

CONTENT

Page No.

GENETICS AND BREEDING

Evaluation of Physiological and Biochemical Contents in Desi and Kabuli Chickpea
Vinod Kumar Sahu, Sushma Tiwari, Neha Gupta, M.K. Tripathi, M. Yasin 1197

Cross-species Amplification and Molecular Diversity Analysis in Greengram [*Vigna radiata* (L.) Wilczek] and Ricebean [*Vigna umbellata* Thunb.]
D. Susmitha, P. Jayamani 1209

Genetic Analysis of Pigeonpea [*Cajanus cajan* (L.) Millsp.] Hybrids for Yield and Yield Attributes
S. Sandeep, K. Sujatha, C. Manikya Minnie, C. Sudha Rani 1216

Evaluation of Bush Type Common Bean (*Phaseolus vulgaris* L.) Genotypes for Morphological Characters and Anthracnose under Cold Arid Ladakh Conditions
S.A. Ganie, B.A. Wani 1223

Detection of Epistasis for Biometrical Traits in Urdbean [*Vigna mungo* (L.) Hepper] under Mid-hill Conditions of Northwestern Himalayas
Ranjana Patial, R.K. Mittal, V.K. Sood, Nimit Kumar 1229

Exploration, Collection and Characterization of Horsegram [*Macrotyloma uniflorum* (Lam.) Verd.] Germplasm
A.B.M. Sirisha 1235

BIOTECHNOGY

Alleviation of Calcium Toxicity in *Arabidopsis thaliana* by Overexpressing GmHsp90s from Soybean
Xu Jinyan, Guo Na, Zhao Jinming, Xing Han, Xue Chenchen 1241

An *Agrobacterium rhizogenes* Strain R1000-mediated Efficient Hairy Root Transformation Protocol for Common Bean
Hai Lan Li, Ping Ping Fang, Yan Nan Hu, Xiao Fang Li, Wen Jun Xia, Pei Xu 1247

AGRONOMY

Effect of Irrigation Pattern and Irrigation Level on Growth of *Glycyrrhiza inflata* and the Medicinal Quality of its Root
Zhilong Zhao, Xinping Dong, Miao Ma 1252

Assessment of Water Productivity of Soybean [*Glycine max* (L.) Merrill] based Cropping Systems under *Vertisols* in Malwa Plateau of Madhya Pradesh, India
Gabu Singh Gathiye, Hari Shankar Kushwaha 1259

Foliar Nutrition with Water Soluble Macro and Micro Nutrient Fertilizers for Yield Maximization in Bush Vegetable Cowpea

R.K. Krishnasree, Sheeja K. Raj, P. Shalini Pillai, K. Prathapan, D. Jacob, R. Beena 1266

Compensatory Growth of Soybean after Shade during Vegetative Promotes Root Nodule Recovery
Xiaoting Yuan, Kai Luo, Jia Zuo, Shanshan Liu, Taiwen Yong, Wenyu Yang 1273

The Response of *Vigna radiata* to Various Sources of Fertilizers in Vellore District
S. Indrapriyadarshini, S. Karthikeyan 1278

Effect of Phosphorus and Zinc Interaction on Performance of Green Gram [*Vigna radiata* (L.) Wilczek]
Padma Angmo, A.K. Mondal, Mamta Phogat, Sunil Kumar, A.P. Rai 1283

ENVIRONMENT AND TECHNOLOGY

Assessment of Multiple Tolerance Indices for Moisture Stress in Fenugreek (*Trigonella foenum-graecum* L.)
M. Choudhary, O. Kumar, D.K. Gothwal, M. Bajya, B.K. Dadrwal, V.P. Singh 1287

Allelopathic Impacts of an Agroforestry Tree Species (*Streblus asper* Lour.) on Seed Germination and Seedling Growth of Chickpea
S. Oraon, S. Mondal 1295

PLANT PROTECTION

Single Marker Analysis in Groundnut for Tolerance to *in vitro* Seed Colonization by *Aspergillus flavus* and Aflatoxin Contamination
Hasanali Nadaf, B.N. Harish Babu, G. Chandrashekhara, D.L. Savithramma, Manjunath K. Naik 1301

Morphological and Molecular Screening of Soybean Genotypes against Yellow Mosaic Virus Disease
Nishi Mishra, M.K. Tripathi, Sushma Tiwari, Niraj Tripathi, H.K. Trivedi 1309

Yield Losses Due to Weeds, Critical Period for Weed-crop Competition in Fenugreek (*Trigonella foenum-graecum* L.)
Ravindra Singh, Sharda Choudhary, R.S. Mehta, O.P. Aishwath, G. Lal 1317

Impact of Herbicides on Soil Microorganisms, Nodulation and Yield of Chickpea
Akhilesh Sah 1325

Esteemed Reviewers of This Issue 1330
Authors Index of This Issue 1330-1331
Keywords Index of This Issue 1331-1332