

ICPEP-5



Scientific Programme

Fifth International Conference On Plants & Environmental Pollution

24-27 February, 2015

Organised by
International Society of Environmental Botanists
&
CSIR-National Botanical Research Institute
Lucknow, India

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Prof. Kumkum Mishra

Dr. Debasis Chakrabarty

Dr. Amit Kumar Gupta

Dr. Francisco J. Corpas (Spain)

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DR. PRAKASH CHANDRA HALL Session S-IX: Environmental Impact

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(The session dedicated to Late Prof. H.S.

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ORAL SESSION Tuesday, February 24, 2015

| | NBRI AUDITORIUM |
|-------------|---|
| 12.30-14.00 | Session S-I: Climate Change |
| | Chairperson: C.S. Nautiyal |
| | Co-chairperson: Y.K. Sharma |
| | Rapporteur: P.A. Shirke |
| 12.30-13.05 | Keynote Lecture SI/KN-1: Climate Change and Global Food Security: Challenges and Opportunities V.R. Reddy (USA) |
| 13.05-13.30 | <u>Lead Lecture</u> SI/L-1: Climate Change Studies in India with Various Approaches, Simulation and Modelling S.B. Pal*, Amit K. Thakur, Pratik More and Abhishek Laha (India) |
| 13.30-13:42 | Oral Presentation SI/O-1: Pollen Records of Vegetation and Climate Change in the Northern Region of Chhattisgarh, India During the Late Quaternary Period: Signatures of Global Younger Dryas and Period of Climatic Optimum M.F. Quamar* and S.K. Bera (India) |
| 13:42-13-54 | SI/O-2: Free Air CO ₂ Enrichment of Wheat: Impact on Growth, Photosynthesis, Yield and Proteome Vivek Pandey*, Farah Deeba, Marisha Sharma, Sunil K. Gupta and Vivek K. Maurya (India) |
| 14.00-15.00 | Lunch Break |
| 15.00-17.00 | Session S-I: Climate Change (Continued) |
| | Chairperson: V.R. Reddy Co-chairperson: L.B. Singha Rapporteur: Vivek Pandey |
| 15.00-15.35 | Lead Lecture SI/L-2: Predicting Climate Change Driven Species Extinction based on Climatic Niche Modelling in Eastern Himalayas S. K. Barik* and D. Adhikari (India) |
| | Oral Presentations |
| 15.35-16.00 | SI/O-3: Impact of Climate Change on Medicinal Plants in India: A Review L.P. Deshmukh (India) |
| 16.00-16.12 | SI/O-4: Adaptability of <i>Commiphora wightii</i> (Guggul), A Desert Medicinal Plant towards Climate Extreme: A Metabolomics Approach OP Sidhu*, Anil Bhatia and Raja Roy (India) |
| 16.12-16.24 | SI/O-5: Range Shift of Plant Communities in Temperate and Alpine Forests of Eastern Himalayas Due to the Changes in Climatic Regimes and Human Interventions L.B. Singha*, M.L. Khan and R.S. Tripathi (India) |
| 16.24-16.36 | SI/O-6: Effect of Multi-Polarized Microwave Data on Tropical Forest Biomass Assessment using Geospatial Modelling Laxmi Kant Sharma (India) |
| 16.36-16.48 | SI/O-7: Climate Change and Mountain Lives: A Case Study of a Mountain in Central Garhwal Himalaya, India Uday Nand Gaur (India) |
| | |

| 16.48-17.00 | SI/O-8: Evaluation of Sensitivity among Six Cultivars of <i>Trifolium alexandrinum</i> L. by using Phenotypical, Physiological and Biochemical Characteristics under Ambient and Elevated Levels of Ozone Nivedita Chaudhary* and S.B. Agrawal (India) |
|-------------|---|
| 17.00-17.30 | Tea Break |
| 17.30-18.30 | POSTER SESSION |
| | SI/P1-P20 |
| | SII/P1-P28 |
| | SVI/P1-P58 |
| | SIX/P1-P17 |

| PROF. SAGAR KRUPA HALL | |
|------------------------|---|
| 12.30-14.18 | Session S-VI: Bioindication and Bioremediation |
| 12.50 14.10 | Chairperson: D.P. Singh |
| | Co-chairperson: Ram Chandra |
| | Rapporteur: U.N. Rai |
| | |
| | Keynote Lecture |
| 12.30-13.05 | SVI/KN-1: Bioremediation for Boosting Bioeconomy |
| | M.N.V. Prasad (India) |
| | Lead Lecture |
| 13.05-13.30 | SVI/L-1:Ecosystem Services: Bioindication and Biomonitoring Technologies in |
| 10000 10000 | Environmental Quality Assessment |
| | Bernd Markert*, Stefano Loppi, Bert Wolterbeek and Simone Wünschmann (Germany) |
| | |
| 12.20.12.12 | Oral Presentations |
| 13.30-13.42 | SVI/O-1: General Review: Fungal Bioremediation of Heavy Metals Contamination in Saudi |
| | Arabia A.R.H. Binsadiq (Saudi Arabia) |
| | A.K.II. Binsdaiq (Saudi Alabia) |
| 13.42-13.54 | SVI/O-2:Biological Wastewater Treatment using a Gram-Positive Bacteria Isolated from |
| | Wastewater |
| | Benmalek Yamina* and Fardeau Marie-Laure (Algeria) |
| | |
| 13.54-14.06 | SVI/O-3:Phytoremediation is a Good Step for Protection of Soil and Crop |
| | Preeti Sonkar*, Vinit Kumar and N.C. Puskar (India) |
| 14.06-14.18 | SVI/O-4: Bioremediation of Pentachlorophenol Contaminated Soils: Microbiological Methods |
| 1 1100 1 1110 | for Feasibility Assessment and Monitoring |
| | N. Hechmi,* H. Abdenacceur and N. Jedidi (Tunisia) |
| 14.18-15.00 | Lunch Break |
| 15.00-17.00 | Session S-VI: Bioindication and Bioremediation (Continued) |
| | Chairperson: Rana Pratap Singh |
| | Co-chairperson: Bernd Market (Germany) |
| | Rapporteur: Pankaj Kumar Srivastava |
| | Oral Presentations |
| 15.00-15.12 | SVI/O-5: Adsorptive Bioremediation of Heavy Metals from Gangetic Plains |
| 20.00 10.12 | Leena Singh and Ansar Anjum* (India) |
| | |
| 15.12-15.24 | SVI/O-6: Evaluation of Phenol Remediation By Various Microalgal Strains |
| | Bhaskar Das*and Sanjukta Patra (India) |
| 15 24 15 26 | |
| 15.24-15.36 | SVI/O-7:Potentials and Limitations of Phytoremediation in Tropical Agro-Climatic Conditions |
| | Rana Pratap Singh (India) |
| | Tund I map singh (man) |

| 15.36-15.48 | SVI/O-8: Monitoring of Herbicide (MH) Toxicity by Using Pollen as Indicators Pollen of Mung - A Critical Review S.A. Salgare (India) |
|-------------|---|
| 15.48-16.00 | SVI/O-9: Hydro-Chemical Evaluation for Seasonal Variation of Fluoride in Agricultural Tubewells Using Multivariate Statistical Approach S. K. Jha, * Y. K. Sharma, A. K. Nayak, T. Damodaran, V.K. Mishra, D.K. Sharm, S. Srivastava and C.S. Singh (India) |
| 16.00-16.12 | SVI/O-10: Phytoremedation of Heavy Metal Contaminated Soils: A Potentially Promising Clean-Up Technology K. K. Tiwari (India) |
| 16.12-16.24 | SVI/O-11: A Novel Approach to Modelling of an Aerobic Hybrid Bioreactor Treating Easily Biodegradable Substances Sushovan Sarkar* and Debabrata Mazumder (India) |
| 16.24-16.36 | SVI/O-12: Synergistic Influence of <i>Vetiveria zizanioides</i> and Selected Rhizospheric Microbial Strains: Application to Enhanced Remediation of Endosulfan Contaminated Soil <i>Vandana Singh*</i> , <i>Pratiksha Singh and Nandita Singh</i> (India) |
| 16.36-16.48 | SVI/O-13: Sustainable Phytomanagement of Fly Ash Dumps Based on Naturally Colonizing Plants Vimal Chandra Pandey* and Nandita Singh (India) |
| 16.48-17.00 | SVI/O-14: Biomixtures for Prevention of Point Source Pollution of Pesticides Santanu Mukherjee*, Wolfgang Tappe, Diana Hofmann, Stephan Köppchen, Ulrich Disko, Lutz Weihermülle, Peter Burauel and Harry Vereecken (Germany) |
| 17.00-17.30 | Tea Break |
| 17.30-18.30 | POSTER SESSION |
| | SI/P1-P20 |
| | SII/P1-P28 |
| | SVI/P1-P58 |
| | SIX/P1-P17 |

| DR. PRAKASH CHANDRA HALL | |
|--------------------------|---|
| 12.30-14.06 | Session S-IX: Environmental Impact Assessment |
| | Chairperson: M.N.V. Prasad |
| | Co-chairperson: Hazem M. Kalaji (Poland) |
| | Rapporteur: K.K. Tiwari |
| 12.30-12.42 | Oral Presentations SIX/O-1: OJIP Test Analysis as a Tool to Predict Environmental Pollution Hazem M. Kalaji, M.N.V. Prasad, Magdalena D. Cetne, Izabela A. Samborsk, Izabela Lukasik, Vasilij Goltsev and D.K. Saxena* (Poland) |
| 12.42-12.54 | SIX/O-2: Variations in Groundwater Chemistry under Different Vegetation types in Delhi, India Parul Gupta*and Kiranmay Sarma (India) |
| 12.54-13.06 | SIX/O-3: Air Quality Status of Moradabad City During Deepawali Festival Raina Pal*, Aprajita Singh, Akhil Gupta and Anamika Tripathi (India) |
| 13.06-13.18 | SIX/O-4: Assessment of Growing Ambient Noise Pollution in Ranchi Urban Environment using Geospatial Techniques Amit Kumar* and A.C. Pandey (India) |

| 13.18-13.30 | SIX/O-5: Seasonal Study of Physiochemical and Biological Characteristics of Five Wetlands of District Mainpuri (U.P.) Amita Sarkar (India) |
|-------------|--|
| 13.30-13.42 | SIX/O-6: Assessment of Noise Pollution in the City of Bathinda, Punjab Sukhjeet Kaur and Puneeta Pandey* (India) |
| 13.42-13.54 | SIX/O-7: Artisanal and Small Scale Mining of Limestone in Meghalaya, India and its Effect on Quality of Water R. Eugene Lamare* and O.P. Singh (India) |
| 13.54-14.06 | SIX/O-8: Greenbelt Designing and Development for Industrial Pollution Abatement Ramesh Maday*, Prachiti Mule and Dhananjay Rawool (India) |
| 14.06-15.00 | Lunch Break |
| 15.00-17.00 | Session S-IX: Environmental Impact Assessment |
| | Chairperson: M.N.V. Prasad |
| | Co-chairperson: Hazem M. Kalaji (Poland) |
| | Rapporteur: Sudhakar Srivastava |
| | •• |
| | Oral Presentations |
| 15.00-15.12 | SIX/O-9: Fluoride an Overview: Boon or Bane |
| | Alka Singh* and M. Singh (India) |
| | |
| 15.12-15.24 | SIX/O-10: Environmental Impact Assessment of Natural Resources using RS And GIS |
| | Approach in Kashmir Himalayan Valley |
| | Nayar A. Kirmani*, Baba Abid Muslim, Ikhlaq Mir and F.A. Lone (India) |
| | |
| 15.24-15.36 | SIX/O-11: High Dissolved Aluminum in Water Resources of Ganga Alluvial Plain and its |
| | Implication to Waste Management Plans |
| | Dharmendra Kumar Jigyasu*, Nupur Srivastava, Indra Bir Singh, Munendra Singh and Sandeep |
| | Singh (India) |
| 15.36-15.48 | SIX/O-13: Effects of Physicochemical Properties on Heavy Metals in Soils of Yelagiri Hills, |
| 13.30-13.40 | Tamilnadu, India Using Multivariate Statistical Analysis |
| | A. Chandrasekaran, * A. Rajalakshmi, N. Harikrishnan, R. Ravisankar, K.K. Satapathy, M.V.R. |
| | Prasad and K.V.Kanagasabapath (India) |
| | Frasaa ana K.v.Kanagasabapan (maa) |
| 15.48-16.00 | SIX/O-14: Environmental Impact Assessment of Paint Industry- A Case Study |
| 13.40-10.00 | A. Singhal and R. Patil* (India) |
| | 11. Suighai ana R. Faiti (mala) |
| 16.00-16.12 | SIX/O-15: About Gases of Chimney Number 101 of Jam Petrochemical Company in The |
| 10.00 10.12 | Years: January, February, March and April 2010 |
| | Amirhossein Ashouri* and Bahareh Sadhezari (Iran) |
| | |
| 16.12-16.24 | SIX/O 16: Measurement of Polycyclic Aromatic Hydrocarbons in Low Income Houses Using |
| | Kerosene as Cooking Fuel |
| | Rekha Kashyap*, H.G. Sadhu, P. Doctor, S. Raghavan, J.A. Shah, M.M. Mansuri, C. Chavda, Y. |
| | Saraswa, H. Bhavsa and K. Vaishnav (India) |
| 16 24 16 26 | CIV/O 17. Level Weeder Evolution of Their Peter 4:-1 |
| 16.24-16.36 | SIX/O-17: Local Weeds: Evaluation of Their Potential |
| | Sadhna Pandey (India) |
| 16.36-16.48 | SIX/O-18: Change in Environment at Dehradun and its Impact |
| 10.50-10.40 | Shalini Singh (India) |
| 17.00-17.30 | Tea Break |
| 17.30-18.30 | POSTER SESSION |
| 17.50-10.50 | SI/P1-P20, SII/P1-P28, SVI/P1-P58, SIX/P1-P17 |
| | 31/F1-F20, 311/F1-F20, 3 V1/F1-F30, 31X/F1-F1/ |
| | |

ORAL SESSION Wednesday, February 25, 2015

| NBRI AUDITORIUM | |
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| 10.00-11.30 | Session S-V: Plant Response to Environmental Stress: The session dedicated to Late |
| | Prof. H.S. Srivastava |
| | Chairperson: P.V. Sane |
| | Co-chairperson: R.P. Singh |
| | Rapporteur: Seema Mishra |
| 10.00-10.05 | About Prof. H.S. Srivastava and Prof. H.S. Srivastava Foundation for Science and Society by Prof. R.P. Singh |
| 10.05-10.40 | Keynote Lecture SV/KN-1: Deficiency and Toxicity of Micronutrients and Related Elements in Plants H. Küpper (Germany) (Prof. H.S. Srivastava Memorial Lecture) |
| 10.40-11.05 | Lead Lecture SV/L-1: Insight into the Kinetics and Cellular Processes Caused by Short Term Nickel Exposure in Elodea Canadensis Leaves Maria G. Maleva, Przemysław Malec, M.N.V. Prasad and Kazimierz Strzałka* (Poland) |
| | Maria G. Maieva, 172emysiaw Maiec, M.N.7. 17asaa ana Kazimierz Sirzaika (1 Galia) |
| 11.05-11.17 | Oral Presentations SV/O-1: A Responses of Allium cepa L. Root Meristematic Cells to the Arsenic (III) Contaminated Groundwater in Eastern Parts of Burdwan District, W.B., India: A Molecular Cytogenetic Approach |
| | Abhijit Bandyopadhyay (India) |
| 11.17-11.29 | SV/O-2: Response of Duckweed to Lead Bioaccumulation and Potential use as Bioindicator Ahmad K. Hegazy*, A.A. El-Khatib, H.F. Kabiel and A.A. Alatar (Egypt) |
| 11.29-11.41 | SV/O-3: Suitability of Treated Brewery Effluent as Liquid Fertilizer for Growth and Yield Improvement in two Genotypes of Soybean (Glycine max L. Miller) Otitoloju Kekere* and Ajoke Mary Kolade (Nigeria) |
| 11.40-12.00 | Tea Break |
| 12.00-13.30 | Session S-II: Environmental Biotechnology |
| 12.00 10.00 | Chairperson: Rishikesh P. Bhalerao (Sweden) |
| | Co-chairperson: Mohan Siwakoti (Nepal) Rapporteur: P.K. Trivedi |
| 12.00-12.25 | Keynote Lecture SII/KN-1: Engineering Plants for Detoxification and Phytoremediation of Arsenic and Production of Biofuels and Bioproducts on Contaminated Sites Om Parkash Dhankher*, Sudesh Chhikara, Bibin Paulose and Kundan Kumar (USA) |
| 12.25-12.50 | <u>Lead Lecture</u> SII/L-1: Biotechnological Approaches for Conservation of an Endangered Forest Tree Species Givotia rottleriformis Griff. used in Toymaking Industry Ramaswamy Nanna* and Rambabu Marda (India) |
| 12.50-13.02 | Oral Presentation SII/O-1: Production of Polyhydroxybutyrate (Biopolymer) by Bacillus Species Isolated from Municipal Waste. Sushil Kumar Shahi (India) |
| 13.0213.14 | SII/O-2: Naringenin and Funneliformis mosseae Facilitated Equilibrium in Redox State Synchronizes Antioxidant Network to Alleviate Oxidative Stress in Salt Stressed Cicer |

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| | arietinum L. Nodules |
| | Priyanka Singla* and Neera Garg (India) |
| 13.14-13.26 | SII/O 2: Over expression of Levergery levergery layer and a Physical policin Symthese in Tobacca Leads |
| 13.14-13.20 | SII/O-3: Over-expression of <i>Leucaena leucocephala</i> Phytochelatin Synthase in Tobacco Leads to Enhanced Heavy Metal Tolerance and Accumulation |
| | M.S.L.Sunita, S.Prashant* and P. B. Kavi Kishor (India) |
| | W.S.L.Sunita, S.I rashani * ana I. B. Kavi Kishoi (ilidia) |
| 13.26-13.38 | SII/O-4: Transcriptional Regulation of Rice Sulphate Transporter Gene Family and |
| 13.20-13.30 | Functional Characterization of Ossul1;1 under different Metal Stress |
| | Smita Kumar, * Debasis Chakrabarty, R D Tripathi, Prabodh Kumar Trivedi (India) |
| 13.38-14.30 | Lunch Break |
| | |
| 14.30-16.30 | Session S-II: Environmental Biotechnology |
| | Chairperson: O.P. Dhankher (USA) |
| | Co-chairperson: O. Kekere (Nigeria) |
| | Rapporteur: Sameer Sawant |
| | |
| 14 20 14 55 | Lead Lectures |
| 14.30-14.55 | SII/L-2: Effect of ABA and Salt Stress on Vesicular Trafficking and Root Hair Development |
| | Rishikesh P. Bhalerao (Sweden) |
| 14.55.45.00 | |
| 14.55-15.20 | SII/L-3: Recent Advances in Arsenic Accumulation and Metabolism in Rice |
| | Debasis Chakrabarty*, A. Rai, M. Shri, P.K. Verma, S. Verma, N. Gautam, P.K. Trivedi and R.D. |
| | Tripathi (India) |
| | |
| 15.00.15.00 | Oral Presentations |
| 15.20-15.32 | SII/O-5: Identification and Characterization of Molecular and Morphophysiological |
| | Responses under Excess Phosphate in Arabidopsis |
| | Devesh Shukla*, Claire A. Rinehart and Shivendra V. Sahi (U.S.A.) |
| 15.32-15.44 | CII/O (. Impact of Colimity Strong on Activity and Cone Europeanian of System Matchalining |
| 15.52-15.44 | SII/O-6: Impact of Salinity Stress on Activity and Gene Expression of Sugar Metabolizing |
| | Enzymes in Leaves and Grains of Wheat Genotypes S. Lekshmy*, K. Sairam, V. Chinnusamy and S.K. Jha (India) |
| | S. Lekshiny ', K. Sairam, V. Chimusamy and S.K. Jila (Ilidia) |
| 15.44-15.56 | SII/O-7: Salicylic Acid Induced Multiple Stress Tolerance in Plants |
| 13.44-13.30 | P.K. Singh (India) |
| | T.K. Singh (mala) |
| 15.56-16.08 | SII/O-8: miR858 is Critical for Light-Dependent Regulation of R2R3 MYB Transcription |
| 13.30-10.00 | Factors Involved in Flavonoid Biosynthetic Pathway in <i>Arabidopsis</i> |
| | Deepika Sharma*, Chitra Bhatia and Prabodh Kumar Trivedi (India) |
| | Deepina Sharma , Chara Bhana ana Fraodan Kamar Trivear (mala) |
| 16.08-16.20 | SII/O-9: Psophocarpus tetragonolobus (L.) DC An Underutilized Legume Crop Needing |
| 10.00 10.20 | Crop Improvement for Providing Household Nutrition Security |
| | Vinayak Singh, Prasant Kumar Rout and Chandra Sekhar Mohanty* (India) |
| 16.50-17.00 | Tea Break |
| 17.00-18.00 | POSTER SESSION |
| 17.00-10.00 | (Listed after Oral Presentation) |
| | SIV/P1-P50 |
| | SV/P1-P73 |
| | SVI/P59 |
| | SX/P1-P7 |
| 18.00-18.30 | Special lecture: Gita Gandhi Kingdon |
| 10.00-10.30 | Illustration from a School Environment Project |
| | By Geeta Gandhi Kingdon |
| | · |
| | This talk will describe a school environment project and discuss how scientists can help in |
| | environmental awareness raising and technological changes. |

| | PROF. SAGAR KRUPA HALL |
|-------------|--|
| 10.00-11.30 | Session S-VI: Bioindication and Bioremediation (Continued) |
| | Chairperson: Benmalek Yamina (Algerie) |
| | Co-chairperson: M.N.V. Prasad |
| | Rapporteur: S.K. Jha |
| | |
| 10.00-10.25 | Keynote Lecture SVI/KN-2: Effect of Melanoidins and Phenols on Cellular and Biochemical Parameter of |
| 10.00-10.23 | Typha Angustifolia During In-Situ and Ex-Situ Phytoremediation of Heavy Metal from |
| | Distillery Effluent Contaminated Site |
| | Ram Chandra*, Sangeeta Yadav, Vineet Kumar and Sheelu Yadav (India) |
| | |
| 40.05.40.05 | Oral Presentations |
| 10.25-10.37 | SVI/O-15: Arsenic Toxicity in Soils: Need for Fractionation and Speciation. |
| | Pankaj Kumar Srivastava*, Nandita Singh and Rudra Deo Tripathi (India) |
| 10.37-10.49 | SVI/O-16: Assessment of Anthropogenic Metal Contamination in Mumbai City using |
| | Transplanted Lichens as Bioindicators |
| | Nilesh B. Dubey* and Hemlata K. Bagla (India) |
| 10 40 11 00 | |
| 10.49-11.02 | SVI/O-17: Constructed Wetland: Ecotechnological Approach of Sewage Treatment for Conservation of Ganga River Water Quality |
| | U.N. Rai* and A.K. Upadhyay (India) |
| | on the and this operations (more) |
| 11.02-11.14 | SVI/O-18: Rehabilitation of Sodic Waste Land Through Agro-Forestry System |
| | R.C. Nainwal*, D. Singh, R.S. Katiyar, S.S. Tripathi, S.K. Sharma, S. Singh, L.K. Sharma, V. |
| | Chaturvedi and S.K. Tewari (India) |
| | SVI/O-19: Degradation and Decolourization of Distillery Wastewater Melanoidins by |
| 11.14-11.26 | Manganese Peroxidase (Mnp) Producing Bacteria |
| 11.14-11.20 | Ashutosh Yadav and Ram Naresh Bharagava* (India) |
| | |
| | SVI/O-20: Simultaneous Removal Of Chromium, Sulphate, Nitrate and Phosphate from |
| 11.26-11.38 | Synthetic Tannery Wastewater by Phytoremediation using <i>Tradescantia pallida</i> |
| 11.38-12.00 | Vibha Sinha, Kannan Pakshirajan* and Rakhi Chaturvedi (India) Tea Break |
| 12.00-13.30 | Session S-V: Plant Response to Environmental Stress |
| 12.00-13.30 | Chairperson: H. Kupper (Germany) |
| | Co-chairperson: Mohan Siwakoti (Nepal) |
| | Rapporteur: Shekhar Mallick |
| | |
| 12 00 12 12 | Oral Presentations SV(O 4. Interaction of UV P. (285-225pm). Padiation and Phytohographics on Vegetative |
| 12.00-12.12 | SV/O-4: Interaction of UV-B (285-325nm) Radiation and Phytohormones on Vegetative Growth, Photosynthetic Activities in a Few Crop Plants |
| | K. Lingakumar (India) |
| | |
| 12.12-12.24 | SV/O-5: Residue, Dissipation and Safety Evaluation of Thiamethoxam and Lambda- |
| | Cyhalothrin in Tea |
| | Bappa Ghosh*, Sankhajit Roy, Saktipada Das and Anjan Bhattacharyya (India) |
| 12.24-12.36 | SV/O-6: Toxicity of Pesticide Industry Effluent on Plant Growth and Metabolism of Mung |
| | (Vigna radiata L.) Plants and its Phytoremediation |
| | Kum Kum Mishra* and Era Senwal (India) |
| 12 26 12 12 | |
| 12.36-12.48 | SV/O-7: Effect of Lead, Cadmium and Thallium on Growth, Biochemical Parameters and uptake in <i>Lemna minor</i> |
| | Dana Mohammed*, Andrew Turner and Murray T. Brown (UK) |
| | Dana monuninea , marew Turner and marray 1. Brown (OK) |

| 12.48-13.00 | SV/O-8: Impact of Vehicular Emission Particulate on Plants T.S. Verma (Botswana) |
|-------------|--|
| 13.00-13.12 | SV/O-9: Salicylic Acid Altered Photosynthetic and Antioxidants Traits under Different Levels of Chromium (VI) in <i>Brassica juncea</i> Qazi Fariduddin* and Badar Jahan (India) |
| 13.12-13.24 | SV/O-11: Application of Soil Amendments for Reducing Cd Uptake in Amaranthus Caudatus and its Consequent Effect on Yield and Oxidative Biomarker Responses Anita Singh* and Sheo Mohan Prasad (India) |
| 13.24-13.36 | SV/O-12: The Thiol-Metalloid Relations in Arsenic Exposed Rice Seedlings Richa Dave Nagar* and R.D. Tripathi (India) |
| 13.36-14.30 | Lunch Break |
| 14.30-16.30 | Session S-V: Plant Response to Environmental Stress (Continued) |
| | Chairperson: U. N. Dwivedi Co-chairperson: Fariduddin Qazi Rapporteur: Shekhar Mallick |
| 14.30-14.42 | Oral Presentations SV/O-13: Exogenous Glutathione Protects Wheat Seedlings From Lead-Induced Oxidative Damages By Upregulating Antioxidant Defense and Glyoxalase Systems Mirza Hasanuzzaman and Masayuki Fujita (Bangladesh) |
| 14.42-14.54 | SV/O-14: Arsenic Tolerance in Rice (<i>Oryza sativa</i> L.) Involves Coordinated Role of Thiol Metabolism and Antioxidative Defense System Preeti Tripathi* and R.D. Tripathi (India) |
| 14.54-15.06 | SV/O-15: Comparative Proteomics of Roots and Leaves of Two Cotton Species Undergoingdrought Stress and Recovery at Different Growth Stages Farah Deeba* and Vivek Pandey (India) |
| 15.06-15.18 | SV/O-16: Residual Fate and Persistance Behaviour of Mixed Formulation Emamectin Benzoate 1.5% and Fipronil 3.5% EC in Chili Arijita Bhattacharyya*, Sankhajit Roy, Saktipada Dasa and Anjan Bhattacharyya (India) |
| 15.18-15.30 | SV/O-17: Urban Aerosols and Their Impact on the Biochemical Constituents of Medicinal Plants in Delhi Region, India Gyan Prakash Gupta*, Bablu Kumar, Sudha Singh and U.C. Kulshrestha (India) |
| 15.30-15.42 | SV/O-18: TiO ₂ Nanoparticles Induced Metabolic Adoptions in <i>Triticum Aestivum</i> L. <i>Poornima Vajpayee</i> (India) |
| 15.42-15.54 | SV/O-19: Physiological Responses of Cauliflower to Interaction of Salinity and Cadmium Maryam Abbasi* and Mozhgan Farzamisepehr (Iran) |
| 15.54-16.06 | SV/O-20: Physiological and Biochemical Responses of Cadmium Toxicity in Green Gram (Vigna radiata) Rajni Shukla and Yogesh K. Sharma (India) |
| 16.06-16.18 | SV/O-21: Effect Of Reducing Fertilizer Application and Aquatic Plants on Nitrogen and Phosphorus Loss in Agricultural Runoff Li Dingqiang*, Zhuo Muning, Liao Yishan, Wei Gaoling, Xie Zhenyue, and Zhang Siyi Guangzhou (China) |
| 16.18-16.30 | SV/O-22: Investigation Fluctuating Asymmetry and Elements Analysis in Several Plants' Leaves Developing in Various Degree in Condition of Pollution |

| | Afat O. Mammadova (Azerbaijan) |
|-------------|--|
| 16.30-16.42 | SV/O-23: Combined Use of EDTA and Oxalicacidpromotes Chromium Uptake, Translocation and Ameliorates Toxicity by Glutathione, Phytochelatins and Adjustments of Gas Exchange Attributes in Indian Mustard (<i>Brassica juncea L.</i>) Chandra Shekhar Seth (India) |
| 16.30-17.00 | Tea Break |
| 17.00-18.00 | POSTER SESSION |
| | (Listed after Oral Presentation) |
| | SIV/P1-P50 |
| | SV/P1-P73 |
| | SVI/P59 |
| | SX/P1-P7 |

| DR. PRAKASH CHANDRA HALL | |
|--------------------------|---|
| 10.00-11.30 | Session S-X: Eco-Education |
| | Chairperson: Arun Arya |
| | Co-chairperson: Rachana Chaturvedi |
| | Rapporteur: Sudershan Kumar |
| | |
| 10.00.10.10 | Oral Presentations |
| 10.00-10.12 | SX/O-1: Buddhism Based Local Environmental Conservation Practices: A Case Study On |
| | Sikkim Himalaya |
| | Lhanjey P. Bhutia (India) |
| 10.12-10.24 | SX/O-2: Edots_GNDUBG: An Electronic Database of Trees and Shrubs of Guru Nanak Dev |
| 10.12-10.24 | University Botanical Garden |
| | Gurveen Kaur, Bhupinder Pal Singh and Avinash Nagpal* (India) |
| | |
| 10.24-10.36 | SX/O-3: Digitization of Herbarium of Department of Botanical and Environmental Sciences, |
| | Guru Nanak Dev University, Amritsar (Series Bicarpellatae of Sub-Class Gamopetalae) |
| | Harpreet Kaur*, Bhupinder Pal Singh and Avinash Nagpal (India) |
| | |
| 10.36-10.48 | SX/O-4: Clinical Studies Of Shell Extract of Almond (<i>Prunus amygdalus</i> L.) against Tinea |
| | Infection |
| | Nasreen Thebo*, Altaf Simair, Abbasi AR, Wazir Sheikh and M. Hassan Nizamani (Pakistan) |
| 10.48-11.00 | SX/O-5: Organic Farming for Improving Environmental Health |
| 10.40-11.00 | Prawal Pratap Singh Verma [*] , Anand Singh and Manoj Kumar Yadav (India) |
| | Transa Tradep Singh Verma, Thana Singh and Thanoj Transa Tadav (India) |
| 11.00-11.12 | SX/O-6: Green Computing and Its Importance |
| | Hifzan Ahmad*, Gunjan Yadav, Gulzar Yadav (India) |
| | |
| 11.12-11.24 | SX/O-7: Nutritional Composition of Value Added Products Prepared from the Green Leafy |
| | Vegetables |
| | A. Gupta, K. Gangwar, S. Verma, S. Sheikh and H. Panday (India) |
| 11.36-12.00 | Tea Break |
| 12.00-13.30 | Session S-X: Eco-education (Continued) |
| | Chairperson: A. K. Nagpal |
| | Co-chairperson: Rachana Singh |
| | Rapporteur: C.S. Mohanty |
| | Oral Presentations |
| 12.00-12.12 | SX/O-8: Microbial Forensics |
| 12.00-12.12 | Vivek Chauhan and Archana Tiwari (India) |
| | The Comment of the Land Comment (Manu) |
| 12.12-12.24 | SX/O-9: Seaweed Cultivation Activity for Livelihood Generation in the State of Odisha |

| | S. B. Padhi* and P. K. Swain (India) |
|-------------|---|
| 12.24-12.36 | SX/O-10: Visual Pollution in an Urban and a Suburban Set up with Special Reference to Cables/Wires Milan Kumar Jana and Tanaya De* (India) |
| 12.36-12.48 | SX/O-11: Impact of Life Style on Human Health: Preservation of Biodiversity to be Made an Integral Part of Healthy Life Style Madhu Laxmi Sharma (India) |
| 12.48-13.00 | SX/O-12: Contamination of Coins with Allergenic Fungal Organisms Arun Arya* and Sita Tomar (India) |
| 13.30-14.30 | Lunch Break |
| 15.30-16.30 | |
| 16.30-17.00 | Tea Break |
| 17.00-18.00 | POSTER SESSION |
| | (Listed after Oral Presentation) |
| | SIV/P1-P50 |
| | SV/P1-P73 |
| | SVI/P59 |
| | SX/P1-P7 |

ORAL SESSION Thursday, February 26, 2015

| | NBRI AUDITORIUM |
|----------------------------|---|
| 10.00-11.30 | Session S-III: Plant-Microbe Interaction |
| | Chairperson: Alok Kalra |
| | Co-chairperson: Soud Athmani Guemouri (Algeria) |
| | Rapporteur: Puneet Singh Chauhan |
| | <u>Lead Lecture</u> |
| 10.00-10.25 | SIII/L-1: Reducing Stress Induced Damage in Crops-Role of Microbes |
| | Deepti Barnawal, Vikas Patel, Shiv S Pandey and Alok Kalra* (India) |
| | Oral Presentations |
| 10.25-10.37 | SIII/O-1: Test of In vitro Antagonism of some Strains of Paenibacillus polymyxa Towards |
| | Strain of Microdochium nivale Agent of the fusariose of the Durum Wheat |
| | Souad Athmani-Guemouri (Algeria) |
| 10.37-10.49 | SIII/O-2: Influence of Ambient and Enhanced Solar UV-B Radiation (285-325 nm) on |
| | Pseudomonas syringae (Bacterial Brown Spot) induced Pathogenicity in Vigna radiata L. |
| | M. Veeralakshmi*, A. Asha and K. Lingakumar (India) |
| 10.49-11.01 | SIII/O-3: Differential Impact of Native and Exotic Arbuscular Mycorrhizal Fungi on Nutrient |
| | Uptake and Yield in Two Genotypes of Salt-Stressed Cajanus Cajan (L). Millsp. |
| | Rekha Pandey*and Neera Garg (India) |
| 11.01-11.13 | SIII/O-4: Plant Growth Promoting Rhizobacteria as a Tool for Sustainable Agricultural |
| 11.01 11.10 | Sapna Gupta* and Ruchi Seth (India) |
| | |
| 11.13-11.25 | SIII/O-5: Exploring inoculation Protocol for the Improved Effectiveness of Beneficial |
| | Microorganisms in Biocontrol for Sustainable Agriculture Vidhi Chaudhary*, Rama Pasricha and Rekha Kathal (India) |
| 11.30-12.00 | Tea Break |
| 12.00-13.30 | Session S-III: Plant-Microbe Interaction (Continued) |
| | Chairperson: Alok Kalra |
| | Co-chairperson: S.A. Khilzi (Pakistan) |
| | Rapporteur: Suchi Srivastava |
| | Oral Presentations |
| 12.00-12.12 | SIII/O-6: Role of Antioxidants in the Growth and Heavy Metal uptake from Tannery Sludge |
| | in Microbe Assisted Phytoremediation under Field Conditions |
| | Sheza Ayaz Khilji* and Firdaus-e-Bareen (Pakistan) |
| 12.12-12.24 | SIII/O-7: Microbial Contribution to Carbon Sequestration by Oxalate-Carbonate Pathway |
| | with the Help of Biomineralizing Tree |
| | Vivek Kumar*, Kapil Khulbe, Susma Tamta, Rashmi Srivastava, and A.K. Sharma (India) |
| 12,24-12.36 | SIII/O-8: Synergy Between Mycorrhiza. Plant and Bacteria in Pah Dissination |
| | Geetanjali Manchanda*, Raghvendra Pratap Singh, Alok K. Srivastava and Neera Garg (India) |
| 12 26 12 49 | SIII/O 0. Plant migraha Interaction for Enhancing Sail Carbon Secureties in |
| 14.30-14.48 | _ |
| | Pankaj Srivastava* and Nandita Singh (India) |
| 10 40 10 00 | |
| 12.48-13.00 | SIII/O-10: Multifactorial Plant Growth Promoting Attributes of Stress Tolerant <i>Paenibacillus</i> lentimorbus NRRL B30488 |
| | |
| 12.24-12.36 12.36-12.48 | SIII/O-8: Synergy Between Mycorrhiza, Plant and Bacteria in Pah Dissipation Geetanjali Manchanda*, Raghvendra Pratap Singh, Alok K. Srivastava and Neera Garg (India) SIII/O-9: Plant-microbe Interaction for Enhancing Soil Carbon Sequestration in Degraded/Marginal Lands |

| | Mishra, S. Yadav, M. Kumar, S. Srivastava and C.S. Nautiyal (India) |
|-------------|--|
| | |
| 13.00-13.12 | SIII/O-11: To Unravel the Survival Strategies of Bacillus lincheniformis under Different |
| | Stress by Assessment of Physiological and Biochemical Parameters Kumari Tripti* and Shardendu (India) |
| 13.30-14.30 | Lunch Break |
| 14.30-16.42 | Session S-IV: Contemporary Environmental Issues |
| | Chairperson: Mahendra Modi |
| | Co-chairperson: N. Hechmi (Tunisia) |
| | Rapporteur: Seema Mishra |
| | Keynote Lecture |
| 14.30-15.05 | SIV/KN-1: Freshwater Scarcity: Quantity, Quality, Food Security, Health Effects and |
| | Management Issues Mainly in Developing Countries |
| | Dipankar Chakraborti (India) |
| | Lead Lecture |
| 15.05-15.30 | SIV/L-1: Innovative Rain Water Harvesting: Model for Water Conservation, Recharging and |
| | Development (1) (1) (1) (1) |
| | Mahendra Modi (India) |
| | Oral Presentations |
| 15.30-15.42 | SIV/O-1: Estimation of Toxic Metals in Respirable Dust Near E-Waste Burning Sites in |
| | Moradabad, India Anamika Tripathi*, Mahima, Dharmveer Singh and Raina Pal (India) |
| | Thanka Tripani , Mahma, Dharmveer Singh and Rama La (mala) |
| 15.42-15.54 | SIV/O-2: Does Eutrophication in Waterbodies Affect the Ramet Generation Potential of |
| | Small Fragments of an Invasive Plant, Alternanthera philoxeroides? |
| | Poulami Jha* and Anjana Dewanj (India) |
| 15.54-16.06 | SIV/O-3: Microbial Activity in Soil with Organophosphate Pesticides Application in Talwandi |
| | Sabo, Bathinda, Punjab |
| | Dhanya M.S* and Disha Mishra (India) |
| 16.06-16.18 | SIV/O-4: Allelopathy as an Alternative to Synthetic Herbicides |
| | Neelkant Sharma*, Daizy R. Batish and R. K. Kohli (India) |
| 16.18-16.30 | SIV/O-5: Pharmacological Activities and Potential uses of Cyperus rotundus: an Updated |
| | Review |
| | Arslan Masood Prizada*, M. Jamil, M. Naeem, H.H. Ali, M. Latif, A.H. Bukhari, A.S. Raza, M. |
| | Saqib, M. Ijaz (Pakistan) |
| 16.30-16.42 | SIV/O-6: Natural Herbicides from Essential Oils: Prospects and Constraints |
| | Daizy R. Batish (India) |
| 16.42-17.00 | Tea Break |
| 17.00-18.00 | POSTER SESSION (Listed after Oral Presentation) |
| | (Listed after Oral Presentation) SIII/P1-P18 |
| | SIV/P51-P18 SIV/P51-P93 |
| | SVII/P1-P53 |
| | SVIII/P1-14 |

| | PROF. SAGAR KRUPA HALL |
|-------------|--|
| 10.00-11.30 | Session S-I: Climate Change (Continued) |
| | Chairperson: V.R. Reddy Co-chairperson: Y.K. Sharma Rapporteur: Vivek Pandey |
| 10.00-10.12 | Oral Presentations SI/O-09: Climate Change and Biodiversity; Impacts, Vulnerability, and Mitigation: A Review of 20 Years in Indian Context Devendra Kumar Soni* and Farid Ansari (India) |
| 10.12-10.24 | SI/O-10: Should We Say Goodbye to Global Warming and Welcome to Global Cooling? Sanjib Kumar (India) |
| 10.24-10.36 | SI/O-11: Evaluation of Genetic Diversity of Barnyard Millet in Central Himalayan Region: Prospects for Climate Resilient Agriculture A.K. Trivedi*, S.K. Verma and R.K. Tyagi (India) |
| 10.36-10.48 | SI/O-12: Development of Powdery Mildew Caused by Sphaerotheca fuliginia on Bottle Guard and Pumpkin under Elevated Levels of CO ₂ Mujeebur Rahman Khan*, Tanveer Fatima Rizvi and Rizwan Ali Ansari (India) |
| 10.48-11.00 | SI/O-13: An Indirect Method of Estimating Leaf Area Index of Indian Tropical Moist Deciduous Forest using LAI 2000 Plant Canopy Analyzer Soumit K. Behera*, Nandita Singh, Mukunda D. Behera, Rakesh Tuli (India) |
| 11.00-11.12 | SI/O-14: Mapping Spatial Pattern of Environmental Condition In Govind Wildlife Sanctuary, Utilizing GIS and Lichens Rajesh Bajpai* and D.K. Upreti (India) |
| 11.36-12.00 | Tea Break |
| 12.00-13.30 | Session S-VII: Environment and Biodiversity |
| | Chairperson: R.S. Tripathi Co-chairperson: M. Atiqur Rahman (Bangladesh) Rapporteur: L.B. Chaudhary Lead Lecture |
| 12.00-12.25 | SVII/L-1: Biodiversity Scenario, Conservation Management and Environmental Sustainability in Bangladesh M. Atiqur Rahman* (Bangladesh) |
| 12.25-12.37 | Oral Presentations SVII/O-1: Diversity Analysis and Characterization of Nostoc Strains of NE Region of India O. N. Tiwari*, Ch. Silvia and W. Indira Devi (India) |
| 12.37-12.49 | SVII/O-2:Preliminary Assessment of Biodiversity in the Vicinity of Larsemann Hills, East Antarctica Pawan Kumar 'Bharti' (India) |
| 12.49-13.01 | SVII/O-3: Species Diversity of Marine Centric Diatoms From North Arabian Sea Bordering Pakistan With Special Reference To Tasman Spirit Oil Spill Asma Tabassum*, Hina Baig, Aliya Rehman (Pakistan) |
| 13.01-13.13 | SVII/O-4: Assessing the Morphological Characters for Taxonomic Significance of Rauwolfia serpentina and Rauwolfia tetraphylla Runa Rashmi*, Maheshwar Prasad Trivedi and Ruhi Tabbasum (India) |
| | |

| 13.13-13.25 | SVII/O-5: Effects of Biomass Extraction on Bird Communities in Katerniaghat Wildlife |
|-------------|--|
| | Sanctuary, Uttar Pradesh, India Azram Tahoor* and Jamal A. Khan (India) |
| 13.30-14.30 | Lunch Break |
| 14.30-16.30 | Session S-VII: Environment and Biodiversity (Continued) |
| | Chairperson: R. S. Tripathi |
| | Co-chairperson: Asma Tabassum (Pakistan) |
| | Rapporteur: T. S. Rana |
| | Oral Presentations |
| 14.30-14.42 | SVII/O-6: Biodiversity of Medicinal Plants of Satpuda Forest Region of East Khandesh, M.S. |
| | India |
| | R.M. Bagul (India) |
| 14.42-14.54 | SVII/O-7: Algal Diversity and New Records of Algae from Acharya Jagadish Chandra Bose |
| | Indian Botanic Garden, Howrah |
| | Pratibha Gupta (India) |
| 14.54-15.06 | SVII/O-8: Use and Conservation of Traditional Medicinal Plants by Indigenous People in |
| | Village Kapsi, Balod District, Chhattisgarh (India) |
| | Anita Mahiswar* and Shama Afroze Baig (India) |
| 15.06-15.18 | SVII/O-9: Composition, Structure and Diversity of Forest Communities of the Achanakmar- |
| | Amarkantak Biosphere Reserve: A Comparison and Conservation Implications |
| | Bhavana Dixit* and Rashmi Agrawal (India) |
| 15.18-15.30 | SVII/O-10: Phylogenetic Assessment of Goan Mangroves along West Coast India using DNA |
| | Barcode Markers |
| | Ankush Ashok Saddhe and Kundan Kumar* (India) |
| 15.30-15.42 | SVII/O-11: Eco-Physiology of Germination in Selected Plant Species of Sundarbans mangrove |
| | Forest and Diversity |
| | A.K.M. Nazrul-Islam (Bangladesh) |
| 15.42-15.54 | SVII/O-12: Role of Mangrove Ecosystem in Protecting Environment |
| | T.M.A. Niveditha (India) |
| 15.54-16.06 | SVII/O-13: Determinants of Lichen Family Graphidaceae in Eastern Palaeotropical |
| | Countries |
| | Santosh Joshi*, D. K. Upreti, Vertika Shukla, J-S. Hur, Udeni Jayalal and Guo Wei (India) |
| 16.06-16.18 | SVII/O-14: Status of Invasive Alien Plant Species in Protected Areas of Nepal |
| | Mohan Siwakoti*, Bharat Babu Shrestha and Seeta Siwakoti (Nepal) |
| 16.18-16.30 | SVII/O-15: Forest Fragmentation in Meghalaya and its Ecological Implications |
| | O.P. Tripathi* and R.S. Tripathi (India) |
| 16.30-17.00 | Tea Break |
| 17.00-18.00 | POSTER SESSION |
| | (Listed after Oral Presentation) |
| | SIII/P1-P18 SIV/D51 P02 |
| | SIV/P51-P93 SVII/P1-P53 |
| | SVII/P1-P35 SVIII/P1-14 |
| | 5 / III/1 1-1T |

ORAL SESSION

Friday, February 27, 2015

| | NBRI AUDITORIUM | |
|-------------|--|--|
| 10.00-11.38 | | |
| 10.00-11.38 | Session S-IV: Contemporary Environmental Issues (Continued) Chairperson: C.R. Bhatia | |
| | Co-chairperson: Azza EL-Medany (Saudi Arabia) | |
| | Rapporteur: Lalit Agrawal | |
| | Mapportuit Dant Agranai | |
| | Keynote Lecture | |
| 10.00-10.25 | SIV/KN-2: Food Security: Challenge and Opportunity | |
| | C.K. Varshney (India) | |
| | | |
| 10.25.10.50 | Lead Lecture | |
| 10.25-10.50 | SIV/L-2: Sustainable Crop Production with Increasing Population, and Diminishing Natural Resources | |
| | C.R. Bhatia (India) | |
| | C.R. Bhuttu (fildia) | |
| | Oral Presentations | |
| 10.50-11.02 | SIV/O-7: Fly Ash Utilization in India: A Current Perspective | |
| | Amit K. Gupta (India) | |
| 11 02 11 14 | CINVO O E 4 1 1 CP 2 | |
| 11.02-11.14 | SIV/O-8: Ecotechnology of Biocompost and Its Application in Sustainable Agriculture: Vision | |
| | 2030 M.A. Ali Khan and Preeti Sharma* (India) | |
| | M.M. Mi Khan and Freeti Sharma (mala) | |
| 11.14-11.26 | SIV/O-9: Effect of Climate Change on Temperate Agriculture - A Scenario of Weather and | |
| | Crop Yields of Past Three Decades | |
| | F.A. Lone* and N.A. Kirmani (India) | |
| 44.04.40 | | |
| 11.26-11-38 | SIV/O-10: Mine Spoil Subsurface: A Potential Sink for Atmospheric Carbon | |
| 11.50-12.00 | Sangeeta Mukhopadhyay*, Reginald Ebhin Masto and Lal C Ram (India) Tea Break | |
| 12.00-13.30 | Session S-IV: Contemporary Environmental Issue (Continued) | |
| 12.00-13.30 | Chairperson: C.K. Varshney | |
| | Co-chairperson: Daizy R. Batish | |
| | Rapporteur: Priyanka Agnihotri | |
| | | |
| | <u>Lead Lecture</u> | |
| 12.00-12.25 | SIV/L-3: Vetiver Grass Model: Ideotypes for Sustainable Environment | |
| | Umesh C Lavania (India) | |
| | Oral Presentations | |
| 12.25-12.35 | SIV/O-11: Evaluation of the Role of Ginkgo biloba in Alleviating Thiodicarb- Induced | |
| 12.20 12.00 | Impairment of Male Reproductive Function in Western Albino Rats: Biochemical and | |
| | Histological Study | |
| | J.H. El Medany* A.H. El-Medany and S.A. AL Shaarawi (Saudi Arabia) | |
| 40054545 | | |
| 12.35-12.45 | SIV/O-12: Improvement of Sugarcane for Quality Traits and Cane Yield through Recurrent | |
| | Selection Pana D.P. Singh* Pishi Muni Singh Coyind P. Pao Unandra K. Singh and Lagdish Prasad (India) | |
| | Rana D.P. Singh*, Rishi Muni Singh, Govind P. Rao, Upendra K. Singh and Jagdish Prasad (India) | |
| 12.45-12.55 | SIV/O-13: Assessment of Soil Fertility Status for Improving Soil Health and Sustainable Crop | |
| | Productivity of Tea Plantation In Assam | |
| | Haorongbam Nandakumar *, Jayashree Rout1 and Laxmi Narayan Sethi (India) | |
| | | |
| 12.55-13.05 | SIV/O-14: Environment and Bird Diversity at Bhima- Pedgaon Region in Shrigonda Taluka | |
| | of Ahmednagar District (M.S.), India. | |

| | A.B. Gore (India) |
|-------------|---|
| 13.05-13.15 | SIV/O-15: Sabarmati Riverfront Project a Eco-Friendly Sustainable Role Model for other States in New Millenium K.M.Patel* and Foram Patel (India) |
| 13.15-13.25 | SIV/O-16: Green Tea Extract: Its Potential Protective Effect on Diazinon Induced Lung Injuries In Rats Azza EL-Medany*, Jamila EL-Medany (Saudi Arabia) |
| 13.25-13.35 | SIV/O-17: Biochar: A Hope For Sustainable Agriculture and Food Security In India Sandeep Kumar (India) |
| 13.35-13.45 | SIV/O-18: Effect Of Different Down Stream Processing Techniques On Microalgal Metabolite Production F.A. Ansari, *, S.K. Gupta, , A. Guldhe, N.K. Sahoo, I. Rawat and F. Bux (South Africa) |
| 13.45-13.55 | SIV/O-19: Application of Mathematical Modelling in Conservation of Forestry Biomass Manju Agarwal (India) |
| 13.55-14.05 | SIV/O-20: Ambient Aerosols in the Coal Capital of India: Dhanbad Siddharth Singh (India) |
| 13.30-14.30 | Lunch Break |

| PROF. SAGAR KRUPA HALL | |
|------------------------|--|
| 10.00-11.30 | Session S VII: Environment and Biodiversity (Continued) |
| | Chairperson: R. S. Tripathi |
| | Co-chairperson: A. K. M. Nazrul-Islam (Bangladesh) |
| | Rapporteur: Ashish Asthana |
| | Oral Presentations |
| 10.00-10.12 | SVII/O-16: Water Relations Study of Invasive <i>Lantana</i> and other Co-Occurring Shrubs |
| | Chandrabala* and S. C. Garkoti (India) |
| 10.12-10.24 | SVII/O-19: Biodiversity of Uredinales In Khyber Pakhtunkhwa, Pakistan |
| 10.12-10.24 | Aamna Ishaq*, Najam-ul-Sehar Afshan, Abdul Nasir Khalid, (Pakistan) |
| | |
| 10.24-10.36 | SVII/O-20: Role of Plant Tissue Culture in Conservation of Biodiversity of some Economic |
| | Plants Including RET Medicinal plants |
| | A.K. Sharma (India) |
| 10.36-10.48 | SVII/O-21: Aquatic Cyanobacterial Biodiversity of Kailashahar, Tripura, India |
| | Rama Kant (India) |
| 10.48-11.00 | SVIII/O 22. On the Status of Assuitum betweenhallow Well or Device. An Endongoved |
| 10.48-11.00 | SVII/O-22: On the Status of <i>Aconitum heterophyllum</i> Wall. ex Royle - An Endangered Medicinal Plant from Himalaya |
| | Priyanka Agnihotri, Satya Narayan Jena, Danish Husain and Tariq Husain* (India) |
| | |
| 11.00-11.12 | SVII/O-23: Spatial Distribution of Pteridophytes In Nepal: A Conservation Approach |
| | P.C.Misra ^{1*} and Shraddha Tiwari (India) |
| 11.12-11.24 | SVII/O-24: Nostoc papillae NDUPC003, sp. nov., a Filamentous Cyanobacterium with |
| | Feathery Spores Isolated from Agricultural Fields of Varanasi, India, |
| | N. Dwivedi (India) |
| 11.30-12.00 | Tea Break |

| 12.00-13.30 | Session S-VIII: Energy Biofuel |
|-------------|--|
| | Chairperson: T. S. Verma (Botswana) |
| | Co-chairperson: S. N. Singh |
| | Rapporteur: C S Mohanty |
| | Oral Presentations |
| 12.00-12.12 | SVIII/O-1: Utilization of Microwave Assisted Chemical Pretreated Rice Straw Hydrolysate |
| | for Hydrogen Production Via Dark Fermentation |
| | Renu Singh*, Monika Srivastava, Sapna Tiwari and Ashish Shukla (India) |
| 12.12-12.24 | SVIII/O-2: Development and Effectiveness of Low Cost Cationic Polymer For The Harvesting Of Microalgae |
| | S.K. Gupta*, M. Kumar, A. Guldhe, F.A. Ansari, I. Rawat, K. Kanney, F. Bux² (South Africa) |
| 12.24-12.36 | SVIII/O-3: Induction of Lipid Production in Desertifilum tharense Msak01 and Leptolyngbya Sp. Under Nitrogen and/or Phosphorus Limitation Conditions Ankita Khemka* and Meenu Saraf (India) |
| 12.36-12.48 | SVIII/O-4: Evaluation of Performance and Emission Characteristics of Biodiesel Blends with diesel in a Single Cylinder DI Diesel Engine M. Vijay Kumar*, Suchit A. Deshmukh, Dr. A. Veeresh Babu, Dr. P. Ravi Kumar, G. Ganesh Babu (India) |
| 12.48-13.00 | SVIII/O-5: Diesel Engine Performance Enhancement and Emission Diminution with Low Heat Rejection Diesel Engine by using Nme as Fuel K. Ganesh Babu*, A. Veeresh Babu*, M. Vijay Kumar (India) |
| 13.30-14.30 | Lunch Break |
| 14.30-16.00 | Valedictory Session |
| 16.00-16.30 | Tea Break |

POSTERS

Tuesday, February 24, 2015

Session-I: CLIMATE CHANGE

S1/P-1: Interactive Effect of Potassium Nutrition and Carbon Dioxide on Soybean Growth and Physiology

Shardendu K. Singh and Vangimalla R. Reddy*

S1/P-2: Effect of Elevated Levels of CO₂ on the Plant Growth, Physiology, Biomass Production and Root-Knot Disease Development on Cucumber and Sponge Guard

Mujeebur Rahman Khan, Tanveer Fatima Rizvi* and Rizwan Ali Ansari

S1/P-3: Comparative Study of Nitrogen and Carbon Metabolism in Two Varieties of Cyamopsis tetragonoloba under CO₂ Elevation

Sonali Mehrotra*, Surabhi and Nandita Singh

S1/P-4: Effect of Elevated CO₂ on Leaf Proteome of Two Guar Cultivars

Meenakshi Lohani*, Sunil K. Gupta, Marisha Sharma, Vivek K. Maurya, Vivek Pandey

S1/P-5: Differences in Responses of Two Mustard Cultivars to Ethylenediurea (EDU) at High Ambient Ozone Concentrations in India

Ashutosh K. Pandey^{*}, Baisakhi Majumder, Sarita Keski-Saari, Sari Kontunen-Soppela, Vivek Pandey and Elina Oksanen

S1/P-6: Invasive Plant Species in Delhi Flora

Anand Kumar Mishra*, Shakoor Ahmad Mir, Maheshwar Prasad Sharma and Herbajan B. Singh

S1/P-7: Carbon Sequestration in Tree Plantations on Degraded Forest Lands in Northern Haryana *Ekta Bhalla* and S.R. Gupta*

S1/P-8: Evaluation of Impact of Tropospheric Ozone on an Ornamental Plant using Ethylenediurea (EDU)

Baisakhi Majumder*, Ashutosh K. Pandey, Elina Oksanen and Vivek Pandey

S1/P-9: Effect of Ethylene Diurea Treatment on Zea mays L. Plants Grown under Ambient and Elevated Levels of Ozone at a Suburban Site of Eastern Indo-Gangetic Plains

Aditya Abha Singh* and S.B. Agrawal

S1/P-10: Adaptation Mechanisms of Plants Aligned with Climate Change

Shivani Srivastava*, Deepmala Yadav and Nandita Singh

S1/P-11: Physiological Performance of Two Contrasting Rice (Oryza sativa) Varieties under Drought Stress

Furqan Khan*, Shivanshu Gupta, Priyanka Upreti, Ruchi Singh, P.K. Shukla and Pramod A. Shirke

S1/P-12: Photosynthetic Performance of Cluster Bean (Cyamopsis tetragonoloba) Subjected to Water Stress

Shivanshu Gupta*, Furqan Khan, Priyanka Upreti, Ruchi Singh and Pramod A. Shirke

S1/P-13: Physiological Responses of Cluster Bean (*Cyamopsis tetragonoloba*) under Ambient and Free-Air CO₂ Enrichment (FACE) Conditions

Priyanka Upreti*, Shivanshu Gupta, Furqan Khan, Ruchi Singh and Pramod A. Shirke

- S1/P-14: Whether Land use Change Brings Δ^{13} C Homogenization Faster Than Δ^{13} C Enrichment? Ashutosh Kumar Singh*, Apurva Rai, Pratiksha Singh and Nandita Singh
- S1/P-15: Characteristics of Biochar Prepared from *Mentha arvensis* and *Citronella flexuosus* for Soil Fertility Enhancement and Carbon Sequestration

Nidhi Nigam, Yogita Deshmukh and Puja Khare*

- S1/P-16: An Assessment of Changes in Microbial Diversity of the Soil Exposed to Elevated Carbon Dioxide
- Vivek K. Maurya*, Richa Shukla, Satyendra P. Singh, Arpita Bhattacharya, Aradhana Mishra and Vivek Pandey
- S1/P-17: CO₂ Affect on Bio-Chemical Parameter of Rhizospheric Soil of *Tectona grandis* and *Butea monosperma* on Different Seasons by Free Air CO₂ Concentration Enrichment (FACE) Facility *Pratiksha Singh* and Nandita Singh*
- S1/P-18: Mapping Spatial Pattern of Environmental Condition in Govind Wildlife Sanctuary, Utilizing GIS and Lichens

Rajesh Bajpai* and D.K. Upreti

S1/P-19: Protected Cultivation: Ancient India's Foray

Nikhil Kumar

S1/P-20: Relationship of Tree Species Composition in Soil CO₂ Fluxes: An Overview in Tropical Dry Deciduous Forest Ecosystem in Vindhyan Plateau of Uttar Pradesh

Nayan Sahu*, Shruti Mishra, Bilal Khan, Ashutosh K. Singh, Apurva Rai, Soumit K. Behera and Nandita Singh

Session II: ENVIRONMENTAL BIOTECHNOLOGY

- SII/P-1: Role of Glutaredoxin against Metalloid/Metal Induced Abiotic Stress in Plants: Minireview Arvind Kumar Dubey*, Navin Kumar, Ruma Ranjan, Ambedkar Gautam, Ishita Gupta and Shekhar Mallick
- SII/P-2: Synthesis and Characterization of Silver Nano-Particles using Adhatoda vasica Extract Manoj Kumar*, Sukumar Dandapat and M.P. Sinha
- SII/P-3: Nitrogen-Mediated Salt Tolerance in Mustard (Brassica juncea) Involves Proline and Ethylene

Noushina Iqbal* and Shahid Umar

- SII/P-4: Growth and Phenol Degradation Kinetics in Outdoor Cultures of Chlorella pyrenoidosa Bhaskar Das, Gowtham Selvaraj and Sanjukta Patra*
- SII/P-5: Bioprospection of Withania somnifera (Ashawagandha): A Non-Targeted Metabolomics Approach

Anil Bhatia^{*}, O.P. Sidhu and Raja Roy

SII/P-6: Identification and Characterization of a Novel Arsenic Methyltransferase from Westerdykella aurantiaca Isolated from Arsenic Contaminated Agricultural Soil

Shikha Verma*, Pankaj Kumar Verma, Alok Kumar Meher, Amit Bansiwal, Pankaj Srivastava, Praveen Chandra Verma, Rudra Deo Tripathi and Debasis Chakrabarty

SII/P-7: Arsenate Responsive Rice Glutaredoxins (Osgrx) Play Role in Arsenic Detoxification

Pankaj Kumar Verma*, Shikha Verma, Alok Kumar Meher, Amit Bansiwal, Shekhar Mallick, Rudra Deo Tripathi and Debasis Chakrabarty

SII/P-8: Exogenous Ethylene Reverses Metals-Induced Oxidative Stress and Protects Photosynthetic Capacity in Mustard (*Brassica juncea*)

M. Iqbal R. Khan* and Nafees A. Khan

SII/P-9: Molecular Typing of Bacterial Cultures Isolated from Different Ecological Niches by using Different Genetic Markers

Shraddha Gupta*, Yogesh S. Shouche and Dheeraj Dhotre

SII/P-10: Evaluation of RAPD Technique to Induced DNA Damage by Heavy Metal to Detect the Genotoxicity Effect in Mung Bean [Vigna radiata (L.) Wilc zek Seedlings

Jyoti Prakash*, Sharad Kumar, Garima Awasthi and Abhay Raj

SII/P-11: Identification of Bacteria from Dye and Industrial Effluent Contaminated Soil through Metagenomic Approaches

Akriti Upadhyay*, Sakshi Saxena, Jyotsana Singh, Rachna Chaturvedi, Prachi Srivastava and Sujeet Kumar Singh

SII/P-12: Transformed Yeast (Schizosaccharomyces pombe) Overexpressing Rice Tau Class Glutathione S-transferase (OsGSTU30 and OsGSTU41) Shows Enhanced Resistance to Hexavalent Chromium

Yuvraj Indoliya*, Madhu Tiwari, Poonam Tiwari, Dipali Srivastava, Pankaj kumar Verma, Shikha Verma, Neelam Gautam and Debasis Chakrabarty

SII/P-13: Characterization of Rice Metallothionein Class-1 Gene Family during Heavy Metal Stress

Neelam Gautam*, Pankaj Kumar Verma, Shikha Verma, Rudra Deo Tripathi, Prabodh Kumar Trived and Debasis Chakrabarty

SII/P-14: Quantification of Bioactive Phytochemicals and DNA Damage Protection Activity of Solanum melongena Leaf

Upma Singh*, Pankaj Singh and Mamta Shukla

SII/P-15: Synthesis of Copper Oxide Nanoparticles and its Effect on Cabbage Seedlings

A.K. Bhardwaj*, N.B. Singh, Sunaina and Ram Gopal

SII/P-16: Assessment of Genetic and Morphological Variability for Managemnt of Lantana camara L.

Mala Trivedi*, Rachana Singh, Abhay M. Misra, Ankita Singh and Rajesh K. Tiwari

SII/P-17: In Silico Identification and Construction of Microbial Gene Cluster Associated with Biodegradation of Undesired Toxic Materials

Anjani Kumari*, Garima Awasthi, Anshul Tiwari and Prachi Srivastava

SII/P-18: Metagenomics: Tool to Study Environmental Microorganisms

Shikha Mishra*, Nausheen khan and Ruchi Yadav

SII/P-19: Identification of Conserved and Novel Micrornas in Two Contrasting Flower Color of *Canna* Cultivar by Deep Sequencing

Abhinandan Mani Tripathi*, Amrita Yadav and Sribash Roy

SII/P-20: Role of GSNOR in Detoxification Mechanism Against Abiotic Stress In Plants

Ishita Gupta*, Navin Kumar, Arvind Kumar Dubey, Ruma Ranjan, Ambedkar Gautam and Shekhar Mallick

SII/P-21: Study of Bacteriophages P1 as an Biocide for the Control of Biofouling Agent *Pseudomonas aeruginosa*

Sadhana Singh Sagar, Rajesh Kumarand Shilpa Deshpande Kaistha

SII/P-22: Green Synthesis of Gold Nanoparticles using *Usnea* sp., a Fruticose Lichen from Manipur, North East, India

R.K. Sanayaima Devi*, Jayashree Rout and D.K. Upreti

SII/P-23: Arsenite-Sulfur Interaction Modulates Amino Acids Biosynthesis in Rice: Reflections from Proteome, Amino Acids and Thiolic Metabolites

Garima Dixit, Amit Pal Singh, Reshu Chauhan, Vivek Pandey and Rudra Deo Tripathi

SII/P-24: Mycosporine Like Amino Acids Biosynthesis in Cyanolichens: An Adaptation to UV Radiation

Vertika Shukla* and D.K. Upreti

SII/P-25: Analyses of Genetic Diversity and Population Structure in *Bergenia ciliata* using Molecular Markers

Vandana Tiwari*, K.S. Mahar, Niraj Singh, Baleshwar Meena, K.N. Nair, B. Datt, D.K. Upreti and T.S. Rana

SII/P-26: Assessment of Genetic Variability and Relationshipamong *Gladiolus* L. Cultivars

Niraj Singh*, K.S. Mahar, Sushma Verma, Baleshwar Meena, Ashish Kumar, R.K. Roy, S.K.Tewari, A.K. Goel and T.S. Rana

SII/P-27: Role of Mathematics in Environmental Biology: An Expanding Field

Prashant Kumar Sharma, Shilpi Srivastava and Atul Bhargava*

SII/P-28: Microarray Analysis of Indian Mustard (Brassica Juncea) Under Arsenate Stress

Sudhakar Srivastava*, Ashish Kumar Srivastava and Penna Suprasanna

SVI- Bioindication and Bioremediation

SVI/ P-1: Engineered *In situ* Bioremediation: An Emerging Technology for Contaminated Groundwater Remediation

Deepak Kumar*, Jahangeer Tomar, Pankaj Kumar Gupta, Brijesh Kumar Yadav

SVI/ P-2: Estimation of Air Pollution Tolerance Index in Various Plant Species in Industrial Area, Gajraula, India

Ajay Kumar*, Anshuman Gupta and Atul Kumar

SVI/ P-3: Removal of Lead (II) from Aqueous Solutions using Carissa carandus and Syzygium aromaticum: A biosorptive Study

Suresh Mahiya* and S.K. Sharma

SVI/ P-4: Controlling Heavy Metal Soil Pollution by Phytoremediation: A Greener and Sustainable Approach

Rekha Kathal*, Priti Malhotra, Sanavar Soham and P.L. Uniyal

SVI/ P-5: Isolation, Physiochemical Analysis and Biochemical Characterization of Petroleum Hydrocarbons Degrading Microorganisms

Shivendra Sharma*, Shallu Sihag and Hardik Pathak

SVI/ P-6: Aglonema commutatum as Bioindicator for Indoor Pollutants

Seemaa Ghate

SVI/ P-7: Toxicological Assessment of Industrial Effluent using *Lemna minor* as an Aquatic Toxicity Test Tool

Yogendra Verma

SVI/ P-8: Biometabolic Estimation of Changes Led by Butachlor Induced Toxicity and their Degradation by Rice Field Cyanobacterium *Nostoc muscorum*

Sumaiya Anees*, Neelam Pathak and Mohd Zeeshan

SVI/ P-9: Transformation and Stabilization of Chromium during Composting of Tannery Effluent Phytoremediated Biomass of *Bacopa monneiri* L.

O.P. Shukla* and U.N. Rai

SVI/ P-10: Study on Role of Pseudomonas aeruginosa on Heavy Metal Bioremediation

Garima Awasthi*, Anjali Chester, Riya Srivastava, Rachna Chaturvedi, Jyoti Prakash

SVI/ P-11: Evaluation of Genetic Variability in *Trichoderma/Hypocrea* spp. using RAPD and its Molecular Markers

M. Singh*, P.K. Srivastava, H.K. Yadav and R.N. Kharwar

SVI/ P-12: Comparative Analysis of Arsenic Removal from Aqueous Solution using Immobilized Fungal Biomass of Different Fungal Strains in Batch Mode

Virendra Jaiswal*, Suman B. Singh and Pankaj Kumar Srivastava

SVI/ P-13: Species of Lichen Genus *Usnea*: Most Suitable Organism for Long Term Pollution Monitoring

D.K. Upreti, Preeti Shukla and L.M. Tewari

SVI/ P-14: Trace Metal Speciation in Dust Deposited on Plant Leaves and their Foliar Uptake Pattern in a Representative Subtropical Environment of Central India

Triratnesh Gajbhiye* and Sudhir Kumar Pandey

SVI/ P-15: Comparative Efficiency of Phytoremediation Potential of *Azolla pinnata* and its Floating Associates for Decontamination of Municipal Waste Water

Soumyashree Pati*, Prakash Chandra Dalai, Ashirbad Mohapatra, Kunja Bihari Satapathy

SVI/ P-16: Cyanobacterial Modulated Changes and Its Impact on Bioremediation of 'Usar' Soils

Veenus Singh*, K.D. Pandey, Shatrughna Singh and Durg Vijay Singh

SVI/ P-17: Phytoremediation of Chromite-Asbestos Mine Waste: A Case Study of Blighted Hills of Roro, Chaibasa, India

Adarsh Kumar*, Subodh Kumar Maiti and Raj Shekhar Singh

SVI/ P-18: To Decontaminate Wastewater Employing Bioremediation Technologies

Parul Sharma* and Sonali Pande

SVI/ P-19: Eggshell as a Heavy Metal Adsorbent from Waste Water

SVI/ P-20: Mycoremediation of Cypermethrin from Different Regions of Punjab

Parminder Kaur*, Pallavi Biswas and Leena Parihar

SVI/ P-21: In vitro Degradation of Hexacosane by Bacteria Isolated from Petroleum Sludge

Shweta Mishra* Nitanshi Jauhari and S.N. Singh

SVI/ P-22: Adsorption Kinetics for Hexavalent Chromium Removal from Aqueous Solution on Low Cost Bio-Chars

Shalini Rajput* and Dinesh Mohan

SVI/ P-23: Green and Instant Synthesis of Gold Nanoparticles by *Trichoderma* sp. and its Heterogeneous Catalysis in Degradation of 4 Nitrophenol

Madhuree Kumari*, Shipra Pandey, Vasvi Chaudhary, Charu Lata, Aradhana Mishra, C.S. Nautiyal

SVI/ P-24: Decomposition of Agroindustrial Wastes and its Impacts on Soil Properties

Kavita Kashyap

SVI/ P-25: Role of Vermicompost in Biodegradation of Crude Oil Contaminated Soil

Babita Kumari*, Jyoti and S.N. Singh

SVI/ P-26: Microbial Diversity in Fluoride Contaminated Sites and their Role in Bioremediation

Aparna Singh* and Ragini Gothalwal

SVI/ P-27: Arsenic Phytoremediation in Rice Seedlings through Cyanobacteria

Ruma Ranjan^{*}, Navin Kumar, Arvind Kumar Dubey, Ambedkar Gautam, Ishita Gupta, S. Mallick, U.N. Rai and S.N. Pandey

SVI/ P-28: Influence of Heavy Metal Toxicity on Plant Growth, Metabolism and its Alleviation by Phytoremediation: A Promising Technology

Farha Ashfaque*, Akhtar Inam, Seema Sahay and Saba Igbal

SVI/ P-29: Sonchus asper (L.) Hill: A Suitable Vegetation Cover on Red Mud Deposited Site for Enhancing the Soil Quality and Potential Phytoremediator of Iron

Tripti Mishra*, N.B. Singh and Nandita Singh

SVI/ P-30: Fly-Ash Augmented Soil Enhances Heavy Metal Accumulation and Phytotoxicity in Rice (Oryza sativa L.); A Concern for Fly-Ash Amendments in Agriculture Sector

Pradyumna Kumar Singh*, Preeti Tripathi, Amit Kumar, Sanjay Dwivedi, Debasis Chakrabarty and Rudra Deo Tripathi

SVI/ P-31: Decolorization of C.I. Acid Red 131 by Bacterial Strain Isolated from Effluent

Contaminated Soil of Bhadohi, Uttar Pradesh using Sequencing Air-lift Bioreactor

Lata Kumari, Shraddha Awasthi, Dhanesh Tiwary and Pradeep Kumar Mishra

SVI/ P-32: Pollen Viability and Germination as Bioindicator of Air Pollution

Chetna V. Ugale* and J.A. Tidke

SVI/ P-33: Phytoremediation of Crude Oil Contaminated Soil Employing Crotolaria pallida (Aiton)

P. Baruah and S. Deka*

SVI/ P-34: Growth Fitness and Final Yield: Experimental base Characterization of Metal Tolerance

SVI/ P-35: Ganga River Pollution Management by Green Clean Technology

M.K. Shukla*, A.K. Upadhyay, U.N. Rai and R.D.Tripathi

SVI/ P-36: Heavy Metal Evaluation in Some Therapeutically Important Medicinal Plants

Niket Tandon*, Arif Muhammad and Manjoosha Srivastava

SVI/ P-37: Induced Genomic Alterations through Impact of Fly-Ash in *Phaseolus vulgaris* L.

Nitu Chaudhary* and G. Kumar

SVI/ P-38: Strain Improvement for the Production of Biosurfactants from Pseudomonas Species Isolated from Oil Contaminated Sites of Ajmer (Rajasthan) and Analysis by HPLC

Rakesh Kumar Meghwanshi* and Seema Bhadauria

SVI/ P-39: Plant Leaves as Urban Aerosol Bio-Monitor Indicator

Simpy Singh*, N.C. Gupta and P. Bhattacharya

SVI/ P-40: Antibacterial Activity of some Potential Algal Strains of Bundelkhand Region of Central

Neha Srivastava¹*, M.R. Suseela, Kiran Toppo, Shivam Mishra and Rubina Lawrence

SVI/ P-41: Seasonal and Annual Atmospheric Elemental Survey by Mosses: A Conceptual Approach

Dinesh Kumar Saxena*, Hazem M. Kalaji, Magdalena D. Cetner, Izabela A. Samborska and Izabela Lukasik

SVI/ P-42: Bioremediation of Urban Pollution by Greens and Landscapes

Rajat R. Rastogi, Shilpi Singh, R. Prasad and R.K. Rov*

SVI/ P-43: An Identification of Metabolite Formed During an Aerobic Bacterial Degradation of

Pentachlorophenol Screened from Tannery Effluent Sludge of Jazmau, Kanpur

Prakash Chandra Tewari* and Siddhartha Shukla

SVI/ P-44: A Comparative Study of Metal Uptake by Eichhornia crassipes Growing in Ponds from Mining and Non-Mining Area - A Field Study

Bably Prasad* and Deblina Maiti

SVI/ P-45: Plant Uptake of BTEX Contaminated Groundwater using the Wetland Plant Canna

generalis

Shreejita Basu*, B.K. Yadav, Shashi Mathur and Jahangeer Tomar

SVI/ P-46: Recent Advances in the Bioremediation of Organic Pollutants via Enzymatic Processes

Pooja Pandey*, Hardik Pathak and Saurabh Dave

SVI/ P-47: Phyto-Extraction of Heavy Metals by Mosses

Sanavar*, P.L. Uniyal, A. Singhand K. Shantanu

SVI/ P-48: Bioremediation of Agro-Waste on Edible Mushroom Agaricus bisporus

Poonam Dehariya* and Deepak Vyas

SVI/ P-49: Biodegradation of Soil Polycyclic Aromatic Hydrocarbons using Bacterial Consortium

Gauri Gupta*, Vipin Kumar and Asim Kumar Pal

SVI/ P-50: Kinetic Behaviour of Activated Sludge Process Treating Composite Chrome Tannery Wastewater

Supriyo Goswami* and Debabrata Mazumder

SVI/ P-51: Assessment of Rhizosphere Soil Health for Evaluation of Reclamation Success

Sangeeta Mukhopadhyay*, R.E. Masto, S.K. Maiti and L.C. Ram

SVI/ P-52: Pesticide Waste Management: A Successful Strategy

Kumari Bindu

SVI/ P-53: Microbial Biomass Act as Functional Indices in Ecological Restoration of Degraded Soil: A Case Study

A.N. Singh

SVI/ P-54: Honey as Indicator of Environmental Quality and Floral Diversity

Manju Sahney and Ajay Kumar*

SVI/ P-55: Remediation of Heavy Metals through Aquatic Macrophytes from Water Bodies of Bundelkhand Region of Uttar Pradesh

Gunjan Sharma, Jamshed Zaidi and Amit Pal*

SVI/ P-56: A Biomonitoring of Algae to Assess Quality of Water in the River Yamuna at Hamirpur, U.P., India

Ram Mohan Shukla and A.K. Awasthi*

SVI/ P-57: A Critical View on Scope of Biodegradation of Slurry Explosives

Anuradha*, Biswajit Paul and Jagdish

SVI/ P-58: Bioaccumulation of Toxic Metals in Native Plants from Arsenic Affected Area of West Bengal, India

N.K. Singh*, U.N. Rai, A.K. Upadhyay and A.S. Raghubanshi

Session IX: ENVIRONMENTAL IMPACT ASSESSMENT

SIX/P-1: Cross-Domain Control of DOC Build-Up in Ganga River: Role of Atmospheric Deposition and Land Surface Runoff

Jitendra Pandey and Amita Yadav*

SIX/P-2: Methane and Carbon Dioxide Emission and Leachate Chemistry at Two Landfill Sites along the Ganga River at Varanasi

Pooja Kaushik* and Jitendra Pandey

SIX/P-3: Ion Analysis of Surface Water Samples from Ropar Wetland, Distt. Ropar, Punjab

Sakshi*, Inderpreet Kaur and Avinash Kaur Nagpal

SIX/P-4: Heavy Metal Status in Wastewater, Irrigated Soil and Plants of Different Drains Discharge into River Ganga at Allahabad, Uttar Pradesh

Arti Yadav* and D.N. Shukla

SIX/P-5: Role of Plants in Mitigation of Environmental Impact during Construction Phase of Building Projects: A Case Study of Curai Campus

Binita Kumari, K.C. Sharma and Pankaj Gupta*

SIX/P-6: A Case Study for Environment Impacts Assessment using Non-Spatial Data Sets

B. Kumari*, L.K. Sharma and K.C. Sharma

SIX/P-7: Comparison of Physico-Chemical Quality of Water Bodies of Chinhat Area and Gomti River Shweta Sachan*, Parul Tripathi and Aditi Singh

SIX/P-8: Arsenic Level in Drinking Water of Bareilly and Shahjahanpur of the UP District Arti Saxena and Dinesh K. Saxena*

SIX/P-9: Detection of Heavy Metals in Total Suspended Particulate Matter (TSPM) Collected from Six Different Sites of Amritsar City (Punjab), India using Scanning Electron Microscope (SEM-EDX) Simerpreet Kaur and Jatinder Kaur Katnoria*

SIX/P-10: Assessment of Ground Water Contamination around the Municipal Solid Waste Sites of Vadodara

Saumya Sanadhya* and Arun Arya

SIX/P-11: Demonstrating Urban Pollution using Heavy Metals of Road Dust in Lucknow City, Uttar Pradesh, India

Vidhu Gupta* and Ajay Kumar Arya

SIX/P-12: Assessment of Water Parameters for the Growth of Toxic Microalgae in Major Water Bodies of Uttar Pradesh, India

Rakhi Bajpai* and M.R. Suseela

SIX/P-13:Ecological Study of a Pond in Relation of its Bioproductivity at Banda, UP, India Sarika Gupta

SIX/P-14: Noise Pollution

Jashandeep Kaur* and Amandeep Kaur

SIX/P-15: A Clean Technology Approach of Cachar Paper Mill, Assam, India: A Unit of Hindustan Paper Corporation Limited

Moharana Choudhury* and Shyaamal Prasad Choudhury

SIX/P-16: Arsenic Pollution Scenario in Eastern UP, India: A Review

Namrata Pandey*, Alok Lehri and J.B. Srivastava

SIX/P-17: Physico-Chemical Analysis of Water Quality at Different Site of River Gomti, India Salman Haider

Wednesday, February 25, 2015

Session IV: CONTEMPORARY ENVIRONMENTAL ISSUES

SIV/P-1: Quality Evaluation and Validation of Traditional Claims of Indian *Evolvulus* Species with Respect to Phenolic Content, Caffeic Acid and Antioxidant Potential

Saba Irshad*, Siddhartha Pragyadeep, Ajay Kumar Singh Rawat, P.K. Misra and Sayyada Khatoon

SIV/P-2: Effect of Rainfall on Nutrient Release through Weathering of Rocks

Deepika Pandey

SIV/P-3: Oat: An Important Crop for Utilizing Wastelands for Nutritional Security

D. Singh*, R.C. Nainwal, R.S. Katiyar, S.S. Tripathi, S.K. Sharma, S. Singh, L.K. Sharma, V. Chaturvedi and S.K. Tewari

SIV/P-4: Value Addition of Some Endangered Edible Plants of Uttrakhand

J.P. Thakur* and P.P. Gothwal

SIV/P-5: Influence of Pulp and Paper Industry Wastewater on Soil Urease Activity

Vivek Kr. Gaurav* and Chhaya Sharma

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Kaynat Jameel* and Priyanka Verma

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Shalinder Kaur* and Daizy R. Batish

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SIV/P-22: Green Infrastructure: Urban Trees and its Role in the City

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SIV/P-26: Ecological Assessment of some Underutilized Edible Plants around Chandigarh, India Anu Sharma* and Daizy R. Batish

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SIV/P-33: Green Composites from Agro-Residues: A Review

Shraddha Awasthi*, Utkarsh Gupta, Lata Kumari, Dhanesh Tiwari, Pradeep Kumar Mishra

SIV/P-34: Arsenic Contamination in Ganga Plains, India: A Mini Review

Deepmala Yadav, Shivani Srivastava, Dhruv Sen Singh and Nandita Singh*

SIV/P-35: Study of Gender-Specific Semiochemicals of Five Ladybirds for their Commercial Utilization in Sustainable Agriculture

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SIV/P-36: Silicon Fertilization is an Effective Strategy to Improve Growth and Productivity of *Cicer arietinum* L. Genotypes under Salt Stress

Purnima Bhandari* and Neera Garg

SIV/P-37: Invasion of Weed Species in Water Reservoir of Sanjay Gandhi Thermal Power Station, Madhya Pradesh, India

R.K. Pandey, Anjana Rajput* and Madhuri Shrivastava

SIV/P-38: Agroforestry: An Approach towards Carbon Sequestration under Sodic Condition

S. Srivastava*, V.K. Mishra, Y.P. Singh and D.K. Sharma

SIV/P-39: Antagonistic Activity of *Achromobacter xylosoxidans* K4. Isolated from Rhizospheric Soil of *Picrorhiza kurroa* Against Phytopathogens

Harish Chandra, Babita Patni, O.P. Sidhu, A.R. Nautiyal and M.C. Nautiyal

SIV/P-40: A Study of Wild Edible Plants Supplemental to Malnutrition among Tribals of Banda District (U.P.)

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SIV/P-41: Sustenance of Water by Water Footprint Assessment of Rice Production

Shweta Upadhyay* and A.S. Raghubanshi

SIV/P-42: AFPD: Anti Filarial Plant Database

Smriti Singh*, Monika Sharma, Anshul Tiwari and Prachi Srivastava

SIV/P-43: Studies on Floristic Composition with Special Reference to Invasive Alien Plant Species in Angul District of Odisha, India

Sandeep Kumar Nayak*, Ashirbad Mohapatra and Kunja Bihari Satapathy

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Ritu Vishwakarma* and Alok Kumar Verma

SIV/P-45: Eucalyptus Leaf Extract Mediated Green Synthesis of Iron Nanoparticles

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SIV/P-46: Anti-Sense RNA Therapy for Treatment of Ebola Hemorrhagic Fever (EHF)

Beena Kumari, Preeti Gupta, Sushil Chaturvedi and Rachna Chaturvedi

SIV/P-47: Assessing Tropospheric Ozone Effect in two Wheat Cultivars under Natural Field Conditions

Sunil K. Gupta*, Marisha Sharma, Baisakhi Majumder, Meenakshi Lohani, Vivek K. Maurya and Vivek Pandey

SIV/P-48: Ethnomedicina Plant used in Thetraditional Phytotherapy of Gastrointestinal Problem by Tribe of Senapati District, Manipur

Konsam Nonibala* and Manabendra Dutta Choudhury

SIV/P-49: Impact of After-Ripening in Hot Pepper Seed Development During Post-Anthesis Physiological Maturity

Rakesh C. Mathad*, S.B. Patil and Basavegowda

SIV/P-50: Phytochemical Analysis and Antibacterial Potential of the Bark Extracts of *Adenanthera* pavonina L.

Somani Jethi*, Akhtari Khatoon, Sandeep Kumar Nayak and Kunja Bihari Satapathy

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Anil Kumar, Abhishek Niranjan, Namrata Pandey, Jai Chand, S.K. Sharma, Alok Lehri* and S.K. Tiwari

SV/P-2: Effect of Lead Stress on Morphology of Leucaena glauca

Bhumika Singh

SV/P-3: Impact of ZnO Nanoparticle on Water Stress and its Recovery in Oryza sativa L.

H. Upadhyaya*, S. Shome, M. K. Bhattacharya, S. Tewari and S.K. Panda

SV/P-4: Germination of Seeds in Soil Samples of Heavy Traffic Zones of Hyderabad Andhra Pradesh, India

D. Sirisha* and N. Gandhi

SV/P-5: Effect of Automobile Exhaust on the Micro-Morphological and Physiological Parameters of *Bougainvillea spectabilis* Willd.

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SV/P-6: Influence of Pollution and Climate Change on Floral Nectar Features: Threat to Plant-Pollinator Interphase

Akanksha Madan*, P.L. Uniyal and A.K. Bhatnagar

SV/P-7: Evaluation of Physico-Chemical Characteristics and Heavy Metal Contents of Agricultural Soil and Crops Cultivated Around Rivers of Punjab, India

Sandip Singh*, Vasudha Sambyal and Avinash Kaur Nagpal

SV/P-8: Role of Phosphorus in Mitigating the Chromium Toxicity in *Raphanus sativus* L., as Assessed by Physiological and Antioxidant Enzymes Parameters

D. Sayantan* and Shardendu

SV/P-9: Effects of Lead and its Phytoremediation Potential in *Eichhornia crassipes* (C. Mart.) Solms. *Shalini Srivastava*

SV/P-10: Utilization of Industrial Wastes for Cultivation of East Indian Lemongrass in Sodic Soil Akhilesh Kumar* and S.K. Tewari

SV/P-11: Effect of Balrampur Chini Mill Effluent on Seed Germination and Seedling Growth in Tomato (*Lycopersicon esculentum* Mill.) of Different Varieties

Sunil Kumar Srivastava*, A.K. Singh, N.A. Ansari and J.P. Tewari

SV/P-12:Accumulation of Arsenic in Locally Grown Crops and Vegetables of Sahibganj, Jharkhand: A Threat to Food Security

Md. Osaid Alam*, Sukalyan Chakraborty and Tanushree Bhattacharya

SV/P-13: Effect of intermittent exposure of SO_2 on the root-knot disease and plant growth of bottle guard and cucumber

Mujeebur Rahman Khan*, Tanveer Fatima Rizvi and Rizwan Ali Ansari

SV/P-14: The Effects of Salinity Pretreatment of *Glomus fasciculatum* on Induction of Sality Tolerance in Barley Plants

Ali Torabi*, Mozhgan Farzamisepehr and Mojtaba Yousefirad

SV/P-15: Interactive Effect of Agricultural Utilization of Sewage Sludge and Fly Ash on Physiological and Yield Response of *Raphanus sativus*

Rajeev Pratap Singh and Bhavisha Sharma

SV/P-16: Complimentary Application of Advanced Analytical and Imaging Techniques: A Tool to Investigate Arsenic Metabolism in Plants

Seema Mishra*, Gerd Wellenreuther, Jürgen Mattusch, Hans-Joachim Stärk and Hendrik Küpper

SV/P-17: Induced Herbicides Genotoxicity in the Root Meristems of *Fagopyrum esculentum* Moench (Buckwheat)

Akanksha Srivastava* and G. Kumar

SV/P-18: Effect of Heavy Metals Cadmium, Copper, Zinc and Mercury on Two Commercial Varieties of Mustard (*Brassica juncea*)

Monika*, Seema and Mohd. Kashif Kidwai

SV/P-19: Improvement in Growth and Biochemical Responses of Wheat with Integrated FYM and Inorganic Fertilizers Use in Halomorphic Soil

Poonam Verma* and S.N. Pandey

SV/P-20: Bioavailable Fraction of Soil Arsenic and Related Threat to Plants

Suman B. Singh* and Pankaj Kumar Srivastava

SV/P-21: The Inhibitory Effects of Heavy Metal Stress on Growth of Vigna radiata L. Alleviates via Nitric Oxide

Himani Singh* and N.B. Singh

SV/P-22: Genotoxic and Mito-Inimical Impact of Heavy Metals in Root Meristems of Coriander (Coriandrum sativum L.)

Asha Pande* and G. Kumar

SV/P-23: Antioxidative Response of Tomato (Lycopersicon esculentum Mill.) to Copper Stress Shahla Faizan, Gul Naaz, Saima Kausar, Irfana Haneef and Rubina Perveen

SV/P-24: Assessment of Growth and Yield of Tuberose Cultivated under Different Sodicity Levels T.S. Rahi*, R.S. Katiyar, Lal Bahadur, S.K. Tewari and A.K. Goel

SV/P-25: Nickel Induced Changes in Germination and Biochemical Parameters in *Vigna unguiculata* (L.) Walp.

Atia Arzoo*, Ashirbad Mohapatra² and K.B. Satapathy

SV/P-26: Impact of Addition of Soil Inputs of Varying Resource Quality on Microbial Biomass and Crop Yield in Tropical Dryland Agroecosystem

Aanchal Agarwal* and Nandita Ghoshal

SV/P-27:Ultrastructural Alterations and Sensitivity of Cytoskeleton in Response to Arsenic Stress in the Root Cells of Mungbean

Pooja Gupta* and A.K. Bhatnagar

SV/P-28: Effect of Seed Rate and Weed Control Methods on Yield of Direct Seeded Rice (Oryza sativa L)

Rajneesh Singh*, O.P. Rai, A.K. Singh and Hanumant Singh

SV/P-29: Dissipation Kinetics and Safety Evaluation of Emamectin Benzoate 1.5% + Fipronil 3.5% EC in Chilli Fruit

Arijita Bhattacharyya*^{1,2}, Sankhajit Roy², Saktipada Das¹ and Anjan Bhattacharyya²

SV/P-30: Cyto-Physiological Response of Vigna radiata var. IPM2-03 to Herbicide Glyphosate Namrata Singh* and Alka Srivastava

SV/P-31:Response of Antioxidative Enzyme Activity in Rice when Planted along with Accumulators in Arsenic Contaminated Soil

Ashish Praveen*, Sonali Mehrotra and Nandita Singh

SV/P-32: Effects of RuO₂ Nanoparticles on Rice Seedlings

Sunaina* and N.B. Singh

SV/P-33: Effect of Cement Dust Pollution on Biomass and Primary Productivity of Cajanus cajan L. Puspaa Sinha* and D D Pandey

SV/P-34: Ecological Study with Refrence to Bloom Forming *Cyanobacteria* of River Ken in District Banda, U.P., India

K.D.S. Negi

SV/P-35: Preference in Absorption and Biochemical Responses of *Salvinia molesta* and *Lemna minor* Species to Chromium in Industrial Effluent

S.N. Pandey

SV/P-36: Germination, Growth and Metabolism of Cabbage Plants Exposed to RuO₂ Nanoparticles Ajey Singh*, Imtiyaz Hussain, N.B. Singh and S.C. Singh

SV/P-37: Allelopathic Effects of *Eucalyptus* Leaf Residue on *Triticum aestivum* L. under Heavy Metal Stress

Sunita Rao*, N.B. Singh and Sunaina

SV/P-38: Impact of Ruthenium Oxide Nanoparticles on Germination, Growth and Metabolism of Broccoli (*Bsrassica oleracea* var Italica)

Imtiyaz Hussain*, N.B. Singh, Ajey Singh, and S.C. Singh

SV/P-39: Selenium Ameliorates Arsenic Induced Oxidative Stress Through Modulation of Antioxidant Enzymes and Thiols in Rice (*Oryza sativa* L.) Plant

Amit Kumar*, Pradyumna Kumar Singh, Sanjay Dwivedi, Seema Mishra, Rana Pratap Singh, Debasis Chakrabarty, Prabodh Kumar Trivedi and Rudra Deo Tripathi

SV/P-40: Effect of Municipal Solid Waste Amendment on Germination and Biochemical Response of Zea mays

Vaibhav Srivastava* and Rajeev Pratap Singh

SV/P-41: Effect of Salicylic Acid on Morphology, Physiology and Antioxidative Metabolism of Two Wheat Cultivars under Water Deficit Conditions

Marisha Sharma*, Sunil K. Gupta, Baisakhi Majumder, Vivek K. Maurya, Meenakshi Lohani and Vivek Pandey

SV/P-42: Effect of Different Dosage of Gamma Radiation on Germination Percentage and Morphological Attributes in Different Varieties of *Tagetus patula*

Tripti*, Ajit Kumar and Preeti Chaturvedi

SV/P-43: Studies on the Physiological and Biochemical Changes in Two Species of Ferns under Elevated CO₂

Sandip K. Behera*, Richa Singh, Baisakhi Majumder, Rekha Kanaujia, Sunil K. Gupta, Marisha Sharma, Meenakshi Lohani, P. B. Khare and Vivek Pandey

SV/P-44: Biochemical and Molecular Evidences Suggest Positive Relationship between NO and SA Signaling during Arsenic Stress in Rice

Amit Pal Singh*, Garima Dixit, Navin Kumar, Saurbhi Awasti, Vivek Pandey and Rudra Deo Tripathi

SV/P-45: Assessment of Antioxidant and Photosynthetic Behavior in *Lepidium latifolium* Linn.

Tarandeep Kaur*, Rohini Bhat and Dhiraj Vyas

SV/P-46: Yield and Quality of Two Varieties of Rainfed Ashwagandha (Withania somnifera) as Influenced by Different Levels of Sodicity

Rekha Kannaujia*, Lal Bahadur, D. K. Srivastav and Mahesh Pal

SV/P-47: Air Pollution Monitoring in and around Faizabad City Utilizing Lichen Distribution Pattern Vartika Gupta, Namita Gupta*, D.K. Upreti and Jaswant Singh

SV/P-48: Evaluation of Antioxidant Potential and Minerals Content in Selected Strains of *Macrocybe* giganteum

Tanvi Gaur*, P.B. Rao and K.P.S. Kushwaha

SV/P-49: Effect of Elevated CO₂ on Fatty Acid Concentration of Oil-Yielding Plant: A Brief Review Surabhi Gupta*, Lovy Raj Chandra and Nandita Singh

SV/P-50: Effect of Free Air CO₂ Enrichment on Litter Production, Chemistry and Decomposition of Trees of Tropical Forest

Apurva Rai*, Ashutosh Kumar Singh, Nandita Ghoshal and Nandita Singh

SV/P-51: Response of *Arabidopsis thaliana* Natural Variations under Low Phosphorous and Arsenate Stress

Tapsi Shukla*, Smita Kumar, Ria Khare, Rudra D. Tripathiand Prabodh Kumar Trivedi

SV/P-52: Biotransfer of Cadmium and Zinc from Sewage Sludge Amended Soil to Mustard-Aphid-Beetle Food Chain

Mudasir Irfan Dar*, Fareed Ahmad Khan and Mohd Irfan Naikoo

SV/P-53: Impact of Iron Stress on Oxidative Metabolism in Vigna radiata (L) Wilczek.

Laxmi Verma* and Nalini Pandey

SV/P-54: Arsenic Toxicity: Responses of Rice Plants Inoculated with Microalga Nanochloropsis sp.

A.K. Upadhyay, N. S. Bankoti and U.N. Rai

SV/P-55: Nitrate Toxicity in Green Leafy Amaranthus

Samina Mazahar*, Ovais Sareer and Shahid Umar

SV/P-56: Role of Arsenic Tolerant Bacteria in Growth Promotion, As Accumulation and Reduction of As Toxicity in Rice Plant

Namrata Singh*, Naina Marwa, R.S dubey and Nandita Singh

SV/P-57: Iron and Manganese Plaque Effect Arsenic Uptake in *Oryza sativa L*. Plant under Waterlogged Condition: A Mode of Metal Retention

Shailza Singh*, D.P Singh² and Nandita Singh

SV/P-58: Lead Accumulation and Toxicity in Zea mays Involves H₂O₂ Accumulation and Deactivation of Catalases

Harminder Pal Singh and Gurpreet Kaur

SV/P-59: Radiotoxicity of Gamma Irradiation in Trachyspermum ammi (L.) Sprague

Harshita Dwivedi* and G. Kumar

SV/P-60: Dual Impact of Gamma Rays and EMS on Cytomorphological Parameters of Sunnhemp (Crotalaria juncea L.)

Saumil Dwivedi* and G. Kumar

SV/P-61: H₂O₂ Pretreated Rice Seedlings Specifically Reduces Arsenate not Arsenite: Difference in Nutrient Uptake and Antioxidant Defense Response in a Contrasting Pair of Rice Cultivars

Ambedkar Gautam*, Navin Kumar, Arvind Kumar Dubey, Ruma Ranjan, Ishita Gupta and Shekhar Mallick

SV/P-62: Interactive Effect of Selenium on Arsenic Accumulation and Detoxification in Rice (*Oryza sativa* L.)

Reshu Chauhan, Surabhi Awasthi, Seema Mishra, Garima Dixit, Sanjay Dwivedi and Rudra Deo Tripathi

SV/P-63: Impact of Coal Mining on Surface Vegetation and Soil Quality in Kakri Mines of Sonbhadra, Uttar Pradesh, India

Neha Upadhyay*, Shikha Devi and Shivesh Sharma

SV/P-64: Detoxification of Fly-Ash Dykes with Metal Tolerant Ornamental Ferns for Sustainable Environment

Alka Kumari

SV/P-65: Impact of Vehicular Emission on Vegetative and Reproductive Characteristics of *Leucaena leucocephala* (Lam.) de Wit. Growing at Different Polluted Roads of Karachi City

M. Kabir, M. Zafar Iqbal, M. Shafiq and Zia-Ur-Rehman Farooqi

SV/P-66: Assessment of Heavy Metals in Aquatic Plants of Kanjali Wetland, Kapurthala (Punjab) Navdeep Singh*, Manpreet Kaur and Jatinder Kaur Katnoria

SV/P-67: Effect of 24-Epibrassinollide Pretreatment on the Morphological and Biochemical Constitutions in UV-B (285-325 nm) Radiation Stressed *Vigna mungo* (L.) Seedlings

A. Asha* and K. Lingakumar

SV/P-68: Effect of Salicylic Acid on Growth, Fluorescence and Antioxidant System of *Solanum melongena* L. Seedlings Grown under Cadmium Stress

Shikha Singh* and Sheo Mohan Prasad

SV/P-69: Physiological and Biochemical Responses of Leucaena leucocephala Seedlings to Heavy Metal Stress

M.S.L. Sunitha*, S.Prashant and P.B. Kavi Kishor

SV/P-70: Stimulatory Responses of Silver Nanoparticles on Some Growth Characters of *Brassica* campestris L.

Kshama Dwivedi* and G. Kumar

SV/P-71: Ecological Significance of Road Side Plant Species in Urban Environment

Priyanka Sharma*, Shailender Kumar, Abhinav Garg and Chirashree Ghosh

SV/P-72: Impacts of Enhanced UV-B Radiation on French Bean Cultivars Grown under Mountain Ecosystem

R. Raghuvanshi* and R.K. Sharma

SV/P-73: Selenite Supplementation Reduces Arsenate and Arsenite Uptake but Alters Phosphate Level in Hydroponically Grown *Oryza sativa* L.

Navin Kumar*, Arvind Kumar Dubey, Ruma Ranjan, Ambedkar Gautam, Ishita Gupta and Shekhar Mallick

SV/P-74: Responses of Wheat and Chickpea to Reduced Levels of Solar Irradiances

Usha Mina*, S.D. Singh, Bhupinder Singh and Suresh Tiwari

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SVI/P-59: Determination of Concentration of Heavy Metals using Moss as Bioindicator in the High Vehicular Traffic Zone of Western Express Highway of Mumbai

Santosh R. Tiwari and Hemlata K. Bagla

SVI/P-60: Bioremediation of Cobalt by Metal-Resistant Bacteria Indigenous to Serpentine Outcrops of Andaman

Arundhati Pal* and A.K. Paul

Session X: ECO-EDUCATION

SX/P-1: A Report on Wild Edible Plants of Banda District (U.P.), With Special Reference to Their Ethnobotanical Significance

Safoora Khan

SX/P-2: Environmental Effect on Cultural and Natural Heritage of Poonch Region

Ashyana Kouser

SX/P-3: Silent Victims: Emerging Issue of Environment

Satheeshbabu Kollambalath

SX/P-4: ENVIS-NBRI Centre Functioning as Node for Awareness about Plants and Pollution

Yashpal Singh* and Nandita Singh

SX/P-5: Energy Conservation in Households in Urban Areas in India

Aashee Garg* and Anusha Agarwal

SX/P-6: Hospital Waste, a Serious Hazard, Its Management and Handling: A Review

Rachna Chaturvedi*, Garima Awasthi, Jyoti Prakash, Saumya Kapur, Aparna Gupta and Sushil Chaturvedi

SX/P-7: Importance of Greenhouse Cultivation to Create Favorable Microclimates at Global Level

Pushpendra Krishna Gaur, Khem Krishna Gaur, Suman Rajput and V.K Sharma

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Session III: PLANT- MICROBE INTERACTION

SIII/P-1: Assessment of Plant Growth Promoting Rhizobacterial Strains from Rice Agrofield

K.K. Dewangan*, A.K. Shrivastava and D.K. Shrivastava

SIII/P-2: Deterioration of Chemical Constituents of *Tectona grandis* Seeds Stored at Different Relative Humidities Due to Spoilage Fungi

Ajay Singh*, Shiwani Bhatnagar, Sangeeta Singh and Parveen Goran

SIII/P-3: Arbuscular Mycorrhizal Colonization in *Psidium guajava* L. and in its Surrounding Herbaceous Community

Alok Tripathi*, Hari Shankar Rai and M.Z. Beg

SIII/P-4: Isolation and Characterization of Stress Tolerant Bacteria and their Utilization for Sodic Soil Reclamation

Vipul Verma*, MalaTrivedi and Rachana Singh

SIII/P-5: Occurrence and Distribution of Vesicular Arbuscular Mycorrizal Fungi in Soil Polluted with Sewage and Industrial Effluents

Alok Tripathi*, Hari Shankar Rai and M.Z. Beg

SIII/P-6: Antimicrobial Potential of Acetonic extract of Coriandrum sativum

Imran Husain* and Archana Tiwari

SIII/P-7: Heavy Agricultural Inputs and its Effect on Soil Microflora with Special Respect to Nitrogen Fixers

Raghvendra Pratap Narayan

SIII/P-8: Isolation and Characterization of Plant growth promoting and Bioprotecting Rhizobacteria from Organically Cultivated Fodder Grasses

Garima Tiwari, Satyawati Sharma* and P. Hariprasad

SIII/P-9: Screening of Rhizobia Based Bioformulation for Plant Growth Promotory Efficiency

Archana Yadav* and Jyoti

SIII/P-10: Effect of Endophytic Fungi on the Growth of Tissue-Cultured Plants of Centella asiatica (L.) Urban

Shubhpriya Gupta* and Preeti Chaturvedi

SIII/P-11: Potential of Fungi Isolated from Pulp and Paper Mill Soil Sludge for the Production of Ligninolytic Enzymes

Deepika Rajwar* and J.P.N. Rai

SIII/P-12: Antimicrobial Ability of *Cuscuta reflexa* with *Acacia nilotica* Host Plant in Respect to its Petroleum Ether and Benzene Extract

Pooja Saini*, Rekha Mithal and Ekta Menghani

SIII/P-13: Microbiological Assessment of Ganga Water at Kanpur, Varanasi and Allahabad, U.P., India

V.S. Baghel* and Anita K. Verma

SIII/P-14: Role of Bacteria for Arsenic Detoxification in Rice

Afroz Ali

SIII/P-15: Co-Application of Bacteria and Algae to Promote Plant Growth and Mitigation of Arsenic Stress

Surabhi Awasthi*, Reshu Chauhan, Seema Mishra, Amit Pal Singh, Sanjay Dwivedi, Suchi Srivastava, Rudra Deo Tripathi and Chandra Shekhar Nautiyal

SIII/P-16: Role of *Trichoderma* spp. in Modulation of Arsenic Induced Phytotoxic Changes in Gene Expression, Stem Anatomy, Arsenic Speciation and Accumulation in Chickpea (*Cicer arietinum* L.)

Pratibha Tripathi*, Ritu Thakur Bais, Poonam C. Singh, Aradhana Mishra, R.D. Tripathi and C.S. Nautiyal

SIII/P-17: Dynamic role of *Trichoderma* spp. in Food Security and Altering Soil Microbial Community in Diesel Fuel-Spiked Soil using Sole-Carbon-Source Utilization Profiles

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