

CONTENTS

- 845-852**     **Wei Su, Zexiu Li, Chunzhi Xie, Bengang Xu, Yingchun Mu and Shuyi Qiu**  
Isolation and Identification of Aroma-producing Yeast Strain from Black Glutinous Rice Wine
- 853-863**     **Punyisa Charirak, Weerasak Saksirirat, Sanun Jogloy and Suwita Saepaisan**  
Application of Microorganisms for Induced Resistance in Jerusalem Artichoke (*Helianthus tuberosus* L.) against Stem Rot Caused by *Sclerotium rolfsii* Sacc.
- 865-870**     **Pornpun Siramon, Vittaya Punsuvon and Aksorn Riengsilchai**  
Optimization of Lipid Production by *Mortierella isabellina* Using Glycerol, A By-product of Biodiesel Production as a Carbon Source
- 871-878**     **Jesus A. Salazar-Magallon, Karla T. Murillo-Alonso, Laura Lina Garcia, Guadalupe Pena-Chora and Victor M. Hernandez-Velazquez**  
Scale-up from a Shake Flask to a Bioreactor, Based on Oxygen Transfer for the Production of Spore-crystal Complexes from *Bacillus thuringiensis*
- 879-885**     **Shehab M. Abd El-Kader, Mohammed H. Saiem-Aldahr and Osama H. Al-Jiffri**  
Biochemical Parameters Response to Treadmill Exercise Training in Patients with Chronic Hepatitis C Virus Infection
- 887-896**     **Ashraf Hussain, Eugene Boon Beng Ong, Priscilla Saw Cheah Phei, Kaizar Hossain, Prabha Balaram, Asma Ismail, Phua Kia Kien**  
Role of TolC in Virulence of *Salmonella enterica* Serovar Typhi
- 897-904**     **Aliaa R. El-Shamy, Nadia G. El-Gamal and Sherien M.M. Atalla**  
Effect of Different Agricultural Wastes on Xylanase Production by *Saccharomyces cerevisiae* and its Application on Citrus Fruit
- 905-914**     **Dalia El-Sayed El-Badan, Dunja-Manal Abou-Zeid, Hind Mohamed Hassan and Soraya A. Sabry**  
Statistical Optimization of Phosphate Solubilization by *Erwinia* sp.hdds3fr
- 915-922**     **D.P. Urbina-Flores, O. Romero-Arenas, A. Rivera, C. Parraguirre-Lezama and Villarreal Espino Barros O.**  
Microbiological and Physico-Chemical Characterization of Soil of an Agroforestry System in Tetela De Ocampo, Puebla Mexico
- 923-935**     **Weravart Namanusart, Weerasak Saksirirat and Waraporn Tanthanuch**  
FTIR Spectroscopic Analysis of Luminescent Mushroom (*Neonothopanus nambi* Speg.) Induced Disease Resistance against Tomato Root-Knot Nematode, *Meloidogyne incognita* Chitwood
- 937-940**     **Ashish Gaurav, M. Afjal Ahmad, Hari Singh Meena, R.P.N. Saxena and Pravin Prakash**  
Induction of Growth and Physiological Parameters in Chickpea (*Cicer arietinum* L.) by Plant Growth-promoting Rhizobacteria under Salinity stress
- 941-946**     **B.V. Pavitra and M.N. Sreenivasa**  
Detection and Quantification of Plant Growth Hormones by High Power Liquid Chromatography from Purple Non Sulphur Bacterial isolates

CONTENTS

- 947-957 Assiri Klangsawad and Petcharat Thummabenjapone**  
Antagonistic Streptomyces-PR87 Application, Improves Significantly Growth, Yield, and Fruit Qualities of Greenhouse Tomatoes
- 959-966 Mina Owrang, Fatemeh Fallah, Shiva Irani, Mohammad Rahbar and Gita Eslami**  
Distribution of IS*Aba1* and IS*Aba2* among OXA-type Carbapenemase-Producing Clinical Isolates of *Acinetobacter baumannii* from Hospitals in Tehran, Iran
- 967-978 S.K. Hemida and M. A. Abdel-Sater**  
Biodiversity of Soil and Air-Borne Fungi in the Northern Border Region of Saudi Arabia
- 979-986 Ramezan Ali Ataee, Vahide Zare, Alishiri Gholam Hossein, Davood Esmaeili and Mahdi Tata**  
Real Time RT RCR Detection of mRNA encoding Enterotoxin B *Staphylococcus aureus* in Synovial fluid of Patients with Rheumatoid arthritis
- 987-989 Wanwisa Dodgson, Nisarati Siriwatanametanon, Sujira Maneerat and Jolyon L.A. Dodgson**  
Rapid Test for Detection of Hepatitis B Virus in Human Breastmilk
- 991-1013 Noura El-Ahmady El-Naggar, E.A. Metwally, A.B. El-Tanash and A.A. Sherief**  
Statistical Optimization of Culture Conditions and Overproduction of Inulinase using Low Cost, Renewable Feedstocks by a Newly Isolated *Aspergillus sclerotiorum* under Solid-State Fermentation Conditions: Inulin Hydrolysis by Partially Purified Inulinase
- 1015-1020 Abdulsadah A. Rahi and Magda A. Ali**  
A First DNA Sequencing of Hydatid Agent Isolated from Human in Iraq
- 1021-1025 Morteza Khani, Anis Radbeh, Hamed Nikzad, Zinat Mohammadi and Mohammad Zolfaghari**  
Isolation and Identification of Biosurfactant-Producing Bacteria in the Waters of Bandar Abbas and Determination of the Surface Tension Activity
- 1027-1032 M.B. Moghadam, M. Montazer, A. Nazari, G. Roshani and M. Ataei**  
Comparison of RSM and ANN Optimization Methods in Determining Antibacterial Properties of Cotton against *E. coli*
- 1033-1036 Nichapa Pienpatanakij, Napatsawan Armin and Nattamon Niyomdech**  
Comparing the Results of Microbiological Sterilization by Autoclaving in Different Waste Packaging Formats
- 1037-1041 Nawaf Raja R. Alshammari, Samir Qiblawi, Mamoun Shaded and Ashfaque Hossain**  
Synergistic Antimicrobial Activity of Aqueous Extract Date Palm (*Phoenix dactylifera*) and Almond (*Prunus dulcis*) with Amoxicillin Against *Pseudomonas aeruginosa* and *Acinetobacter baumannii*
- 1043-1054 N. Amruta, M.K. Prasanna Kumar, S. Narayanaswamy, Malali Gowda, B.C. Channakeshava, K. Vishwanath, M.E. Puneeth and H.P. Ranjitha**  
Isolation and Identification of Rice Blast Disease - Suppressing Antagonistic Bacterial Strains from the Rhizosphere of Rice

## CONTENTS

- 1055-1060** **Mukesh Srivastava, Sonika Pandey, Mohammad Shahid, Anuradha Singh, Vipul Kumar, Shubha Trivedi, Manoj Kumar Maurya, Yatindra Kumar Srivastava, Ved Ratan and D.K. Srivastava**  
Nanotechnology and Agriculture: A review
- 1061-1080** **R.K. Naresh, Ashish Dwivedi, R.K. Gupta, R.S. Rathore, S.S. Dhaliwal, S.P. Singh, Pardeep Kumar, Robin Kumar, Vikrant Singh, Vineet Singh and Onkar Singh**  
Influence of Conservation Agriculture Practices on Physical, Chemical and Biological Properties of Soil and Soil Organic Carbon Dynamics in the Subtropical Climatic Conditions: A Review
- 1081-1087** **K. Sureshkumar, B. Hariharan and R. Vidyalakshmi**  
Microbiological Quality of Fresh Cut Fruit Salad Sold in Thanjavur City
- 1089-1098** **Showket Ahmad Dar and S.A. Padder**  
Toxins and Targets of Insecticidal Genes of Entomopathogenic Bacteria: A Review
- 1099-1107** **G.K. Dhillon, A. Kaur, Suresh Bhise and P. Ahluwalia**  
Synergistic Effect of Spices and Herbs on Rheological and Bread Making Properties of Wheat Flour
- 1109-1115** **Asma Fayaz, Latief Ahmad and Purshotam Singh**  
Vermi-Composting: An Effective Technique to Recycle Wastes into Valuable Organic Fertilizer: A Review
- 1117-1129** **Shilpam Sinha and Richa Raghuvanshi**  
Synergistic Effect of Arbuscular Mycorrhizal Fungi and Mycorrhizal Helper Bacteria on Physiological Mechanism to Tolerate Drought in *Eclipta prostrata* (L.) L
- 1131-1134** **P.S. Arpitha and G.P. Brahmprakash**  
Evaluation of Different Packaging Materials for Microbial Inoculants
- 1135-1139** **Nargis Alom Choudhury, Debadatta Dhar (Chanda), Nivedita Das Gupta, Anand Prakash Maurya, Atanu Chakravarty and Amitabha Bhattacharjee**  
Characterization of Plasmid-mediated Quinolone Resistance within Clinical Isolates of Enterobacteriaceae: Study from Northeast India
- 1141-1145** **Shrishti Lingwal, Vishwanath, A. Srinivasaraghavan, Ramanna Koulagi and N. Vijay**  
Effect of Sterilization on Antifungal Properties of Various Components of Panchgavya-tested Against *Rhizoctonia solani* Causing Sheath Blight of Paddy
- 1147-1158** **Ghada A. Youssef**  
Microbiological Quality and Physicochemical Parameters of Alexandria drinking Water and Zamzam water
- 1159-1166** **Hitesh Jasani, Nimita Umretiya, Darshan Dharajiya, Manthan Kapuria, Shilpa Shah and Jagdish Patel**  
Isolation, Optimization and Production of Cellulase by *A. niger* from Agricultural Waste

## CONTENTS

- 1167-1174 P. Onkara Perumal and Y. Pydi Setty**  
Meta-Analysis of Microarray Data and Integrated Pathway Enrichment Analysis Hints Novel Gene Signatures Associated with Pathogenesis of Obesity in *Rattus norvegicus*
- 1175-1180 Mohammad Shahid, Mukesh Srivastava, Sonika Pandey, Anuradha Singh, Shubha Trivedi, Yatindra Kumar Srivastava, Ved Ratan and D.K. Srivastava**  
Influence of *Trichoderma harzianum* on Wilt Disease in Chickpea Seedlings caused by *Fusarium* species
- 1181-1188 Harshal Kharkar, Kunal Kale and Prashant Thakare**  
Molecular Characterization of *Pyricularia grisea* Isolates using AFLP DNA Fingerprinting
- 1189-1196 N. Rani and Yashoda R. Hegde**  
Investigations on Cultural, Morphological and Pathogenic Variability among Isolates of *Fusarium oxysporum* Causing Wilt of Fenugreek
- 1197-1210 Ankita Sharma, Karuna Dhiman, Zeba Ansari and Poonam Shirkot**  
Thermostable Lipase Production by *Aneurinibacillus thermoaerophilus* MBW2 Strain Isolated from Indian Hot Water Spring
- 1211-1222 Robin Kumar, B.P. Dhyani, Vivak Kumar, Amit Mishra, Rajiv Kumar, Ashish Dwivedi, Vineet Kumar, Lalit Kumar Rolaniya, Madhuri Gupta and Swati Tyagi**  
Effect of Fertigation and Residue Management on Performance of Direct Seeded Rice and Soil Biological Health Under Rice Wheat Rotation in Indo-gangetic Plain Zone of India
- 1223-1232 B.N. Meena, R.N. Pandey and Dama Ram**  
Seed Bio-Priming for Management of Root Rot and Blight of Mungbean Incited by *Macrophomina phaseolina* (Tassi) Goid. and *Rhizoctonia solani* Kuhn
- 1233-1242 N.K. Yadav, K.S. Nirania and Anupam Maharshi**  
Evaluation of Cotton Germplasm for Source of Resistance against Cotton Leaf Curl Disease
- 1243-1250 Abhishek Mishra, Mohammad Shahid, Supriya Dixit, Sonika Pandey, Mukesh Srivastava and Ved Ratan**  
Morpho-Molecular Identification of *Trichoderma asperellum* CA-03/9840
- 1251-1260 B.V. Gondhali, T.A. More, R.M. Naik, K.S. Raghuwanshi and P.K. Lokhande**  
*In vitro* Bioefficacy of Different Antimicrobial Peptides Against Different Pathovers of *Xanthomonas* Using Paper Disc and Micro-Dilution Broth Method
- 1261-1268 S.R. Macwan, S.C. Parmar, J.B. Prajapati and K.D. Aparnathi**  
Evaluation of Cheddar Cheese Whey and Paneer Whey as a Growth Medium for Lactic Acid Bacteria
- 1269-1276 Shashi Prabha, Ashwani Yadav, Akanksha Sharma, Hemant Kumar Yadav, Sujit Kumar and Rajendra Kumar**  
Plant Immune System: Plant Disease Resistance Genes and its Applications
- 1277-1284 Madhuri Meena, A.C. Shivran, P. Deewan and R. Verma**  
Biofortification of Coriander (*Corianderum sativum*) Variety with Sulphur and Zinc for Higher Productivity

CONTENTS

- 1285-1292 Harshraj Kanwar, Amit Trivedi, Brajnandan Singh Chandrawat and Shanti Kumar Sharma**  
Progression of Powdery Mildew, Alternaria Blight and Bacterial Leaf Blight of Cluster Bean in Relation to Weather Parameters
- 1293-1302 Vikram C. Solanki and Prateek Shilpkar**  
Vermicomposting of De-Oiled Cake of *Brassica juncea* by *Eisenia foetida*
- 1303-1309 Avinash Kumar Rai, Amitava Rakshit, Sumit Rai, Manoj Parihar and Visal Seth**  
Factors Responsible for Phosphorus Uptake Efficiencies of Crop Species in Hot Sub Humid Eco-region of Middle Gangetic Plains of India
- 1311-1317 A.S. Thounaojam, A.D. Patel, A.Y. Makani, N.N. Chaudhary and D.B. Nakarani**  
Effect of Variety, Planting Material and Plant Growth Bio-regulant on Turmeric Performance (*Curcuma longa* L.) under Middle Gujarat Condition
- 1319-1324 Gagan Kumar, J.S. Patel, S.K. Yadav, Ajay Kumar and R.P. Saxena**  
Evaluation of Coriander Germplasm Against Stem Gall Disease of Coriander (*Coriandrum sativum* L.)
- 1325-1332 Achin Kumar, Satendra Kumar, Surya Kant, Anil Kumar Shukla, Vipin Kumar and Yogesh Pal**  
Effect of Different N Levels with and without P and K on Growth, Yield and Acquisition of Nutrients by Mustard (*Brassica juncea*)
- 1333-1339 Vellaichamy Mageshwaran and Noushad Parvez**  
Gossypol Detoxification and Lysine Enrichment in Cottonseed Cake by Solid State Fermentation
- 1341-1349 Asif Ahmad Bhat, Arvind Kumar and Manpreet Kaur**  
Effect of Clove Oil on the Oxidative Stability and Microbial Quality of Almond and Walnut Enriched Chevon Nuggets
- 1351-1358 S. Karthick Raja Namasivayam, D. Jayakumar, V. Ramesh Kumar and V. Arvind Bharani**  
Gum Acacia (GA) Coated Algal Mediated Biogenic Silver Nanoparticles Synthesis (GA-AgNps) for the Potential Pharmacological Activities
- 1359-1366 Rajalaxmi S. Keshgond and S. Lingaraju**  
Studies on Biochemical Changes in Fusarium Wilt Resistant and Susceptible Genotypes during *Fusarium udum* and *Heterodera cajani* interaction in Pigeonpea
- 1367-1377 H.S. Jatav, S.K. Singh, Y.V. Singh, Alpna Paul, Vipin Kumar, Preeti Singh and Hemant Jayant**  
Effect of Biochar on Yield and Heavy Metals Uptake in Rice Grown on Soil Amended with Sewage Sludge
- 1379-1386 S.R. Macwan, J.B. Prajapati and K.D. Aparnathi**  
Hydrolysis of Proteins in Cheddar Cheese Whey and Utilization as a Growth Medium for Lactic Acid Bacteria

## CONTENTS

- 1387-1394 **Rajni Chaudhary, Subodh Kumar, H.M. Yathish, Sivakumar A., Chinmoy Mishra, Amit Kumar, Anuj Chauhan, B. Sivamani and N.R. Sahoo**  
Identification of SNPs in Beta 2 Microglobulin (b2M) Gene and their Association with IgG Concentration in Neonatal Buffalo Calves
- 1395-1401 **B.V. Gondhali, T.A. More, S.S.Pawar, S.A. Ranpise and V.G. Khandagle**  
Standardization of In vitro Regeneration Protocol for Pomegranate (*Punica granatum* L.) var. Bhagwa Using Different Media Composition
- 1403-1408 **Pradeep Kumar Choudhary, Ashok Kumar Bhatia and Anjana Goel**  
Efficacy of Antimicrobial and Antioxidant Activity of *Solanum xantocarpum* Whole Plant Hot Aqueous Extracts
- 1409-1414 **C. Shiny Matilda and C. Shanthi**  
Evaluation of Suitability of Primary Growth Models to Fit Bacterial Growth Under Metal Stress Conditions
- 1415-1420 **Manu Sharma, Smita Singh, Dilip Kumar and Yogesh K. Rathor**  
Shelf Life Enhancement of *Paneer tikka* by Modified Atmospheric Packaging
- 1421-1425 **H.H. Deshpande, P. Jones Nirmalnath, Madhura A. Sagarkar and C.S. Hunshal**  
Dehydrogenase Activity in the Rhizosphere Soils of Sugarbeet
- 1427-1434 **Neha Bhardwaj, Priya Batra and Vikas Beniwal**  
Biosynthesis, Cytotoxicity and Antimicrobial Effect of Silver Nanoparticle from Polysaccharide Extract of *Ganoderma lucidum*
- 1435-1442 **Baljot Kaur, Monica Sachdeva Taggar, Poonam Sharma and Manjeet Kaur Sangha**  
Purification and Characterization of Extracellular Lipase from *Pseudomonas aeruginosa* KF 853103
- 1443-1448 **Sonika Pandey, Mukesh Srivastava, Mohammad Shahid, Vipul Kumar, Anuradha Singh, Shubha Trivedi, Ved Ratan, Manoj Maurya and Y.K. Srivastava**  
Isolation, Production and Partial Characterization of Extracellular Lipase from *Trichoderma* Species
- 1449-1454 **Vora Jinal, Shilpkar Prateek and Shah Mayur**  
A Comparative Analysis of Soil Properties Under Organic and Inorganic *Triticum aestivum* (Wheat) Farm Soil
- 1455-1461 **Y.V. Singh, S.K. Singh, Sanjay Kumar Sahi, S.K. Verma, R.N. Yadav and P.K. Singh**  
Evaluation of Soil Fertility Status from Milkpur Village, Arajiline Block, Varanasi District, Uttar Pradesh, in Relation to Soil Characteristics
- 1463-1468 **Vipul Kumar, Adesh Kumar, Mukesh Srivastava, Sonika Pandey, Mohammad Shahid, Yatindra Kumar Srivastava and Shubha Trivedi**  
*Trichoderma harzianum* (Th. azad) as a Mycoparasite of *Fusarium* and Growth Enhancer of Tomato in Glasshouse Conditions

CONTENTS

- 1469-1475 J.P. Misra, Gyan Manjary Rao, Ashwani Kumar, Ashwani Yadav, Sujit Kumar, Renu Yadav, Rajendra Kumar and Seweta Srivastava**  
Molecular Assisted Breeding for Ascochyta Blight Resistance in Chickpea (*Cicer arietinum* L.) - A Review
- 1477-1483 Ashish Tiwari, Shikha Devi, Shivesh Sharma, N.K. Singh, Kanchan Viswakarma, Nitin Kumar, Neha Upadhyay, Rishi Verma, Pankaj Verma and Vivek Kumar**  
Analysis of Bulk and Pigeonpea Rhizosphere Soil in Middle Gangetic Region of Uttar Pradesh
- 1485-1490 Sandeep Kumar, Manmohan Kumar, Vishvendra, Partap Singh and C.S. Prasad**  
Laboratory Evaluation of the Bio-Pesticide and Synthetic Insecticides against Sugarcane White Grub *Holotrichia nagpurensis* in Western Plain Zone of Uttar Pradesh
- 1491-1496 Gyan Manjary Rao, Gopal Singh, Prashant Mishra and Rajendra Kumar**  
Identification of Fungal Biocontrol Agents against *Sclerotium oryzae* Causing Stem Rot of Rice (*Oryza sativa* L.)
- 1497-1503 Mohammad Shahid, Sonika Pandey, Mukesh Srivastava, Anuradha Singh, Shubha Trivedi and Yatindra Kumar Srivastava**  
*Trichoderma harzianum* Th azad/6796: From Isolation to Bioformulation
- 1505-1510 C. Padmapriya and R. Murugesan**  
Characterization of Methanolic Extract of Red Pigment from *Penicillium purpurogenum* and its Antioxidant activity
- 1511-1517 Poornima, Gururaj Sunkad, Hari K. Sudini and M.K. Naik**  
Biochemical Changes in Groundnut (*Arachis hypogaea* L.) Infected by Stem and Pod Rot Disease caused by *Sclerotium rolfsii* Sacc
- 1519-1525 Sitanshu, C. P. Srivastava and J.P. Shahi, Shiv Bahadur and Rajani**  
Screening of Maize Inbred Lines for Resistance to Stem Borer, *Chilo partellus* (Swinhoe) under Natural Infestation
- 1527-1532 S.K. Shukla, A Chauhan, S. Shukla, M. Panigrahi, B. Bhushan, S. Maurya, Sarvjeet, R. Maurya, S. Kumar, C. Prakash, V.K. Saxena and R.V. Singh**  
Screening of Bovine Tuberculosis Cattle using the Tuberculin Skin Test in Barsana
- 1533-1539 R. Rangeshwaran, V. Velavan, Frenita M. Lewis, Surabhi Kumari, A.N. Shylesha, M. Mohan, Satendra Kumar and G. Sivakumar**  
Cloning, Expression and Bioassay of Vip3A Protein from an Indigenous *Bacillus thuringiensis* Isolate
- 1541-1546 Mohammad Shahid, Sonika Pandey, Mukesh Srivastava, Anuradha Singh, Shubha Trivedi and Y.K. Srivastava**  
Identification of Three Biocontrol Genes (ech-42, chit-HAR3 and Xyn2) Involved in Fungal/Bacterial Cell Wall Degradation in *T. harzianum* (Th Azad/6796)
- 1547-1552 T.M. Shruthi, S.L. Budihal, Sidharam Patil, C.P. Sankalpa and Eresha**  
A Comparative Study on Properties of Black Soils Derived from Different Parent Materials

## CONTENTS

- 1553-1558 **Ramdayal Meena, R.P. Andhale and Raj Kumar Meena**  
Effect of Shade Net Colours, Its Intensity and Fertilizer Levels on Growth and Yield of Beetroot (*Beta vulgaris* L.)
- 1559-1563 **Vijay Prajapati, N. Sasidharan, Nishit Soni, Ankita Patel and Pravin Prajapat**  
Genetic Analysis of Pigeonpea (*Cajanus cajan* L. Millsp.) Genotypes for Fusarium wilt using Microsatellite Markers
- 1565-1571 **Saraswathi, Vishawanath Shetty, M. Ashwini, V.P. Santhosha and Netravati**  
Studies on Fertilizer use Efficiency in Ragi (*Eleusine coracana* L.) Under Rainfed Conditions
- 1573-1578 **M.R. Aruna, D.J. Mukesh Kumar, D. Senbagam and B. Senthilkumar**  
Investigation on Phytochemical and Antimicrobial Properties of Tuber Extracts of *Pueraria tuberosa* Linn
- 1579-1584 **S.K. Shukla, A Chauhan, S. Shukla, M. Panigrahi, B. Bhushan, S. Maurya, Sarvjeet, R. Maurya, Vinay K. Saxena, S. Kumar, C. Prakash and R.V. Singh**  
Detection and Identification of Bovine Tuberculosis in Indian Cattle (*Bos indicus*)
- 1585-1589 **Anil Taku, Gulzar Ahmad Badroo, Sabahat Gazal, Irfan Ahmad Mir, Mohd Altaf Bhat, Rajinder Kumar Bhardwaj, Rajni Kanta Sharma, Amitoz Kour, Hamid Shah and Faizan Javaid**  
Prevalence and Bacteriological Examination of Clinical and Sub-clinical Cases of Caprine Mastitis in Jammu, India
- 1591-1598 **Shubha Trivedi, Mukesh Srivastava, Sonika Pandey, Vipul Kumar, Anuradha Singh, M. Shahid and Yatindra Srivastava**  
Antagonism and Hyphal Relationship between *Trichoderma* spp. and *Fusarium oxysporum-Rhizoctonia bataticola* causing Wilt Complex in Chickpea
- 1599-1602 **T. Jaya Chandra, S. Senthil Kumar, R. Selvaraj and Y.V. Sharma**  
Same Day Sputum Smear Microscopy for the Diagnosis of Pulmonary Tuberculosis: ZN Staining Versus Reverse ZN Staining
- 1603-1606 **N.D. Punit Kumar, C. Karegowda, K.B. Rudrappa, M. Mahesh, T.G. Manu, R. Murali, H. Nagaraj, B. Mahantesh and T.H. Kavita**  
Influence of Carbon, Nitrogen, Temperature and pH on the Growth of *Cercospora nicotianae* Causes Frog Eye Leaf Spot Disease of Tobacco
- 1607-1612 **Yasemin Gulecal-Pektas**  
Culture-Dependent and Culture-Independent Characterization of Microbial Communities in Hot springs of Bursa, Turkey
- 1613-1617 **A. Viji Amutha Mary and S. Justin Samuel**  
Laccase: Production and Purification by *Pseudomonas aeruginosa*
- 1619-1622 **R.N. Maurya, Shiv Bahadur, Mani Ram, R.A. Yadav, Lala Ram and Arvind Kumar**  
Growth, Yield and Quality of Wheat (*Triticum aestivum* L.) as Influenced by Integrated Nutrient Management



CONTENTS

- 1623-1627 Saket Kumar, Vineeta Singh, Rajesh Singh and Major Singh**  
Selection of Effective Fungicide for *Colletotrichum capsici* Growth and Determination of Minimum Inhibitory Concentration of Fungicide
- 1629-1632 Priyanka Swami, Anupam Maharshi and Ram Niwas**  
Effect of Weather Variability on Phenological Stages and Growth Indices in Bt-cotton under CLCuD Incidence
- 1633-1636 Sudhir Kumar, Dilip Kumar and Reeta**  
Evaluation of the Bacteriological Quality of Indian Cheese (Paneer) Sold in Some Locations Within Varanasi City
- 1637-1640 Surajyoti Pradhan, J.S. Bohra, Shiv Bahadur, Rajani and Lala Ram**  
Effect of Fertility Levels and Cow Urine Application on the Performance of Indian Mustard [*Brassica juncea* (L.) Czernj. & Cosson]
- 1641-1644 J. Raju, Nagarajappa Adivappar, K. Jayalakshmi, P. Narayanaswamy, H.B. Narasimhamurthy, S. Shivanna and H. Ravindra**  
Evaluation of Chemicals and Bioagents for Managing Phytophthora Root Rot and Root-knot Nematode Disease Complex in Capsicum under Naturally Ventilated Polyhouse
- 1645-1647 Asmabegaum Biradar and Trupti B. Naik**  
A Study of Laboratory Profile of Fever with Thrombocytopenia
- 1649-1654 Meenu and Neelam Joshi**  
Screening and Characterization of Triazophos Tolerant Bacteria from Soil
- 1655-1661 Ronak Prajapati, R.V. Vyas, H.N. Shelat and H.K. Patel**  
Qualitative Validation of Native Diazotrophs Through *nifH* gene and Whole Cell Protein Profiling
- 1663-1670 Sanjay K. Shahi, Neeraj Kumar Vaishya, Anil Kumar Sharma, P.K. Sharma, Y.V. Singh, Jilajeet Dubey and I.K. Kushwaha**  
Effect of Integrated Nutrient Management (INM) on Soil Properties and Performance of Rice Crop (*Oryza sativa* L.)