

Contents

International Journal of Agriculture, Environment and Biotechnology

Vol. 11, No. 1, February 2018

AGRONOMY

- Influence of Water Regimes and Weed Management Practices on Weed Densities and Weed growth under System of Rice Intensification (SRI) under Temperate Conditions 1
Manzoor A Ganai, Narinder Panotra, A. Hussian, N.A. Telli, Talib Hussian and Tauseef Ahmad
- Determination of Optimum Sowing Time of Grass Pea Based on Yield Variation as Affected by Varied Dates of Sowing in New Alluvial Zone of West Bengal 11
Argha Ghosh and Safiuddin Ahmed Khan
- Nutrients Uptake and Available Nutrients Status in Soil as Influenced by Sowing Methods and Herbicides in *Kharif* Maize (*Zea mays* L.) 17
Gaurav, S.K. Verma, R.S. Meena, A.C. Maurya and Sushil Kumar
- Response of Various Yield of Sweet Sorghum Crop (*Sorghum bicolor* L. Moench) to Different Levels of Fertilizer in Lateritic Soil of Birbhum, West Bengal 25
Pradip Roy, Satakshi Basu, Jayeeta Chatterjee, Arunava Goswami and Samarendra Barik

ENVIRONMENTAL SCIENCE

- A Study of Air Pollution Status by Estimation of APTI of Certain Plant Species Around Pratapnagar Circle in Udaipur City 33
Devendra Singh Rathore, Tanushree Kain and Pallavi Gothalkar
- Tar and Particulate Matters Removal from Producer Gas by using Oily Organic Filter Media 39
Prakash Chandra Jena, Murari Shyam and Asim Kumar Joshi
- Vigna radiata*: A Potent Phytofiltrator of Lead Grown Hydroponically in Sewage 45
Harsha Goyal and Angurbala Bafna

SOIL SCIENCE

- Dynamics of Organic Carbon and Nutrients after Organic Waste Addition in an Acid Soil 55
Ermadani, Hermansah, Yulnafatmawita and Auzar Syarif

HORTICULTURE

- Adventitious Shoot Regeneration from *in vitro* Leaf Explants of *Ophiorrhiza mungos* L. var. *angustifolia* (Thw.) Hook. F. 65

Jeeja Jaya Krishnan, Gangaprasad Appukuttannair and Satheeshkumar Krishnan

GENETICS AND PLANT BREEDING

- Genetic Variability and Correlation Studies of Yield and Yield Component in Maize Hybrids (*Zea mays* L.) Under Kymore Plateau and Satpura Hill Region of Madhya Pradesh 71

Neelam Bisen, C.P. Rahangdale and R.P. Sahu

- STMS Markers Proved Effective in Establishing Identity and Determining Genetic Purity in Commercial Seed Lots of 'Pusa Rice Hybrid 10' 79

Praveen K. Singh, Chandra Prakash, S. Pandey, K.K. Singh, S.S. Parihar and A.K. Singh

- Isozyme Analysis of Embryogenic and Non-Embryogenic Callus of Diploid Banana Cultivars 87

Smitha, P.D., Binoy, K.R. and Ashalatha S Nair

- Genetic Divergence Analysis in Papaya (*Carica papaya* L.) Genotypes using Molecular Markers 93

P.N. Kore, M.J. Patel, A.S. Desai, A.A. Sakure, D.A. Patel and R.R. Acharya

- Genetic Diversity in *Quercus leucotrichophora* Populations Through Rapd Markers 97

Romeet Saha

- Yield Stability and Association among Parametric and Non-parametric Stability Measures for Wheat (*Triticum aestivum* L.) Genotypes in Northern Region of India 103

Sudha Bishnoi and B.K. Hooda

- Phenotyping for Grain Mineral Contents (Iron and Zinc) in PAU201 × Palman 579 F₅ and BC₁F₄ Populations in Rice (*Oryza sativa* L.) 111

Amit Pippal, Rajinder K. Jain, Sunita Jain, Sandeep Kumar and Nabin Bhusal

AGRICULTURAL ECONOMICS

- Sources of Growth in Rice Production in India: State Wise Component Analysis 121

I.V.Y. Rama Rao, H. Srinivasa Rao and Ch. Srilatha Vani

- An Economic Analysis of Paddy Fodder and Livestock Management in Tunga Bhadra Project (TBP) Command Area in Karnataka 127

Sangmesh Chendrashekhar, Lokesh G.B, Suresh S Patil and H. Lokesh

- Cultivation and Marketing of Tuberose (Lily) Flowers by the Rural Poor: An Approach of Swot Analysis 137

Swapna, B

Estimation of Surplus for the Different Research Problems Relating to Fisheries Sector by using Economic Surplus Model and Prioritizing the Problems	141
--	-----

Anil Kumar Singh, R.S. Srivastava, S.P. Singh, D.V. Singh and H.L. Singh

AGRICULTURE EXTENSION

A Study on the Level of Awareness and Knowledge on Carcasses and Animal Waste Disposal among Farmers in Puducherry Region	153
---	-----

K. Rajkumar, A. Bhattacharya, S. Hari Balaji, S. David, M. Jayakumar, N. Balaji and R. Hariharan

MICROBIOLOGY

Enhancement of Growth and Yield Parameters of Wheat Variety Aai-W6 by an Organic Farm Isolate of Plant Growth Promoting <i>Erwinia</i> Species (KP226572)	159
---	-----

Alka Sagar, George Thomas, Shalini Rai, Rupendra K. Mishra and Pramod W. Ramteke

Isolation, Screening, Identification, and Optimization of Xylanase Producing Bacteria from Forests of Western Ghats, India	173
--	-----

V. Senthil Kumar, V. Karthi, A. Ramkumar, R. Ramesh, A. Stephen and S. Kumaresan

Optimization of Microbial culture for Improved Production of Secondary Metabolites	181
--	-----

Amit Pandey, Ankita Srivastava, Niharika Chandra, Dheerendra Kumar and Sunil Kumar

Optimization of Extracellular Alkaline Protease Production From <i>Pseudomonas aeruginosa</i> Isolated from Soil Samples	187
--	-----

Krishna Ash, Sushma and Pramod W. Ramteke

Evaluation of Fatty Acid Profile and Biodiesel Characterization Obtained from Novel Algae <i>Scenedesmus vacuolatus</i> X56104	195
--	-----

Dhanpal B. Chavan and C.N. Khobragade

Effect of Industrial Fly Ash on the Growth of Some Crop Field Soil Fungi Adapted with Ash Content	203
---	-----

Shikha Shrivastava, Pramod Kumar Mahish and Anjali Ghritlahare

PLANT PHYSIOLOGY

Accelerated Aging Affects the Germination Physiology of Wheat Seeds	209
---	-----

Sananda Mondal and Bandana Bose

ENTOMOLOGY

A Way to Deal with the Root-Knot Nematode (<i>Meloidogyne graminicola</i>) in Transplanted Rice of West Bengal	217
--	-----

Gautam Chakrabarty, Shanowly Mondal (Ghosh), Anamika Kar, Kusal Roy and Aniruddha Pramanik