



World Congress on
Biotechnology

Posters

BIOTECHNOLOGY-2011

Track-1: Microbial & Biochemical Technology

- PO-001 **Production of Pectin methylesterase obtained by solid state fermentation of agro-industrial wastes using *Penicillium notatum* NICM 923**
Soumi Gayen and Uma Ghosh
- PO-002 **Adsorption of polyphenol from ginger rhizomes on an anion exchange resin Amberlite IR-400 – Study on effect of degree of agitation**
Chandreyee Datta, Asmita Dutta, Debjani Dutta and Surabhi Chaudhuri
- PO-003 **Study of thermal degradation kinetics of ginger polyphenols**
Asmita Dutta, Chandreyee Datta and Debjani Dutta
- PO-004 **Optimal design of bioreactors for continual operations using chemostat model**
Mohamed Irfanullah A H, Rajesh R and Shankaranandan N
- PO-005 **Modelling study in a chemostat for Monod and Andrew's models to simulate operating conditions for coexistence of two competing microbial populations**
Rupesh Kumar Yadav, Soumyajit Jana, Arivoli M S and Sivaprakash B
- PO-006 **Size reduction and acid pretreatment of sugarcane bagasse for effective production of ethanol by consolidated bio-processing (CBP) using *Neurospora crassa***
Saktishree Jena, Shantanu Rath and M Venkatesh Prabhu
- PO-007 **Response surface optimization for the decolorization of basic dye by using green carbon prepared from prawn waste and *Aspergillus niger*: Kinetic and equilibrium studies**
Narayana Saibaba K V, P King, Sree Lakshmi, B Anusha, P Haripriya and Rinakshi
- PO-008 **Detection of jaggery adulteration in honey using fluorescence spectroscopy**
Sheetal Kumari, Sunita Mishra, A K Paul and Pawan Kapur
- PO-009 **Removal of Cr (III) from aqueous solution using immobilized *Rhizomucor tauricus* and spectroscopic characterization**
Kishore Kumar K, Krishna Prasad M, Sarma G V S and Murthy Ch V R
- PO-010 **Efficient immobilization of lipase onto chemically modified silk fibers: Catalytic properties and applications**
Ashok Kumar and Shamsher Singh Kanwar
- PO-011 **Glucose oxidase immobilized electrode for potentiometric estimation of glucose**
A Kiran Kumar and C Anjanayalu
- PO-012 **Procerain-B: A potential candidate for protease industry**
Abhay Narayan Singh and Vikash Kumar Dubey
- PO-013 **Pegylation of protein**
K Ganesh
- PO-014 **Evaluation of *in vivo* antidiabetic efficacy of (2E, 5E)-2,5-bis(3-methoxy-4-hydroxybenzylidene)cyclopentanone and *in silico* inhibition of AMPK protein**
C G Darshan Raja, B K Sarojini, K Umesha and Mahmud T H Khan

- PO-015 **SCP Production from mixed cultures of *Chlorella* and *Spirulina* strains**
J Suma Priyanka
- PO-016 **Isolation and characterization of Phytase strain from soil**
Raja Mohammed Khader
- PO-017 **Hyperinduction of *Alcaligenes* sp. MTCC 10674 for hydroxynitrile hydrolyzing activity**
Bhatia S K, Bhatia R K, Mehta P K and Bhalla T C
- PO-018 **Epoxide hydrolases (EHs) from fungal strains isolated from Kaziranga National Park, Assam**
Aparajita Duarah, T C Bora and S Sarma
- PO-019 **Antimicrobial activity of bovine trypsin on *Streptococcus mutans***
Khandagale S Ajay, Suchetha Kumari, Shenoy Shilpa M and Balladka Kunhanna Sarojini
- PO-020 **Study of imipenem resistance in gram-negative bacteria**
Jeyashree Krishnan and Vijaylatha Rastogi
- PO-021 **Isolation and purification of Lectin from the *Laticiferous* extract of *Jatropha Curcas* and investigating its anti-coagulant activity.**
B P Nayak, C S Krishna Murthy and Nidhi Garg
- PO-022 **A novel *Bacillus* sp. producing an alkaline lipase with protease activity**
Poonam Kumari, Ashok Kumar and Shamsher S Kanwar
- PO-023 **Comparative study of microbial decolourisation of dyes and stains**
K Jayashree
- PO-024 **Molecular evolution of *Pseudomonas putida* nitrilase for enhanced activity**
Pranjali Bhagwat, Shubhangi Kaushik and U C Banerjee
- PO-025 **Lipase mediated kinetic resolution of racemic alcohols to enantiomerically pure intermediates**
Karuna Thete, Linga Banoth, Brahmam Pujala, A K Chakraborti and U C Banerjee
- PO-026 **Unpredicted influence of N-terminal and C-terminal fused 3X flag-tag on sub-cellular localization of mammalian oxidative demethylase hABH3.**
Chandra Sekhar Chirumamilla
- PO-027 **Production and application of pectinase from agro-wastes of *Aspergillus niger***
Preeti Poonam Dash, Srinivas Rao and A Rajyalakshmi
- PO-028 **Exploration and characterization of fungi isolated from the sediments of Bhitarkanika mangrove, Orissa, India.**
Kadambini Tripathy
- PO-029 **Cystein and other amino acids as by products in alkaline protease production from poultry waste**
V Suneetha, Anshul Sharma and Avinash Srivastava

- PO-030 **Isolation and identification of pathogenic bacteria using 16s rRNA from larvivorous fish, *Aphanius dispar***
Kansara N V, Bhatiya M M, Bhatt N B and Dave S M
- PO-031 **Isolation and identification of pathogenic bacteria using 16s rRNA from faeces of local and migratory birds**
Chaudhari D R, Trivedi VB, Kalvani P N, Jani V R and Dave S M
- PO-032 **Prevalence of rotavirus and adenovirus among the population of wild blue Rock Pigeon**
Thakar M C, Patel S A and Dave S M
- PO-033 **Gamma linolenic acid from endophytic fungi of *Asparagus racemosus***
Riyaz Ahmad Rather, Vijayalakshmi S, Usha V and Kathiravan
- PO-034 **Anticancer activity of *A.niger* RNase(T2 family) from *Aspergillus niger* ATCC26550**
Gundampati Ravi Kumar, Shanti Latha, Sunita Saxena and Mira Debnath (Das)
- PO-035 **Antimicrobial evaluation of rare *Micromonospora* isolated from Kaziranga National Park of North East India**
Madhumita Talukdar, A Yadav, Buragohain A Duarah, S Talukdar, T C Bora and D K Jha
- PO-036 **Calcium signaling proteins are essential for full fertility in *Neurospora crassa***
Ravi Kumar and Ranjan Tamuli
- PO-037 **Cellular roles of the *Neurospora crassa* neuronal calcium sensor-1 homologue**
Rekha Deka and Ranjan Tamuli
- PO-038 **Industrial production of *Penicillium corylophilum* on rice husk and its applications in jute processing**
Veena Gayathri Nitsala
- PO-039 **Production and extraction of scarlet red pigment by *Micrococcus roseus* and its application in textiles**
Madhura Nerurkar
- PO-040 **Production of an alkaline protease by *Vibrio metschnikovii* isolate and its application as a dehairing agent**
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- PO-041 **Chitinase production by a marine fungus in solid state fermentation**
Sancharini Das, Jonali Owary, Ramkrishna Sen and Debasis Roy
- PO-042 **Detection of novel marine biosystems from wood degrading fungal samples & production of laccase by a newly isolated strain**
N Vijaya Sree, P Udaya Sri, G V Ramana and N Rama Rao
- PO-043 **Biocatalysis: A boon for green or sustainable environment by comparison of pesticide biomineralising ability of the selected fungal species in cotton soils of Andhra Pradesh, India**
P Udaya Sri, N Vijaya Sree, K M Subbu Rathinam and K R S Sambasiva Rao
- PO-044 **Biochemical characterization of *Aspergillus fumigatus* L-amino acid oxidase**
Susmita Singh, B K Gogoi and R L Bezbaruah
- PO-045 **Study on the production of extra-cellular polymeric substances by metal- resi stant bacteria and biosorption of toxic metals by exo-polymer**
Diptendu Sarkar, Amit Ghati, Mouri Ghosh, Kaushik Sarkar, Panchali Tarafder and Goutam Paul

- PO-046 **Antimicrobial activity of Piper Betel**
Spandana N, Jesonbabu J and Arunalakshmi K
- PO-047 **Molecular study of Purple Non- Sulfur (PNS) bacterial isolate to produce maximum hydrogen production at stationary phase**
Asheesh Kumar Pandey, Neha Srivastava, Deepmala Dubey and Anjana Pandey
- PO-048 **Development of a new antifungal effect assay of biochemical compounds based on ATP bioluminescence**
Erika Nava-Reyna
- PO-049 **In vitro antimicrobial potentialities of chloroform extracts of ethnomedicinal plant against clinically isolated human pathogens**
Jesonbabu J and Aruna Lakshmi K
- PO-050 **Activation of a mitogen activated protein kinase pathway in relation to *Sclerospora graminicola* infection**
Melvin Prasad, Anup Chandra Pal, Shailashree and Ramachandra Kini
- PO-051 **Isolation and characterization of dehalogenase from tropical marine yeast *Yarrowia lipolytica***
Chandrika Bendigiri, Smita Zinjarde and Ameeta Ravi Kumar
- PO-052 **A novel psychrophilic α -amylase producing bacterium, *Aeromonas veronii* NS07 isolated from farm soils**
Nima Samie, Kambiz Akbari Noghabi, Hossien Shahbani Zahiri and Habib Abbasi
- PO-053 **Characterization and flocculating property of carbohydrate polymer from a river isolate *Acinetobacter junii* BB1A**
Krishna Kant Yadav
- PO-054 **Effect of media composition on Piperine content in callus cultures of Black pepper (*Piper nigrum* L.)**
K D Achintya, R Sujatha, R S Vidya, J Biji and P A Nazeem
- PO-055 **Comparison between *B. subtilis* and *B. cereus* for the production of industrially important enzyme amylase**
Pinki Dey and Chris Mallika Bhadra
- PO-056 **Antimicrobial effect of licorice (*Glycyrrhiza glabra*) and bay leaves (*Laurus nobilis*) against *Streptococcus* sp. isolated from dental plaque**
Pratibha Gogna, Manuj Thakur, Neeraj Kumar and Seema Patel
- PO-057 **Isocitrate dehydrogenase of *Staphylococcus aureus* a probable drug target in the development of anti *Staphylococcus aureus* drug**
U Venkateswara Prasad
- PO-058 **Extended-Spectrum β -Lactamase-producing shiga toxin gene (stx1)-positive *Escherichia coli* isolated from retail market chicken meat and associated niche in Meghalaya, India.**
Purabi Saikia and S R Joshi
- PO-059 **Novel spectroscopic methods for estimation of Tannic Acid using HRP**
Naga Koumudi Vankamamidi, Navya Reddy Danda, Douglas Daniel Kumar and Vijaya Saradhi Settaluri
- PO-060 **Production and characterization of amylase enzyme from a newly isolated bacterial strain**
Omkar Regmi, Prakash Chandra Bhatt, Washim Khan and Bibhu Prasad Panda

- PO-061 **Soluble fraction of *Trichosanthes dioica* peroxidase in decolorization of reactive orange 15**
Prabhash K Pandey, Ranjan Singh, Tabish Qidwai and Farrukh Jamal
- PO-062 **Response surface optimization of hydrogen production by *Clostridium pasteurianum* and design of a chemostat using MATLAB**
R Sangeetha, B Sivaprakash and T Karunanithi
- PO-063 **Microbial conversion of epichlorohydrin to (1-naphthoxy) methyl oxirane, a chiral precursor to propranolol, using *Yarrowia lipolytica* NCIM 3589**
Ruta Jog, Aakanksha Vatsal, Smita Zinjarde and Ameeta Ravikumar
- PO-064 **Fibrinolytic activity of *Lactococcus lactis* isolated from traditional fermented soybean food of Meghalaya**
Sharmila Thokchom and S R Joshi
- PO-065 **Studies on phytase isolated from *Shigella* sp.**
Shilpi Gosh
- PO-066 **Activity and biotoxicity of filamentous cyanobacteria under managed levels of heavy metal to make a biosensor**
Soumya K K, Shanthi Sundaram, Ashutosh Tripathi, Akhlaqur Rahman, Sushil K Singh and Amita Gupta
- PO-067 **Two forms of ribosomal protein L2 of *Escherichia coli* that inhibit DNA in DNA replication.**
Chodavarapu S, Felczak MM and Kaguni JM
- PO-068 **Inorganic Sulfur compound oxidation phenotype in cultivable acid- and cold-tolerant mixotrophic bacterium designated as *Psychrobacter* sp. GMX7, isolated from acid mine drainage of Garubathan, India**
Suparna Saha Bhowal and Ranadhir Chakraborty
- PO-069 **Production, purification and charecterisation of tannase from cashew testa using *Aspergillus niger***
Vincent Vineeth Leo, Vinod Viswanath, Sabna Prabha S, Muneer A M and Potty V P
- PO-070 **Enhanced production of 1, 3-propanediol by a newly isolated *Klebsiella pneumoniae* 141B strain using crude glycerol as a substrate**
Vanajakshi Jalasutram, Annapurna Jetty and Priyanka Aduri
- PO-071 **Antifungal compounds applied on hydroponic green fodder system**
Cecilia Balvantín
- PO-072 **Conjugation of InGaP quantum dots with protein for Immunohistochemistry application**
Parveen Kumar
- PO-073 **Effect of Deltamethrin on antioxidant enzymes, lipid peroxidation and chlorophyll content in two variety of black gram (*Vigna mungo*)**
Deepmala Dubey and Anjana Pandey
- PO-074 **Screening, isolation and identification of marine actinomycetes exhibiting antimicrobial activity**
Srinivasarao G, Prathyusha Showri T, Pradeep Sagar G, Bhavani A K, Swathi N, Prabhakar T and Girijasankar G

- PO-075 **Microbial community changes and isolation of tolerant strains from thiocyanate contaminated site**
Muthukumaran V R, Govindaraju M, Visvanathan P and Ganeshkumar RS
- PO-076 **Optimization of culture media for enhanced chitinase production from *Bacillus pumilus* using response surface methodology**
P Udhaya, R Nandhini and S R Prabakaran
- PO-077 **Screening, isolation and identification of marine actinomycetes exhibiting antibacterial activity**
G Pradeep Sagar, G V Phani Bhushan, Prathyusha Showri T, Divya veena P, Vidyasagar T, Prabhakar T and Girijasankar G
- PO-078 **Biochemical and rubisco enzyme changes in selected plant species around lignite-fired thermal power plant**
Govindaraju M, Ganeshkumar R S, Suganthi.P, Muthukumaran V R and Visvanathan P
- PO-079 **Studies on phytase isolated from enteric bacteria: An attempt to develop phytase for feed applications**
M Poddar, M Pal Roy, K K Singh, A Singh and S Ghosh
- PO-080 **Synthesis, characterization and antimicrobial studies on Co (II), Ni (II), Cu (II) and Zn (II) complexes of N, O, donar heterocyclic Schiff bases**
R Shakru, N J P Subhashini, Acharyanagarjuna and Shivaraj
- PO-081 **Isolation and screening of actinomycetes having potential of producing antimicrobial agents**
Shweta Panwar, Rishabh Mishra and Roshmi Rekha Sarma
- PO-082 **Study on gut-associated amylase-producing bacteria in some commercially important fresh water riverine ichthyofauna of North Bengal (West Bengal, India)**
I Sen Gupta, A Patra and M Pal Roy
- PO-083 **Identification of Acetyl-CoA carboxylase α (ACACA) in *Bubalus bubalis***
Anil Kumar, Vinod Chhokar, Vikas Beniwal, Ravinder Kumar, Anamika Mishra, Ashwin Ashok Raut and S N Kala
- PO-084 **Efficacy of bacterial strain *Micrococcus* sp. PS-1 for the enhanced biotransformation of phenylurea herbicide diuron**
Bipul Kumar and C Raman Suri
- PO-085 **Isolation and evaluation of nigerloxin, a novel inhibitor of lipoxygenase with free radical scavenging activity from *Aspergillus niger***
Aparajita Anand, Muralidhar Talkad, Randhish Mandal and Pedenla Lama
- PO-086 **Potential of marine actinomycetes to produce pharmacologically active metabolites**
G V Phani Bhushan, T Prabhakar and G Girijasankar
- PO-087 **Algal innovation - An alternative source for existing crisis**
Soumen Roy, Ashutosh Kumar, Prem Prafull and C K Hindumathy
- PO-088 **Effect of the fungicides on the urease and protease activities in two groundnut (*Arachis hypogaea* L.) soils**
A C Ramudu, M Srinivasulu, G Jaffer Mohiddin and V Rangaswamy
- PO-089 **Fish waste (gills, liver, intestine) as a rich source of Omega-3 PUFA's : Screening, extraction and purification**
Lanke Vinay, Kota Venkatesh and B Chandra sekhar

- PO-090 **Analysis of heterogeneity in phenotypic states of *Corynebacterium glutamicum***
Meghna Rajvanshi and K V Venkatesh
- PO-091 **Immunomodulation and anticancer potentials of probiotics**
Sagar Jadhav, Umesh Kumar Schandilya, Gundeep Kaur and Umesh Sontakke
- PO-092 **Studies on production and partial purification of lipase from isolated *Bacillus* sp. IICT-APJ-B03-10; Immobilization and characterization studies using sol gel method**
Subhakar Chennupati, Krishna Madhavi and Annapurna Jetty
- PO-093 **Bio-filtration kinetics of ethylacetate and xylene using sugarcane bagasse based biofilter**
V Saravanan, M Rajasimman and N Rajamohan
- PO-435 **Statistical optimization of 1,3-propanediol production by *Clostridium diolis***
Guneet Kaur, Ashok K. Srivastava and Subhash Chand
- PO-436 **Enhanced Biopolymer production by *Azohydromonas australica* using statistical media optimization**
Geeta Gahlawat and Ashok K. Srivastava
- PO-437 **Impact of agitation on metabolic heat and product formation of *Aspergillus tamarii* by submerged growth**
Balaji Dhandapani and Surianarayanan Mahadevan
- PO-440 **Ionic liquid assisted degradation of Acid Blue 113 by *Staphylococcus lentus* and its metabolic pathways**
Sudharshan Sekar, Surianarayanan Mahadevan and Asit Baran Mandal
- PO-442 **Optimization of medium composition for intracellular Penicillin G acylase production from recombinant *Bacillus badius pac* expressed in *E.coli* DH5 α using artificial neural network and genetic algorithm**
Karthikeyan Rajendran, Premalatha Chinnasamy and Surianarayanan Mahadevan

Track-2: Pharmaceutical Biotechnology

- PO-094 ***In vitro* and *In vivo* antioxidant property of 1, 2, 4 Triazole derivatives**
Madhu L N, Suchetha Kumari N and Naveen P
- PO-095 **Role of cytochrome P450 in drug discovery and toxicology**
Likhitha Atluri and Srujana Nagelli
- PO-096 **Cobalt ligand mediated Peg- Si RNA for cancer treatment**
G Goverthanam and M Subramanian
- PO-097 **Preparation and characterization of novel span-80: Tween-80 based organogels for food and pharmaceutical industries**
S R Teepireddy, S S Sagiri, B Behera, K Pala and S S Ray
- PO-098 **Changes in haematological values due to the effect of some Artemisinin to *Plasmodium falciparum***
M Rajya Lakshmi, J Kantha Rao, P Kiran Kumar and K Sunita
- PO-099 **Design of non-invasive fatigue detection device and its application**
B Maharathi, P Dey and B P Nayak

- PO-100 **Optimization of process parameters using RSM for biosorption of lead using algal biomass, isotherm and kinetic studies**
Prasanna S, Ashique Ahmed and Arivazhagan M
- PO-101 **Investigating and scoring driver's fatigue from variations in biological stress factors by physiological and immunoassay methods**
B P Nayak, Nidhi Garg and C S Krishna Murthy
- PO-102 **Biosorption of manganese by *Parthenium hysterophorus* : Isotherms, kinetics and thermodynamics**
Lakshmi Kunchala, V Rama Rao, S Silas and I Sarat Babu
- PO-103 **Isotherms, kinetics and thermodynamics studies on the biosorption of cadmium using *Parthenium hysterophorus* L**
Mridula Krothapalli, Mridula Krothapalli, V Rama Rao, S Silas and I Sarat Babu
- PO-104 **Statistical evaluation of medium components by experimental design for enhancing the COX (cholesterol oxidase) production from *Rhodococcus* sp**
Seraj Ahmad and Pranab Goswami
- PO-105 **Studies on production of streptomycin from *Streptomyces griseus* MTCC 4734 on different nutrient media**
Syed Mahmood Hassan, Mir Naiman Ali and Mazharuddin Khan Mohd
- PO-106 **Polymer controlled drug delivery by polyhydroxybutyrate, synthesized from *Bacillus megaterium* NCIM 2533**
Sisir Kumar Barik, Anil Kumar Vemu and M Saravanan
- PO-107 **Time-kill curve studies of Piper Betel extract against *Staphylococcus aureus* & *Streptococcus pyogenes***
Vasanth Priya E
- PO-108 **Evaluation of Plumbagin and its derivative as potential modulator of redox thiol metabolism of *Leishmania parasite***
Neha Sharma, Anil Kr Shukla and Vikash Kr Dubey
- PO-109 **Phosphodiesterases in the pathophysiology of diabetes mellitus**
Saraswati Mudigonda, Srilatha G, Vijay Shekhar Reddy and Surekha Rani H
- PO-110 **Inositols from *Hevea brasiliensis*: Isolation of L- quebrachitol and studies on its extraction from different latex serum sources**
Jayasree Gopalakrishnan, Molly Thomas, Preenu Annie Abraham, K Annamalainathan, R Krishnakumar and James Jacob
- PO-111 **Inhibition of recombinant human DHFR activity in presence of 3-[[4-Dimethylaminophenyl] methylene] amino}-2-phenylquinazolin-4(3H)-one and characterization of dimerization property of the inhibitor**
Biprakash Kumar Tiwary, Kiran Pradhan, Ashis K Nanda and Ranadhir Chakraborty
- PO-112 **Therapeutic toxins a new dimension in drug discovery approach**
Goutham Thipirishetty
- PO-113 **In-silico development of new drug against *Vibrio cholerae***
Rohit Sahu, Ruhtash Sharma and Akanksha Singh

- PO-114 **Amphotericin B loaded nanopolymersomes (PAMBO) as a safe drug delivery system: Preclinical development as a lab example**
Neeraj kumar
- PO-115 **Modern analytical tools to assure the quality control in development of standardized herbal drugs**
Anurag Singh, Rajesh Kumar Singh and P K Singh
- PO-116 **Method development for amino acid detection on GC/MS in biomass hydrolysate of *Amycolatopsis mediterranei* for ¹³C-Metabolic Flux Analysis**
Avinash Sinha and Pramod P Wangikar
- PO-117 **Automated particle property analysis using Image J**
A Ray, B Maharathi and P Swami
- PO-118 **In silico identification of potential drug targets in *Bacillus cereus* 03BB102 responsible for major foodborne diseases**
Hemalatha Punati, K S N Jyothi, Sri Venu Madhav Tippabhotla and Challa Suresh
- PO-119 **Early detection and evaluation of cell death in fresh and cryopreserved buffalo (*Bubalus bubalis*) spermatozoa using flow cytometer**
Gundeep Kaur, Sagar Jadhav and S K Atreja
- PO-120 **Drugs from deep - marine sponges as a source of novel bioactive molecules**
V N Hemanth, Varma G, Srinivasarao A, Anitha P, G V Phani Bhusan, Prabhakar T, G Girija Sankar and Murali Krishna Kumar M
- PO-121 **Design optimization of caged ball heart valve and its hemodynamics**
Jyoti Gupta
- PO-122 **Study and isolation of antibiotic producing microorganisms from phyllosphere of Iranian plants**
Zamani M and Sardari S
- PO-123 **Drug discovery from natural sources**
K J Keerthi, Shaik Sufhiya Begum and N M Yugandhar
- PO-124 **Association analysis of agronomically important traits by using SSR markers in sunflower (*Helianthus annuus* L.)**
T Anandhan, A Karthikeyan, N Manivannan and P Vindhiyavarman
- PO-125 **Role of piperine in enhancing bioavailability of P-gp substrate simulation for next generation of P-gp modulators**
Durg Vijay Singh, Krishna Misra, Preeti singh and Madan Godbole
- PO-126 **Alternative platform to protein-a affinity chromatography for purification of antibodies**
Deore G A, Karkare R, Kale S B, Raina M and Lali A M
- PO-127 **Validation of a novel spectrophotometric methods for estimation of Deferasirox**
P Lalitha Manasa

- PO-128 **Encapsulation of food grade organogels in alginate microspheres for controlled drug delivery**
S R Teepireddy, Sai Sateesh Sagiri, B Behera, B K Biswal, S S Ray and K Pal
- PO-129 **Buffalo (*Bubalus bubalis*) follicular oocyte and cumulus expressed genes follow time dependent differential expression during in vitro maturation**
Sarvesh Raghav, Sonia Gaur and T K Datta
- PO-441 **Curcumin loaded PHEMA nanoparticles: Preparation, characterization and *In vitro* drug release studies**
Sathish Sundar, Dhilip Kumar and Surianarayanan Mahadevan

Track-3: Bioremediation & Biodegradation

- PO-130 **Study of the degradation of Polycyclic Aromatic Hydrocarbons (PAHs) with protoplast fusion technology**
Jing Lu
- PO-131 **Bromobenzene degradation by a tropical marine yeast: *Yarrowia lipolytica***
Aakanksha Vatsal, Smita Zinjarde and Ameeta Ravi Kumar
- PO-132 **Biodegradation of volatile organic compounds using rotating biological contactor**
Ivo Romuld Sagayaraj
- PO-133 **A comparative study of biodegradation of phenol by different *Pseudomonas***
Satyasundar Mohanty, G R Satpathy and H M Jena
- PO-134 **Biodegradation of hydrocarbon contaminated soil by bacterial consortium**
Snehita Chauhan
- PO-135 **Biodegradation of steel industrial effluents**
R Jyothi, B Ganga Bhavani and L Jyothi
- PO-136 **Aromatic Compound degradation**
Sudharshan Varma, J Mohanapraba and B Umamaheswari
- PO-137 **Biodegradation of poultry waste to generate mosquitocidal toxins and feed supplements**
Abhishek Gupta, Ritika Sinha and Nidhi Singh
- PO-138 **Decolourization and biodegradation of the textile dyes Levafix blue E-RA and Isolan Dark Blue 2S-GL 01 by the *Irpex lacteus*.**
Duraisamy Kalpana, Hyo Jung Cha, Jung Hoon Han and Yang Soo Lee
- PO-139 **Detoxification of synthetic dyes resulting from biodegradation by white-rot fungus *Irpex lacteus***
Katerina Malachova
- PO-140 **Isolation and partial purification of acid protease produced by isolated *Lactobacillus plantarum* used for decomposition of shrimp Bio-waste**
Kandra Prameela, P V Smitha, S V S S G Apurva, M Vinuthna, M J Freckilton and K P J Hemalatha

- PO-141 **Isolation, identification and efficiency of new *Escherichia coli* bacterial strain for the degradation of Cnsl and its contaminated water from cashew industry**
Sabna Prabha S, Sisu Pramod S, Muneer A M, Vinod Viswanath, Vincent Vineeth Leo and Potty V P
- PO-142 **Mycorrhizosphere: An ecological remediation unit**
Bhawana S Pathak and M H Fulekar
- PO-143 **Bioremediation of dye effluent and contaminated soils**
S N Prabhu Kumar
- PO-144 **Production, mechanistic characterization and properties of pectinases from *Bacillus* sps isolated from fruit industrial waste**
Prathusha K and Suneetha V
- PO-145 **Potential of *Bacillus* sp. isolated from the paper industry effluent for the waste water treatment**
Komal S Gomare and G Gyananath
- PO-146 **Removal of hydrogen sulphide from petroleum wastewater using microbial technology**
Karthikeyan M and Lakshmanan D
- PO-147 **Bioremediation of petrochemical waste- Recent advances**
M H Fulekar, Tanvi Godambe and Sheetal Koul
- PO-148 **Preliminary biogeochemical study of Musi River and ground water for designing strategies for bioremediation of contaminants**
Kushal P Singh, Preethi V and Shakeel Ahmed
- PO-149 **Stability and growth of hetrocystous cyanobacteria under organic compound treatment**
Soumya K K and Shanthi Sundaram
- PO-150 **Detoxification and biotransformation of chlorinated nitroaromatic compounds by bacteria**
Pankaj Kumar Arora
- PO-151 **Enhanced biodegradation of phenol by *Pseudomonas pseudomallei* with additional carbon sources**
B Nagamani, M V V Chandana Lakshmi and V Sridevi
- PO-152 **Attenuation of the heavy metals present in the mill tailings of kolar gold fields (KGF)**
Gowrang More, Roshan Kumar and Muralidhar Talkad
- PO-153 **Remediation of oil spills using biosurfactant obtained from *Pseudomonas putida***
M Karthikeyan and K V Radha
- PO-154 **Biodegradation of para-nitrophenol by *Pseudomonas aeruginosa***
M S S Swamy, S Bhami Reddy, V R L Sharlotte, A Priyanka and K D Sowjanya
- PO-155 **Production of Exo-polysaccharides from agricultural wastes for food and biomedical application**
Bishwambhar Mishra, Kalyani Rath and Apoorvi Chaudhri

Track-4: Molecular Biology and Bioinformatics

- PO-156 **Cloning and characterization of Sodium Proton Antiporter (NHX1) gene from Sorghum and comparative genome analysis of its homologs among 3 grass species**
P Hima Kumari, Anil Kumar S, S Deshpande, Trushar Shah, C Tom Hash and P B Kavi Kishor
- PO-157 **Overexpression of Na⁺/H⁺ antiporter (NHX1) gene to enhance salt tolerance in peanut (*Arachis hypogaea L.*)**
Venkatesh K and Chakrapani P
- PO-158 **RNAi- A novel gene regulatory mechanism**
Mamidi Krishna and Nagelli Srujana
- PO-159 **Genetic variation among the population of wild blue Rock Pigeon**
Jani V R, Raval D A, Mevada M S, Trivedi A V, Dave N G and Dave S M
- PO-160 **Global gene expression profiling of contrasting *Gossypium Spp.* for deciphering highly stage specific genes and metabolic pathways governing drought tolerance**
Deepti Nigam
- PO-161 **Differential expression of desaturase genes in developing seeds of high and low ALA containing Indian flax varieties**
Ashwini V. Rajwade, Reema M Banarjee, Narendra Y Kadoo and Vidya S Gupta
- PO-162 **In silico analysis and evaluation of drought responsive genes in pigeonpea by comparing with the cDNA libraries of soybean leaf**
Nagaraja D, Ramesh CK, V Krishna and Santosh Kumar HS
- PO-163 **Sequencing of 16s rDNA gene: A rapid tool for identification of endophytic bacteria from in vitro cultures of cashew**
Jusna Mariya P L, Keshavachandran R, Nazeem P A, Girija D and Surendragopal K
- PO-164 **In-silico evaluation of ligand against sur1 receptor (Diabetes mellitus)**
Rohit Sahu
- PO-165 **In-silico docking and QSAR analysis of HIV protease inhibitors as anti-Dengue drugs**
Prangya Ranjan Rout, G R Satpathy and Raghunath Satpathy
- PO-166 **Structural analysis of ES-31 serine protease from *Mycobacterium tuberculosis* by using bioinformatic tools**
Swati singh and Mira Debnath (Das)
- PO-167 **Docking studies of surfactant protein-D on mannose family members**
V S J K Teja
- PO-168 **Molecular characterization and diversity of tannin tolerant ruminal bacteria of Indian goat**
T G Sathe, A S Kurkute and M K Jhala
- PO-169 **Engineering nitrilase gene for the simultaneous improvement of oxidative and thermostability**
Anup Kubetkar, Shubhangi Kaushik and U C Banerjee

- PO-170 **In silico docking analysis of piperine amino acid analogues against carcinogenic activating enzymes**
M Taraka Ramji, K Deepthi, K Aruna Lakshmi and P Uma Devi
- PO-171 **Computer-aided substrate screening for *Alcaligenes faecalis* nitrilase**
Kapil Jain, Vaibhav Jain, Vachan Singh Meena, P V Bharatam and U C Banerjee
- PO-172 **Variability characterization in Nendran ecotypes of Banana (*Musa* spp.) using genetic markers.**
Rakeshkumar S Choudhary, R Keshavachandran, P A Nazeem, Rema Menon and D Girija
- PO-173 **Development of a PCR-based diagnostic assay for detecting *Bipolaris oryzae*, the brown spot fungus in rice**
Archana B, UdayaShankar A C, ChandraNayaka S, Niranjana S R, Mortensen C N, Lund O S and Prakash H S
- PO-174 **DNA fingerprinting of southern Caspian Sea population of amphipod (*Pontogammarus maeoticus*)**
Safaeian SH, Ghareyazie B and Mottaghi A
- PO-175 **Sensitive and specific detection of *Xanthomonas axonopodis* pv. *vesicatoria* by direct colony Polymerase Chain Reaction**
Chandan S and Umesha S
- PO-176 **Development of PCR-SSCP technique to detect bacterial wilt pathogen of vegetables**
Chandrashekar S and Umesha S
- PO-177 **Identification of resistance gene analogs in cabbage by PCR-SSCP analysis**
Kaunain Roohie R and Umesha S
- PO-178 **Chitosan/wollastonite composite scaffold preparation by freeze gelation method**
U Sindhu, N Panda and K Pramanik
- PO-179 **Fatty acid fingerprinting of *Cymbella* sp isolated from Pichavaram mangrove waters**
Jagannathan N
- PO-180 **Surface effect of ZnO nanostructures and its application in ultrasensitive chemical/photo/bio detection**
Jose Ramon Duran Retamal
- PO-181 **Computational approaches to identify the putative Hydrogen and Oxygen channels in Fe – only hydrogenase**
Pratik Vikhe and Razia Kutty
- PO-182 **Mutation induced conformational fluctuations in Glucokinase: A molecular dynamics study.**
Nanda Kumar Yellapu
- PO-183 **Mathematical modelling of biodegradable polymer implants**
Rama Subba Reddy
- PO-184 **Pharmacophore modeling and 3D-QSAR of novel Chalcone derivatives as *Plasmodium falciparum* growth inhibitors**
Nitendra Sahu
- PO-185 **In silico structure and substrate binding analyses of family 35 carbohydrate binding module (CBM35) from cellulosome of *Clostridium thermocellum***
Anil Kumar Verma, Arabinda Ghosh and Arun Goyal

- PO-186 **Studies on isolation, characterization and thermal adaptation of probiotic *Bacillus subtilis* SK09**
G Sreekumar, Nandini Ravi, R Anjugam, S Abinaya and Alice Padmini Albert
- PO-187 **Small cell lung carcinoma GLC4 cell line originated the lung tissue like structure on 3D-PVDF nanofibrous scaffold**
Krairuek Daowtak
- PO-188 **Molecular modeling and computational simulation of Pphotosystem-II reaction centre to address isoproturon resistance in *Phalaris minor***
Shikha Agarwal, Durg Vijay Singh, Rajesh Kumar Kesarwani and Krishna Misra
- PO-189 **Cloning and expression of an organophosphate degrading gene (opdK) from a novel bacterium *Kocuria sp***
N Nagavardhanam
- PO-190 **Simple and low cost method for amplification of GC rich segments by touchdown PCR**
Daliparthi D Pratyush, Shalbha Tiwari, Balram Gupta, Awanindra Dwivedi and Surya K Singh
- PO-191 **Assessment of genetic diversity of different landraces of Tarter Buckwheat through SSR and ISSR markers**
Garima Kishore, Shashi Ranjan, Sanjay Gupta and Anjana Pandey
- PO-192 **Accessing genetic diversity in Chickpea (*Cicer arietinum* L.) genotypes using ISSR markers**
Himanshu Aggarwal, Vinus Kumar, Anil kumar, Jasbir Singh and Vinod Chhokar
- PO-193 **Genetic diversity of breeding maize inbred lines determined by SSR markers**
S Kanagarasu, N Senthil, G Nallathambi, K N Ganesan and N Kumaravadivel
- PO-194 **In Silico modeling and simulation of a proteasome subunit as molecular target for multiple myeloma**
Nisha K Chauhan, Nitya Singh and Krishna Misra
- PO-195 **Phylogenetic analysis of chloride ion channels to determine active motif: An in silico approach**
Paikrao V M and Rattan K
- PO-196 **Assessment of genetic variation and haevy metal concentration on Green Mussel (*Perna viridis*) in south Indian coastal region using RAPD markers**
P Visvanathan, M Govindaraju, V R Muthukumaran and R S Ganeshkumar
- PO-197 **Experimental validation of structured model representing the utilization pattern of substitutable substrates in Rifamycin B fermentation**
Avinash Sinha and Pramod P Wangikar
- PO-198 **Mechanism of isoproturon resistance in *Phalaris minor*: In silico design, synthesis and testing of some novel herbicides for regaining sensitivity**
Durg Vijay Singh, Kurba Adeppa, Rajesh Kumar Keserwani and Krishna Misra
- PO-199 **A study of pharmacokinetics of Curcumin and Curcumin Bio-conjugates by NMR and computational methods**
Durg Vijay Singh, Santosh Kumar Bharti, Raja Roy and Krishna misra

PO-200 **Isolation and identification of pathogenic bacteria using 16s rRNA from Larvivorous fish, *Poecilia reticulata***
Kansara N V, Bhatiya M M, Bhatt N B and Dave S M

PO-201 **Role of XRCC5 repeat polymorphism in the development of acute leukemia**
SugunakarVure, C Anuradha, Nageswar Rao Dunna, G Manjula, N Santhoshi Rani, D Raghunadha Rao, Sudha Sinha, Atili Suresh and S Vishnupriya

PO-202 **DNA barcoding to discriminate *Dalbergia* spp. from Western Ghats**
Bhagwat R M, Dholakia B B, Balasundaran M, Kadoo N Y and Gupta V S

Track-5: Biosensors & Bioelectronics

PO-203 **EEG signal analysis: An opening to the brain computer interface**
Surita Maini and Sanjeev Singh

PO-204 **Cytochrome C biosensor using cytochrome C reductase linked to self-assembled monolayer on gold nanoparticles in polypyrrole matrix**
Manickam Pandiaraj, Thangamuthu Madasamy, Seenivasan Rajesh, Kalpana Bhargava, Kotamraju Srigriridhar, Govindaswamy Izhavazhagan and Chandran Karunakaran

PO-205 **Gold nanoparticles with self-assembled cysteine monolayer coupled to nitrate reductase in polypyrrole matrix enhanced Nitrate biosensor**
Thangamuthu Madasamy, Manickam Pandiaraj, Seenivasan Rajesh, Kotamraju Srigriridhar, Kalpana Bhargava, Niroj Kumar Sethy, Govindaswamy Ilavazhagan and Chandran Karunakaran

PO-206 **Electrophoretic deposition of Chitosan-Zirconia composite for fabrication of a DNA biosensor**
Chris Mallika Bhadra and Piyush Swami

PO-207 **Overview of electrode technology used for acquisition of bioelectric signals**
Piyush Swami, Anupama Ray and Sirsendu S Ray

PO-208 **Fabrication of cholesterol oxidase bioelectrode using carbon nanotube and polyethyleneimine with carbon nanotube based direct electron transfer for biosensor application**
Madhuri Das and Pranab Goswami

PO-209 **Enzyme based biosensor for organophosphates estimation employing metal enhanced fluorescence**
Shaveena Thakur, Jitin Kumar, Poonam Kumari and A K Paul

PO-210 **Immunosensor for detection of phenyl urea herbicide Diuron using electrochemical impedance spectroscopy**
Vijayender Bhalla and Priyanka Sharma

PO-211 **Amperometric biosensors for the determination of beneficial compounds for human health**
Maria Alicia Zon

PO-212 **The video imaging of the behavior of Caco-2 cells in conventional and 3D culture system: Existence of small fraction of cancer stem cells in the cell line**
Sillapaluck Sintubua

PO-213 **Synthesis and characterization of Fe (III)-Pyrimethamine complex and its potential use as MR-imaging probe for assessing the P-glycoprotein function**
Poladate Kantakam, Samlee Mankhetkorn and Nathupakorn Dechsupa

- PO-214 **Development of potential molecular probes for stem cell imaging**
Dutsadee Suttho, Anan Udom-Uttaracheva, Montree Tungjai, Nathupakorn Dechsupa and Samlee Mankhetkorn
- PO-215 **Development of 3rd generation alcohol biosensors using multiwalled carbon nanotube(MWCNT) –nafion as electroactive matrix for immobilization of alcohol oxidase on electrode surface**
Madhuri Das and Pranab Goswami
- PO-216 **Amperometric biosensors for the determination of beneficial compounds for human health**
Maria Alicia Zon

Track-6: Nanoscience & Nanotechnology

- PO-217 **Construction and application of mannose-grafted poly-DL-Lactide-co glycolide nanoparticles for active targeting of macrophages.**
Arindam Maity, Shampa Sarkar, Smritinath Chakraborty, Nirup Bikash Mondal and Sanchaita Lala
- PO-218 **Green synthesis of silver nanoparticles from spinach leaves and the investigation of wound healing property**
Preritha Mercy, Prerana Solanki and T B Sridaran
- PO-219 **Development, characterization and efficacy of amphotericin B bearing PGA nanoparticles in treatment of disseminated Murine candidiasis**
Qamar Zia and M Owais
- PO-220 **Gold nanoparticle conjugated oligonucleotide probes for visual detection of *Pseudomonas aeruginosa***
Padmavathy B, Vinoth Kumar R and Jaffar Ali B M
- PO-221 **Electrochemical determination of nitrite using Copper (II) Chlorophyllin complexed to Zinc oxide nanoparticles in polypyrrole matrix**
Murugesan Balamurugan, Seenivasan Rajesh, Kalpana Bhargava, Sushil Kumar Singh, Govindasamy Ilavazhagan and Chandran Karunakaran
- PO-222 **Synthesis and characterization of Eu⁺⁺⁺/Y₂O₃ (red) and Tb⁺⁺⁺/Y₂O₃ (green) nanophosphors by hydrothermal process for their biotechnological applications**
Ravindra Pratap Singh, Ashutosh Pandey and Anjana Pandey
- PO-223 **Why do we need to adapt synthesis and characterization of nanomaterials for toxicity studies?**
Deborah Berhanu
- PO-224 **Use of nanostructured mixed metal oxides for groundwater treatment**
Sayan Bhattacharya and Uday Chand Ghosh
- PO-225 **Gold nanoparticles synthesis: A green approach**
Aparna Mulay, Abhishek Kaler and U C Banerjee
- PO-226 **Gold nanoparticles synthesis by the biological nano-factories: A competent advance**
Yogesh Nangia, Nandita Pandey, Satish K Pandey and C Raman Suri
- PO-227 **Nanomaterials for stem cell labelling & imaging**
G RajaPandiyam and Midhun K S

- PO-228 **Biosynthesis of metal nanoparticles via living organisms and their byproducts**
Hasan Rostami, Amir Moslem and Mahdi Dehdashti
- PO-229 **Biosynthesis of gold nanoparticles by using the plant *Torreya nucifera***
Duraisamy Kalpana, Amrita Mishra, Han Jung Hoon, Soon Il Yun and Yang Soo Lee
- PO-230 **A nanovaccine (RD antigen entrapped into Archaeosome) imparts long term protection by inducing memory response against experimental Murine tuberculosis**
Ansari Mairaj Ahmed, Farazuddin Mohammad and Owais Mohammad
- PO-231 **Hydroxyapatite nano-rod synthesis by a modified sol-gel method at a low temperature**
Sushma Jadalannagari, Sandeep Morea, Meenal Kowshika and Sutapa Roy Ramananb
- PO-232 **Iron nano particles coated with calcium ions for Osteoblasts cell production**
Chamundeeswari, L Muthuraman and Emmanuel Paul jebadurai
- PO-233 **Efficacy of a novel combination of silver nano particle and antibiotic coatings in preventing the colonization of foley catheters by multi drug resistant *E. coli* isolated from Catheter Associated Urinary Tract Infection (CAUTI)**
C Vazaga Priya, A Annie Aglin, N Kiruthika and R Mala
- PO-234 **Synthesis and characterization of ZnO nanoparticles by *Plectranthus amboinicus* extract**
R Bharathkumar, Ashwath Ram G, Ramachandran B and S Justin Packia Jacob
- PO-235 **Cellular uptake and cytotoxicity potential of engineered solid lipid nanoparticles on human colorectal adenocarcinoma cell**
S Tiwari, R Upadhyaya, S Varshney, D Mishra and P K Mishra
- PO-236 **Preparation and *In vitro* characterization of slow release Sodium fusidate nanocapsules in alginates**
H Mohamed, Haaris Shoaib and Murali K
- PO-237 **Towards nanoscale genome sequencing**
Tirthkar M B and P S Abida
- PO-238 **Biotin assisted synthesis of ZnS: Mn²⁺ nanocrystals for imaging and its anti bacterial activities**
Prashant K Singh, Priyanka Tripathi, Manvendra Kumar, Shanthi Sunduram and Avinash C Pandey
- PO-239 **Measuring the Nano-mechanical properties of N2A and cortical cells in the absence and presence of amyloid (A β 1-42) proteins**
Shashikanth B Parcha, Giuseppe D Ciccotosto and Michelle L Gee

Track-7: Petroleum & Environmental Biotechnology

- PO-240 **Algae biodiesel production: Opportunities and challenges in India**
Nishesh Garg, Sanidhya Narain and M S Balathanigaimani
- PO-241 **Production of fuel ethanol from water hyacinth *Eichhornia crassipes* by *Trichoderma reesei* MTCC 3194 and *Saccharomyces cerevisiae* MTCC 170: A good approach for a better environment**
Syed Shah Minallah Alvi, Majid Mohiuddin and Mir Naiman Ali

- PO-242 **Co-culture methods for efficient ethanol production from novel lignocellulosic resources**
Parvez Singh Slathia
- PO-243 **Production of ethanol from saw dust and fully recycled paper**
Manu Kandpal, Swati Aggarwal, Mehak Gupta, Mudit Bauntyal and Neha Bisht
- PO-244 **Cellulosic ethanol: Capturing plant power for sustainable production of liquid transportation fuel**
Akanksha, Smriti Vats and Saumya Ahlawat
- PO-245 **Estimation of metallothionein in freshwater fish exposed to heavy metals**
P Gurumoorthy, M J Prabhu, S Sathya and T Kotteeswaran
- PO-246 **Enrichment and isolation of endosulfan degrading microorganisms in cashew plantations of Kasargod District, Kerala**
Niti Sarat and S Barathi
- PO-247 **Interactions between BTEX, TPH and TCE during their bioremoval from the artificially contaminated water under different environmental conditions**
Yiqin CHEN
- PO-248 **Arsenic bioaccumulation in rice: A threat to society and economy**
Sayan Bhattacharya
- PO-249 **Physical, chemical and microbial parameters of drinking water at different villages of Chintapalli mandal, Visakhapatnam District India.**
S Geetha
- PO-250 **Fatty acid analysis of *Aspergillus terreus* from different polluted sites**
Usha V, Vijayalakshmi S, Mirunalini R and Riyaz Ahmad Rather
- PO-251 **Application of tests of biological and genetic toxicity in the development of ecological-friendly materials**
Katerina Malachova, Katerina Malachova, Zuzana Rybkova, Hana Sezimova, Jana Kukutschová and Vlastimil Matějka
- PO-252 **Attempts to reduce algal cultivation cost for Bio-fuel production**
Yaming Ge
- PO-252 **Bio-diversity of alkaliphilic and neutrophilic *Streptomyces* from a littoral and coastal sand dune system**
P Gurumoorthy, R Prakash, G Mohanraj and A Babu
- PO-253 **Fermentative H₂ production by *Citrobacter* CDN 1: A new avenue for management of carbohydrate rich wastes**
Pallavi Sinha and Anjana Pandey
- PO-254 **Bioillumination: A novel concept in street lighting**
Anshit Sood, Rohil Agarwal, Sahana Shankar and Shreya Dwivedi
- PO-255 **Accumulation and reduction of chromium using endophytic bacteria isolated from different timber yielding plants**
C Ramprasath, M Manikandan, V Kannan and N Mathivanan

- PO-256 **Dyeing of cotton fabric with phenazine pigments as a natural dye**
Saranya R, Jayapriya J, Tamilselvi A and Monisha R N
- PO-257 **Exploitation of cheap Cellulosic wastes- Wood shavings, coir waste and waste news paper for fermentative production of Citric acid by *Aspergillus niger* MTCC 2196**
K Samuel John, Mir Naiman Ali, Shagufta Masood Khan and Mazharuddin Khan Mohd
- PO-258 **Mycelium-A new area combating environmental pollution: A review**
Tushar Nanda, Mausumi Das, Y Archana and B P Dash
- PO-259 **Production of poly hydroxy butyrate**
Sabina Challa
- PO-260 **Emission of nitrous oxide gas from agricultural soil under incubation conditions**
Palki Das and S N Das
- PO-261 **Metagenomic study of archaeal diversity from environmental samples**
Nishtha Lute, Shweta Chhajed and Pravin Bhandarkar
- PO-262 **Pathological investigation of abnormal mucosal polyp found in marine teleost *Nemipterus japonicus* in and around polluted harbor waters of Visakhapatnam**
Thelagathoti Conrad Diana, Kolluri Sreeramulu and Chapara Manjuralatha
- PO-263 **Biological fuel cells: Principle and applications**
Smriti Vats, Saumya Ahlawat and Akanksha

Track-8: Clinical and Cellular Immunology

- PO-264 **Cellular response of Pre-osteoblasts to nanograined structure**
P K C Venkata Surya and R D K Misra
- PO-265 **Polymorphism of Glutathione S-Transferase M1 and T1 gene loci in COPD: An immunogenetic study**
Minakshi Bhattacharjee, B G Unni, A. Das Chutia, P K Baruah, S Das, S B Wann, T Borah and P G Rao
- PO-266 **Cloning and expression of Human Immunoglobulin G4 (hIgG4) Hinge region cDNA from blood sample**
Daruliza Kernain Binti
- PO-267 **Escheriosome mediated cytosolic delivery of *Candida albicans* cytosolic proteins induces enhanced cytotoxic T lymphocyte response and protective immunity**
Ravi Kant R, Chauhan A, Farazuddin M, Abida M and Owais Mohammad
- PO-268 **Approaches to the identification of bioactive principles rendering anticancer activity in *Curcuma neilgherrensis* Wt.**
G Rubalakshmi and N Karmegam
- PO-269 **Antimicrobial, anti-proliferative activity and identification of drug candidates in phytochemicals of *Prosopis juliflora***
A Navya, O Hari Prasad, Y Nanda Kumar, P V G K Sarma, M Bhaskar and P Uma Maheswari Devi

- PO-270 **A comprehensive resource for genetic susceptibility loci for infectious diseases**
Aditi Qamra, Lokesh Kumar Jha, Sakshi Gupta, Ruchika Sahajpal, Sweetly Raj, Deeksha Bhartiya, OSDD Consortium, Vinod Scaria and Yasha Hasija
- PO-271 **A novel actinomycete (*Streptomyces krainskii* VUS-13) with broad spectrum antimicrobial profile**
Y Usha, K Sunil Babu and Z Vishnuvardhan
- PO-272 **Antibacterial and phytochemical screening of *Hildegardia Populifolia* (Roxb.) Schott & Endl.**
Sunilbabu Koppula, K Ammani, Y Usha, K Sambasiva Rao, Kazia and Prassana
- PO-273 **Macrophage-Mycobacterium interaction: Differential induction of macrophage-derived IL-6 cytokine by live and dead intracellular mycobacteria**
Amit Goyal and Prati Pal Singh
- PO-274 **Development of a CAPS assay for rapid diagnosis of food borne bacteria**
Anuradha R, Vidhya Parkavi A, Kavitha S M, Naveen Prasanth C, Gowri S, Babu S, Asit Ranjan Ghosh, Siva R and Immanuel Selvaraj
- PO-275 **Genotoxicity and histopathological effect induced by some heavy metals in Indian Catfish, *Clarias batrachus* (Linn.)**
G Curtis, D Padhi, J Archarya, L Rout and B Behera
- PO-276 **Modern trends in therapeutic applications of antibodies**
A A Haleem Khan
- PO-277 **Evaluation of rK28 antigen for serodiagnosis of Visceral Leishmaniasis in India**
Manisha Vaish
- PO-278 **Virological response to nucleo-side/tide analogues in Hepatitis B Virus (HBV) related chronic liver diseases**
Manjita Srivastava, V K Dixit, S K Shukla and A K Jain
- PO-279 **Effect of Zinc treatments on Lead exposed periparturient bovine lymphocytes *In vitro* on their proliferation and Superoxide Dismutase (SOD) expression**
Muneendra Kumar, Harjit Kaur, U B Sontakke, Sk Asraf Hossain and Ashish Tyagi
- PO-280 **Pharmacophore modeling and 3D-QSAR of novel chalcone derivatives as *Plasmodium falciparum* growth inhibitors**
Nitendra K Sahu and D V Kohli
- PO-281 **Periodontal status in tuberculosis infected patients: A cross-sectional study**
Sudheer Aluru, O Hari Prasad, A Kishore Kumar, N Ravindra Reddy, A Papa Rao and M Bhaskar
- PO-282 **Major and minor allergens of *Pennisetum glaucum*: Identification and characterization**
B Chandra Sekhar and B Jayakumar Singh
- PO-283 **Generation and characterization of a monoclonal antibody for the detection of Ochratoxin A (OTA) from fungal strains and other sources**
Rashmi R, M V Ramana, H S Murali, H V Batra and A S Bawa

- PO-284 **Curcumin conjugates induced apoptosis via mitochondrial dependent pathway in MCF-7 & MDAMB cell lines**
Durg Vijay Singh, Krishna Misra, Preeti Singh and Madan M Godbole
- PO-285 **Anticoagulant activity of Jellyfish tentacle extract**
Akriti Rastogi, Angshuman Sarkar and Dibakar Chakrabarty
- PO-286 **IFN γ assay for detection of aTh1 type immunity against a bicistronic DNA construct encoding PPE34.9 gene of *Mycobacterium avium* paratuberculosis and murine gamma interferon**
Rajib Deb
- PO-443 **Strategies for construction, cloning and expression of chimeric (Listeriolysin O+Internalin A) gene of *L. monocytogenes* and its application in confirmed identification of pathogenic strains**
Srividya Y, Murali H S and Batra H V
- PO-445 **Assessment of ADME properties of potent small molecules caspase-3 inhibitors**
D S Samiulla, A Naidu and Ramachandra M
- PO-447 **Natural antibiotics: Antimicrobial Peptides**
Pratik Gholkar

Track-9: Medical Biotechnology and Biomedical Engineering

- PO-287 **Qualitative and quantitative estimation of production of L-Asparaginase: A potential anticancer agent**
K Sita Kumari
- PO-288 **Effect of antioxidants on biostabilization of RBC**
Sridevi Surapally and G R Satpathy
- PO-289 **Bioactive metabolites of *Alternaria alternata* against multidrug resistant *Pseudomonas aeruginosa***
U S Ezhil Arivudainambi, Chandran Karunakaran and Ayyappan Rajendran
- PO-290 **Finite element analysis of hip joint prosthesis**
Vicky Varghese, Tarapada Roy and Kunal Pal
- PO-291 **Potential of perillyl alcohol bearing PLGA microparticles in treatment of DMBA induced skin papilloma in Swiss albino mice**
Farazuddin Mohammad, Ansari Mairaj Ahmed and Owais Mohammad
- PO-292 **In-vitro assessment of a dendritic cell engineered therapeutic vaccine for gastro-intestinal malignancies**
A Bhargava, D Mishra, S Varshney, S Banerjee and P K Mishra
- PO-293 **Ameliorative effect of *Nardostachys jatamansi* against electron irradiation induced clastogenicity and sperm shape abnormality**
P Naveen, LN Madhu, N Suchetha Kumari, K M Damodara Gowda and Ganesh Sanjeev
- PO-294 **Diagnosis of HBV and Shigella based on PCR-techniques**
P Santhoshi Kumari, I Namrata and G Chandrakala

- PO-295 **Formulation and development of liquid Rabies vaccine for human use with Trehalose as a stabilizer**
R Vijayakumar
- PO-296 **Protein profiling of HIV positive human blood samples**
Prajapati D H, Rathod P V, Patani A V, Patel L S and Dave S M
- PO-297 **Oxidative and nitrosative stress in breast cancer**
P Chiranjeevi, T Srikanth, G Rajesh Kumar, K Mrudula Spurthi and H Surekha Rani
- PO-298 **Oxidative stress and DNA damage in diabetic Nephropathy**
Srilatha G, Rajesh Kumar G, Mrudula Spurthi K, Saraswati M, Swarnalatha G, Ram R, Dakshina Murthy K V and Surekha Rani H
- PO-299 **Inflammatory cytokine profile in patients with diabetic foot infections**
Shalba Tiwari, Daliparthy Devi Pratyush and Surya Kumar Singh
- PO-300 **Polymorphisms in the transcription factor binding sites of host genes impacts the susceptibility to Tuberculosis**
Tabish Qidwai
- PO-301 **RNA interference: The promises of next generation therapeutics**
Mankar Sumeet Prabhakar, Kale Ravindra Ramrao and Sandip Singh Tomar
- PO-302 **A low serum Estradiol/Progesterone ratio in cervical cancer with high risk HPV infection**
R Satish
- PO-303 **Oncolytic viruses in cancer therapy**
Apurva and P Nagini
- PO-304 **Multigene-based molecular diagnostics of HCV**
Aartee
- PO-305 **Ayurvedic wonder leaf for diabetes**
Kavitha Sama and R Hiranmai Yadav
- PO-306 **Artificial pancreas: A promising device to monitor and control blood sugar levels**
M Padmini and M Sri Mrinalini
- PO-307 **Analysis of biological elimination of Ricin from castor bean waste (*Ricinus communis*) – An in vitro assay using Vero cells**
Mateus G Godoya, Keysson V Fernandesb, Aline M Castroc, Olga L T Machadob and Denise M G Freirea
- PO-308 **Nutritional aspects and medicinal properties of Indian gooseberry (*Emblica officinalis*): A review**
Pratap Rudra Mandal and G Nagamaniammai
- PO-309 **Study on the comparison of two different classifiers for EEG based Non-invasive Brain-computer Interface: MLP Neural networks vs. Genetic algorithm**
Nadiminti Krishna Teja, P S S Susheera and Sriram Narahari
- PO-310 **Molecular diagnostics: Latest current approaches and the future challenges in viral diagnostics**
Ashish kumar Thakur

- PO-444 **Clinico- microbiological update of diabetic foot infections from tertiary care hospital of northern India**
Awanindra Dwivedi, Shalbha Tiwari, D D Pratyush, Balram Gupta and S K Singh

Track-10: Biochips & Tissue Chips

- PO-311 **Influence of matrix metalloproteinase-3 promoter polymorphism and risk of myocardial infarction in Indian population**
Mrudula Spurthi K, Rajesh Kumar G, Sanjib Kumar Sahu, Pratibha Nallari and Surekha Rani H
- PO-312 **Interleukin 6 -174 (G>C) gene polymorphism and CRP in coronary artery disease**
Rajesh Kumar G, Mrudula Spurthi K, Sanjib Kumar Sahu, Pratibha Nallari and Surekha Rani H

Track-11: Stem Cell Research & Therapy

- PO-313 **Differential tropism of immortalized and non-immortalized human neural stem cell lines in a focal demyelination model**
D Ferrari, C Zalfal Rota Nodari, A L Vescovi and L De Filippis
- PO-314 **Curing brain cancer by stem cells technology**
Rajarshi Chakraborty
- PO-315 **Reversal of differentiation in mesenchymal stem cells derived from human femoral bone marrow**
Samir Gupta, Sandeep Kasani and Bithiah Grace Jaganathan

Track-12: Tissue Science & Engineering

- PO-316 **Enhanced functions of Osteoblasts on Biomimetic nanohydroxyapatite-grafted chitosan scaffolds for bone tissue engineering**
B Girase, P K C Venkata Surya and R D K Misra
- PO-317 **Piwi Proteins and piRNAs play crucial role in germline development**
Gundeep Kaur, Sagar Jadhav and S K Atreja
- PO-318 **Stimulated cellular response of novel hybrid network structure elastomers with inorganic short chain cross-links for soft tissue reconstruction**
J S Shah, B Girase and R D K Misra
- PO-319 **Study of Gelatin-alginate Bio-film as a scaffold for tissue regeneration**
Amith Sadanandan
- PO-320 **Biodegradation of synthetic polymer for tissue engineering**
Jyotirajan Acharya
- PO-321 **Nanocomposite biopolymer for tissue regeneration**
Piyush Swami, Pinki Dey, Chris Mallika Bhadra and Anupama Ray

Track-13: Food Processing & Technology

- PO-322 **Enrichment of crop plants with Thiamine (Vitamin B1): Strategy to combat the nutritional deficiency**
Sneha C, Narayan A, Ramya B and Chaitanya K V

- PO-323 **Preparation of a cereal based probiotic drink and its anti microbial activity**
Ch Srikanth Samrat, S Silas, V Rama Rao and K Aruna Lakshmi
- PO-324 **Evaluation of SCP production from Chlorella and Spirulina strains grown in autotrophic, mixotrophic and heterotrophic conditions in wastewater**
Divya Kriti
- PO-325 **Production of glutamic acid using banana peel**
S Geetha and R Bhagya Lakshmi
- PO-326 **Production of protease using agricultural waste**
K Jayashree
- PO-327 **Preparation and analysis of prebiotic nutraceutical produced from sugarcane bagasse using *Bacillus subtilis* KCX006**
Shyam S Reddy
- PO-328 **Application of nutrigenomics in food industry for the public health application**
Rana N and Shrivastava S
- PO-329 **Role of probiotics in pineapple to produce flavoured wine**
V Suneeta, Bhaskar Mitra and Kunal Garg
- PO-330 **Biochemistry and Molecular Biology of Aphonso mango flavor**
V Suneeta, Bhaskar Mitra and Kunal Garg
- PO-331 **Cold-active proteases: Production, characterization and applications**
Pramod W Ramteke
- PO-332 **Study on the effect of intracellular loaded trehalose in cryotolerance and viability of *Lactobacillus bulgaricus***
Yoganand K N R and G R Satpathy
- PO-333 **Product development using cereals and pulses based snack**
Siddharth Bhide, N Swetha and Waghray Kavita
- PO-334 **Dehydration characteristics of green leafy vegetables**
Abhay Patwa, Sagar V, Waghray Kavita and N Swetha
- PO-335 **Evaluation of patentability of innovations and research in key areas of food biotechnology**
Rajneesh Kumar Sharma

Track-14: OMICS Technologies

- PO-336 **Proteome analysis of Hepatocellular carcinoma in diethylnitrosamine induced rats by 2-Dimensional Gel electrophoresis**
Divya Dasagrandhi, Garima Singhal and M R Rajeswari
- PO-337 **Association of XRCC5 repeats polymorphism in the development of acute leukemia**
Sugunakar Vure, C Anuradha, Nageswar Rao Dunna, G Manjula, N Santhoshi Rani, D Raghunadha Rao, Sudha Sinha, Atili Suresh and S Vishnupriya

- PO-338 **Comparison of *E. coli* and *Campylobacter* genome**
Dave N G, Trivedi A V, Jani V R, Raval D A, Mevada M S and Dave S M
- PO-339 **Label-free quantitative proteomics analysis of Flax (*Linum usitatissimum*) seed developmental stages and establishment of proteome expression profiles**
Barvkar Vitthal, Varsha Pardeshi, Narendra Kadoo and Vidya Gupta
- PO-340 **Next generation sequencing technology for development of genomic simple sequence repeat (SSR) markers for linseed**
Sandip M Kale, Varsha C Pardeshi, Narendra Y Kadoo, Prakash B Ghorpade and Vidya S Gupta
- PO-341 **Dissection of pre-harvest sprouting tolerance in wheat using proteomic and genomic approaches**
Naincy Girdharwal, Renu Deswal, H S Dhaliwal, G S Randhawa and R Prasad
- PO-342 **Genomic selection: A new approach for crop improvement**
Sandeep Singh Tomar, Sumeet Prabhakar Mankar and Kale Ravindra Ramrao
- PO-343 **Identification of Bio-markers for Gestational diabetes mellitus using sequencing mining techniques**
Lalitha Saroja Thota
- PO-344 **Genetic diversity of Indian white shrimp *Fenneropenaeus indicus* in the seas around Indian ocean based on mitochondrial COI sequence analysis**
Sajeela K A, Gopalakrishnan A, Basheer V S, Bineesh K K, Akhilesh K V, Raj Kumar, Anup Mandal and Jena J K
- PO-345 **Nutrigenomics: Just another "OMIC"**
Mirajkar S J, Kale P B, Bangar S S and Dipika A Padole
- PO-346 **Biochemical impact of sulphur addition on the metabolism of glucosinolates in *Brassica juncea*- revealed by metabolome Analysis**
Sibaji Kumar Sanyal, S K Venu Gopal and B K Singh
- PO-347 **Data mining for simple sequence repeats in expressed sequence tags of cluster bean (*Cyamopsis tetragonoloba* (L.) taub)**
Nagesh Kuravadi Aswathnarayana, Pranita Bhatle, Sangharsh Kumar Tripathi, Kanwarpal Singh Dhugga, Kulvinder Singh Gill and Gursharn Singh Randhawa
- PO-348 **Alterations in cardiac mitochondrial energy metabolism and oxidative stress following lactational lead exposure: Reversal effects of nutrient metal mixtures**
M Ram Kumar, D Chand Basha, K Praveen Kumar, S Saritha, S Sadak Basha and G Rajarami Reddy
- PO-349 **Proteomics and metabolomics approaches to understand plant-pathogen interactions**
Yashwant Kumar

Track-15: Biotechnology and its Applications

- PO-350 **Improved production of glucosinolates by Jasmonic acid and tryptophan in *Brassica* hairy roots and exudates**
Anja Kastell, Zhenzhen Cai, Inga Mewis and Iryna Smetanska
- PO-351 **Salinity stress on the precarious tropical coastal vegetation: A case study on Indian sundarbans**
Nirjhar Dasgupta, Paramita nandy and Sauren Das

- PO-352 **Anti-Candida albicans activity and brine shrimp lethality test of *Hevea brasiliensis* latex B-serum and *Ganoderma boninense***
Daruliza Kernain Binti
- PO-353 **Screening of bacterial blight resistant genotypes and allele mining of xa13 from Rice**
Waikhom Bimolata, Anirudh Kumar, G S Laha, R M Sundaram, Appa Rao Podile and Irfan Ahmed
- PO-354 **Antioxidant and free radical scavenging and anti-proliferative activities of extracts of *A. moschatus* - A potent medicinal plant**
Mir Zahoor Gul, L Md Bhakshu, Farhan Ahmad, A K Kondapi, A S Raghavendra and Irfan Ahmed
- PO-355 **Antioxidant properties of *Hyptis suaveolens* (L.) Poit and characterization of a novel antioxidant compound**
Hadi Ghaffari, Behrouz J G, Sampath and Prakash H S
- PO-356 **Characterization of siderophore produced by the gut microflora of *Poecilia reticulata* for potential use as probiotic in aquaculture**
Aparna Balakrishna and T R Keerthi
- PO-357 **Efficient *In vitro* mass propagation through optimized somatic embryogenesis in *Commiphora wightii* - A source of Guggulsterones**
Ashok Kumar Parmar, Sushma Prajapati, U K Tomar and Tarun Kant
- PO-358 **Comparative studies on *Aspergillus niger* and *Rhizopus oryzae* for Gallic acid production from *Chebolic Myrobalan* and *Emblid Myrobalan***
G Umakumar, Mir Naiman Ali, K Samuel John and Mazharuddin Khan
- PO-359 **Potential anticancerous effect of mushroom: A review**
Mausumi Das, Tushar Nanda and B P Dash
- PO-360 ***In vitro* analysis of antibacterial activities of different medicinal plants**
Ram Saran Chaurasiya
- PO-361 **A reproducible protocol for *In vitro* propagation of local germplasm *Bacopa monnieri* L. Penn**
Shailesh Kumar, Rajeev Ranjan, A K Singh and V K Shahi
- PO-362 **Antivenom Properties of *Strychnos nux-vomica* and *Sida cordifolia***
Shalini H Kumar
- PO-363 **Isolation and characterization of secondary metabolites from *In-vitro* and *In-vivo* cultures of *Coleus forskohlii***
K Sunitha and D Manohar Rao
- PO-364 **Screening and characterization of rice genotypes for micronutrient study**
Naveen Kumar G, Pavan J Kundur, Rakhi Soman, Raveendra G M, Chakpram Veeresh Gowda, Kalemshwar Gowda Patil, Shiva Kumar, Anantha, Ancy, Suma M R, Berhan Dagnav, Divya, Leela, Prakash N B and Shashidhar H E
- PO-365 **Detection of secondary metabolites from *Simarouba glauca***
S S Bangar, Dipika A Padole, A G Deshmukh and M S Dudhare
- PO-366 **Screening of antibacterial activities of the leaf and stem bark extracts of *Litsea glutinosa* C. B. Rob.**
K Pradeepa, V Krishna, Venkatesh, B V Thirumalesh and K J Naveen Kumar

- PO-367 **Multiple shoot regeneration from stem callus of *Caesalpinia bonduc* (L.) Roxb- a vulnerable ethnomedicinal plant**
S R Santosh Kumar, V Krishna, A U Gnanesh, K Pradeepa and Venkatesh
- PO-368 **Estimation of Chlorophyll content in common medicinal leaves and their utilization to avail health benefits of Chlorophyll**
Arathi Kizhedath and V Suneetha
- PO-369 **Screening and isolation of antibacterial metabolites produced by *Solanum indicum***
Sweta Mishra, M Karthik Ananth, S Narisimhan and M Santhana Ramasamy
- PO-370 **CANDATA: A medicinal plant Data base used for the treatment of cancer**
Vasthi Kennedy Evanjelene and Devarajan Natarajan
- PO-371 **Bioactive potential of selected medicinal plants of Asteraceae family**
Chetan J, Sampath Kumar and Prakash H S
- PO-372 **Extraction and analysis of Capsaicin**
Bhavya Kadiyala, Ayesha and Praveen Dasari
- PO-373 **Antioxidant and antiradical activities of ten wild almond (*Prunus amygdalus* L.) species**
Ali Jahanban Esfahlan and Rashid Jamei
- PO-374 **In vitro propagation of two important Bio-diesel plants—*Jatropha curcas* and *Pongamia pinnata***
Vineeta Shrivastava and Tarun Kant
- PO-375 **Hepatoprotective and antioxidant activities of *Spinacia oleracea* L. extract on CCl₄ induced hepatic injury in rats**
Vasthi Kennedy Evanjelene and Devarajan Natarajan
- PO-376 **Brucellosis: A study in human being and cattle**
Snehalata Ankaram
- PO-377 **Statistical method for the rapid classification of fossils belonging to order *Dromaeosauridae***
Anirudh Shanbagh
- PO-378 **Effect of *Nelumbo nucifera* seed extract on biochemical, hematological and reproductive parameters in female rats**
Babicheva A G, Boni A A, Gubanova M V, Lomteva N A, Marchenko N V, Mohamad A E A and Kondratenko E I
- PO-379 **Genetic variation in populations of *Clarias dussumieri* in different geographical locations of Kerala**
Aneesha Devassy, Smitha Thomas K and Linu Mathew
- PO-380 **In vitro modulatory activities of ethanolic leaf extract of *Manihot esculenta*, Crantz on kidney mitochondrial membrane permeability transition pore of Type 2 diabetic Sprague-Dawley rats**
Ajayi Ebenezer Idowu, Olorunsogo Olabode Olufunso and Banerjee Uttam Chand
- PO-381 **Screening of high carotene in pearl millet genotypes and its segregating generation through HPLC for developing mapping population for enhanced carotene.**
T Aarthy, P Sumathi, N Senthil, M Raveendran, S Vellaikumar and P Veerabhadhiran

- PO-382 **Enzymatic inter-esterification of mustard oil with palm stearin for production of structured lipids in batch process**
Sibaji Kumar Sanyal and D K Bhattacharyya
- PO-383 **Two stage polyhydroxyalkanoates (PHAs) production from fermented cane molasses using pure and mixed microbial culture**
Mohd Zafar
- PO-384 **Genetic transformation of apple (*Malus x domestica* Borkh.) using *Agrobacterium tumefaciens***
R Sharma, M Modgil and P Sharma
- PO-385 **Genetic engineering and bioweapons**
Kale Ravindra Ramrao, Mankar Sumeet Prabhakar and Sandip Singh Tomar
- PO-386 **Meeting challenges of oxidative stress and bacterial pathogenicity with *Curcuma longa* In vitro**
S S Sawhney, R M Painuli and Neha Chauhan
- PO-387 **In planta and *Agrobacterium* mediated genetic transformation of tomato (*Solanum lycopersicum* L.) by heterologous expression of Osmotin and Chitinase genes for fungal resistance**
Anil Kumar S, P Hima Kumari and P B Kavi Kishor
- PO-388 **Development of genetically engineered male sterile plants in tobacco using a pathogen induced cysteine protease**
Pawan Shukla and Kirti P B
- PO-389 **In vitro characterization of proteinase inhibitor loaded bicontinuous microemulsion for the plant protection against *H. armigera***
Neha Khandelwal
- PO-390 **Production of Menaquinone -7 under solid state fermentation by *B. subtilis***
Ankit Malhotra, Mohd Muqem, Jalaluddin, Rishi Pal Singh, Habiba Shafiq and Bibhu Prasad Panda
- PO-391 **Traditions of yesterday and drugs of tomorrow - By exploiting synergistic effect among medicinal plants**
K G K Deepak, N Rahul Chakravarthy, Harasreeramulu, P V Smitha and Ch Murali Mohan
- PO-392 **Genetically modified food crops in India**
Dhyaneswaran Palanichamy
- PO-393 **Characterization of local isolates of *Bacillus thuringiensis* for different insecticidal proteins**
Dipika A Padole, S S Bangar, S S Munje and M P Moharil
- PO-394 **Comparison of ethanol and temperature tolerance of *Zymomonas mobilis* strain in glucose and molasses medium**
Jansi Lakshmi Nalam
- PO-395 **Optimization of process parameters for production of lipase in solid state fermentation by newly isolated *Aspergillus niger***
Jaswanth Kumar Buchepalli
- PO-396 **Optimization of culture conditions for enhanced production of lignolytic enzyme- Manganese peroxidase by *Stereum ostrea***
K Praveen Kumar, B Vishwanath, H Pallavi, G V Subba reddy and B Rajasekhar Reddy

- PO-397 **Genetic purity and hybridity testing of cotton G.Cot- Hy-8 using RAPD and ISSR markers**
Ashok B Dongre, Mamta P Raut, Vishwajit M Paikrao, Shraddha S Ashtikar and Rachana A Kadam
- PO-398 **Genetic diversity analysis in chickpea (*Cicer arietinum* L.)**
M Gopikannan
- PO-399 **Screening the Agt Gene M235t polymorphism in Coimbatore population of Tamilnadu**
Karthik Ganesh, Suresh K, Indumathi Elayaraja, Balasubramaniam R, Sasikala K and Lakshmi P T V
- PO-400 **DNA fingerprinting of selected Black pepper (*Piper nigrum* L.) varieties using RAPD and ISSR techniques**
Manjunath Mogalayi and P A Nazeem
- PO-401 **Evaluation of diffusion and dilution methods to determine the antibacterial activity of plant extracts popularly herbal medicine used in India**
Shanthy Sundaram and Priyanka Dwivedi
- PO-402 **Analysis of citrus fruit peels - Utilization of fruit waste**
R Prakash, D Priyadarshini, S Sathya, G Mohanraj, T Kotteswaran and M Elavarasan
- PO-403 **Bacterial black spot of mango controlled by lemon fruit juice in lab and greenhouse conditions in Chitradurga district, Karnataka**
Thirumalesh B V and B Thippeswamy
- PO-404 **A comparative analysis of phytochemicals present in aqueous extracts of callus cultures and stem segments of *Ficus religiosa* L.**
Priyanka Siwach, Anita Rani Gill, Deepti, Anita and Shilpa
- PO-405 **A multiplex PCR for early detection of Trichothecene and Fumonisin producing *Fusarium* species collected from India**
M V Ramana, H S Murali and H V Batra
- PO-406 **QTL mapping of resistance to stem rust pathotype Ug99 in Indian and Australian wheat**
R S Zwart, R Banerjee, U K Bansal, M Sivasamy, D Singh, V S Gupta and H S Bariana
- PO-407 **Strategies to increase cost-saving measures in production of recombinant proteins in plants**
Sayed Mehdi Dehdashti, Archana Giri and Hassan Rostami
- PO-408 **Production of hypocholesterolemic agent by *Aspergillus fisheri* NCIM 509 using rice bran under solid state fermentation**
E Mounika, Y Swapna, D Sri Ramireddy and N M Yugandhar
- PO-409 **Production of Cellulase by *Cellulomonas uda* using banana fruit stalk under Solid substrate fermentation**
M Sravani, Ch Sirisha, D Sri Rami Reddy and N M Yugandhar
- PO-410 **Development of transgenic chickpea plant harboring proteinase inhibitor gene**
Priya Janardan Sarate
- PO-411 **Green leaves of *Nalingi cremulate* having anti obesity compounds**
Perubhotla Sai Soujanya

- PO-412 **Genetic transformation of sunflower using TVD 1 for resistance against *Alternaria* leaf spot disease**
Ch Sirisha, M Sravani, Sri Rami Reddy and N M Yugandhar
- PO-413 **Biomedical compounds from marine organisms**
Srinivasarao Avuluri, V N Hemanth, Varma G, Anitha P, Srinivasarao G, Prathyusha Showri T, Girijasankar G and Prabhakar T
- PO-414 **In vitro propagation and callus induction of endangered medicinal herb *Ocimum citriodorus. L***
G Venugopal and A Prasada Rao
- PO-415 **Infusion effects of *Punica granatum* and *Vitis vinifera* extracts on cytotoxic – An in vitro study**
S Caroline Preethi, P Durga Devi, Pardhu Saradi, K Sofiya Rani and Venkata Raman
- PO-416 **Screening of nutrient parameters for ganoderic acid production by *Ganoderma lucidum* NRCM OE 52 under submerged fermentation using Plackett-Burman design**
Habiba Shafiq, Md Faruque Ahmad, Ankit Malhotra, Jalaluddin, Rishi Pal Singh, Mohd. Mujeeb, Bibhu Prasad Panda and Md Aqil
- PO-417 **Purification and characterization of polygalacturonase-inhibitory proteins from *Saccharum officinarum* linn. leaves**
P S Das, S R Sarmah and N Mondal
- PO-418 **Transformation of exogenic anti-microbial regulon from ethnomedicinal plant against crop pathogens by iterative genetic transformation approach**
Gokula Krishnan R
- PO-419 **Induction of somatic embryogenesis and plantlet development by using leaf explants in black gram**
Priya Srivastava and Anjana Pandey
- PO-420 **RAPD analysis of Brinjal (*Solanum melongena L*) genotypes for polymorphism associated with bacterial wilt resistance**
Somya P P, Valsala P A, Nazeem P A, Girija D and Gopalakrishnan T R
- PO-421 **Efficient method for micropropagation of *Lawsonia inermis***
Poonam Duhan, Anil Poonia, Subhash Kajla and Ashok Chaudhury
- PO-422 **Genetic variation in populations of *Monochoria vaginalis* in different geographical area of coastal Kerala**
Smitha Thomas K, Aneesha Devassy and Linu Mathew
- PO-423 **Morphological changes of an actinomycete in submersed culture and its correlation with antibiotic production**
Kamaleshwar P Singh, Pramod P Wangikar and Sameer Jadhav
- PO-424 **Effects of arsenic toxicity on germination, seedling growth and peroxidase activity in gram seeds**
Sayan Bhattacharya, Moumit Roy Goswami, Shamayita Banerjee, Priya Banerjee, Shirshendu Ghosh, Dhruvajyoti Chattopadhyay and Aniruddha Mukhopadhyay
- PO-425 **Ophthalmic disorder management with Triphala**
S S Sawhney, R M Painuli and Dolly Singh

- PO-426 **Purification and characterization of trypsin from viscera of oil sardine (*Sardinella longiceps*)**
Mundodi Likhitha, Khandagale S Ajay, Balladka Kunhanna Sarojini and Nooralabettu Krishna Prasad
- PO-427 **Characterization of *X. axonopodis* pv. *punicae*: Bacterial Blight of Pomegranate**
Kale P B, Pawar B D, Mirajkar S J and Borude D A
- PO-428 **Enzymatic synthesis of xylooligosaccharides**
G Suvarna Lakshmi, R S Prakasham and Uma Rajeswari
- PO-446 **Impact of microbial adaptation on biohydrogen production using sweet sorghum juice**
D Nagaraj, A V Umakanth and R S Prakasham

Track-16: Regulatory and Economical Aspects in Biotechnology

- PO-429 **Genetically modified organisms (GMO) –The ethical and social issues in India**
B E N Sahaja and Prasanna Snehalata
- PO-430 **Training and education in laboratories on bio-safety**
Prathap P
- PO-431 **Legal aspects of Biotechnology**
Saumya Ahlawat, Akanksha and Smriti Vats
- PO-432 **Algal Biotechnology**
Khalil Alami-Saeid, Younes Ghasemi, Elham Fotooh-Abad, Leila Fotooh Abadi and Shahrokh Lorzadeh
- PO-433 **Bioethics: A norm in transgenesis**
Swapnarani Nayak
- PO-434 **Bioeconomy: Novel policy design through Biotechnology**
V R L Sharlotte, S J Mounika, N Jyothirmayi, M M Reddy and S H K R Prasad
- PO-438 **Purification and characterization of trypsin from viscera of oil Sardine (*Sardinella longiceps*)**
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Kale P B, Pawar B D, Mirajkar S J and Borude D A