# **Contents**

## International Journal of Agriculture, Environment and Biotechnology

### Vol. 10, No. 6, December 2017

BIOCHEMISTRY	
Improvement in Storage and Thermal Stability of Micro- structures of Amylase Entrapped in the Pectin Gel	635
Jagdish Singh	
AGRONOMY	
$Impact \ of \ Tillage \ and \ Herbicides \ on \ the \ Dynamics \ of \ Broad \ Leaf \ Weeds \ in \ Wheat \ (\textit{Triticum aestivum L.})$	643
Ravi Praksah Singh, S.K. Verma, Sushil Kumar and Kairovin Lakara	
Effect of Agro-ecology on Nutrient Content, Yield and Digestibility of Forage oat (Avena sativa L.) Varieties	653
Dinku Getu, Tegene Negesse and Mekiya Bedru	
ENVIRONMENTAL SCIENCE	
Flubendiamide: Residues and Risk Assessment in Tomato Solanum lycopersicum	661
Sudhakar S. Kelageri, Cherukuri Sreenivasa Rao, Vemuri Shashi Bhushan, Pothula Narayana Reddy, Swarupa Rani S, Aruna M, Harinatha Reddy A, Ravindranath D, Ramesh B and Hymavathy M	
Evaluating the Effect of Substrate Type and Concentration in the Biodegradation of Petroleum Hydrocarbons	669
B Santhaveerana Goud and Prathibha D	
Effects of Chemical Fertilizers and Pesticides on Human Health and Environment: A Review	675
Nayana Sharma and Ritu Singhvi	
SOIL SCIENCE	
Determination of Soil Water Stress Coefficient by different Methods for Computing Crop Transpiration Under Bed Planted Pigeon Pea	681
Vikas Rai, Pragati Pramanik, Pramila Aggarwal, Pramila Krishnan, Amitava Rakshit, T.K. Das and Rekha Meena	

Effect of Different Sources of Sulphur on Growth, Productivity and Oil Content of Brassica campestris var. toria in the Red Soil of Odisha	689
G.C. Sahoo, P.K. Biswas and G.H. Santra	
HORTICULTURE	
Effect of Picking Stages on Fruit and Seed Development in Okra [Abelmoschus esculentus (L.) Moench] Cultivars Kashi Pragati and Kashi Kranti	695
Amrit K. Barnwal, A.K. Pal, Anupam Tiwari, Sumit Pal and Anil K. Singh	
AGRICULTURE ENGINEERING	
A Review on Comparison of Seismic Behavior of RC Structures Using Various Codes	703
Kamaldeep Kaur and Jaspal Singh	
Performance Assessment of Solar Reflector Supported Steam Generator for Cooking of Meals under Different Climatic Conditions	709
Md. T. Noori, Sanjeev Kumar, Sanjay Kumar and K.N. Jha	
Influence of Throat Length and Flow Parameters on a Venturi as an Aerator	717
Amarjyoti Khound, Anamika Yadav, Sudipto Sarkar and Avinash Kumar	
Optimization of Process Parameters for Osmotic Dehydration of Chayote Cubes by Response Surface Methodology	725
Avinash Kumar, Sahijul Islam, Kshirod Kumar Dash and Sudipto Sarkar	
Physico-chemical Analysis of Fruit Juices by Using Self-Made Low Cost Portable Ohmic Heater	739
Anjum Ayoub, S.A. Sofi and Ashish mohite	
Effect of Slice Thickness on Drying Kinetics of Papaya using Food Dehydrator	749
Naga Hari Sairam, N, Naveen Kumar, M, Edukondalu, L, Yashwanth Kumar, G	
GENETICS AND PLANT BREEDING	
Biplot Analysis of Advanced Wheat Genotypes in Northern Eastern Plains Zone	757
Ajay Verma, R. Chatrath and Indu Sharma	
Microsatellite Based Genotyping of the <i>Helianthus annuus</i> L.	765
Kirandeep Kaur, S.K. Dhillon and B.S. Gill	
Microsatellite based Molecular Characterization and Genetic Diversity Analysis of Maize ( <i>Zea mays</i> L.) Inbred Lines	773
Keyur A. Patel, S.M. Khanorkar, Azadchandra S. Damor and Hitiksha K. Parmar	

#### **MICROBIOLOGY**

Diversity of Arbuscular Mycorrhiza Associated with Long Term Wastewater Irrigation in the Peri-urbar	L
Soil of Varanasi	

779

Sumita Pal, H.B. Singh and Alvina Farooqui

#### **ENTOMOLOGY**

Bioefficacy of Certain Insecticides and Biopesticides against Spotted Pod Borer, *Maruca vitrata* Infesting Greengram

785

Sameer Kumar Singh and P.S. Singh