita V. Gupta, Vaishali R. Wankhade, Bhagyashree N. Patil and P.M. Nimkar	225
Performance of cocopeat amended media mixtures on growth and flowering	
of chrysanthemum —Simrat Singh, R.K. Dubey and S.S. Kukal	230
Characterization of single spore isolates of <i>Volvariella volvacea</i> (Bulliard: Fries) Singer —A. Kaur and H.S. Sodhi	236
Software for monitoring the nutrient and irrigation levels in oil palm —K.L. Mary Rani, B. Narsimha Rao and M. Rambabu	241
PRSV resistance in papaya (<i>Carica papaya</i> L.) through genetic engineering: A review —Swati Kumari, Mala Trivedi and Maneesh Mishra	243

Vol. 17, No. 2, May-September, 2015



Cloning and characterisation of <i>APETALA3</i> -like and <i>PISTILLATA</i> -like B class MADS-box	
genes from sweet cherry —Kenji Beppu, Hidemi Sumida and Ikuo Kataoka (Japan)	87
Three criteria for characterizing flower opening profiles and display values in cut spray-type carnation flowers —So Sugiyama, Shigeto Morita and Shigeru Satoh (Japan)	92
Evaluation of sensors for sensing characteristics and field of view for variable rate technology in grape vineyards in North Dakota —Ganesh C. Bora, Purbasha Mistry and Dongqing Lin (USA)	96
Shade effects on growth, flowering and fruit of apple —S.S. Miller, C. Hott and T. Tworkoski (USA)	101
Black rot control and bud cold hardiness of 'Noiret' winegrape —Eric T. Stafne, Becky Carroll and Damon Smith (USA)	106
High efficiency <i>Agrobacterium</i> -mediated transformation of sour orange (<i>Citrus aurantium</i> L.) using gene encoding Citrus Tristeza Virus coat protein —Mohammad Mehdi Sohani, Mohammad Hosein Rezadoost, Amir Hosein Zamani, Mohammad Reza Mirzaii and Ali Reza Afsharifar (Iran)	109
Characterization of a new leaf-compound radish mutant (<i>Raphanus sativus</i> L.) —Fenghua Wang, Guangyuan Li, Shuangchen Chen, Yan Jiang and Shaoxian Wang (China)	115
Effect of various factors on shoot regeneration from citrus epicotyl explants —Randall P. Niedz, Joseph P. Albano and Mizuri Marutani-Hert (USA)	121
Suitable and available land for cashew (<i>Anacardium occidentale</i> L.) in the island of Lombok, Indonesia —Widiatmaka, Wiwin Ambarwulan, Atang Sutandi, Kukuh Murtilaksono, Khursatul Munibah and Usman Daras (Indonesia)	129
Effects of pre-harvested N-(2-chloro-4-pyridinyl)-N'-phenylurea (CPPU) spraying on the improvement of flower quality of <i>Dendrobium</i> Sonia 'Earsakul' —S. Abdullakasim, K. Kaewsongsang, P. Anusornpornpong and P. Saradhuldhat (Thailand)	140
Production, quality and aroma analysis of sapodilla (<i>Manilkara achras</i> (Mill) Fosb.) wine —K. Ranjitha, C.K. Narayana, T.K. Roy and A.P. John (India)	145
Effect of planting date on growth, development, aerial biomass partitioning and flower productivity of marigold (<i>Tagetes erecta</i> L.) cv. Siracole in Indo-gangetic plains of West Bengal —Khumukcham Joshna and P. Pal (India)	151
Diversity of bee foraging flora and floral calendar of Paithan taluka of Aurangabad district (Maharashtra), India —Bhalchandra Waykar and R.K. Baviskar (India)	155
Development of an efficient in vitro regeneration protocol for fig (Ficus carica L.) —S.S. Dhage, V.P. Chimote, B.D. Pawar, A.A. Kale, S.V. Pawar and A.S. Jadhav (India)	160
Effect of packaging in extending shelf life of fresh curry leaves —Dawn C.P. Ambrose, S.J.K. Annamalai and Ravindra Naik (India)	165

Vol. 17, No. 1, January-April, 2015

Effect of vineyard shading on the composition, sensory quality and volatile flavours of Vitis vinifera L. cv. Pinot Noir wines from mild tropics —K. Ranjitha, S. Shivashankar, G.S. Prakash, P. Sampathkumar, T.K. Roy, and E.R. Suresh	3-6
Determining nitrogen fertility status using optical sensors in geranium with controlled release fertilizer —Bruce L. Dunn, Arjina Shrestha and Carla Goad	7-11
Computational prediction and characterization of miRNA from coconut leaf transcriptome —S. Naganeeswaran, T.P. Fayas, K.E. Rachana and M.K. Rajesh	12-17
Evaluation of different fertilizer types in potato crop under various irrigation regimes —B.S. Sekhon and C.B. Singh	18-21
Basal heat improves adventitious root quality in Plumeria (<i>Plumeria rubra</i> L.) stem cuttings of different sizes —S. Caruso and G. lapichino	22-25
Effects of benzyl adenine and gibberellic acid pre-treatments on dormancy release, flowering time and multiplication of oriental lily (<i>Lilium longiflorum</i>) bulbs —Maureen N. Situma, Mariam Mwangi and Richard M.S. Mulwa	26-30
Regulation of membrane leakage and activities of some antioxidant enzymes in petals of cut flowers of <i>Calendula officinalis</i> and <i>Salvia splendens</i> with metabolites and plant growth regulators —P. Kaur, N. Singh and D. Mukherjee	31-39
Low concentrations of humic substances significantly enhanced plant growth —P. Verdi, M. Cano and E. Liem	40-43
Effect of nitrogen and phosphorus nutrition on growth, flowering, flower yield and chlorophyll content of different varieties of African marigold (<i>Tagetes erecta</i> L.) —N.D. Polara, N.N. Gajipara and A.V. Barad	44-47
Effect of anti browning agents and slice thickness on drying and quality of apple slices <i>var.</i> Red Chief —D.B. Singh, N. Ahmed, A.A. Pal, R. Kumar and A.A. Mirza	48-51
Effect of different spacing and pruning levels on growth, yield and fruit quality in fig (<i>Ficus carica</i> L.) cv. Poona —Ravindra Kumar, R. Chithiraichelvan, S. Ganesh, K.K. Upreti and V.V. Sulladmath	52-57
In vitro cellulase activity of two wilt causing soil fusaria (Fusarium solani and F. oxysporum f. sp. lycopersici) and efficacy of some pesticides against the said fusaria—S.K. Dwivedi and Enespa	58-65
Genetic divergence studies in different nut and kernel characters of diverse walnut (<i>Juglans regia</i> L.) germplasm —S.S. Dhage, V.P. Chimote, B.D. Pawar, A.A. Kale, S.V. Pawar and A.S. Jadhav	66-69
Estimates of genetic variability, heritability, genetic advance, correlation coefficients and their prospects for crop improvement in guava (<i>Psidium guajava</i> L.) —D. Singh, M.I.S. Gill, R.S. Boora and N.K. Arora	70-75
Effects of foliar application of boron on leaf boron content and yield of papaya cv. Red Lady —Srilatha Vasanthu, K. Sunil Kumar, B. Padmodaya and C. Kiran Kumar Reddy	76-78
Studies on crop residue production of cape gooseberry (<i>Physalis peruviana</i> L.) and physico-chemical properties of sodic soil under varying levels of plant spacing and NPK fertilizers	
—Angrej Ali and B.P. Singh	79-84

Vol. 16, No. 3, October-December, 2014

Spatial variability in Ontario Cabernet franc vineyards III. Relationships among berry composition variables and soil and vine water status —Andrew G. Reynolds and Javad Hakimi Rezaei	167
Growth characteristics of micropropagated, regenerated and transgenic Gladiolus plants —Kathryn Kamo, Kanniah Rajasekaran and Jeffrey Cary	193
Study of morphological and histological changes in melon plants grown from seeds irradiated with UV-B —V.P. Sosa-Flores, F. Ramírez-Godina, A. Benavides-Mendoza, H. Ramírez	199
Characterization of normalized difference vegetation index of eight poinsettia (<i>Euphorbia pulcherrima</i> L.) cultivars during bract color development —Yun-wen Wang, Bruce L. Dunn, Li Jiang and Daryl B. Arnall	205
Improving vase life of carnation cut flowers by silver nano-particles acting as anti-ethylene agent —F. Koohkan, N. Ahmadi and S.J. Ahmadi	210
Molecular and agromorphological assessment of cashew (Anacardium occidentale L.) genotypes of India —R. Dasmohapatra, S. Rath, B. Pradhan and G.R. Rout	215
Influence of fluidised bed drying on the quality and storage of Murraya koenigii leaves —Dawn C.P. Ambrose, S.J.K. Annamalai and Ravindra Naik	222
Effect of pulsing, 1-methyl cyclo propene (1-MCP) and packaging treatments on postharvest physiology of cut rose cv. First Red —S. Muthu Kumar, V. Ponnuswami and M. Jawaharlal	225
Effects of temperature, moisture and salinity on seed germination of Artemisia annua L. grown under Tarai conditions of Uttarakhand —P. Chaturvedi, D. Bisht and S. Tiwari Pandey	231
Prevalence of some threatening pests and disease of litchi (<i>Litchi chinensis</i> Sonn.) in Bihar state of India —Vinod Kumar, Ajit Kumar Dubedi Anal and Vishal Nath	235
Physiology and biochemical changes in accelerated aged tomato (Solanum lycopersicum Mill.) seeds —V. Vijayalakshmi, S. Poonguzhali, K. Ramamoorthy and N. Natarajan	241

Vol. 16, No. 2, May-September, 2014

Spatial variability in Ontario Cabernet franc vineyards. II. Yield components and their relationship to soil and vine water status —Andrew G. Reynolds and Javad Hakimi Rezaei	87
White nectarines bloom, harvest degree days, yield and fruit traits over a span of five years in the intermountain region of the United States —Esmaeil Fallahi, Bahar Fallahi, Michael J. Kiester and Thomas M. Elias	103
QTL analysis associated with oleoresin content in intraspecific RIL population of chilli (<i>Capsicum annuum</i> L.) —Neeraj Dwivedia, Rajesh Kumara, Rakesh Kumar Singhb and Major Singha	107
Effect of storage on some physical and chemical characteristics of vermicast —A.K. Harit, M. Karthikeyan, S. Gajalakshmi and S.A. Abbasi	112
Effect of fertigation through drip and micro sprinkler on pod characters in cocoa (<i>Theobroma cacao</i> L.) —C. Krishnamoorthy and K. Rajamani	117
Effect of pruning intensity on bud fruitfulness, yield and anthocyanin content of grape (<i>Vitis vinifera</i>) hybrid H-56 trained on bower system —Gurpreet Singh, N.K. Arora and M.I.S. Gill	122
Embryo culture and embryo rescue studies in wild <i>Musa</i> spp. (<i>Musa ornata</i>) —M. Dayarani, M.S. Dhanarajan, K. Arun, S. Uma and Padma Narayani	126
Antifungal potential of native strain isolated from rhizosphere soil of Valeriana jatamansi from temperate regions of Himachal Pradesh —Anjali Chauhan, Praveen Pal Balgir and Chand Karan Shirkot	131
Distribution of phytonematodes associated with stone and nut fruits in Kashmir valley, India —Tarique Hassan Askary, Mohammad Islam Shah Waliullah and Mohammad Maqbool Mir	136
Studies on osmotic dehydration of banana cv. Poovan and Dwarf Cavendish —T. Shanmugasundaram and K. Haripriya	141
Genetic variation, heritability and correlation analysis of forty seven pear genotypes under subtropics —Dimpy Raina, W.S. Dhillon and P.P.S. Gill	146
Direct and residual effect of integrated nutrient management on crop productivity and physico-chemical characteristics of allfisols in okra-pea cropping system —M.A. Chattoo, N. Ahmed, G.R. Najar, Angrej Ali, Z.M. Dar and Q.A.H. Dar	149
Pollen studies in tuberose cultivars and hybrids —P. Ranchana, M. Kannan and M. Jawaharlal	154
Characterization of Karonda (<i>Carissa carandas</i>) accessions under arid region —P.R. Meghwal, S.K. Singh, Akath Singh and Rakesh Pathak	157
Genotypic variability in grain amaranthus (<i>Amaranthus hypochondriacus</i> L.) under varied plant densities —S. Ramesh Kumar and G. Mohammed Yassin	161

Vol. 16, No. 1, January-April, 2014

Spatial variability in Ontario Cabernet Franc vineyards I. Interrelationships among soil composition, soil texture, soil and vine water status —Andrew G. Reynolds and Javad Hakimi Rezaei	3
Effect of glycinebetaine application on photosynthesis, sugar content, invertase activity and plant yield of hot pepper (<i>Capsicum annuum</i> L.) under water stress condition —R.M. Bhatt, N.K. Srinivasa Rao, K.K. Upreti and A.D.D.V.S. Nageswara Rao	24
Linking certain physical characteristics with postharvest needle abscission resistance in balsam fir —M.T. MacDonald, R.R. Lada and R.S. Veitch	29
Optimal soil conditions for organic highbush blueberry growth: Assessment of early results —B. Hoover, D. Fuglie and R. Miller	32
Comparative efficacy of vermicomposted paper waste and inorganic fertilizer on seed germination, plant growth and fruition of <i>Cyamopsis tetragonoloba</i> —M. Karthikeyan, S. Gajalakshmi and S.A. Abbasi	40
AM fungi shields Coleus forskohlii from root rot incidence —L. Srimathi Priya and K. Kumutha	46
Canopy management in mango (<i>Mangifera indica</i> L.) cv. Alphonso with reference to flowering, yield and quality characters under ultra high density planting —B. Gopu, T.N. Balamohan, P. Soman and P. Jeyakumar	50
Comparative evaluation of common bean (<i>Phaseolus vulgaris</i> L.) germplasm for seed physical and culinary traits —P. A. Sofi, S. A Wani, M.Y. Zargar, F. A. Sheikh and T. Shafi	54
Physical properties and transmission of papaya ringspot virus —Isha Bhoyer, Mina D. Koche, Santoshi Pudake and N.B. Ninawe	59
Effect of integrated application of phosphorus and phosphate solubilizing microorganisms on root colonization, productivity and seed quality of <i>Cucurbita pepo</i> L. —J. Hamzei and S. Najjari	61
Processing and quality evaluation of blended guava watermelon squash —J. Shankara Swamy and A.K. Banik	66
Effect of pre-treatment and drying temperature on quality of dehydrated cauliflower (<i>Brassica oleracea</i> var. <i>botrytis</i>) —R. Ranjan, M. Longkumer and J. Kabir	71
Planting density and corm size effects on flower yield and quality of cut-freesia (<i>Freesia</i> hybrid) in Ethiopia —Tewodros Bezu and Nigusse Kassa	76
Effect of processing and storage on bioactive compounds and antioxidant activity of carrot juice —S. Kapoor and P. Aggarwal	80

Vol. 15, No. 3, September-December, 2013

Seasonal changes in endogenous hormone and sugar contents during bud dormancy in tree peony —Philip M.P. Mornya and Fangyun Cheng	159
Cultivation of high antioxidant activity <i>Alchemilla</i> spp. (Rosaceae) for sustainable use —A. Vitkova, A. Gavrilova, M. Delcheva, A. Trendafilova and M. Todorova	166
Influence of rootstocks on salinity tolerance of Thompson Seedless grapevines —Ajay Kumar Upadhyay, Jagdev Sharma and J. Satisha	173
Advancing Alphonso mango harvest season in lateritic rocky soils of Konkan region through manipulation in time of paclobutrazol application —M.M. Burondkar, Shailendra Rajan, K.K. Upreti, Y.T.N. Reddy, V.K. Singh, S.N. Sabale, M.M. Naik, P.M. Nigade and Pooja Saxena	178
Incidence and distribution of <i>Citrus tristeza virus</i> in citrus cultivars in Ibadan, southwest Nigeria —K.T. Kareem, B.O. Odu, V.C. Umeh, V.A. Chikaleke, K.E. Oke, O. Arogundade, A.O. Adediji and O.O. Odedara	183
Physiological and yield response of okra (<i>Abelmoschus esculentus</i> Moench.) to drought stress and organic mulching —Anant Bahadur, Amit Kumar Singh and S.N.S. Chaurasia	187
Strawberry regeneration and assessment of runner quality in subtropical plains —R.M. Sharma, A.K. Singh, Sushil Sharma, F.A. Masoodi and Uma Shankar	191
Drip irrigation with fertigation on soil less media for tomato under controlled cultivation—Barikara Umesha, S. Santhana Bosu, K.P. Rema and A.R. Murumkar	195
Genetic expression of CMS based hybrids for yield and its attributing traits in chilli (Capsicum annuum L.) —Krishna Ji, S.S. Solankey, Sanjay Kumar and Diwaker Singh	198
Spray pollination: An efficient and labour saving method for kiwifruit (Actinidia deliciosa A. Chev.) production —Sharmistha Naik and Vishal Rana	202
Genotypes x environment interaction studies on early blight disease of tomato —A.K. Singh, N. Rai, R.K. Singh, R.P. Singh and Vineeta Singh	207
Genetic variability and trait association in sprouting broccoli (<i>Brassica oleracea</i> var. <i>italica</i> Plenck) under temperate Kashmir valley conditions —K. Habib, N. Ahmad, P.A. Sofi, S.H. Khan and T. Shafi	211
Storage life improvement of custard apple (<i>Annona squamosa</i> L.) fruits <i>cv</i> 'Balanagar' by postharvest application of antioxidants —A. Venkatram and A. Bhagwan	215
Influence of different sources of nutrients on growth, yield and quality of Khasi mandarin grown under mid hills of Arunachal Pradesh (India) —P. Suresh Kumar, V.K. Choudhary, M. Kanwat and A. Sangeetha	220
Effect of light intensity and soil media on establishment and growth of Curculigo latifolia Dryand —Reza Farzinebrahimi, Rosna Mat Taha and Kamaludin A Rashid	224
Effect of method of orchard establishment and propagation on growth and development of aonla (<i>Emblica officinalis</i> Gaertn.) plants in wastelands —R.S. Negi, B.S. Baghel and U.S. Gautam	227

Vol. 15, No. 2, May-August, 2013

Molecular biology of <i>Tomato spotted wilt virus</i> : An update —Saurabh Kulshrestha, Anshul Sharma and Chandrika Attri Seth (India)	71
Differential response of citrus rootstocks to CuEDTA concentration in sand culture —Joseph P. Albano, Kim D. Bowman and P. Chris Wilson (USA)	81
Growth control and flower promotion of <i>Salvia</i> with benzyladenine foliar sprays —Dennis J. Carey, Barbara A. Fair, Wayne Buhler, Ingram McCall and Brian E. Whipker (USA)	87
Ecophysiological performance of eight <i>Jatropha curcas</i> L. provenances cultivated in Tunisia —Z. Nasr, M.L. Khouja, R. Aini, A. Hammadi, H. Manai and B. Mimouni (Tunisia)	90
Effect of explants, bacterial cell density and overgrowth-control antibiotics on transformation efficiency in tomato (<i>Solanum lycopersicum</i> L.) —B.D. Pawar, A.S. Jadhav, A.A. Kale, V.P. Chimote and S.V. Pawar (India)	95
Effect of modified atmospheric packaging on chilling injury and shelf-life of custard apple fruits —R.A. Patil, D.V. Sudhakar Rao and B. Manasa (India)	100
Effect of plant bio-regulators on fruit growth, quality and productivity of pear [<i>Pyrus pyrifolia</i> (Brum.) Nakai] cv Gola under <i>tarai</i> condition —Manoj Kundu, Ritu Joshi, P.N. Rai and L.D. Bist (India)	106
An efficient selfing technique for inbred development—A prerequisite for hybrid production in petunia —K. Swathi, Tejaswini and K.V. Jayaprasad (India)	110
Performance of novel insecticides for management of onion thrips (<i>Thrips tabaci</i> L.) —Durga Singh, R.P.S. Shaktawat and I.S. Naruka (India)	114
Studies on parasitoid complex of mealybug infesting grapes in Maharashtra —U. Amala, D.S. Yadav and A.M. Bhosale (India)	117
Population dynamics of red pumpkin beetle on cucumber in mid-hill Himalayas —Sheikh Khursheed, Desh Raj and Nisar A. Ganie (India)	120
Effect of N-sources on nitrogen use efficiency and nutrient content of Ocimum canum plants grown using nutrient film technique (NFT) —Hassan A. Hamouda, A.A. El-Sayed, Mohamed M. El-Fouly, A.A. Fawzi, B.M. Mansour and H.A. Bosila (Egypt)	124
Pollen storage and use for enhancing fruit production in kiwifruit (<i>Actinidia deliciosa</i> A. Chev.) —Sharmistha Naik, Poonam and Vishal Rana (India)	128
Evaluation of <i>makoi</i> (<i>Solanum nigrum</i> L.) germplasm for growth, yield and quality —C.S. Ravi, B.S. Sreeramu, A.P. Mallikarjuna Gowda and G.R. Smitha (India)	133
Response of magnesium oxide treatment and method of drying on quality of dried lasoda (<i>Cordia myxa</i> Roxb.) fruits —M.R. Choudhary, S. Dadheech, S.P. Singh and R.S. Dhaka (India)	138
Performance of different potato genotypes under aeroponics system —Margaret Chiipanthenga, Moses Maliro, Paul Demo, Joyce Njoloma and Navin Khumar (Malawi)	142
Impact of mechanical planting depth and density on agronomic parameters of organic potato (<i>Solanum tuberosum</i> L.) —S. Chehaibi, B. Douh, El B. Mohandes Dridi and M.W. Hadj Bechir (Tunisia)	148
Population dynamics and development of suitable pest management module against major insect pests of tomato (Solanum lycopersicum) —S.M. Chavan, Sushil Kumar and S.S. Arve (India)	150

Vol. 15, No. 1, January-April, 2013

Genetic transformation of cabbage (<i>Brassica oleracea</i> var. capitata) with synthetic cry1F gene to impart resistant to diamondback moth (<i>Plutella xylostella</i>) — H.M. Mahadeva Swamy, S.N. Nagesha, Prakash M. Navale, T.K.S. Gowda, R. Asokan and Riaz Mahmood (India)	3
Characterization and biostimulation of benzene biodegradation in the potting-mix of indoor plants —F.R. Torpy, P.J. Irga, D. Moldovan, J. Tarran and M.D. Burchett (Australia)	10
Grafting onto African eggplant enhances growth, yield and fruit quality of tomatoes in tropical forest ecozones — G.O. Nkansah, A.K. Ahwireng, C. Amoatey and A.W. Ayarna (Ghana)	16
Post-tsunami collection of polyembryonic mango diversity from Andaman islands and their ex situ reaction to high sodium in sodic soil —T. Damodaran, Shailendra Rajan, Ram Kumar, D.K. Sharma, V.K. Misra, S.K. Jha and R.B. Rai (India)	21
Improvement of somatic embryogenesis and plant regeneration of seven date palm (<i>Phoenix dactylifera</i> L.) cultivars: Effect of cytokinins and activated charcoal —Mona M. Hassan, Ibrahim A. Ibrahim, Mohsen K.H. Ebrahim and Ewald Komor (Egypt and Germany)	26
Growth and development response of <i>Antirrhinum</i> to plant growing media —Farhat Naz, Jalal-Ud-Din Baloch, M. Munir and A.A. Khakwani (Pakistan & UK)	32
Temperature effects on phenological development and yield of Snapmelon —S. Sarkar, A. Saha, P. Hazra and M. Pandit (India)	38
Effect of 1-methylcyclopropene on postharvest physiology and quality of cut rose flowers —S. Muthu Kumar and V. Ponnuswami (India)	43
Studies on hybrid vigour in bitter gourd (<i>Momordica charantia</i> L.) for earliness, yield and quality characters —C. Thangamani and L. Pugalendhi (India)	47
Effect of different growth media on the growth and flowering of beefsteak begonia (<i>Begonia erythrophylla</i>) — Henry A. Akintoye, Olusola O. AdeOluwa, Olukemi Y. Akinkunmi (Nigeria)	57
Studies on fungicide treatment of soil and seed tuber for control of potato black scurf (<i>Rhizoctonia solani</i> Khun) in Argentina —J.D. Mantecón (Argentina)	62
Effect of pruning and fruit thinning on yield and fruit weight of peach (Prunus Persica (L) Batsch) cv. Shan-i-Punjab in sub-mountain zone of Punjab—An on-farm study —Gurteg Singh and Sat Pal Saini (India)	65

Vol. 14, No. 2, July-December, 2012

Effect of root substrates and seed cover materials on the germination and growth of organic tomato transplants —Kurt O. Taylor, Muchha R. Reddy, Carl E. Niedziela Jr., Mary M. Peet and Godfrey Gayle (USA)	83
Ginger juice enhanced growth of aromatic chilli during <i>in vitro</i> culture and acclimatization —K. Bodhipadma, S. Noichinda, P. Luangsriumporn, C. Meenapa, K. Nathalang, and D.W.M. Leung (Thailand/New Zealand)	88
Water retention characteristics of soil bio-amendments used as growing media in pot culture —S.S. Kukal, Debasish Saha, Arnab Bhowmik and R.K. Dubey (India)	92
Isolation of biomolecules of pharmacological importance from <i>Garcinia indica</i> fruit and evaluation of total antioxidant activity —P. Gayathri and P. Govindaraju (India)	98
Postharvest microbial diversity on major cultivars of Indian mangoes —S.N. Jha, Pranita Jaiswal, K. Narsaiah, Rishi Bhardwaj, Poonam Preet Kaur, Ashish Kumar Singh, Rajiv Sharma and R. Kumar (India)	102
Effect of dehydration on keeping quality of white button mushroom, Agaricus bisporus Lange (Sing.) —M.P. Singh, H.S. Sodhi, A. Singh and P.K. Khanna (India)	110
Relationship of nutritional status of field grown Thompson Seedless grapevines with powdery mildew incidence —Jagdev Sharma, A.K. Upadhyay, Indu S. Sawant and S.D. Sawant (India)	114
Effect of growing media on seed germination and seedling growth of papaya (Carica papaya) cv. 'Red lady' —R.L. Bhardwaj (India)	118
Effect of plant bio-regulators on physico-chemical characteristics of three apple varieties during ambient storage —B.L. Attri, Hare Krishna, B. Das, N. Ahmed and Akhilesh Kumar (India)	124
Influence of biofertilizers on plant growth, fruit yield, nutrition and rhizosphere microbial activity of pomegranate (<i>Punica granatum</i> L.) cv. Kandhari Kabuli —Muzaffar Mir and Som Dev Sharma (India)	129
Resistance evaluation of the pistachio rootstocks to <i>Meloidogyne</i> species in Iran —Mehrdad Madani, Ahmad Akhiani, Mahmoud Damadzadeh and Ahmad Kheiri (Iran)	134
Biology and seasonal activity of semilooper, <i>Dichromia orosia</i> (Cramer) (Lepidoptera: Noctuidae) on anthmool, <i>Tylophora asthmatica</i> Wight and Arn. —L. Saravanan and Vipin Chaudhary (India)	139
Occurrence of false smut on date palm (<i>Phoenix dactylifera</i> L.) in the southern coastal plains of Yemen —M.H. Abdul Sattar, A. Rashid Yassin Ibrahim and Watheq A. Aulaqi (Yemen)	144
Resource use efficiency of orange and kinnow cultivation in Jammu region of J&K state —Jyoti Kachroo, Anil Bhat and Dileep Kachroo (India)	146
Enhancing water relations and vase life of cut tulip (<i>Tulipa gesneriana</i> L.) using floral preservatives —R. Kumar, N. Ahmed, D.B. Singh and O.C. Sharma (India)	152

Vol. 14, No. 1, January-June, 2012

Increased regeneration ability of transgenic callus of carrot (<i>Daucus carota</i> L.) on B5-based regeneration medium —Yuan-Yeu Yau and Kevin Yueju Wang (USA)	3
Avoiding the use of plant growth regulator in geranium production by application of a cyclic deficit irrigation strategy —Patrick Riga (Spain)	7
Effect of light emitting diodes (LEDs) on postharvest needle retention of balsam fir (Abies balsamea L.) —R. Scott Veitch, Rajasekaran R. Lada and Mason T. MacDonald (Canada)	13
Effect of deficit drip-irrigation scheduling regimes with saline water on pepper yield, water productivity and soil salinity under arid conditions of Tunisia —K. Nagaz, M.M. Masmoudi and N. Ben Mechlia (Tunisia)	18
Observations on leaf morphology of male and female <i>Actinidia chinensis</i> plants —W. Liu, M. Yang and H. Liang (China)	25
Growth and foliar nutrient concentration response of <i>Clerodendrum thomsoniae</i> to increasing fertilization	29
—Karen I. Davis, Carl E. Niedziela Jr., Brian E. Whipker and Muchha R. Reddy (USA)	
Influences of severe water stress on photosynthesis, water use efficiency and proline content of almond cultivars Kazam Barzagar, Abbas Vadollabi, Ali Imani and Neorollab Abmadi (Iran)	33
—Kazem Barzegar, Abbas Yadollahi, Ali Imani and Noorollah Ahmadi (Iran)	40
Selection of resistant source to early blight disease in tomato among the Solanum species—A.K. Singh, N. Rai, R.K. Singh, Major Singh, R.P. Singh, Smita Singh and Satyandra Singh (India)	40
Water requirement of pomegranate (<i>Punica granatum</i> L.) plants upto five year age —D.T. Meshram, S.D. Gorantiwar, H.K. Mittal, N.V. Singh and A.S. Lohkare (India)	47
Effect of different mulch materials on the incidence and severity of okra mosaic virus (OMV) in okra —K.T. Kareem, O.O. Alamu, R.K. Egberongbe and O. Arogundade (Nigeria)	51
Effect of putrescine, GA ₃ , 2, 4-D, and calcium on delaying peel senescence and extending harvest season of navel orange —H.A. Kassem, H.A. Marzouk and R.S. Al-Obeed (Egypt)	56
In vitro free radical scavenging activity of aonla (Emblica officinalis) varieties at various stages of fruit development —S. Haripriya, E. Vadivel, R. Venkatachalam and P. Gayathri (India)	63
Response of some Egyptian sweet melon (<i>Cucumis melo</i> var. <i>Aegyptiacus</i> L.) cultivars to water stress conditions —E.A. Ibrahim (Egypt)	67
Micropropagation of strawberry cultivar Sweet Charlie through axillary shoot proliferation —R. Rekha, Pallavi Mandave and Neelambika Meti (India)	71
Potential use of shea nut (<i>Vitteleria paradoxom</i>) butter as skin coat for ripening and improved storage of banana —E.K. Tsado (Nigeria)	74
Allelopathic effect of orchard soils on seedling growth of rough lemon (Citrus jambhiri Lush.) —R.P.S. Dalal, Navjot, A. Thakur, A.S. Sidhu and J.S. Brar (India)	77

Vol. 13, No. 2, July-December, 2011

Application of BABA and s-ABA for drought resistance in apple —T. Tworkoski, M. Wisniewski and T. Artlip (USA)	85
Wood chip mulch thickness effects on soil water, soil temperature, weed growth and landscape plant growth —Simon J. van Donk, Dale T. Lindgren, Daniel M. Schaaf, James L. Petersen and David D. Tarkalson (USA)	91
Systematic evaluation of table grapes in search of suitable cultivars for high deserts in the United States —Esmaeil Fallahi (USA)	96
Intraspecific somatic hybridization of mango (<i>Mangifera indica</i> L.) through protoplast fusion—Ramezan Rezazadeh, Dion K. Harrison and Richard R. Williams (Australia)	101
Application of extended BBCH Scale for phenological studies in mango (<i>Mangifera indica</i> L.) —Shailendra Rajan, Divya Tiwari, V.K. Singh, Pooja Saxena, Shilpi Singh, Y.T.N. Reddy, K.K. Upreti, M.M. Burondkar, A. Bhagwan and Richards Kennedy (India)	108
Fruit quality during ripening and cold storage of two Japanese plum varieties cultivated in Tunisia —Hatem Mabrouk and Slah Mejri (Tunisia)	115
Effects of ⁶⁰ Co γ-ray radiation on kiwifruit grafted buds —H. Liang, Y.J. Hu, W.M. Pang, W. Liu and M.X. Yang (China)	119
Development of internal browning during low temperature storage of pineapple cv. 'Trad-Srithong' fruit harvested at different times of the day —P. Youryon, C. Wongs-Aree, W.B. McGlasson, S. Glahan and S. Kanlayanarat (Thailand)	122
Irrigation water quality and nitrogen for yield and water-use efficiency of potato in the arid conditions of Tunisia —K. Nagaz, K. Khlouj, I. Toumi, F. El-Mokh, M.M. Masmoudi and N. Ben Mechlia (Tunisia)	127
Effect of cycloheximide on postharvest performance of cut spikes of <i>Consolida ajacis</i> cv. Violet Blue Waseem Shahri and Inayatullah Tahir (India)	134
Response of olive cultivars (<i>Olea europaea</i> L.) to induced water stress —N.R. Bhat, H. Al-Menaie, M. Suleiman, L-Al-Mulla, B. Thomas, P. George, S. Isat Ali and G. D' Cruz (Kuwait)	139
Heavy metals scavenging of soils and sludges by ornamental plants —Prasann Kumar, Biswapati Mandal and Padmanabh Dwivedi (India)	144
Influence of paclobutrazol application on the flower size and yield of China aster (Callistephus chinensis (L.) Nees) —Dilip Kumar Mishra and L.P. Yadava (India)	147
Optimization of growth regulators and explant source for micropropagation and cost effective ex vitro rooting in 'Poshita' Winter Cherry (Withania somnifera L.) —A.A. Waman, B.N. Sathyanarayana, K. Umesha, Balakrishna Gowda, T.H. Ashok, A.M. Rajesh and R.G. Guruprakash (India)	150
Associative effect of biofumigation and biocontrol agents in management of root knot nematode <i>Meloidogyne hapla</i> in Gerbera —B. Anita, N. Selvaraj and R.M. Vijayakumar (India)	154
Organic manures and bio-fertilizers effectively improve yield and quality of stevia (Stevia rebaudiana) —K. Umesha, G.R. Smitha, B.S. Sreeramu and A.A. Waman (India)	157

Vol. 13, No. 1, January-June, 2011

An improved protocol for rapid and efficient <i>Agrobacterium</i> mediated transformation of tomato (<i>Solanum lycopersicum</i> L.) —M. Manamohan, M.N. Prakash, G. Sharath Chandra, R. Asokan and S.N. Nagesha (India)	3
Flower bud initiation in southern highbush blueberry cv. O'Neal occurs twice per year in temperate to warm-temperate conditions —María Pescie, Marcelo Lovisolo, Alberto De Magistris, Bernadine Strik and César López (Argentina)	8
Evaluation of SPAD chlorophyll fluorescence for on-site nitrogen assessment in drip fertigated sweet corn —Lydia L.M. Kitonga-Mwanza, John Swiader and Richard M.S. Mulwa (USA, Kenya)	13
Induced chlorophyll mutations in <i>Delphinium malabaricum</i> (Huth) Munz. —Firdose Kolar, Nilesh Pawar and Ghansham Dixit (India)	18
Walnut cracking device —Josef Bukac (Czech Republic)	25
Performance of asparagus under the desert conditions of Arabian Peninsula: A pilot study —N. Kameswara Rao and Mohammed Shahid (UAE)	27
Salinity tolerance in <i>Chrysanthemum morifolium</i> —T.S. Rahi and Bajrang Singh (India)	30
Callus mediated plant regeneration of two cut flower cultivars of <i>Anthurium andreanum</i> Hort. —Sunila Kumari, J.R. Desai and R.R. Shah (India)	37
Development of high frequency multiple shoots in the yellow cactus, Selenicereus megalanthus —S.W. Goveas, S.K. Nivas and L.D. Souza (India)	42
Effect of pollen grain-water suspension spray on fruit set, yield and quality of 'Helali' date palm (<i>Phoenix dactylifera</i> L.) —Adel D. Al-qurashi (Saudi Arabia)	44
Effect of salinity and temperature on seed germination indices of <i>Zinnia elegans</i> L.—S. Zivdar, E. Khaleghi and F. Sedighi Dehkordi (Iran)	48
Impact of cefotaxime on <i>in vitro</i> shoot elongation and regeneration in banana (<i>Musa acuminata</i>) —Pooja Manchanda, Ajinder Kaur and Satbir Singh Gosal (India)	52
Combining ability for yield and associated traits in Sudanese okra (Abelmoschus esculentus L.) collection —Y.A. ALKamal, A.I. Abdalla and A.A. Taha (Sudan)	56
Effects of mulching materials and NPK fertilizer on the growth, yield and quality of <i>Telfairia occidentalis</i> —J.O. Olaniyi and M.A. Ajao (Nigeria)	60
Response of Gaillardia aristata Pursh to salinity —N.K. Rao and Mohammed Shahid (UAE)	65
Development of a low cost hydroponics system and a formulation for the tropics —M.D.J.S. Saparamadu, W.A.P. Weerakkody, R.D. Wijesekera and H.D. Gunawardhana (Sri Lanka)	68
Growth and yield of French bean (<i>Phaseolus vulgaris</i> L.) under organic farming —M. Prabhakar, S.S. Hebbar and A.K. Nair (India)	71
Genetic variability in late <i>kharif</i> (<i>Rangada</i>) onion (<i>Allium cepa</i> L.) —R.K. Singh, S.R. Bhonde and R.P. Gupta (India)	74
Effect of Glomus fasciculatum on the growth and yield of tomato (Solanum lycopersicum L.) in Meloidogyne incognita infested soil —Iniobong Edet Okon and Edet A. Imuk (Nigera)	79
Processing and quality evaluation of guava squash —J. Shankara Swamy and A.K. Banik (India)	82

Vol. 12, No. 2, July-December, 2010

Effects of water inclusion in microclimate modification systems for warm and cool season vegetable crops on temperature and yield N. Bumgarner and S. Verlinden (USA)	87
Changes in inner contents of 'Kyoho' grape berry during the growth and ripening period	00
T. Ban, A. Nakatsuka, K. Akaura, S. Matsumoto, M. Ishimaru and H. Itamura (Japan)	93
Optimization of guava edible coating using response surface methodology A. Mohd Zahid, C.S. Cheow, A.R. Norizzah, Z.M.S. Halimahton and M.S. Adi (Malaysia)	97
Effect of pine bark, pine straw and red oak amendments on pH of potting medium D.M. Burner and D.H. Pote (USA)	102
Vapour heat quarantine treatment for Taiwan native mango variety fruits infested with fruit fly	
Thi-Nghiem Le, Ching-Chang Shiesh, Huey-Ling Lin and Elsa Lee (Taiwan)	107
A world of flowers: Dutch flower auctions and the market for cut flowers M. Steen (Norway)	113
Sex determination in <i>Pistacia</i> species using molecular markers B. Esfandiyari, G.H. Davary Nejad, F.A. Shahriyariand M. Kiani (Iran)	122
Genetic diversity of cultivated elephant foot yam (<i>Amorphophallus paeoniifolius</i>) in Kuningan, West Java as revealed by microsatellite markers Edi Santosa, Yoko Mine, Miki Nakata, Chunlan Lian and Nobuo Sugiyama (Japan and Indonesia)	125
Effect of grafting on vegetative growth and quantitative production of muskmelon	123
(Cucumis melo L.) A. Radhouani and A. Ferchichi (Tunisia)	129
Quality and physiological responses of Fuji apple to modified atmosphere packaging during cold storage Xiao-Long Li,, Jian-Wen Tian, Mark A. Ritenour, Jia-Zheng Li, Shu-Ya Song, Hui-Ling Ma (China)	135
Horizontal and vertical soilless growing systems under Cyprus conditions Damianos Neocleous, Charalambos Kaittanis, Nicos Seraphides	140
and Polycarpos Polycarpou (Cyprus) Improving yield and fruit quality of date palm by organic fertilizer sources	140
H.A. Kassem and H.A. Marzouk (Egypt)	145
Effects of arbuscular mycorrhizal inoculation on growth performance of Piper longum L. (Piperaceae) under sterilized soil conditions R.K. Singh and P. Gogoi (India)	151
Chemical composition and larvicidal activity of the essential oil of Iranian Laurus nobilis L. Verdian-rizi Mohammadreza (Iran)	155
Evaluation of different substrates on yield and fruit quality of sweet pepper using open soilless culture	450
Muhtaseb Jalal (Jordan) The influence of chlorination on the phytotoxicity and the production of	158
The influence of chlorination on the phytotoxicity and the production of Zinnia elegans	
H.E. Palmucci, Z. Premuzic, L. Mascarini, C. Campetella and V. López (Argentina)	161

Vol. 12, No. 1, January-June, 2010

Anthocyanins accumulation and genes-related expression in berries of cv. Tannat (<i>Vitis vinifera</i> L.) O. Borsani, G. Gonzalez-Neves, M. Ferrer and J. Monza (Uruguay).	3
Effects of different photoperiods on flowering time of facultative short day ornamental annuals Jalal-Ud-Din Baloch, M. Qasim Khan, M. Munir and M. Zubair (Pakistan).	10
Efficacy and physical properties of ground, composted rice hulls as a component of soilless substrate for selected bedding plants C. Song, Paul V. Nelson, Carl E. Niedziela Jr., and D. Keith Cassel (USA).	16
Diallel analysis for fruit traits among tomato recombinant inbred lines derived from an interspecific cross <i>Solanum lycopersicum</i> x <i>S. pimpinellifolium</i> E. Marchionni Basté, D.R. Liberatti, S.L. Mahuad, G.R. Rodriguez, G.R. Pratta, R. Zorzoli and L.A. Picardi (Argentina).	21
Pepper (Capsicum annuum L.) responses to surface and drip irrigation in southern Tunisia Mohamed Thabet and Khemaies Zayani (Tunisia)	26
In vitro flowering and shoot multiplication of Gentiana triflora in air-lift bioreactor cultures Yaser Hassan Dewir, Nisha Singh, Siveshni Govender and Pragashnee Pillay (Egypt)	30
Diversity and efficiency of wild pollinators of watermelon (Citrullus lanatus (Thunb.) Mansf.) at Yatta (Kenya) G.N. Njoroge, B. Gemmill, R. Bussmann, L.E. Newton and V.W. Ngumi (Kenya)	35
In vitro mass propagation of Sikkim Himalayan Rhododendron (R. dalhousiae Hook. f.) from nodal segment Bhusan Gurung and K.K. Singh (India).	42
Induction of multiple shoots in <i>Amomum hypoleucum</i> Thwaites – A threatened wild relative of large cardamom M. Bejoy, M. Dan, N.P. Anish, Githa Ann George and B.J. Radhika (India).	46
Effect of nitrogen concentration and growth regulators on growth and nitrate content of lettuce Damianos Neocleous (Cyprus).	50
Fruit ripening of Solo Sunrise, Tainung #2 and Red Lady papaya at two temperatures S. Protain, M. Mohammed and L.A. Wilson (West Indies)	54
Effect of winter foliar application of urea on some quantitative and qualitative characters of flower and fruit set of orange cv 'Valencia' S. Akbari Chermahini, N. Moallemi, A. Shafei Zargar (Iran).	59
Management of root-knot nematode (<i>Meloidogyne incognita</i> (Kofoid and White) Chitwood) in ashwagandha (<i>Withania somnifera</i> Dunal.) and senna (<i>Cassia angustifolia</i> Vahl.) using non-chemicals	62
S. Ramakrishnan, R. Umamaheswari, T. Senthilkumar and M. Samuthiravalli (India). Studies on the suitability of cling-stone and free-stone low chilling peach cultivars for canning and other processed products P. Aggarwal, A.K. Bakshi and J.S. Kanwar (India).	65
Spectrophotometric determination of total alkaloids in some Iranian medicinal plants Shamsa Fazel, Monsef Hamidreza, Ghamooshi Rouhollah and Mohammadreza Verdian-rizi (Iran)	69
Characterisation of promising okra genotypes on the basis of Principal Component Analysis R.K. Sharma and K. Prasad (India).	71
Efficacy of some essential oils on controlling powdery mildew on zinnia (<i>Zinnia elegans</i> L.) M.A. Hegazi and G.A.N. El-Kot (Egypt).	75
The valuation of olive orchards: A case study for Turkey Sait Engindeniz, Murat Yercan and Hakan Adanacioglu (Turkey).	81

Vol. 11, No. 2, July-December, 2009

ISSR, anthocyanin content and antioxidant activity analyses to characterize strawberry genotypes Samir C. Debnath and Elodie Ricard (Canada)	83
The effect of high daytime temperatures on inhibition of flowering in 'Koroneiki' olives (<i>Olea europaea</i> L.) under chilling and non-chilling nighttime temperatures	00
Nasir S.A. Malik and Joe M. Bradford (USA) Leaf N and P in different growth habits of peach: Effects of root system morphology and	90
transpiration Thomas Tworkoski, Ralph Scorza and D. Michael Glenn (USA)	95
Influence of fungicides and <i>Phytophthora capsici</i> resistant/tolerant cultivars on bell pepper yield and farm-gate revenues Jamie R. Stieg, S. Alan Walters, Jason P. Bond and M. Babadoost (USA)	99
Evaluation of the FAO CROPWAT model for deficit irrigation scheduling for onion crop in a semiarid region of Ethiopia Samson Bekele Diro and Ketema Tilahun (Ethiopia)	103
Evaluation of grafting effect on tomato crop yield and Fusarium crown and root rot disease Mahmoud M Hamdi, Naima Boughalleb, Neji Tarchoun and Lassaad Belbahri (Switzerland)	107
The effect of upper-limit of soil water content on tomato and cucumber Jianming Li, Xiaoyan Wang, Zhirong Zou and M.H. Behboudian (China)	111
Growth, nutrient uptake and nitrogen use efficiency of <i>Ficus hawaii</i> grown on nutrient film techniques (NFT) using different N-sources Mohamed M. El-Fouly, A.A. El-Sayed, A.A. Fawzy, B.M. Mansour,	113
H.A. Bosila and Hassan A. Hamouda (Egypt) Effects of grafted eggplants on allelopathy of cinnamic acid and vanillin in root exudates Chen Shaoli, Zhou Baoli, Wang Ruhua and Xi Haijun (China)	119
Low cost hydroponics devices and use of harvested water for vegetable and flower cultivation A. Das and D. Sing Majhi (India)	123
Caffeine, phenol and protein contents of thirty-seven clones of Nigerian robusta coffee (Coffea canephora Pierre ex. Froehner) S.S. Omolaja (Nigeria)	127
Bunch covering impact on the ripening time, marketable yield and fruit quality of "Zaghloul" dates	
A.M. El Assar (Egypt) A study on adaptation of tomato ecotypes from northern latitudes under southern Iran conditions	132
Naser Alemzadeh Ansari and Reza Mamghani (Iran)	136
Effect of hot-water and cold treatments on reducing contamination in almond tissue culture A. Shekafandeh and M. Ghasemi (Iran)	143
Health evaluation of cactus collection in botanical garden at Cluj-Napoca, Romania Gyorgy Feszt and Lucica Mihalte (Romania)	146
Nutrient content changes in strawberry plant parts at different development stages Mohamad Fattahi and Mansuor Gholami (Iran)	150
Growth, yield and productivity responses of okra-papaya mixture to intercropping in South West Nigeria O.O. Olubode, I.O.O. Aiyelaagbe and J.G. Bodunde (Nigeria)	153
Constraints as perceived by the vegetable growers regarding the adoption of IPM technologies in cauliflower cultivation: an empirical study	100
Prabuddha Ray and Sarthak Chowdhury (India)	160

Vol. 11, No. 1, January-June, 2009

meta-analysis Guido Knapp, Bimal K. Sinha and Dihua Xu (USA). Is CropSyst adequate for management-oriented simulation of growth and yield of processing tomato? Onofri Andrea, Beccafichi Catia, Benincasa Paolo, Guiducci Marcello and Tei Francesco (Italy). Starch degradation characteristics in relation to physiological and biochemical properties during growth and maturation of apple fruit Manasikan Thammawong and Osamu Arakawa (Japan). Water usage and water use efficiency of drip-irrigated tomato under deficit irrigation Berhanu Kebebew and Ketema Tilahun (Ethiopia). Effects of antibrowning agents on the shelf life of fresh-cut green jackfruit (Artocarpus heterophyllus Lam.). Boodia Navindra, Ruggoo Arvind and Boodoo B. Hassina (Mauritius). Sucrose synthase and acid invertase activities in relation to the floral structures abortion in pepper (Capsicum annuum L.) grown under low night temperature Neji Tarchoun Salah Rezgul and Abdelaziz Mougou (Tunisia). Use of plastic shades to regulate growth of korarima (Aframomum corrorima (Braun) P.C.M. Jansen) S. Eybo (Ethiopia). Effect of growth regulators on in vitro plant regeneration of female papaya using axillary bud as an explant Renu Singh, Ram C. Yadav and Neelam R. Yadav (India). Effects of the addition of clinker ash to the propagation medium on rooting of rabbiteye blueberry cuttings T. Ban, H. Kitazawa, S. Matsumoto, N. Kobayashi, K. Tokumasa, M. Kobatake and T. Asao (Japan). Persian walnut (Juglans regia L.) grafting as influenced by different bench grafting methods and scion cultivars Babak Dehghan, Kourosh Vahdati, Darab Hassani and Reza Rezaee (Iran). Extraction and determination of α-solanine in eggplant fruits Zhiwen Li, Baoli Zhou, Yuwen Ding and Xiang Liu (China). Morphogenetic and biosynthetic potential of in vitro grown Hypericum perforatum under stress and normal conditions M. Altaf Wani, G.R. Lawania, R.A. Bhat, Iffiat Fayaz, A. Nanda and Gazenfar Gani (India). Growth and interference of invasive Russian knapweed on "Valcatorce	Applications of GIS to Citriculture in South Texas Reginald S. Fletcher (USA).	3
Is CropSyst adequate for management-oriented simulation of growth and yield of processing tomato? Onofri Andrea, Beccafichi Catia, Benincasa Paolo, Guiducci Marcello and Tei Francesco (Italy). Starch degradation characteristics in relation to physiological and biochemical properties during growth and maturation of apple fruit Manasikan Thammawong and Osamu Arakawa (Japan). Water usage and water use efficiency of drip-irrigated tomato under deficit irrigation Benhanu Kebebew and Ketema Tilahun (Ethiopia). Effects of antibrowning agents on the shelf life of fresh-cut green jackfruit (Artocarpus heterophyllus Lam). Boodia Navindra, Ruggoo Arvind and Boodoo B. Hassina (Mauritius). Sucrose synthase and acid invertase activities in relation to the floral structures abortion in pepper (Capsicum annuum L.) grown under low night temperature 35 Néji Tarchoun Salah Rezgui and Abdelaziz Mougou (Tunisia). Use of plastic shades to regulate growth of korarima (Aframomum corrorima (Braun) P.C.M. Jansen) S. Eyob (Ethiopia). Effect of growth regulators on in vitro plant regeneration of female papaya using axillary bud as an explant Renu Singh, Ram C. Yadav and Neelam R. Yadav (India). Effects of the addition of clinker ash to the propagation medium on rooting of rabbiteye blueberry cuttings T. Ban, H. Kitazawa, S. Matsumoto, N. Kobayashi, K. Tokumasa, M. Kobatake and T. Asao (Japan). Persian walnut (Juglans regia L.) grafting as influenced by different bench grafting methods and scion cultivars T. Ban, H. Sitazawa, S. Matsumoto, N. Kobayashi, K. Tokumasa, M. Kobatake and T. Asao (Japan). Persian walnut (Juglans regia L.) grafting as influenced by different bench grafting methods and scion cultivars The Babak Dehghan, Kourosh Vahdati, Darab Hassani and Reza Rezaee (Iran). Extraction and determination of α-solanine in eggplant fruits Zhiwen Li, Baoli Zhou, Yuwen Ding and Xiang Liu (China). Morphogenetic and biosynthetic potential of in vitro grown Hypericum perforatum under stress and normal conditions A. Altaf	Extracting within-experiment precision of horticultural experiments useful for meta-analysis Guido Knapp, Bimal K, Sinha and Dihua Xu (USA).	10
properties during growth and maturation of apple fruit Manasikan Thammawong and Osamu Arakawa (Japan). ### Water usage and water use efficiency of drip-irrigated tomato under deficit irrigation Berhanu Kebebew and Ketema Tilahun (Ethiopia). #### Effects of antibrowning agents on the shelf life of fresh-cut green jackfruit (**Artocarpus heterophyllus** Lam.**) Boodia Navindra, Ruggoo Arvind and Boodoo B. Hassina (Mauritius). #### Sucrose synthase and acid invertase activities in relation to the floral structures abortion in pepper (**Capsicum annuum** L.**) grown under low night temperature ### Use of plastic shades to regulate growth of korarima (**Aframomum corrorima**) ### Use of plastic shades to regulate growth of korarima (**Aframomum corrorima**) ### Braun) P.C.M. Jansen) ### S. Eyob (Ethiopia). ### Effect of growth regulators on in vitro plant regeneration of female papaya using axillary bud as an explant ### Effects of the addition of clinker ash to the propagation medium on rooting of rabbiteye blueberry cuttings ### T. Ban, H. Kitazawa, S. Matsumoto, N. Kobayashi, K. Tokumasa, M. Kobatake and T. Asao (Japan). ### Persian walnut (**Juglans regia** L.**) grafting as influenced by different bench grafting methods and scion cultivars ### Babak Dehghan, Kourosh Vahdati, Darab Hassani and Reza Rezaee (Iran). ### Extraction and determination of α-solanine in eggplant fruits ### Diagnation of the propagation of the p	Is CropSyst adequate for management-oriented simulation of growth and yield of processing tomato? Onofri Andrea, Beccafichi Catia, Benincasa Paolo, Guiducci Marcello and Tei Francesco (Italy).	17
Effects of antibrowning agents on the shelf life of fresh-cut green jackfruit (Artocarpus heterophyllus Lam.) Sucrose synthase and acid invertase activities in relation to the floral structures abortion in pepper (Capsicum annuum L.) grown under low night temperature 35 Nėji Tarchoun Salah Rezgui and Abdelaziz Mougou (Tunisia). Use of plastic shades to regulate growth of korarima (Aframomum corrorima (Braun) P.C.M. Jansen) S. Eyob (Ethiopia). Effect of growth regulators on in vitro plant regeneration of female papaya using axillary bud as an explant Renu Singh, Ram C. Yadav and Neelam R. Yadav (India). Effects of the addition of clinker ash to the propagation medium on rooting of rabbiteye blueberry cuttings T. Ban, H. Kitazawa, S. Matsumoto, N. Kobayashi, K. Tokumasa, M. Kobatake and T. Asao (Japan). Persian walnut (Juglans regia L.) grafting as influenced by different bench grafting methods and scion cultivars Babak Dehghan, Kourosh Vahdati, Darab Hassani and Reza Rezaee (Iran). Extraction and determination of α-solanine in eggplant fruits Zhiwen Li, Baoli Zhou, Yuwen Ding and Xiang Liu (China). Morphogenetic and biosynthetic potential of in vitro grown Hypericum perforatum under stress and normal conditions M. Altaf Wani, G.R. Lawania, R.A. Bhat, Iffiat Fayaz, A. Nanda and Gazenfar Gani (India). Growth and interference of invasive Russian knapweed on "Valcatorce INTA" onion Carlos R. Bezic, Armando A. Dall Armellina, Omar A. Gajardo, Lucrecia M. Avilés and Silvia L. Cañón (Argentina). Cauliflower hybrids for spring production in a southern mediterranean area M. Sciortino and G. Iapichino (Italy). The effect of different sowing times on development and efficiency of some Chinese cabbage varieties (Brassica campestris sbsp. pekinensis)	Starch degradation characteristics in relation to physiological and biochemical properties during growth and maturation of apple fruit Manasikan Thammawong and Osamu Arakawa (Japan).	23
(Artocarpus heterophyllus Lam.) 41 Boodia Navindra, Ruggoo Arvind and Boodoo B. Hassina (Mauritius). 35 Sucrose synthase and acid invertase activities in relation to the floral structures abortion in pepper (Capsicum annuum L.) grown under low night temperature 35 Néji Tarchoun Salah Rezgui and Abdelaziz Mougou (Tunisia). 46 Use of plastic shades to regulate growth of korarima (Aframomum corrorima (Braun) P.C.M. Jansen) 46 S. Eyob (Ethiopia). 50 Effect of growth regulators on in vitro plant regeneration of female papaya using axillary bud as an explant 50 Renu Singh, Ram C. Yadav and Neelam R. Yadav (India). 50 Effects of the addition of clinker ash to the propagation medium on rooting of rabbiteye blueberry cuttings 54 T. Ban, H. Kitazawa, S. Matsumoto, N. Kobayashi, K. Tokumasa, M. Kobatake and T. Asao (Japan). 54 Persian walnut (Juglans regia L.) grafting as influenced by different bench grafting methods and scion cultivars 56 Babak Dehghan, Kourosh Vahdati, Darab Hassani and Reza Rezaee (Iran). 56 Extraction and determination of α-solanine in eggplant fruits 59 Zhiwen Li, Baoli Zhou, Yuwen Ding and Xiang Liu (China). 59 Morphogenetic and biosynthetic potential of in vitro grown Hypericum perforatum under stress and normal conditions 64 M. Altaf Wani, G. R	Water usage and water use efficiency of drip-irrigated tomato under deficit irrigation Berhanu Kebebew and Ketema Tilahun (Ethiopia).	31
in pepper (Capsicum annuum L.) grown under low night temperature Néji Tarchoun Salah Rezgui and Abdelaziz Mougou (Tunisia). Use of plastic shades to regulate growth of korarima (Aframomum corrorima (Braun) P.C.M. Jansen) S. Eyob (Ethiopia). Effect of growth regulators on in vitro plant regeneration of female papaya using axillary bud as an explant Renu Singh, Ram C. Yadav and Neelam R. Yadav (India). Effects of the addition of clinker ash to the propagation medium on rooting of rabbiteye blueberry cuttings T. Ban, H. Kitazawa, S. Matsumoto, N. Kobayashi, K. Tokumasa, M. Kobatake and T. Asao (Japan). Persian walnut (Juglans regia L.) grafting as influenced by different bench grafting methods and scion cultivars Babak Dehghan, Kourosh Vahdati, Darab Hassani and Reza Rezaee (Iran). Extraction and determination of α-solanine in eggplant fruits Zhiwen Li, Baoli Zhou, Yuwen Ding and Xiang Liu (China). Morphogenetic and biosynthetic potential of in vitro grown Hypericum perforatum under stress and normal conditions M. Altaf Wani, G.R. Lawania, R.A. Bhat, Iffiat Fayaz, A. Nanda and Gazenfar Gani (India). Growth and interference of invasive Russian knapweed on "Valcatorce INTA" onion Carlos R. Bezic, Armando A. Dall Armellina, Omar A. Gajardo, Lucrecia M. Avilés and Silvia L. Cañón (Argentina). Cauliflower hybrids for spring production in a southern mediterranean area M. Sciortino and G. Iapichino (Italy). The effect of different sowing times on development and efficiency of some Chinese cabbage varieties (Brassica campestris sbsp. pekinensis)	Effects of antibrowning agents on the shelf life of fresh-cut green jackfruit (<i>Artocarpus heterophyllus</i> Lam.) Boodia Navindra, Ruggoo Arvind and Boodoo B. Hassina (Mauritius).	41
(Braun) P.C.M. Jansen)46S. Eyob (Ethiopia).5. Eyob (Ethiopia).Effect of growth regulators on in vitro plant regeneration of female papaya using axillary bud as an explant50Renu Singh, Ram C. Yadav and Neelam R. Yadav (India).50Effects of the addition of clinker ash to the propagation medium on rooting of rabbiteye blueberry cuttings54T. Ban, H. Kitazawa, S. Matsumoto, N. Kobayashi, K. Tokumasa, M. Kobatake and T. Asao (Japan).54Persian walnut (Juglans regia L.) grafting as influenced by different bench grafting methods and scion cultivars56Babak Dehghan, Kourosh Vahdati, Darab Hassani and Reza Rezaee (Iran).55Extraction and determination of α-solanine in eggplant fruits59Zhiwen Li, Baoli Zhou, Yuwen Ding and Xiang Liu (China).59Morphogenetic and biosynthetic potential of in vitro grown Hypericum perforatum under stress and normal conditions64M. Altaf Wani, G.R. Lawania, R.A. Bhat, Iffiat Fayaz, A. Nanda and Gazenfar Gani (India).68Growth and interference of invasive Russian knapweed on "Valcatorce INTA" onion68Carlos R. Bezic, Armando A. Dall Armellina, Omar A. Gajardo, Lucrecia M. Avilés and Silvia L. Cañón (Argentina).68Cauliflower hybrids for spring production in a southern mediterranean area73M. Sciortino and G. Iapichino (Italy).74The effect of different sowing times on development and efficiency of some78Chinese cabbage varieties (Brassica campestris sbsp. pekinensis)	Sucrose synthase and acid invertase activities in relation to the floral structures abortion in pepper (<i>Capsicum annuum</i> L.) grown under low night temperature Néji Tarchoun Salah Rezgui and Abdelaziz Mougou (Tunisia).	35
bud as an explant Renu Singh, Ram C. Yadav and Neelam R. Yadav (India). Effects of the addition of clinker ash to the propagation medium on rooting of rabbiteye blueberry cuttings T. Ban, H. Kitazawa, S. Matsumoto, N. Kobayashi, K. Tokumasa, M. Kobatake and T. Asao (Japan). Persian walnut (<i>Juglans regia</i> L.) grafting as influenced by different bench grafting methods and scion cultivars Babak Dehghan, Kourosh Vahdati, Darab Hassani and Reza Rezaee (Iran). Extraction and determination of α-solanine in eggplant fruits Zhiwen Li, Baoli Zhou, Yuwen Ding and Xiang Liu (China). Morphogenetic and biosynthetic potential of <i>in vitro</i> grown <i>Hypericum perforatum</i> under stress and normal conditions M. Altaf Wani, G.R. Lawania, R.A. Bhat, Iffiat Fayaz, A. Nanda and Gazenfar Gani (India). Growth and interference of invasive Russian knapweed on "Valcatorce INTA" onion Carlos R. Bezic, Armando A. Dall Armellina, Omar A. Gajardo, Lucrecia M. Avilés and Silvia L. Cañón (Argentina). Cauliflower hybrids for spring production in a southern mediterranean area M. Sciortino and G. Iapichino (Italy). The effect of different sowing times on development and efficiency of some Chinese cabbage varieties (<i>Brassica campestris</i> sbsp. <i>pekinensis</i>)	Use of plastic shades to regulate growth of korarima (<i>Aframomum corrorima</i> (Braun) P.C.M. Jansen) S. Eyob (Ethiopia).	46
rabbiteye blueberry cuttings T. Ban, H. Kitazawa, S. Matsumoto, N. Kobayashi, K. Tokumasa, M. Kobatake and T. Asao (Japan). Persian walnut (<i>Juglans regia</i> L.) grafting as influenced by different bench grafting methods and scion cultivars Babak Dehghan, Kourosh Vahdati, Darab Hassani and Reza Rezaee (Iran). Extraction and determination of α-solanine in eggplant fruits Zhiwen Li, Baoli Zhou, Yuwen Ding and Xiang Liu (China). Morphogenetic and biosynthetic potential of <i>in vitro</i> grown <i>Hypericum perforatum</i> under stress and normal conditions M. Altaf Wani, G.R. Lawania, R.A. Bhat, Iffiat Fayaz, A. Nanda and Gazenfar Gani (India). Growth and interference of invasive Russian knapweed on "Valcatorce INTA" onion Carlos R. Bezic, Armando A. Dall Armellina, Omar A. Gajardo, Lucrecia M. Avilés and Silvia L. Cañón (Argentina). Cauliflower hybrids for spring production in a southern mediterranean area M. Sciortino and G. Iapichino (Italy). The effect of different sowing times on development and efficiency of some Chinese cabbage varieties (<i>Brassica campestris</i> sbsp. <i>pekinensis</i>)	Effect of growth regulators on <i>in vitro</i> plant regeneration of female papaya using axillary bud as an explant Renu Singh, Ram C. Yadav and Neelam R. Yadav (India).	50
methods and scion cultivars56Babak Dehghan, Kourosh Vahdati, Darab Hassani and Reza Rezaee (Iran).59Extraction and determination of α-solanine in eggplant fruits59Zhiwen Li, Baoli Zhou, Yuwen Ding and Xiang Liu (China).59Morphogenetic and biosynthetic potential of in vitro grown Hypericum perforatum under stress and normal conditions64M. Altaf Wani, G.R. Lawania, R.A. Bhat, Iffiat Fayaz, A. Nanda and Gazenfar Gani (India).68Growth and interference of invasive Russian knapweed on "Valcatorce INTA" onion68Carlos R. Bezic, Armando A. Dall Armellina, Omar A. Gajardo, Lucrecia M. Avilés and Silvia L. Cañón (Argentina).68Cauliflower hybrids for spring production in a southern mediterranean area73M. Sciortino and G. Iapichino (Italy).78The effect of different sowing times on development and efficiency of some78Chinese cabbage varieties (Brassica campestris sbsp. pekinensis)78	Effects of the addition of clinker ash to the propagation medium on rooting of rabbiteye blueberry cuttings T. Ban, H. Kitazawa, S. Matsumoto, N. Kobayashi, K. Tokumasa, M. Kobatake and T. Asao (Japan).	54
Zhiwen Li, Baoli Zhou, Yuwen Ding and Xiang Liu (China). Morphogenetic and biosynthetic potential of <i>in vitro</i> grown <i>Hypericum perforatum</i> under stress and normal conditions M. Altaf Wani, G.R. Lawania, R.A. Bhat, Iffiat Fayaz, A. Nanda and Gazenfar Gani (India). Growth and interference of invasive Russian knapweed on "Valcatorce INTA" onion Carlos R. Bezic, Armando A. Dall Armellina, Omar A. Gajardo, Lucrecia M. Avilés and Silvia L. Cañón (Argentina). Cauliflower hybrids for spring production in a southern mediterranean area M. Sciortino and G. Iapichino (Italy). The effect of different sowing times on development and efficiency of some Chinese cabbage varieties (<i>Brassica campestris</i> sbsp. <i>pekinensis</i>)	Persian walnut (<i>Juglans regia</i> L.) grafting as influenced by different bench grafting methods and scion cultivars Babak Dehghan, Kourosh Vahdati, Darab Hassani and Reza Rezaee (Iran).	56
 under stress and normal conditions M. Altaf Wani, G.R. Lawania, R.A. Bhat, Iffiat Fayaz, A. Nanda and Gazenfar Gani (India). Growth and interference of invasive Russian knapweed on "Valcatorce INTA" onion Carlos R. Bezic, Armando A. Dall Armellina, Omar A. Gajardo, Lucrecia M. Avilés and Silvia L. Cañón (Argentina). Cauliflower hybrids for spring production in a southern mediterranean area M. Sciortino and G. Iapichino (Italy). The effect of different sowing times on development and efficiency of some Chinese cabbage varieties (<i>Brassica campestris</i> sbsp. <i>pekinensis</i>) 	Extraction and determination of α-solanine in eggplant fruits Zhiwen Li, Baoli Zhou, Yuwen Ding and Xiang Liu (China).	59
Carlos R. Bezic, Armando A. Dall Armellina, Omar A. Gajardo, Lucrecia M. Avilés and Silvia L. Cañón (Argentina). Cauliflower hybrids for spring production in a southern mediterranean area M. Sciortino and G. Iapichino (Italy). The effect of different sowing times on development and efficiency of some Chinese cabbage varieties (<i>Brassica campestris</i> sbsp. <i>pekinensis</i>)	Morphogenetic and biosynthetic potential of <i>in vitro</i> grown <i>Hypericum perforatum</i> under stress and normal conditions M. Altaf Wani, G.R. Lawania, R.A. Bhat, Iffiat Fayaz, A. Nanda and Gazenfar Gani (India).	64
 M. Sciortino and G. Iapichino (Italy). The effect of different sowing times on development and efficiency of some Chinese cabbage varieties (<i>Brassica campestris</i> sbsp. <i>pekinensis</i>) 	Growth and interference of invasive Russian knapweed on "Valcatorce INTA" onion Carlos R. Bezic, Armando A. Dall Armellina, Omar A. Gajardo, Lucrecia M. Avilés and Silvia L. Cañón (Argentina).	68
Chinese cabbage varieties (Brassica campestris sbsp. pekinensis)	Cauliflower hybrids for spring production in a southern mediterranean area M. Sciortino and G. Iapichino (Italy).	73
	The effect of different sowing times on development and efficiency of some Chinese cabbage varieties (<i>Brassica campestris</i> sbsp. <i>pekinensis</i>) Funda Eryilmaz Acikgoz (Turkey).	78

Vol. 10, No. 2, July-December, 2008

Mild heat shocks to extend the shelf life of minimally processed lettuce María del R. Moreiraab, Alejandra G. Ponceb, Carlos E. del Vallea, L. Pereyraa and S.I. Rourab (Argentina)	87
Morphological changes in the apex of <i>Prunus persica</i> L. during floral transition and effects of gibberellin on flower bud differentiation L. Andreini and S. Bartolini (Italy)	93
Effect of slow release multi-nutrient fertilizers on the yield and nutrient uptake in turmeric (<i>Curcuma longa</i> L.) R. Jagadeeswaran, V. Murugappan and M. Govindaswamy (India)	100
Effect of cultivar, root container size and temperature on days to flower and number of leaves before flowering in tomato Cyd Celeste Cagas, Miki Nakata, Mae Rose Sumugat and Nobuo Sugiyama (Japan)	106
A simple and rapid extraction method to determine osmolar concentration of soluble carbohydrates from rose petals Ryo Norikoshi, Hideo Imanishi and Kazuo Ichimura (Japan)	109
Effect of root zone cooling on flower development and fruit set of 'Satohnishiki' sweet cherry Kenji Beppu, Makito lino and Ikuo Kataoka (Japan)	113
Effects of different preharvest treatments on yield and chemical quality of tomato M. Melkamu, Tilahun Seyoum and Kebede Woldetsadik (Ethiopia)	116
Effects of 1-methylcyclopropene on the postharvest life of Eksotika papaya Phebe Ding and Ng Swee Bee (Malaysia)	123
Municipal solid waste compost increased yield and decreased nitrate amount of broccoli Gh. Peyvast, P. Ramezani Kharazi, S. Tahernia, Z. Nosratierad and J.A. Olfati (Iran)	129
Hydroponic cultivation of carrots using modified rockwool blocks A.F.M. Saiful Islam, Hiroaki Hirai and Yoshiaki Kitaya (Japan)	132
Screening for genetic divergence in tomato genotypes against tomato leaf curl virus B. Anjaneya Reddy, M.S. Patil, P.R. Dharmatti and T. Rajasekaram (India)	137
Occurrence of <i>Pseudomonas syringae</i> pv. <i>syringae</i> the causal agent of bacterial canker of stone fruits in Guilan province of Iran Mostafa Niknejad Kazempour, Fahimeh Jamie and Seyed Ali Elahinia (Iran)	142
Fungicide soil application efficiency for the control of black scurf (<i>Rhizoctonia solani</i>) on three potato cultivars Jorge D. Mantecón (Argentina)	146
Influence of ethanol on the longevity and delayed senescence of bougainvillea flower A.B.M. Sharif Hossain and Amru Nasrulhaq Boyce (Malaysia)	149
Effect of exogenous putrescine on postharvest life of sweet cherry (<i>Prunus avium</i>) fruit, cultivar "Surati-e Hamedan" Mohammad Reza Zokaee Khosroshahi, Mahmood Esna-Ashari and Mohammad Fattahi (Iran)	154
Relationship of arbuscular mycorrhizal fungi and <i>Azotobacter</i> with plant growth, fruit yield, soil and leaf nutrient status of mango orchards in north-western Himalayan region of India Som Dev Sharma and Pramod Kumar (India)	158
In vitro and ex vitro seed-based propagation methods of Echinops kebericho Mesfin: A threatened medicinal plant Balcha Abera, Legesse Negash and Jochen Kumlehn (Germany)	164

Vol. 10, No. 1, January-June, 2008

Reduced ethylene production in transgenic carnations transformed with ACC oxidase cDNA in sense orientation	
-Takayuki Inokuma, Tomoyuki Kinouchi and Shigeru Satoh (Japan).	3
Effects of high temperature on floral development and flowering in spray chrysanthemum -Kouju Nozaki and Seiichi Fukai (Japan).	8
Factors affecting fruit abortion in a gynoecious cucumber cultivar -A. Tazuke, P. Boonkorkaew, S. Hikosaka and N. Sugiyama (Japan).	15
Genetics of corolla colour in periwinkle: relationship between genes determining violet, orange-red and magenta corolla -R.N. Kulkarni, K. Baskaran and Y. Sreevalli (India).	20
Internal quality characterization and isolation of lycopene specific genes from tomato -E. Hemaprabha and R. Balasaraswathi (India).	24
Flowering time and concentration of secondary metabolites in floral organs of <i>Hypericum perforatum</i> are affected by spectral quality -Tetsuro Nishimura, Naoka Hashimoto, Sayed M. A. Zobayed and Eiji Goto (Japan).	30
Phenolics and parthenolide levels in feverfew (<i>Tanacetum parthenium</i>) are inversely affected by environmental factors -Jorge M. Fonseca, James W. Rushing, Nihal C. Rajapakse, Ronald L. Thomas and Melissa B. Riley (USA).	36
Improved plant regeneration in cowpea through shoot meristem -Muthusamy Manoharan, Sharmin Khan and James O. Garner (USA).	40
Rapid <i>in vitro</i> propagation of grapevine cv. Crimson Seedless-Influence of basal media and plant growth regulators -A. Nookaraju, S.M Barreto and D.C. Agrawal (India).	44
Effect of heavy manuring of phosphorous and its toxicity on growth, photosynthesis and photosynthetic pigments in Zn-efficient genotype of spearmint MSS-5 -A. Misra and P. Singh (India).	50
Evaluation of composted biosolid waste as an amendment to a standard horticultural nursery mix for container grown <i>Callicarpa</i> and <i>Ilex</i> production -Anthony W. Kahtz (USA).	54
Evaluation of seasonal nutrient status in the leaves of different olive varieties grown on calcareous soils	50
-M.M. El-Fouly, S.H.A. Shaaban and A.A. El-Sayed (Egypt). Evaluation of zinnia cultivars for field grown cut flower production -R. Crofton Sloan and Susan S. Harkness (USA).	59 63
Growth and yield of grape as influenced by soil-site parameters in Nasik district of Maharashtra -H.S. Balpande, O. Challa and Jagdish Prasad (India).	67
In vitro propagation schedule of Picrorhiza kurroa: An endangered medicinal plant of Central Himalaya -Ruchi Bist, H. Punetha, A.K. Gaur and L.D. Bist (India).	70
A comparison of three mathematical models of response to applied nitrogen using lettuce -Sadeghi Pour Marvi Mahdi (Iran).	73
Comparison of conventional fertilization and vermicompost use for basil cultivation -Liliana Marbán, Lidia Giuffré, Marta Riat, Romina Romaniuk and Ernesto Giardina (Argentina).	77
Chilling requirement studies on flower buds in some male pistachio genotypes (<i>Pistacia vera</i> L.) -F. Nazoori, A. Talaie and A. Javanshah (Iran).	81
	_

Vol. 9, No. 2, July-December, 2007

Vol. 9, No. 1, January-June, 2007

Ectopic expression of Mn-SOD in <i>Lycopersicon</i> esculentum leads to enhanced tolerance	
to salt and oxidative stress -Yueju Wang, Michael Wisniewski, Richard Meilan, Sandra L. Uratsu, Minggang Cui, Abhaya Dandekar and Leslie Fuchigami (USA)	3
Some changes in postharvest physiology and activities of glutamine synthetase in broccoli head supplied with exogenous sucrose during storage -Dewoowoogen P. Baclayon, Toshiyuki Matsui, Haruo Suzuki and Yusuke Kosugi (Japan)	9
Developmental influence of <i>in vitro</i> light quality and carbon dioxide on photochemical efficiency of PS II of strawberry leaves (<i>Fragaria x ananassa</i>) -John H. Miranda and Richard Williams (Australia)	13
Characterization of environmental stress-regulated anthocyanin production and growth of cranberry callus -Yu Zhou and Bal Ram Singh (USA)	17
Effect of forcing at different times on bud burst, flowering and fruit development of low-chill peach cultivar 'Premier' -Sutasinee Maneethon, Kenji Beppu, Naoko Kozai, Ryosuke Mochioka and Ikuo Kataoka (Japan)	22
2,4-D and NAA supplementation mitigates autotoxicity of strawberry in hydroponics -H. Kitazawa, T. Asao, T. Ban, Y. Hashimoto, T. Hosoki (Japan)	26
Tolerance of lilyturf (<i>Liriope muscari</i>) and four perennial ornamental grasses to preemergent herbicides	0.4
-James T. Cole and Janet C. Cole (USA) Effect of cultivars on storage losses in onion under hot conditions (Iran) -Naser Alemzadeh Ansari	31 37
N-NO ₃ from cellular extract as an indicator of nutritional status of cantaloupe muskmelon in fertigation	
-Maria Remedios Cigales Rivero and Octavio Perez Zamora (Mexico) Thinning response of 'Abbé Fetel' pear to lime sulphur -P.I. Garriz, H.L. Alvarez, G.M. Colavita and M.S. Gajdos (Argentina)	41 46
Growth, fruit yield and quality of 'Golden Delicious' apple trees under fixed partial rootzone drying	40
-G. Talluto, V. Farina and R. Lo Bianco (Italy)	50
Soil, plant and canopy resistance to water flow in bell pepper (<i>Capsicum annuum</i> L.) as affected by fertigation regimes -S.O. Agele (Nigeria)	56
Chlorine disinfection: effects on hydroponics lettuce -Zdenka Premuzic, Hemilse E. Palmucci, Juan Tamborenea and Martin Nakama (Argentina)	62
Tulip cultivar response to Flurprimidol preplant bulb soaks -Brian A. Krug, Brian E. Whipker, Ingram McCall and John M. Dole (USA)	66
Effect of Ni on yield, quality and N assimilation of cucumber (<i>Cucumis sativus</i> L.) grown with urea or nitrate S.J. Tabatabaei (Iran)	69
Effect of different fertilizer sources on the qulaity of head cabbage -Emilia Atanasova, Ivanka Mitova, Ilko Dimitrov and Ira Stancheva (Bulgaria)	74
Effect of sucrose concentration on somatic embryogenesis in carnation (<i>Dianthus caryophyllus</i> L.) -A. Deljou, O. Karami and P. Ostad Ahmadi (Iran)	77
Response of tomato to transplant drench, foliar organic-complex Ca, B, K and yield enhancement amendments -Paul B. Francis and C. Robert Stark, Jr. (USA)	81
Variation in growth, dry matter production, nitrogen and potassium uptake by six <i>Musa</i> genotypes in a soilless culture -K.P. Baiyeri and E. Ortese (Nigeria)	84

Vol. 8, No. 2, July-December, 2006

Transgenic tomato (<i>Lycopersicon esculentum</i>) overexpressing cAPX exhibits enhanced tolerance to UV-B and heat stress	
-Yueju Wang, Michael Wisniewski, Richard Meilan, Minggang Cui and Leslie Fuchigami (USA)	87
The effect of anti-hail nets on fruit protection, radiation, temperature, quality and prof tability of "Mondial Gala" apples -Ignasi Iglesias and Simp Alegre (Spain)	91
Induction of phenolic compounds biosynthesis with light irradiation in the I esh of red and	
yellow apples -D. Bakhshi and O. Arakawa (Japan)	101
a* values to follow lycopene concentration during ripening and storage of tomato (cv. Caruso) -Axelle Schauwers, Ada M.C.N. Rocha and Alcina M.M.B. Morais (Portugal)	105
Effects of abusive temperatures on the postharvest quality of lettuce leaves: ascorbic acid loss and microbial growth -María del R. Moreira, Alejandra G. Ponce, Carlos E. del Valle, R. Ansorena and S.I. Roura (Argentina)	109
Shelf-life and quality of apple fruits in response to postharvest application of UV-C radiation -Syavash Hemmaty, Noorollah Moallemi and Lotfali Naseri (Iran)	114
Effects of sugars and aminooxyacetic acid on the longevity of pollinated <i>Dendrobium</i>	
(Heang Beauty) Fowers -S. Chandran, C.L. Toh, R. Zuliana, Y.K. Yip, H. Nair and A.N. Boyce (Malaysia)	117
Agronomic attributes of saffron yield at agroecosystems scale in Iran -A. Koocheki, M.A. Behdani and M. Nassiri (Iran)	121
Effect of bud scale removal and AOA on bud break and ACC content of 'Muscat Bailey A' grapevines -Ali R. El-Shereif, Fusao Mizutani, Justus M. Onguso and A.B.M. Sharif Hossain (Japan)	125
Effect of exogenous application of anti-stress substances and elemental sulphur on growth and stress tolerance of tissue culture derived plantlets of date palm (<i>Phoenix dactylifera</i> L.) cv. 'Khalas' during acclimatization -Mohamed. A. Awad, A. A. Soaud and S. M. El-Konaissi (UAE)	129
Impact of <i>Anthurium</i> spp. genotype on callus induction derived from leaf explants, and shoot and root regeneration capacity from callus -Duong Tan Nhut, Nguyen Duy, Nguyen Nhu Ha Vy, Chau Diem Khue, Dinh Van Khiem and Do Nang Vinh (Vietnam)	135
A one step <i>in vitro</i> cloning procedure for Red Globe grape: The inf uence of basal media and plant growth regulators -M.S. Barreto, A. Nookaraju, N.V.M. Harini and D.C. Agrawal (India)	138
Anthocyanin accumulation in the hypocotyl and petal of Red Agati (Sesbania grandillora),	
an ornamental legume -Kitti Bodhipadma, Sompoch Noichinda, Sasikan Udomrati, Goravis Nathalang, Boonyuen Kijwijan and David W.M. Leung (Thailand)	143
Effect of different stalk lengths and certain chemical substances on vase life of gerbera (Gerbera jamesonii Hook.) cv. 'Savana Red' -M.A. Meman and K.M. Dabhi (India)	147
Micropropagation of <i>Parthenocissus quinquefolia</i> (L.) from seedling explants -Yun Li, Daling Feng, Zhenyuan Sun and Chen Niu (China)	151
Effects of organic manure on okra (<i>Abelmoschus esculentus</i> (L.) Moench) production -J. Ofosu-Anim, E.T. Blay, and M.E. Frempong (Ghana)	155
Economic rationale of commercial organic fertilizer technology in vegetable production in Osun State of Nigeria	450
-T. Alimi, O.C. Ajewole, O.O. Olubode-Awosola and E.O. Idowu (Nigeria) Technical and economic aspects of utilizing Fbrous wool composts in horticulture	159
-K.C. Das, P.A. Annis, E. W.Tollner and S. Dudka (USA)	165
Effect of pollen source on productivity, maturity and fruit quality of 'Hayyani' date palm - I Muhtaseh and H. Ghnaim (Jordan)	17∩

Vol. 8, No. 1, January-June, 2006

Effect of grafting on growth and yield of tomato (<i>Lycopersicon esculentum Mill.</i>) in greenhouse and open-leld -E.M. Khah, E. Kakava, A. Mavromatis, D. Chachalis and C. Goulas (Greece)	3
Use of a chlorophyll meter and plant visual aspects for nitrogen managent in tomato fertigation -Paulo Cezar Rezende Fontes and Charles de Araujo (Brazil)	8
Biodegradable paper/polymerized vegetable oil mulches for tomato and pepper production - Randal. L. Shogren and Monica David (USA)	12
Compact 3U as a novel lighting source for the propagation of some horticultural plants - D.T. Nhut, M.T. Ngoc Huong, D.V. Khiem and J.A. Teixeira da Silva (Vietnam)	15
Effect of slow release fertiliser on the growth of containerised Fannel Fower (Actinotus helianthi Labill.) - Lotte von Richter and Catherine A. Offord (Australia)	21
Growth and †lowering response of snapdragons after release from apical dominance - Muhammad Munir and Farhat Naz (United Kingdom & Pakistan)	25
Postharvest control of soft-rot fungi on grape berries by fungicidal treatment and <i>Trichoderma</i> -Y. A. Batta (Isreal)	29
Nitrogen metabolism of <i>Aloe vera</i> under long-term diluted seawater irrigation - Liu Zhao-Pu, Zhao Geng-Mao, Liu Ling, Zheng Qing-Song (China)	33
Relationship between soil and leaf mineral nutrient concentration and yield of selected citrus species - L. Andrews and R.A.I. Brathwaite (West Indies)	37
Studies with thidiazuron on the vase life of cut rose Fowers -Esmaeil Chamani, Donald E. Irving, Daryl C. Joyce, Mosa Arshad (Australia)	42
Growth behaviour of apple cactus (<i>Cereus</i> species) in a hyper-arid environment - Ahmed A. ElObeidy (Egypt)	45
Assessment of genetic diversity and relationships among some grape varieties using ISSR markers -Manjusha Dhane, S.A.Tamhankar, S.G. Patil, G.S. Karibasappa and V.S. Rao (India)	50
Impact of polyethylene glycol-induced water stress on growth and development of shoot tip cultures from different banana (<i>Musa</i> spp.) cultivars -K.H. Mohsen, Ebrahim, Ibrahim A. Ibrahim, Hamdy A. Emara and Ewald Komor (Egypt and Germany)	53
Effect of gibberellin treatment on parthenocarpic ability and promotion of fruit swelling in papaya - Fredah. K. Rimberia, S. Adaniya, M. Kawajiri, N. Urasaki, S. Kawano, T. Etoh and Y. Ishimine (Japan)	58
Effect of mineral concentration on <i>in vitro</i> explant growth of almond (<i>Prunus amygdalus</i> var. Binazir) -Mohammad E. Amiri (Iran)	62
Chemical effect of reclaimed water on soil and rose plant grown in soil and tuff media -M.ISa¬, A. Fardous. M. Muddaber. S. El-Zuraiqi L. Al-Hadidi. I. Bashabsheh (Jordan)	65
Partial ringing and liquid nitrogen effects on shoot growth and fruit quality of peach -J. M. Onguso, F. Mizutani, A.B.M. Sharif Hossain and A. R. El-Shereif (Japan)	70
Performance of three sweet orange varieties grafted on four rootstocks under Jordan Valley conditions -J. Muhtaseb, H. Ghnaim and A. Sheikh (Jordan)	75
Comparison of bananas ripened by two methods for textural sale-grades -Sunita Singh and S.D. Kulkarni (India)	78
Constraints in production and marketing of pistachio in Iran and the policies concerned -Reza Sedaghat and S. Suryaprakash (Iran and India)	82

Vol. 7, No. 2, July-December, 2005

Growth and leaf physiology of sun- and shade-grown Sargent viburnum (Viburnum sargentii K.) "Onondaga" potted plants –F. Ferrini, S. Mancuso and F.P. Nicese (Italy)	63
Microponic and hydroponic techniques in disease-free chrysanthemum (<i>Chrysanthemum</i> sp.) production – Duong Tan Nhut, Nguyen Trinh Don, Truong Thi Thuy An, Tran Pham Thanh Van, Nguyen Hong Vu, Phan Xuan Huyen and Dinh Van Khiem.(Vietnam)	67
Response of vegetative and reproductive parameters of water stressed tuberose (<i>Polianthes tuberosa</i> L.) plants to Vapor Gard and Kaolin antitranspirants –A.I. AL-Humaid and A.E. Moftah (Saudi Arabia)	72
Resolving the identity of <i>Adhatoda beddomei</i> C.B. Clarke using morphological and molecular (RAPD) techniques	
-Sunitha Bhaskaran, S. Ganeshan, M. Krishnappa and A. Lalitha (India)	79
Lateral shading of stockplants enhances rooting performance of guava (<i>Psidium guajava</i> L.) cutting –M.A. Hossain and M. Kamaluddin (Bangladesh)	83
Effect of different nutrient levels on anthocyanin and nitrate-N contents in turnip grown in hydroponics –T. Asao, H. Kitazawa, K. Washizu T. Ban and M. H. R. Pramanik (Japan)	87
Effect of <i>Eucalyptus cladocalyx</i> mulch on establishment of California sycamore –A. James Downer, and Ben Faber (USA)	90
Effect of ripening media and season on postharvest quality of three tomato varieties –O.C. Adebooye, G.O. Adeoye and H. Tijani-Eniola (Nigeria)	95
Gynostemma pentaphyllum and its cultivation in Sydney, Australia and comparison with	
products from China −Valentina Razmovski-Naumovski, George Qian Li and Colin C. Duke (Australia)	99
Preharvest bagging of litchi fruits influence their storage potential -Yueming Jiang, Xinguo Su, Yuelin Jiang, Yuebiao Li and Wenbin Lin (China)	105
Combining ability estimates in virus resistant and susceptible lines of chilli (Capsicum annuum L.) –C. Venkata Ramana, K. Madhavi Reddy, A. T. Sadashiva and M. Krishna Reddy (India)	108
Morphological, biochemical and elemental analysis of <i>Elaeagnus umbellata</i> , a multipurpose wild shrub from Pakistan –S.M. Sabir and K. Riaz (India)	113
Effect of partial ringing on the shoot growth, fruit yield and quality of peach	113
-A.B.M. Sharif Hossain, Fusao Mizutani, Justus M. Onguso, Ali R. El-Shereif and Hisashi Yamada (Japan) Manifestation of heterosis for certain economic characters in round-fruited brinjal	117
(Solanum melongena L.) under Tarai conditions of Uttaranchal, India —Biswajit Panda, Y.V. Singh and Hari Har Ram (India)	121
Effect of water diluted extracts of plants and cakes on weight, toughness and whiteness	
of harvested button mushroom –S.K. Mishra and R.P Singh (India)	124
Pistillate flower abscission in Persian walnut (<i>Juglans regia</i> L.) under mild winter climates of Himachal Pradesh	
-Amit Kumar, K. Kumar and S.D. Sharma (India)	127
Genetic variability, heritability and genetic advance for some quality traits in carrot (<i>Daucus carota</i> L.) –Paramjeet Kaur, D.S. Cheema and Neena Chawla (India)	130
Influence of arbuscular mycorrhizae on the performance of chilli (Bell) pepper (<i>Capsicum annuum</i> L.) –O.J. Oyetunji and O. Osonubi (Nigeria)	133
Effect of drip water application at sub-surface on grapevine performance—A case study –Jagdev Sharma and A.K. Upadhyay and P.G. Adsule (India)	137
Effect of growth retardants on vegetative growth, yield and fruit quality of high density peach trees –Ratan Kumar, R.M. Rai, R.B. Singh and N. Pant (India)	139
Testing potting mixes with additions of dried blood, blood and bone and bentonite –H. Kahl and A. Krug (New Zealand)	142



Vol. 7, No. 1, January-June, 2005

Ethylene and anti-ethylene treatment effects on cut 'First Red' rose - Esmaeil Chamani, Ahmad Khalighi, Daryl C. Joyce, Donald E.Irving, Zabih Allah Zamani, Younes Mostof, and Mohsen Kafi (Australia)	3
A method for determining the vase life of cut spray carnation flowers - Shigeru Satoh, Hideki Nukui and Takayuki Inokuma (Japan)	8
Effect of summer and winter pruning of peach as slender spindle bush type on growth, yield and quality of fruit over four year period -A.B.M. Sharif Hossain, Fusao Mizutani, Justus M. Onguso and Hisashi Yamada (Japan)	11
Effectiveness of selected fungicides applied with or without surfactant in controlling anthracnose on three cultivars of <i>Euonymus fortunei</i> – James T. Cole, Janet C. Cole, and Kenneth E. Conway (USA)	16
Effect of water stress on plant growth and Thymol and Carvacrol concentrations in Mexican oregano grown under controlled conditions -Nurhan Turgut Dunford (USA)	20
Chrysophyllum lanceolatum – A new rootstock for sapota (Achras zapota L.) –K.S. Kalesh, S.M. Shareef, Sam P. Mathew and Maya S. Chemburkar (India)	23
Trichoderma harzianum application increases cucumber (Cucumis sativus L.) yield in unheated glasshouse – Sureyya Altintas and Ugur Bal (Turkey)	25
Carbon isotope discrimination and water use efficiency of grape varieties, rootstocks and budded grapevines – J. Satisha and G.S. Prakash (India)	29
Influence of paclobutrazol on early flowering and aesthetic value of China aster (<i>Callistephus chinensis</i> L. Nees) – Dilip Kumar Mishra, H.R. Mishra and L.P. Yadava (India)	34
Prospects for the bio-management of <i>Trichoderma viride</i> — An organism harmful to button mushroom –S.K. Mishra and R.P. Singh (India)	38
Impact of explants and gamma irradiation dosage on <i>in vitro</i> mutagenesis in carnation (<i>Dianthus caryophyllus</i> L.) - Tejaswini, H. Paramesh and Sona Chowdhury (India)	43
Comparative study of water core in Red Delicious and Golden Delicious apples of Himachal Pradesh	
 –M.L. Singla, S.C. Jain, Shweta Sharma and S.K. Angra (India) Design and development of tray type vacuum seeder and tray type dibbler for vegetable nursery 	46
-A Carolin Rathinakumari, G. Senthil Kumaran and S.C. Mandhar (India)	49
Selection possibilities for seed content—A determinant of fresh fruit quality in guava (<i>Psidium guajava</i> L.) –S. Rajan, L.P. Yadava, Ram Kumar and S.K. Saxena (India)	52
Studies on genetic variability and heritability for quality traits of tomato (<i>Lycopersicon esculentum</i> Mill.) under heat stress conditions - Hardevinder Singh and D.S. Cheema (India)	55
Exploring suitable plant density for hydroponically grown cucumber (<i>Cucumis sativus</i> L.) in greenhouse conditions	
-T. Pant, R.P. Bhatt, A.S. Bhoj and N. Kumar (India)	58



Vol. 6, No. 2, July-December, 2004

CONTENTS

Generation and ethylene production of transgenic carnations harboring ACC synthase cDNA in sense or antisense orientation –Y. Iwazaki, Y. Kosuig, K. Waki, T. Yoshioka and S. Satoh (Japan)	67
Soil moisture regime effect on the performance of watermelon (<i>Citrullus lanatus</i> L. (Thunb.)) under varying nitrogen levels in a semi- arid region – M.A. Hussaini, A.A. Ramalan and M. K. Othman (Nigeria)	72
Quantitative analysis of relative growth rate based on leaf growth characteristics and evapotranspiration of eggplant and tomato under periodic water deficit at reproductive stage –Bikash C. Sarker and Michihiro Hara (Japan)	76
Effect of Zn enriched organic manures and zinc solubilizer application on the yield, curcumin content and nutrient status of soil under turmeric cultivation –P.S. Senthil Kumar, S. Aruna Geetha, P. Savithri, R. Jagadeeswaran and K.P. Ragunath (India)	82
Water requirements and use of Buttonwood (<i>Conocarpus erectus</i>) seedlings grown under arid conditions –A.E. Moftah and A.I. AL-Humaid (Saudi Arabia)	87
Rootstock effects on yield and mineral composition of rose cut flowers –M.I. Safi and J.S. Sawwan (Jordan)	94
Direct multiple shoot induction from aerial stem of ginger (<i>Zingiber officinale</i> Rosc.) –A.K. Lincy, A.B. Remashree and B. Sasikumar (India)	99
Mulching effect on selected ornamental plants -N.R. Bhat, M.K. Suleiman, R.R. Bellen, L. AL-Mulla (Kuwait)	102
Micropropagation of rambutan (<i>Nephelium lappaceum</i> L.) – Utpala Parthasarathy, R. Sandeep Varma, G. Ganga, K. Johnson George, P.A. Mathew and V.A. Parthasarathy (India)	106
Comparative study of the biochemical properties of the fruits of wild (<i>Lycopersicon pimpinellifolium</i> Jusl. (Mill.)) and the cultivated (<i>L. esculentum</i> Mill.) tomato cultivars in Nigeria	
-O. Adedeji and I.O. Adewale (Nigeria)	109
Relationship of yield and citrus virus infection in Trinidad L. Andrews, R. Phelps and R.A.I. Brathwaite (Trinidad)	112
Water-logging resistibility of tubers of different potato cultivars –C.K. Sharma and Lalit Kumar Upadhayay (India)	116
Economic analysis of vegetable family farms –Yaar Akcay and Selma Karabas (Turkey)	118
Effect of integrated management practices on yield and time of harvest in tomato (<i>Lycopersicon esculentum Mill.</i>)	
-Ajay Kumar, Surjan Singh and D.S. Cheema (India)	125

Electronic submission of manuscript

Please submit research paper in IBM format to: jah@hortresearch.net. The size of the attached files should be less than 1 MB. Large files (> 1 MB) may be submitted on CD or diskette. Inquiries about other acceptable file formats should be directed to the same e-mail address.



Vol. 6, No. 1, January-June, 2004

CONTENTS

GIS-based land suitability assessment for Musa (ABB group) Plantation –Jaruntorn Boonyanuphap, Det Wattanachaiyingcharoen and Katsutoshi Sakurai (Japan)	3
Expression of green fluorescent protein gene in litchi (<i>Litchi chinensis</i> Sonn.) tissues –D. Puchooa (Mauritius)	11
Effects of Kaolin and Pinolene film-forming polymers on water relations and photosynthetic rate of tuberose (<i>Polianthes tuberosa</i> L.) plants under water deficit conditions –A.E. Moftah and A.I. AL-Humaid (Saudi Arabia)	16
Derivation and evaluation of new nutrient norms for twelve nutrients (N, P, K, Ca, Mg, Na, S, B, Zn, Cu, Fe and Mn) in the petioles of Muscat grapes (<i>Vitis vinefera. var.</i> L.) using the CVA, DRIS, MDRIS and CND approaches -P.S. Senthil Kumar, S. Aruna Geetha and P. Savithri (India)	23
Effect of cytokinin and auxin on micropropagation of <i>Geoderum purpureum</i> R. Br. –A. Mohapatra and G.R.Rout (India)	27
A study on factors affecting propagation of shade plant <i>Syngonium podophyllum</i> –A.M. Hassanein (Egypt)	30
Effects of lateral shading on growth and morphology of shoots and rooting ability of Jackfruit (<i>Artocarpus heterophyllus Lam.</i>) cuttings –M. A. Hossain and M. Kamaluddin (Bangaladesh)	35
Improvement of postharvest quality of tomato fruits by ethanol vapour treatment –Amod K. Thakur and M. Pandey (India)	39
Selection response in vegetable amaranth (<i>A. tricolor</i>) for different foliage cuttings –Atul Bhargava, Sudhir Shukla, Avijeet Chatterjee and S.P. Singh (India)	43
Genetical studies on yield and its components in tomato -Viveka Katoch and Vidyasagar (India)	45
Effect of controlled atmosphere storage on quality parameters and storage period of apple culti "Granny Smith" and "Jonagold" —Bulent Akbudak, Hakan Ozer and Umran Erturk (Turkey)	ivars 48
Enzymatic and phenolic changes in 'Pusa Seedless' grape buds during onset and release of dormancy	
 P. K. Pramanick, V.P. Sharma, P.S. Deshmukh and S.K. Singh (India) Environmental impact of phosphorus overfertilization in tomato greenhouse production Lidia Giuffré, Margarita Alconada, Carla Pascale and Silvia Ratto (Argentina) 	55 58
Techniques to rear eggplant shoot and fruit borer, <i>Leucinodes orbonalis</i> (Guenee) in the laborate for host plant resistance studies –Harish Kumar (India)	
Transitivina (iiua)	υZ

Electronic submission of manuscript

Please submit research paper in IBM format to: jah@hortresearch.net. The size of the attached files should be less than 1 MB. Large files (> 1 MB) may be submitted on CD or diskette. Inquiries about other acceptable file formats should be directed to the same e-mail address.

Vol. 5, No. 2, July-December, 2003

Micropropagation of Spilanthes acmella L., a bio-insecticide plant, through proliferation of multiple shoots -Ang Boon Haw and Chan Lai Keng	65
The impact of panicle and shoot pruning on inflorescence and yield related developments in some mango cultivars -T. Yeshitela, P.J. Robbertse, P.J.C. Stassen	69
Evaluation of DRIS and CND indexes for effective nutrient management in Muscat grapevines (Vitis vinefera) –P.S. Senthil Kumar, S. Aruna Geetha, P. Savithri, P.P. Mahendran, and K.P. Ragunath	76
In vitro establishment of tolerance clones of banana against race-1 Fusarium oxysporum f. sp. cubense —T. Saravanan, M.Muthusamy and T. Marimuthu	81
Relative selection efficiency for foliage yield and quality characters in vegetable <i>Chenopodium</i> over different cuttings -Atul Bhargava, Sudhir Shukla and Deepak Ohri	n 85
Seed yield potential of some amaranthus cultivars at different plant spacing in <i>kharif</i> season – M.S. Islam, M.S.A. Talukder, M.M. Hossain and R. Kundu	87
Relative uptake of the fungicide carbendazim by selected fruits and vegetables and keeping quality of apple and tomato after dip treatment -Himanish Das, S. Jayaraman and Mahadeva Naika	91
Performance of ornamental plants under deficit irrigation –M.K. Suleiman, N.R. Bhat and R.R. Bellen	96
Evaluation of bold aonla genotypes in Konkan unique two harvest in a year –P.J Kshirsagar, M.S Gavankar, V.G Chavan, K.H., Pujari, S.B. Deshpande, B.V. Shingre and B.P. Patil	100
Estimates of genetic variability, heritability and genetic advance in strawberry –S.K. Verma, R.K. Singh and R.R. Arya	102
Inbreeding depression in cowpea (Vigna unguiculata (L.) Walp.) - Akhilesh Kumar Pal, B. Singh and A.N. Maurya	105
BSR-1: A high yielding, self fruitful aonla variety from Tamil Nadu –N. Chezhiyan and K.A. Shanmugasundaram	108
Physico-chemical characterstics of some promising peach cultivars grown under humid temperate mid hills of Uttaranchal —Narendra Kumar, D.C. Dimri and J.K. Nigam	110
Effect of NAA, GA and CCC on growth and flowering of French marigold (Tagetes patula) –A.N Tripathi, S.N Tripathi, R.K Shukla and G. Pandey	112
The economic and technical analysis of peach growing: A case study for Turkey —Sait Engindeniz, Figen Cukur and Dilek Yücel	114

Vol. 5, No. 1, January-June, 2003

Interactive effect of irrigation and fertilization on the quality of apples — Hanisko Lubomír	3
Diagnosis of nutrient imbalances and derivation of new RPZI (Reference Population Zero Index) values using DRIS / MDRIS and CND approaches in the leaves of turmeric crop (Curcuma longa) -P.S. Senthil Kumar, S. Aruna Geetha, P. Savithri, R. Jagadeeswaran and P.P. Mahendran	7
Performance of composted vine shoots as a peat alternative in casing materials for mushroom	,
cultivation —Arturo Pardo, José Arturo de Juan and José Emilio Pardo	11
Influence of pulsing and dry cool storage on cut spikes of tuberose cv. 'Double' -Vinod Kumar, S.K. Bhattacharjee, Suchitra and Krishan P. Singh	16
Comparison of CVA, DRIS, MDRIS and CND norms in rhizomes of turmeric crop in Coimbatore District of Tamil Nadu —P.S. Senthil Kumar, S. aruna Geetha, and P. Savithri	21
Association of vesicular-arbuscular mycorrhizae with ginger rhizosphere in northern India – Himachal Pradesh –Sanjeev Sharma and N. P. Dohroo	25
Genetical studies in mango (Mangifera indica L.) –M.R. Dinesh	27
Hybrid vigour in cabbage (<i>Brassica oleracea</i> var. <i>capitata</i>) under middle hill conditions of centra Himalaya	al
–Vandna Pandey, Z. Ahmed and Narendra Kumar	29
Effect of fruit harvesting stages and processing treatments on the quality of sun dried fruits of lehsua (<i>Cordia myxa</i> Roxb.) –M. S. Fageria, Preeti Khandelwal and R.S. Dhaka	32
Effect of water stress on growth and yield of Tenera oil palm –M. S. Gawankar, J.P. Devmore B. M. Jamadagni, V. V. Sagvekar and H. Hameed Khan	39
Correlation and path coefficient analysis of yield attributes in ber (Zizyphus spp.) –S. Pareek and R.S. Dhaka	41
Ber germplasm screening and management of black leaf spot disease under Eastern U.P. conditions	
– Pradeep Kumar, H.K. Singh and R.P. Saxena	43
Selection parameters for genetic improvement in <i>Chenopodium</i> grain in sodic soil -Atul Bhargava, Sudhir Shukla, R.S. Katiyar and Deepak Ohri	45
Decision process under greenhouse -Sanjay K. Singh, Pitam Chandra and Krishan P. Singh	49
Citrus canker – A review –A. K. Das	52

Vol. 4, No. 2, July-December, 2002

CONTENTS

Studies on the relationships among moisture tension and microclimate on transpiration rate of container grown <i>Acer rubrum</i>	
–Halil Kirnak, Ted H. Short and R.C. Hansen	65
Yield and nitrogen recovery of lettuce under different irrigation regimes —F. Karam, O. Mounzer, F. Sarkis and R. Lahoud	70
Induction of caulogenesis and somatic embryogenesis in <i>Cucumis melo</i> (var. <i>Flexuosus</i>). —Mohsen Hanana, Moncef Harrabi and Mohamed Boussaïd	77
Effect of preharvest application of calcium nitrate, Topsin-M and Bayleton on post harvest life of aonla (<i>Emblica officinalis</i> Gaertn.) fruit –V.K. Yadav and H.K. Singh	83
Effect of days gap between flowering and corm lifting on the performance of forthcoming gladiolus summer season crop —Krishan P. Singh and Ramchandran	87
Performance of bittergourd raised through transplanting of polyhouse grown seedlings and direct seeding done on different dates —N.C. Joshi and B.K. Srivastava	90
Effective strategy for crop regulation in guava (<i>Psidium guajava</i> L.) through foliar urea sprays and changes in different N-forms in leaves —Gorakh Singh, A.K. Singh, Shailendra Rajan and S.R. Bhriguvanshi	93
Effect of pulsing and wet cool storage on postharvest life and quality of rose cultivars -Vinod Kumar, S.K. Bhattacharjee and Suchitra	99
Performance of Ber (<i>Zizyphusm mauritiana</i> Lamk.) cultivars under <i>Tarai</i> conditions of Uttar Pradesh – <i>Omveer Singh and K. K. Misra</i>	103
<i>In vitro</i> micropropagation of <i>Ananas comosus</i> L. (Merr.) var. Queen –Asit B. Mandal, Aparna Maiti and R. Elanchezhian	107
Effect of stionic combinations on growth and flowering of rose —Santosh Kumar and Ranjan Srivastava	113
Effect of hand thinning stage on size, colour and yield of Flordaprince peaches (<i>Prunus persica</i> Batsch) – <i>N.K. Arora, Y.R. Channana, Raghbir Singh and G.S. Kaundal</i>	116
Genetic variability in quality and yield parameters of early ripening grape genotypes —Ram Kumar, Shailendra Rajan, S.S. Negi and L.P. Yadava	118

Electronic Submission

Electronic Submission: Please submit research paper in IBM format to: jah@hortresearch.net. The size of the attached files should be less than 1 MB. Please submit large files on CD or diskette. Inquiries about other acceptable file formats should be directed to the same address.

Vol. 4, No. 1, January-June, 2002

CONTENTS

A tool to predict fruit's days after anthesis based on fruit skin and pulp colour of Pitaya (<i>Stenocereus thurberi</i>) (Engelm.) Buxb.	
Tiznado-Hernández, Martin Ernesto; Ojeda-Contreras, Angel Javier; Sánchez-Estrada, Alberto; oreno Velázquez, Delia y Mercado-Ruiz, Jorge Nemesio	3
Determination of cost and profitability of dried fig production: a case study for Turkey —Murat Yercan and Sait Engindeniz	7
Identification of genotypes using leaf Isozymes: A study to assess biochemical gene markers in walnut — Dhiraj Vyas, Arun Dev Sharma, S.K. Sharma and D.R. Sharma	10
Inflorescence and nut characters of some coconut cultivars and hybrids grown in West Bengal –S. Manna, B. Mathew, M. A. Hasan and P. K. Chattopadhyay	14
Manipulation of citrus trees for new higher density orchards —F.J. Joubert, M.H. du Plessis, E.D. Steenkamp and P.J.C. Stassen	17
Effect of ultra-violet radiation, cytokinin and vapor gard on postharvest shelf life of kagzi lime (Citrus aurantifolia	
Swingle) —B.L. Nagar, L.K. Dashora and L.P. Yadava	21
Effect of light intensity and vermicompost on yield of ginger (<i>Zingiber officinale</i> Rosc) – <i>N.V. Vastrad, G.S. Sulikeri and R.V. Hegde</i>	25
Studies on fruit-bud differentiation in mango (<i>Mangifera indica</i> L.) under South Indian conditions – <i>M. Humayun and R. Srihari Babu</i>	27
Effect of reduced humidity and antitranspirants in acclimatizing micropropagated <i>Citrus</i> plantlets – <i>B.N. Hazarika and V.A. Parthasarathy</i>	30
Correlation and path analysis for oleoresin in chilli (<i>Capsicum</i> spp.) – <i>C. Mini and Abdul M. Vahab</i>	33
Performance of papaya (<i>Carica papaya</i> L.) cultivars under Nagaland foot hill conditions – <i>Naresh Babu and Anamika Sharma</i>	35
Effect of pruning severity and growth retardants on vegetative growth, flower yield and oil content of damask rose (<i>Rosa damascena</i> Mill.) —R. Porwal, C.L. Nagda and J.P.S. Pundir	37
Evaluation of chilli (<i>Capsicum</i> spp.) germplasm for fruit yield and component characters — <i>Dipendra Gogoi and B.P. Gautam</i>	41
Comparative performance of budding methods in pecan nut propagation —J S Chandel and S.A. Ananda	45
Developmental pattern and maturity standards for litchi (<i>Litchi chinensis</i> Sonn.) cv. Calcuttia –B.V.C. Mahajan and B.S. Dhillon	47
Performance of nine ber cultivars (<i>Zizyphus mauritiana</i> Lamk) on top working in semi-arid region of West Benga –S.N. Ghosh and B. Mathew	al 49
Effect of antimicrobial compounds on post-harvest life of rose —Ajai Kumar Tiwari and Ranvir Singh	52
Effect of method and height of grafting on the growth of grafted plants and the production of feathers in spur types of small in growth of grafting on the growth of grafted plants and the production of feathers in spur types.	oes
cultivars of apple in nursery —Rajesh Kumar and S.A. Ananda	54
Performance of gerbera (<i>Gerbera jamesonii</i>) cultivars under fan and pad cooled greenhouse environment – <i>Krishan P. Singh and S.C. Mandhar</i>	56
Evaluation of early ripening grape genotypes under subtropical conditions of North India —Ram Kumar, Shailendra Rajan, and S.S. Negi	60
Clastrania Cubmission	

Electronic Submission

Electronic Submission: Please submit research paper in IBM format to: <u>jah@hortresearch.net</u>. The size of the attached files should be less than 1 MB. Please submit large files on CD or diskette. Inquiries about other acceptable file formats should be directed to the same address.

Vol. 3, No. 2, July-December, 2001

gooseberry (<i>Physalis peruviana</i> L.) - L.P. Yadava	122
Effect of paclobutrazol and ethephon on growth and productivity of cape	
Evaluation of spent biogas silage as casing soil in mushroom cultivation -Virendra Pratap Gupta and Vishnu Kumar	119
Screening of tomato germplasm for some physiological disorders -T. Rama Srinivas	117
Influence of rate and method of phosphorus placement to Garlic (<i>Allium sativum</i> L.) in a Mediterranean environment –M.A. Turk and A.M. Tawaha	115
cuttings –D.K. Kishore, K.K. Pramanick and Y.P. Sharma	113
Standardization of Kiwifruit (<i>Actinidia chinensis</i> var delicosa) propagation through hardwood	
Effect of harvesting date, storage environment and postharvest treatment on shelf life of litchi (<i>Litchi chinensis</i> Sonn.) fruits –J.K. Nigam and Ganesh Kumar	111
Determination of fruit maturity indices in apricot (<i>Prunus armeniaca</i> L.) cv. New Castle –M.P. Singh, D.C. Dimri and M.C. Nautiyal	108
Effect of Dormex, CPPU and GA ₃ on berry growth and ripening of Pusa Seedless cultivar of grape —Bikash Das, S.N. Pandey, P.C. Jindal and A.K. Sureja	105
Effect of nodal position and season on <i>in vitro</i> shoot proliferation in aonla (<i>Emblica officinalis</i> Gaertn.) -Maneesh Mishra and R.K. Pathak	103
Influence of pruning date on the fruit quality of guava (<i>Psidium guajava</i> L.) fruits –A.K. Singh and Gorakh Singh	100
Effect of plant density on growth, flowering and yield of Statice (<i>Limonium sinuatum</i>) –G.M. Deshpande, P.C. Sonawane and Manjul Dutt	98
Variation in canopy characteristics of mango (Mangifera indica L.) cultivars from diverse eco-geographical regions -Shailendra Rajan, Ram Kumar and S.S. Negi	95
Changes in the activity of nitrogen utilizing enzymes during development of malformed and normal panicles of mango (<i>Mangifera indica</i> L.) –V. K. Singh, J. P. Saini, A. K. Misra	91
Effect of paclobutrazol on source-sink relationship in mango (Mangifera indica L.) -Reju M. Kurian, Y.T.N. Reddy, R.K. Sonkar and V.V. Pratap Reddy	88
Response of mentha cultivars to low iron nutrition —Preety Singh, A. Misra, N.K. Srivastava and S. Sharma	85
Micropropagation studies in 'single' vs 'double' types of tuberose (<i>Polianthes tuberosa</i> L.) –K.B. Krishnamurthy', J.B. Mythili and Meenakshi Srinivas	82
Leaf and soil nutrient status of mango (<i>Mangifera indica</i> L.) grown in peninsular India and their relationship with yield –Y.T.N. Reddy, R.M. Kurian, N.T. Sujatha and M. Srinivas	78
Irrigation scheduling of onion in Tekirdao province of Turkey –A. Halim Orta and Mehmet Ener	75
Use of photoselective plastic films to control growth of three perennial salvias -S.B. Wilson and N.C. Rajapakse	71

Vol. 3, No. 1, January-June, 2001

The impact of carbenicillin, cefotaxime and vancomycin on chrysanthemum and tobacco TCL morphogenesis and <i>Agrobacterium</i> growth – <i>J.A. Teixeira da Silva and S. Fukai</i>	3
Interactions among rooting substrate, phenological stage of cuttings and auxin concentration on the rooting of <i>Cotinus obovatus</i> –Geoffrey C. Denny and Michael A. Arnold	13
Plant regeneration from zygotic embryo hypocotyls of Tunisian chili (Capsicum annuum L) -S. Arous, M. Boussaïd and M. Marrakchi	17
Effect of low-tunnel, mulch and pruning on the yield and earliness of tomato in unheated glasshouse – Levent Arin and Sözer Ankara	23
Environmental conditions and gerbera production under different types of greenhouses -Suresh C. Mandhar, Krishan P. Singh and Carolin R. Kumari	28
Heterosis studies in bottlegourd [Lagenaria siceraria (Mol.) Standl.] –D.K.Samadia and R.C. Khandelwal	32
Influence of pruning date on the fruit yield of guava (<i>Psidium guajava</i> L.) under subtropics -Gorakh Singh, A.K. Singh and Shailendra Rajan	37
Evaluation of <i>Psidium guajava</i> accessions and some other <i>Psidium</i> species for fruit charactes – <i>M.R. Dinesh and B.M.C. Reddy</i>	41
Ripening pattern of commercial jujube (<i>Ziziphus mauritiana</i> Lamk.) cultivars in Indian arid ecosystem -Vishal Nath and R. Bhargava	44
Effect of spacing and nitrogen on flowering, flower quality and post harvest life in gladiolus –Bijimol G. and A.K. Singh	48
Effect of self and cross pollination on the fruit set behaviour of some promising apple genotypes –B.R. Jana	51
Floral descriptors of field evaluated tomato germplasm –T. Rama Srinivas	53
Effect of growth regulators on water relations and fruit yield of rain-fed sapota (Achras sapota) -Y.T.N.Reddy and M.M.Khan	56
Phenotypic stability in late season garden pea –R.S. Pan, V.S.R. Krishna Prasad and Mathura Rai	58
Nutrient composition of some wild edible fruits of Andaman and Nicobar Islands – D.B. Singh, B.L. Attri, T.V.R.S. Sharma and P.V. Sreekumar	60
Powdery mildew - A serious disease of mango -A.K. Misra	63