

CONTENTS

Page No.

GENETICS AND BREEDING

Assessment of molecular diversity of greengram

[*Vigna radiata* (L.) Wilzek] through RAPD

Gunnjeet Kaur, Arunabh Joshi, Devendra Jain, Ganesh Rajamani and Divya Vyas.....1

Phenotypic diversity of soybean [*Glycine max* (L.) Merr.]

accessions in the Philippines for utilization

Hidelisa De Chavez, Teresita Borromeo, Nic Oswald Borines and Renerio Jr. Gentallan.....9

Genetic divergence in mung bean

M. Sen and D.K.De.....16

Genetic base of Indian chickpea (*Cicer arietinum* L.)

varieties revealed by pedigree analysis

A.K. Srivastava, S.K. Chaturvedi and N.P. Singh.....22

Effect of physical mutagen on the *salmonella* inactivation, sensory evaluation

and proximate analysis of chickpea (*Cicer arietinum* L.)

Rukhama Haq, Neelma Munir, Faiza Saleem, Anam Mushtaq, Azka Saleem and Shagufta Naz.....27

Genetic improvement for yield through induced mutagenesis

in groundnut (*Arachis hypogaea* L.)

Dr. Kavera and H. L. Nadaf32

Genetic diversity analysis in green gram based on morphological traits

Reecha. T. Das and Purna K. Barua.....36

PLANT PHYSIOLOGY

Frequency and spectrum of chlorophyll mutations and induced variability

in ricebean (*Vigna umbellata* Thunb, Ohwi and Ohashi)

Madhu Patial, S.R Thakur, K.P. Singh and Anjana Thakur.....39

Soluble sugars and myo-inositol phosphates during germination and seedling

growth of green and white faba bean (*Vicia faba* L.)

Jing Li and Yu-Wei Luo.....47

Effects of drought stress on physiological and biochemical changes in <i>Phaseolus vulgaris</i> L.	
Sebnem Kusvuran and H. Yildiz Dasgan.....	55

Effect of cadmium chloride on soybean in presence of arbuscular mycorrhiza and vermicompost	
Parvin Pireh, Alireza Yadavi and Hamidreza Balouchi.....	63

Regeneration of plantlets from immature explants culture in <i>Glycine max</i> (L.) Merrill	
Nidhi Pathak, Sharad Tiwari and Manish Kumar Mishra.....	69

Effect of moisture content on <i>in vitro</i> regeneration of embryonic axis explants of cowpea (<i>Vigna unguiculata</i> L.)	
Anju Jain, Kalyani Srinivasan, R.P. Yadav and Aradhana Mishra.....	74

MICROBIOLOGY

Amelioration of salt stress in chickpea (<i>Cicer arietinum</i> L.) by coinoculation of ACC deaminase-containing rhizospheric bacteria with <i>Mesorhizobium</i> strains	
Deepika Chaudhary and Satyavir Singh Sindhu.....	80

Molecular diversity of rhizobial isolates of horse gram [<i>Macrotyloma Uniflorum</i> (Lam) Verdc.] and its biochemical characterization under <i>in-vitro</i> conditions	
B.K. Mishra, P.N. Dubey and K. Kant.....	87

Effect of drought on growth, physiological and biochemical processes of chickpea-rhizobia symbiosis	
Ahmed Khadraji and Cherki Ghoulam.....	94

Response of cluster bean (<i>Cyamopsis tetragonoloba</i> L. Taub.) cultivars to dual inoculation with fixing and phosphorous solubizing bacteria	
S.K. Brar and Paramjit Singh.....	100

AGRONOMY

Growth, development and yield as affected by planting pattern and weed management in field pea and baby corn intercropping system	
Moirangthem Thoithoi Devi and V.K. Singh.....	105

Influences of integrated use of organic and inorganic sources of nutrients on growth, flowering and yield of garden pea (<i>Pisum sativum</i> L.) cv. Bonneville	
Yogesh Pawar, L.R. Varma, P. Verma, H.N. Joshi, S.G. More and J.S. Dabhi.....	117

Impact of PGRS and nutrients pre-soaking on seed germination and seedling characters of mung bean under salt stress R. Sivakumar and G. K. Nandhitha.....	125
Response of fieldpea (<i>Pisum sativum</i> L. var <i>arvense</i>) to various planting methods, irrigation schedule and weed management practices Brijbhooshan, V.K. Singh and Shalini.....	132
Effect of phosphorus and sulphur on yield attributes, yield, nodulation and nutrient uptake of green gram [<i>Vigna radiata</i> (L.) wilczek] S.K. DAS.....	138
Standardization of organic module for sustainable production of fenugreek (<i>Trigonella foenum graecum</i> L.) G. Lal, Ravindra Singh, R.S. Mehta, Y.K. Sharma, Krishna Kant and S.P. Maheria.....	144
Influence of polymer coated KSL 441 (op) soybean seed on productivity under moisture stress conditions S. Ambika, V. Manonmani, M. Bhaskaran and S. Deepika.....	150
Effect of humic acid doses on yield and quality parameters of cowpea [<i>Vigna unguiculata</i> (L.) Walp] cultivars Ali Kahraman.....	155
Response of different yield components as selection criteria for yield and yield components in early generations of lentil (<i>Lens culinaris</i> L.) Yerasu Suresh Reddy, Akshay Talukdar, Harsh Kumar Dikshit, V.P. Singh, Mukesh Rana and Pathania Anju.....	160
Yield and economics of fenugreek (<i>Trigonella foenum- graecum</i> L.) as influenced by fertility levels, biofertilizers and brassinosteroid A.S. Godara, Ravindra Singh, G.S. Chouhan and V. Nepalia.....	165
Response of promising - rainy summer season greengram (<i>Vigna radiata</i> (L.) genotypes to phosphorus fertilization Beerbal Singh Rajput and R.L. Rajput.....	170
<u>SEED SCIENCE</u>	
Seed quality enhancement through seed priming in pigeonpea [<i>Cajanus cajan</i> (L.) Millsp.] Ashok S. Sajjan, M.S. Dhanelappagol and R.B. Jolli.....	173

PLANT PROTECTION

Management of Fusarium wilt of chickpea using brassicas as biofumigants

Pramod Prasad and Jatindra Kumar.....178

Population dynamics of major defoliators (semiloopers and tobacco caterpillar) in soybean crop

S. Ramesh babu, Prahlad Kumar Meena and Ramgopal Dudwal.....183

TRANSFER OF TECHNOLOGY

Technological and extension yield gaps in greengram in Pali district of Rajasthan, India

M.L. Meena and Dheeraj Singh.....187

SHORT COMMUNICATIONS

Discerning genetic diversity among super early pigeonpea germplasm using microsatellite markers

SNCVL Pushpavalli and R. Raja Rajeswari.....191

Inter-characters association studies for morphological, yield and yield attributes in the germplasm of french bean (*Phaseolus vulgaris* L.) in Tarai region of Uttarakhand, India

Ankit Panchbhैया, Dharendra Kumar Singh and S.K. Jain.....196

Efficacy of flumioxazine 50% SC for weed control in soybean

R. Thirumalaikumar and R. Kalpana.....200

Esteemed reviewers of this issue.....203

Author index of this issue.....203

Key words index of this issue.....205