

# ANNALS OF BIOLOGY

Vol. 33, No. 2 (July-December 2017)

## CONTENTS

---

### Articles

- Over-expression and Purification of Active Flax (*Linum usitatissimum*) Secretory Phospholipase A<sub>2</sub> from the Soluble Fraction in Native Form  
–*Payal Gupta and Raman Saini* ...173-179
- Biogenesis of Silver Nanoparticles Using *Fusarium pallidoroseum* and its Potential against Human Pathogens  
–*Pooja Bansal, Pawan Kaur and J. S. Duhan* ...180-185
- Qualitative Phytochemical Analysis of Leaves, Stem and Root Extracts of Selected Medicinal Plants  
–*Pradeep Dhanwal, Shruti Dudeja, Abhishek Kumar, Hemlata, Rohit Chauhan, Sweeta, Suman Rana, Anil Kumar and Vinod Chhokar* ...186-190
- Review : Problems and Progress in *Indica* Rice Tissue Culture Techniques  
–*Nayan Tara, Meena and Pawan Kaur* ...191-198
- Isolation, Screening and Estimation of Enzyme Activity of *Xylanase* Producing Bacteria  
–*Abhishek Kumar, Pradeep Dhanwal, Shiv Prasad Ghawari, Shruti Dudeja, Hemlata, Rohit, Sweeta, Vinod Chhokar, Vikas Beniwal and Anil Kumar* ...199-203
- Crystal Violet Decolorization by *Achromobacter insolitus* (SA7E) Isolated from Tannery Effluent Treatment Plant  
–*Ankita and Baljeet Singh Saharan* ...204-206
- Microbial Proteases : Current Perspectives and Potential Applications  
–*Kamla Malik, Sushil Ahlawat and Shikha Mehta* ...207-210
- An Evolutionary Analysis of Cluster of Differentiation (CD24) Gene  
–*Surender Kumar Sehrawat, Devender Kumar, Vandana Moudgil, Jasbir Singh and Ashish Aneja* ...211-214
- Changes in ADF and NDF Content in Different Stages during Storage, Drying in Pulp and Peel of Sapota (*Manilkara zapota* L.)  
–*Suman Bala, Jitender Kumar and B. S. Beniwal* ...215-219
- Phytochemical Analysis of Methanolic Extracts of Different Parts of *Nyctanthes arbor-tristis* and Antibacterial Activity of Flower Extract  
–*Sumona Kumari and Rajvir Singh* ...220-226
- Effects of Different Solvents on Antioxidant Activity of *Dalbergia sissoo* Roxb. Stem Extract  
–*Sushila Singh, Jayanti Tokas and Parvesh Devi* ...227-230
- Bioecological Studies of *Tetranychus urticae* Koch (Acari : Tetranychidae) : A Review  
–*Sonika, Rachna Gulati, Monika and Arvind* ...231-237
- Studies on Integrated Nitrogen Management in Sorghum [*Sorghum bicolor* (L.) Moench] and its Residual Effect on Chickpea  
–*H. K. Sumeriya, Rakesh Kumar, Arvind Verma, Pushpendra Singh, N. S. Dodiya, B. R. Ranwah and N. S. Devra* ...238-243
- Response of Quality Protein Maize Hybrids (*Zea mays* L.) under Varying Plant Population and Nutrient Management on Yield and Economics  
–*Nupur Sharma, M. K. Kaushik, Kaushal Kishor and Tikendra Kumar Yadav* ...244-246

Effect of Fertility Levels on Growth and Quality of Different Sorghum [ <i>Sorghum bicolor</i> (L.) Moench] Genotypes – <i>Kaushal Kishor, M. K. Kaushik, Nupur Sharma and Tikendra Kumar Yadav</i>	...247-250
Yield Performance of Popcorn Genotypes as Influenced by Different Nutrient Levels and Plant Spacing – <i>Mahesh Kumar and Jasbir Singh Chawla</i>	...251-254
Salicylic Acid Affects the Physical and Physiological Quality of Ber Fruits during Storage under Low Temperature – <i>N. S. Devra, K. D. Ameta, R. A. Kaushik, S. Pareek, R. K. Yadav, Bhagwat Singh Chouhan and H. K. Sumeriya</i>	...255-259
Impact of Water Regime and Fertigation on Quality and Nutrient Content of Sweet Orange ( <i>Citrus sinensis</i> Osbeck) cv. <i>Mosambi</i> and on Nutrient Availability in Soil – <i>Harish Kumar, P. K. Yadav, Jitendra Singh Shekhawat, A. K. Singh, P. Singh and Dinesh Kumar</i>	...260-264
Effect of NPK and FYM on Quality, Content and Uptake of Okra [ <i>Abelmoschus esculentus</i> (L.) Moench] – <i>Jitendra Singh Shekhawat, A. K. Soni, Harish Kumar, Harsh, V. S. Shekhawat, Suryaveer Singh Manohar and Dinesh Kumar</i>	...265-267
Effect of Different Nitrogen Levels on Potato Yield and Agronomic N Use Efficiency under Temperate Conditions – <i>S. Faheema, S. H. Khan, Faisal Nabi, M. D. Shah, Ambreen Nabi and J. I. Chisti</i>	...268-270
Embryo Rescue in Plants – <i>Nighat Mushtaq, Faheema Mushtaq and Farahanaz Rasool</i>	...271-275
Bioefficacy of EPNs ( <i>Steinernema</i> and <i>Heterorhabditis</i> , Haryana Isolates) against <i>Spodoptera litura</i> – <i>Babita Kumari, Vinod Kumar, Anil Kumar and Sewak Ram</i>	...276-278
Integrated Management of Root-knot Nematode, <i>Meloidogyne javanica</i> Infecting Hybrid Tomato – <i>Gurpreet Singh, K. K. Verma, Neeraj and Madhuri</i>	...279-282
Effect of Acetonic Extracts of Medicinal Plant on Egg Hatching and Larval Mortality of Root-knot Nematode, <i>Meloidogyne incognita</i> ( <i>in vitro</i> ) – <i>Neeraj, Gurpreet Singh, S. R. Goel, Anil Kumar and K. K. Verma</i>	...283-286
Impact of Climate Change on Indian Agriculture : Challenges and Opportunities – <i>K. K. Kundu, Manoj Siwach, Baljit Singh and K. Archana</i>	...287-294
Assessment of the Impact of Revolving Milking Stool with Stand on Ergonomics of Rural Women Engaged in Milking of Animals – <i>Ragini Ranawat</i>	...295-298
Assessment of Relationship between Electrical Heating Parameters and Temperature Rise Rate of Peach ( <i>Prunus persica</i> ) Pulp – <i>Manish Kumar and Aradhita Ray</i>	...299-303
A Review : Incredible Indian Spices and Herbs – <i>Neeraj, Vinita Bisht and Amit Sen</i>	...304-311
Adoption Pattern and Economic Factors with Impact Assessment of Mobile Based Advisory Services in Haryana – <i>Saroj Kumari, Nishi Sethi, Raman Jodha and Vinay Mehala</i>	...312-315
Implications and Limitations in Mobile Based Advisory Services through KVKs in Haryana – <i>Saroj Kumari, Nishi Sethi, Raman Jodha and Vinay Mehala</i>	...316-318
Bioecological Studies of <i>Polyphagotarsonemus latus</i> (Banks) (Acari : Tarsonemidae) : A Review – <i>Monika Jangra, Rachna Gulati, Sonika and V. K. Batra</i>	...319-324