

Contents

International Journal of Agriculture, Environment and Biotechnology

VOL. 14, NO. 2, JUNE 2021

GENETICS AND PLANT BREEDING

Genetics and Genomic basis of Stay-green Trait 119

Harshavardan J Hilli and Amandeep

HORTICULTURE

Brassinosteroids Application Responses in Fruit Crops – A Review 123

Shashi K. Sharma

Impact of Coriander Intercropping on the Incidence of Defoliator, *Spoladea recurvalis*
Fabricius in Amaranthus 141

M. Kalai Nila, M. Chandrasekaran, K. Indhumathi and T. Ramesh

Organic Pineapple Production Technology in Tripura – The lone AEZ for Fruits in North East India 149

Utpal Das, R.K. Bhattacharyya, Debashish Sen, Panchaal Bhattacharjee and Pramila Choudhury

AGRONOMY

Study of Physical Properties of *Zea mays* in the Development of Seed Metering Unit 159

Ajay, A., Rami Reddy, K.V.S. and Ashok Kumar, A.

Weed Dynamics of Hybrid Rice under the Influence of Fertilizer Levels and Weed Management Practices 165

Polagani Nagarjuna, Singh R.S. and Adhilakshmi, G.

Potential Role of Weed Management on Growth and Productivity of Pearl Millet: A Review 169

Sindhu Lalichetti, Sagar Lalichetti, Sultan Singh, Sagar Maitra and Oggu Keerthipriya

Growth and Yield of Sweetcorn as Influenced by Zinc Fertilization 175

Monika Peddapuli, B. Venkateswarlu, P.V.N. Prasad and Ch. Sujani Rao

Relative Efficacy of Different Weed Management Practices on Growth, Yield and
Weed Dynamics in Sunflower 181

*Prabhuvineeth Inuganti, Subhashisa Praharaj, Sagar Lalichetti, Tanmoy Shankar, G.C. Mishra,
Sagar Maitra, Rahul Adhikary, Lipsa Patnaik, Sairam Masina and Sultan Singh*

Effect of Crop Establishment Methods and Nitrogen Management on Growth and Yield of Rice	185
<i>Polagani Nagarjuna, B. Venkateswarlu, Sreerekha, M., P.R.K. Prasad and Jayalalitha, K.</i>	
Water Supply and Demand for Different Sectors in Bhavani Basin	191
<i>A. Malaisamy</i>	
Yield Gap Analysis for Groundnut through Cluster Front Line Demonstration in South Eastern Ghat Zone of Odisha	199
<i>Samir Ranjan Dash, Nigamananda Behera, Himangshu Das, Anuj Kumar Rai, B.K. Rautaray and N. Bar</i>	
Zabo Farming System- A Sustainable Farming based on Traditional Knowledge for Natural Resource Management Practiced by Tribal in Nagaland, India	203
<i>Nchumthung Murry and Sanjoy Das</i>	
Growth and Productivity of Maize (<i>Zea mays</i> L.) as Influenced by Nitrogen Management Options	207
<i>Sameer Mohapatro, Tanmoy Shankar, Sagar Maitra, Arunabha Pal, S.P. Nanda, Masina Sai Ram and Shravan Kumar Panda</i>	
A Review on Molecular Mechanisms of Wheat (<i>Triticum aestivum</i> L.) and Rice (<i>Oryza sativa</i> L.) against Abiotic Stresses with Special Reference to Drought and Heat	215
<i>Shraddha Tomar, Manepalli Seetha Babu, Dinkar J. Gaikwad and Sagar Maitra</i>	
AGRICULTURAL EXTENSION	
Study on Profile Characteristics of Self-help Group members in Himachal Pradesh	223
<i>Surinder Singh and B.S. Hansra</i>	
Post-training Knowledge and Attitude Assessment of the Women Entrepreneurs towards Mushroom Cultivation	229
<i>Sonam, Shishir Kala, P. Prabhakar and Mamoni Banerjee</i>	
MGNREGA Impacted Rural Women Empowerment: A Case Study of Mandya District	235
<i>Pallavi, G. and N.S. Shivalingegowda</i>	
FOOD SCIENCE	
Arduino-Based Milk Quality Monitoring System	245
<i>Sumitra Goswami and Ashok Dangi</i>	

AGRICULTURAL MICROBIOLOGY

- Isolation, Characterization of Salt Tolerant *Azotobacter* and its Potential Role in Promoting Seed Germination of Indian Mustard Under Salt Stress 251

Gopakumar Pillai, Bindu Rajaguru and Meenakshi Johri

SOIL SCIENCE

- GIS based Spatial Variability Assessment in Flower Crops Grown Soils of Horticultural College and Research Institute, Periyakulam, Tamil Nadu 257

K.M. Sellamuthu, R. Kumaraperumal and P. Malathi

BIOTECHNOLOGY

- Identification of Donors and Molecular Characterization of *Corynespora cassiicola* Causing Fungal Leaf Spot of Mungbean and Urdbean 265

Sushmita V.T., Narendra Bairwa, Meenakshi Arya, P.P. Jambhulkar, Manjunatha N., Anshuman Singh and S.K. Chaturvedi