

CONTENT

Page No.

GENETICS AND BREEDING

Genetic and biochemical properties of *Cicer* spp reveal distinction between wild and cultivated chickpea genotypes

Feyza Nur Kafadar, Ali Özkan, Canan Can, Yağmur Kar, Dürdane Mart and Ercan Ceyhan..... 1

Heterosis and combining ability analysis for yield and yield contributing traits in velvet bean *Mucuna pruriens* (L.) DC

A. Chinapolaiah, K. Hima Bindu, G.N. Manjesh, N. Hariprasad Rao, S. Sudheer Kumar and T. Vasantha Kumar..... 10

Exploring the genetic diversity and population structure of Turkish common bean germplasm by the iPBS-retrotransposons markers

Muhammet Fatih Aydin and Faheem Shehzad Baloch..... 18

Gamma rays induced urdbbean [*Vigna mungo* (L.) Hepper] mutants with YMV resistance, good batter quality and bold seeded type

C. Vanniarajan, S. Ganeshram, J. Souframanien, K. Veni, S. Anandhi Lavanya and V. Kuralarasan..... 25

Molecular dissection of genetic diversity in pigeonpea- [*Cajanus cajan* (L) Millsp.] minicore collection

S. Muniswamy, R. Lokesha, Rachit Saxena, B. Fakrudin, Kishan Patel and Yamanura..... 32

Physico-chemical, engineering and functional properties of two soybean cultivars

Jagbir Rehal, Vinod Beniwal and B.S. Gill..... 39

Essential selection criteria for dual uses of red pea (*Lathyrus cicera* L.)

A. Adak, H. Cancl, N. Ertoy Inci, F. Oncu Ceylan, D. Sari, H. Sari, T. Yildirim and C. Toker..... 45

Genetic studies in mungbean [*Vigna radiata* (L.) Wilczek]

P. Khajudparn, O. Poolsawat and P.A. Tantasawat..... 50

Successful interspecific hybridization between mungbean (*Vigna radiata* L. Wilczek) and ricebean (*V. umbellata* (Thunb.) Ohwi & Ohashi)

Lestari Ujianto, Nur Basuki, Kuswanto and Astanto Kasno..... 55

PLANT PHYSIOLOGY

Effect of water stress on morpho-physiological parameters of fenugreek (*Trigonella foenum-graecum* L.) genotypes

S.N. Saxena, R.K. Kakani, L.K. Sharma, D. Agarwal, S. John and Y. Sharma..... 60

Variations in osmo-regulatory and anti-oxidative status and their links with total nitrogen and phosphorus concentrations in lucerne during re-growth

Zhennan Wang, Mei Yang, Jiaoyun Lu and Huimin Yang..... 66

The effects of plant growth promoting rhizobacteria on antioxidant activity in chickpea (<i>Cicer arietinum</i> L.) under salt stress	
Hilal Yılmaz and Haluk Kulaz.....	72

AGRONOMY

Role of irrigation and mulch in chickpea (<i>Cicer arietinum</i> L.) growth, productivity and moisture extraction pattern in Alluvial Zone of West Bengal, India	
S. Sarkar and A. Sarkar.....	77

Foliar applications for amelioration of iron deficiency in peanut (<i>Arachis hypogaea</i> L.)	
Shamim Akhtar, Nazneen Bangash, Armghan Shahzad, Sammer Fatima, Muhammad Akbar, Muhammad Sajjad Iqbal, Muhammad Arshad and Fayyaz-UI-Hassan.....	84

Improving productivity of groundnut (<i>Arachis hypogaea</i> L.) under drip and micro sprinkler fertigation system	
Jeetendra Kumar Soni, N. Asoka Raja and Vimal Kumar.....	90

Insight into floral biology and ancillary characteristics of underutilized legume-Bambara groundnut [<i>Vigna subterranea</i> (L.)Verdc.]	
Kailash Chandra, R. Nandini, Gobu R, Pranesh, Chitti Bharat Kumar and R. Muthuraju.....	96

Productivity and profitability of legume-cereal forages under different planting ratio and nitrogen fertilization	
Akanksha Tamta, Rakesh Kumar, Hardev Ram, R.K. Meena, V.K. Meena, M.R. Yadav and D.J. Subrahmanya	102

Response of soil arthropods population to different farming systems under cotton integrated with groundnut and pigeonpea crops	
R. Chethan, R.K. Patil and B. Halappa	108

Performance of rajma (<i>Phaseolus vulgaris</i>) cultivars under organic mulches in Meghalayan Plateau of North Eastern India	
Y. Marwein and Lala I.P. Ray.....	114

PLANT PROTECTION

Incremental cost-benefit ratio of certain bio-pesticides against <i>Helicoverpa armigera</i> Hubner (Noctuidae: Lepidoptera) in chickpea	
P.K. Ojha, R. Kumari, R.S. Chaudhary and N.K. Pandey.....	119

TRANSFER OF TECHNOLOGY

Impact of front line demonstrations on the production and productivity of moong (<i>Vigna radiata</i> L), mash (<i>Vigna mungo</i> L), rajmash (<i>Phaseolus vulgaris</i> L), lentil (<i>Lens culinaris</i> L) and chickpea (<i>Cicer arietinum</i> L) under rainfed ecology in mid hills of J & K, India	
Sanjeev Kumar, Vishal Mahajan, Pawan Kumar Sharma and Suraj Parkash	127

Esteemed reviews of this issue.....	134
Author index of this issue.....	134-135
Key words index of this issue.....	135-136