

LEGUME RESEARCH - AN INTERNATIONAL JOURNAL

Vol. 43 Issue 1, February 2020

NAAS Rating 6.34

CONTENT

Page No.

REVIEW

Bioefficacy of Chemical Insecticides Against Major Sucking Insectpests on Grain Legumes in India- A Review

P. Seetharamu, K. Swathi, S. Dhurua, M. Suresh, S. Govindarao, N. Sreesandhya 1

GENETICS AND BREEDING

DNA Fingerprinting of Vegetable Soybean Cultivar 'Zhexian No.9' using 101 New Developed HRM-Based SNP Markers

X.J. Fu, J.X. Pei, Y.T. Zheng, D.D. Guo, Q.H. Yang, H.X. Jin, D.H. Zhu, D.K. Dong, S.C. Xu 8

Genotypic and Phenotypic Variability for Yield and its Components in Normal and Late Sown Chickpea (*Cicer arietinum* L.)

D. Yücel 18

Combining Ability and Heterosis Analysis for Grain Yield and Yield Associated Traits in Pea (*Pisum sativum* L.)

Nageshwar, Bijendra Kumar, Hariom Suman, A.H. Madakemohekar, Dattesh Tamatam 25

Genetic Diversity Analysis in Underutilized Medicinal Climber *Mucuna pruriens* (L.) DC. Germplasm Revealed by Inter Simple Sequence Repeats Markers

A. Chinapolaiah, K. Hima Bindu, G.N. Khadke, G.N. Manjesh, N. Hariprasad Rao, S. Sudheer Kumar, Manish Kumar Suthar 32

ISSR Based Diversity Analysis in Beachpea [*Vigna marina* (Burm.) Merr.] Accessions of Andaman and Nicobar Islands, India

Awnindra K Singh, A. Velmurugan, Debjyoti Sen Gupta, N.P. Singh, S. Dam Roy, Utpal Biswas, R. Rahul Kumar 38

PLANT PHYSIOLOGY

Investigating Stress Indices to Discriminate the Physiologically Efficient Heat Tolerant Genotypes of Mungbean [*Vigna radiata* (L.) Wilczek]

Rajesh Kumar, Chandra Mohan Singh, Madhuri Arya, Rahul Kumar, S.B. Mishra, U.K. Singh, Sudhir Paswan 43

Impact of Drought Stress on Physiological Characteristics and Isolation of Chloroplasts in Common Bean (*Phaseolus vulgaris* L.)

Tanja Zadražnik, Jelka Šuštar-Vozlič 50

Effects of Microalga (*Chlorella vulgaris* Beijerinck) on Secondary Metabolites and Antioxidative Defense System Improve Plant Growth and Salt Tolerance in Guar [*Cyamopsis tetragonoloba* (L.) Taub.]

Alpaslan Kusvuran, A.G. Can 56

Legume Research- An International Journal

AGRONOMY

- Impact of Biotic Stress Management Technologies on Yield, Economics and Energy Indices of Pigeonpea (*Cajanus cajan*) Grown in Central India
Y.P. Singh, S.P.S. Tomar, Sudhir Singh 61
- Effect of Seed Priming on Growth and Seed Yield in *kabuli* Chickpea (*Cicer arietinum* L.) Varieties
Pavan Shinde, Ravi Hunje 68
- Evaluation of the Fermentation Properties of Different Soybean (*Glycine max* L.) Cultivars
Dong Sun Shin, In Duck Choi, Seuk Ki Lee, Ji Young Park, Nam Geol Kim, Chang Hwan Park, Sang Ik Han, Hye Sun Choi 75
- Influence of Rhizobium, Pseudomonas and Mycorrhiza on Some Physiological Traits of Red Beans (*Phaseolus vulgaris* L.) under Different Irrigation Conditions
Ebrahim Abbasi Seyahjani, Mehrdad Yarnia, Farhad Farahvash, Mohammad Bagher Khorshidi Benam, Hadi Asadi Rahmani 81
- On-farm Evaluation of Pigeonpea (*Cajanus cajana* L. Millsp.) - Neem (*Azadirachta indica* A. Juss.) Agroforestry Systems in the Deccan Plateau
Doddabasawa, B.M.Chittapur, M. Mahadeva Murthy 87
- Forage Potential of Three Wild Species of Genus *Lupinus* (Leguminosae) from Mexico
J.F. Zamora-Natera, R. Rodriguez-Macias, E. Salcedo-Perez, P. Garcia-Lopez, L. Barrientos-Ramirez, J. Vargas-Radillo, C. Soto-Velasco, M.A. Ruiz-López 93
- Influence of Seed Priming and Different Irrigation Levels on Growth Parameters of Cowpea [*Vigna unguiculata* (L.) Walp]
M.N. Arun, S. Shankara Hebbar, K. Bhanuprakash, T. Senthivel, A.K. Nair, D. Pratima Pandey 99
- Nitrogen use Efficiency, Economic Return and Yield Performance of Pigeonpea [*Cajanus cajan* (L.) Millsp.] as Influenced by Nipping and Fertility Levels
A.K. Dhaka, Satish Kumar, Bhagat Singh, Karmal Singh, Amit Kumar, Navish Kumar 105
- Direct and Residual Effect of Planting Method and Phosphorous Levels on Productivity and Agro-Meteorological Indices, Thermal and Energy Efficiencies in Mungbean– Wheat Cropping System
Parveen Kumar, Karmal Singh, K.D. Sharma, Anil Kumar, Amit Kumar 111
- The Effects of Weed Density and Different Weed Control Applications on Yield and Yield Components of Chickpea Cultivars
Melih Yilar, Omer Sozen, Ufuk Karadavut 117
- Integration of Chemical and Cultural Methods for Weed Control Management in Soybean (*Glycin Max.* L)
R.L. Rajput, Brajraj Singh Kasana 122

MICROBIOLOGY

- Isolation and Characterization of Native Cowpea Rhizobia from Wayanad India
D. Girija, P.S. Panchami, Praveena E. Jose, T. Saeed, Sneha S. Nair 126

Legume Research- An International Journal

Molecular Diversity of Stress-tolerant PGPR Rhizobia Nodulating Clusterbean (*Cyamopsis tetragonoloba* L.) Grown in Hyper-arid Zone of Rajasthan

Hemanta Kumar Mondal, Rajesh Gera

134

PLANT PROTECTION

In-vivo Evaluation of Different Fungicides, Plant Extracts, Bio-control Agents and Organics Amendments for Management of Dry root rot of Chickpea Caused by *Macrophomina phaseolina*

Lalita Lakhran, R.R. Ahir

140

SHORT COMMUNICATION

Characterization of *Mesorhizobium* Strains for Salt Tolerance and Wilt Control: Their Potential for Plant Growth Promotion of Chickpea (*Cicer arietinum* L.)

Anju Sehrawat, Aakanksha Khandelwal, Satyavir Singh Sindhu

146

Combining Ability Analysis for Yield and Yield Components in Mungbean [*Vigna radiata* (L.) Wilczek]

Rathod Viraj, M.S. Pithia, H.V. Solanki

151

Esteemed Reviewers of This Issue

155

Authors Index of This Issue

155-156

Keywords Index of This Issue

156

National Academy of Agricultural Sciences (NAAS) Rating : 6.34

Impact Factor: .336 (ISI)

Scientific Journal Ranking (SJR) : 0.319