

Detailed Program
2nd International Symposium
On
New Processes & Applications for Plant & Microbial Products
India Habitat Center, New Delhi, India
1st & 2nd March, 2016

Day 1: Tuesday, 1 March 2016, Venue: Tamarind Hall		
9.30-10.00am	Registration	
10:00 - 10:30am	Welcome Address: Dr Banwari Lal, Senior Director, TERI About Symposium: Dr. Azucena Gonzalez Coloma, CSIC, SPAIN Special Remarks: Dr Vibha Dhawan, Senior Director & Distinguished Fellow, TERI Inaugural Address: Dr S. Natesh, Former Senior Adviser, DBT Vote of Thanks: Dr Nutan Kaushik, Senior Fellow, TERI	
10:30-11.00am	<i>Teal coffee Break</i>	
11:00-01.00pm	SESSION I: Products from Microbes Chairperson: Dr Nutan Kaushik, Senior Fellow, TERI Co-chairperson: Dr Xana B Macadam, SR&D Director, IDEN Biotechnology, Spain	
	11:00-11:25	Keynote 1: Dr Xana Belastegui M
	11:25-11:45	Keynote 2: Dr Maria Fe A Yeves
	11:45-12:00	Keynote 3: Dr Francisca Vicente
	12:00-12:15	Keynote 4: Dr Dinabandhu Sahoo
	12:15-12:30	M.S. Rao, R. Umamaheswari, R. Rajinikanth, M.K. Chaya and P. Prabu
	12:30-12:45	Sophiya Devi Lamabam, SR Joshi and Robert Thangjam
	12:45-1:00	Vimla Prakash
		Market scenario for biostimulants and biopesticides
		Nematicidal effects of the endophytic fungus <i>Guignardia</i> sp.YCC4.
		Microbial natural products as sources for agricultural applications
		Bio prospecting of plant and microbial resources of North East India for sustainable development
		Microbial consortia based biopesticides for sustainable nematode management in horticultural crops
		Exploration of endophytic fungal diversity of ethnomedicinal plant <i>Potentilla fulgens</i> and their usage in silver nanoparticles biosynthesis
		Beyond chemicals: Teaming with microbes for a better tomorrow to protect health & environment with

			science
01:00-02:00pm	<i>Lunch Break</i>		
02:00 - 3:30pm	Session II : Products from Plants Chairperson : Dr Suresh Walia, ICAR, New Delhi Co-chairperson : Dr Liess Kristen, Head of Applied Herbivore Resistance, Leiden University		
	2:00-2:20	Keynote 5: Dr Azucena G Coloma	Endophyte screening from Indo-Spanish medicinal plants: Biotechnological green crop protectants
	2:20-2:40	Keynote 6: Dr Murray B Isman	Global advances in the development and use of botanical insecticides
	2:40-2:50	<u>Indira S Devi</u> , Ng Ngashangva, E Julia and Momota P	Bioprospecting of the pristine forest ecosystem of the north east region of india for the novel bioactive molecules
	2:50-3:00	<u>Bisheshwori Thongam</u>	Gingers and its diverse uses
	3:00-3:10	<u>Neerja Gupta</u> and Monal Singh	Antimicrobial activity of certain essential oils vis-à-vis antibiotics against clinical pathogenic strains
	3:10-3:20	<u>Bibhu Prasad Panda</u> , Sunita Sheoran, Mohd. Ali, Amulya Kumar Panda, and Saima Wajid	Anti-diabetic effects of gymnemic acids and gymnemagenin under in vitro and in vivo conditions: A comparative study
	3:20-3:30	<u>Showkat R. Mir</u> , Javed Ahamad, Saima Amin	Systematic development of a polyherbal combination for the glycemic control in diabetes
		<u>Sapna</u>	Shelf-life studies on total carotenoids and b-carotene in maize and standardization of the process
03:30-04:00pm	<i>Poster Session (Poster Number P01 to P20)</i>		
04:00-04:30pm	<i>Teal coffee Break</i>		
04:30 – 6:00pm	SESSION III : Biotechnological Approaches for Metabolite Production Chairperson: Dr Peirluigi Caboni, University of Cagliari, Italy Co-Chairperson: Dr Francisca Vicente, Fundación MEDINA, Spain		
	4:30-4:50	Keynote 7: Dr Kristen Liess	An eco-metabolomic approach for natural crop protection
	4:50-5:20	Keynote 8: Dr Michael Jones	The application of gene silencing technology to control crop pests
	5:20-5:30	Arti Rani, Asha	Gene transfer and expression system

		Panwar, Manjary Sathe and <u>Anil Kush</u>	studies of key santalol pathway genes in sandalwood cell culture system
	5:30-5:40	<u>Savita Singh</u>	Exopolysaccharide production, expression of related gene alr2882 and chemical characterization using FTIR in <i>Anabaena</i> sp. pcc 7120 under different calcium chloride regimes
	5:40-5:50	<u>Shashi Kumar Rhode</u>	Metabolic engineering of nuclear and chloroplast genome for artemisinin biosynthesis in an alternative plant
	5:50-6:00	Swarnima Agarwal, Romanchi Rastogi, Priya Ranjan Kumar and <u>Santosh Kumar Mishra</u>	Biofuel Production: A Biotechnological Perspective
		A K Srivastava	Shikimic acid production by plant cell cultivation

Day 2: Wednesday, 2 March 2016, Venue: Juniper Hall

	SESSION IV : New Approaches and Processes for Natural Products Chairperson : Dr R Vishwakarma, Director, CSIR - IIM, India Co-chairperson : Dr Azucena G Coloma, CSIC, Spain		
10:00am- 12:00noon	10:00-10:20	Keynote 9: Dr Pulok K. Mukherjee	Paradigm Shift in Natural Product Research - Traditional Medicine Inspired Approaches
	10:20-10:40	Keynote 10: Dr Suresh Walia	Phytochemical Biopesticides: Some Recent Developments
	10:40-11:00-	S.K. Deshmukh	Why pharmaceutical industry should work on fungal endophytes?
	11:00-11:15	Vishal Khatavkar	Faster, greener and more selective alternate approach for natural product extraction and analysis
	11:15-11:30	Reiaz-ul-Rehman	Chemo-profiling and nutritional analysis of buckwheat (<i>Fagopyrum tataricum</i> Gaertn) from Kashmir Himalaya
	11:30-11:45	Anand Mohan	Polyhydroxybutyrate matrix based advanced nanocomposite films for biomedical applications
	11:45-12:00	Bhim Pratap Singh	Bioconversion prospects of a common perennial grass <i>Thysolena latifolia</i> by multiple hydrolyzing enzyme producing endogenous bacteria
	12:00noon-	Poster Session (Poster Number P21 to P39)	

1:00pm			
01:00-02.00pm	<i>Lunch Break</i>		
2:00-4:30	SESSION V : Raw Material Supply, Quality Control and Regulatory Issues Chairperson : Dr Pulok K. Mukherjee, Director, Jadavpur University, Kolkata Co-chairperson: Dr Maria Fe A Yeves, Vice Director, CSIC, Spain		
	2:00-2:20pm	Keynote11: Dr R Vishwakarma	Natural products driven new drug discovery (NCEs and Phytopharmaceuticals)
	2:20-2:40pm	Keynote12: Dr Nutan Kaushik	HPLC fingerprinting for quality control of herbal drugs
	2:40-3:00pm	Keynote13: Prof. Pierluigi Caboni	Potent nematicidal activity of methanol extracts from <i>Ailanthus altissima</i> and <i>Melia azedarach</i> .
	3:00-3:20pm	Keynote14 Dr T P Rajendran	Regulatory issues in plant biopesticides
	3:20-3:40pm	Keynote15 Dr Rashmi Sharma	New processes and applications for plants and microbial products regulatory and policy issues
	3:40-4:00	Mr David Lapuente Pinilla	BIOVEGEN: R&D as a tool for agrifood innovation
	4:00-4:15pm	Daya Bhardwaj	Comparison of analytical methods in combination with multivariate techniques for the quality assessment of raw material and formulations containing <i>B. aristata</i> and its related species
	4:15-4:30pm	Virender Dhingra	Development, Registration and Commercialization Microbial / Plant based Bio-pesticides, Constraints and future strategies
4:30-5:00pm	SESSION VI : Concluding Session- Presentations by Chairpersons/ Co-Chairpersons		
5:00-5:30pm	<i>High Tea</i>		

LIST OF POSTER PRESENTATIONS

S.N.	AUTHOR NAME	TITLE OF THE ABSTRACT	ABSTRACT No
1.	<u>Anupam Kumar</u> , Madhvi Bhardwaj, Anu, T. Bidyapani, V. Asubandi, Hasibur Rehman, Anand Mohan	A comparative analysis of phytochemical extracts and green silver nanoparticles derived from seeds of <i>Syzygium cumini</i> against various pathogenic bacteria	P01
2.	<u>Anwasha Khanra</u> , Nikunj Sharma, Monika Prakash Rai	Optimization of Growth and Lipid Production in <i>Euglena gracilis</i> under Mixotrophic Cultivation	P02
3.	<u>Archana Yadav</u> and K.C. Upadhyaya	Micro-organisms governs Plant -Microbe Interaction	P03
4.	<u>Ashish Bedi</u> , Alok Adholeya, Sunil Kumar Deshmukh	Beneficial fungi: A Potential Source of Biostimulant	P04
5.	<u>Bhavya Sharma</u> , Hemraj Chhipa, Harpreet Kaur and Nutan Kaushik	To study the bioactivity of endophytic fungi against insect pests and fungal pathogens	P05
6.	<u>Bisma Malik</u> , Tanveer Bilal Pirzadah, Inayatullah Tahir, Reiaz Ul Rehman	Phytochemical screening and GC-MS profiling of chicory (<i>Cichorium intybus</i> L.)	P06
7.	<u>Durdana Yasin</u> , Moshahid Alam Rizvi, Tasneem Fatma	Induction of apoptosis mediated cell death of hepatocellular carcinoma cells by extracts of cyanobacteria	P07
8.	<u>Geetanily</u> and S.N.Tiwari	Comparative efficacy of eighteen essential oils against <i>Rhizopertha dominica</i>	P08
9.	<u>Gulshan Chaudhary</u> and Nutan Kaushik	Antifungal activity of <i>Pedaliium murex</i> L. fruits extracts against plant pathogenic fungi.	P09
10.	<u>Hasina Najnin</u> , Mohd Mujeeb, Waseem A. Siddiqui	Various Methods of <i>Cinnamomum tamala</i> (Tejpat) oil Extraction and its Biological Activity	P10

11.	<u>Hemraj Chhipa</u> and Nutan Kaushik	Production of Agarospirol in <i>Aquilaria malaccensis</i> by artificial infection of endophytic fungus	P11
12.	<u>Hina Nangia</u> , Mojeer Hasan, Bibhu Prasad Panda	Production of astaxanthin by <i>Phaffia rhodozyma</i> in submerged bioreactor- An improved fermentation strategy	P12
13.	K Amutha, <u>S.Shamini</u> and Menaga Magendran	Exploring bioactive molecule isolated from the root exudates of tissue culture raised <i>Allium cepa</i> by hydroponics	P13
14.	<u>Kanika Chowdhary</u> and Nutan Kaushik	Biodiversity and antifungal activity of endophytic fungi isolated from an Indian Medicinal Plant Chlorophytum borivilianum Sant & Fern.	P14
15.	<u>M. Abid Hussain</u> , Tufail Ahmad, Todd Gilligan	Balanites Stone Borer and Speckled Mousebird: Two Potential Threats to the Industrial Production of Balanites Fruit	P15
16.	<u>M.S. Rao</u> , R. Umamaheswari, K. Priti, M. Kamalnath and Grace, G. N.	Development of liquid formulations of <i>Bacillus subtilis</i> and evaluation of its efficacy in horticultural crops	P16
17.	<u>Madhuri Girdhar</u> , Anand Mohan	Enhancement of Polyhydroxybutyrate production from microbial strain through carbohydrate source induction	P17
18.	Madhvi Bhardwaj, Anupam Kumar, <u>Sandeep Tripathi</u>	A versatile ayurvedic drug Guggul (<i>Commiphora wightii</i> (Arn) Bhandari): Multiple therapeutic roles in human health and diseases	P18
19.	Mehul Singhal, Sakshi Bansal, <u>Neeraj Wadhwa</u>	Modification of textile fibre using plant extract	P19
20.	<u>Mohd Kafeel Ahmad Ansari</u> , Anil Kumar, Umar Mohteshum Khatib, Tasneem Fatma	Modulation of Cyanobacterial laccase activity for detoxification of synthetic dye methyl red	P20
21.	<u>Nazia Ahmad</u> , Tasneem Fatma	Role Of Indole-3-Acetic Acid In Reducing Atrazine Toxicity In Cyanobacterium <i>Cylindrospermum Stagnale</i> Nccu-272	P21
22.	<u>Nisat Alam</u> and Rana Zaidi	Role of Natural Product in Lung Cancer Prevention	P22

23.	<u>Paramjeet Saroj</u> , Manasa P. , K. Narasimhulu	Isolation and Biochemicals Characterization of thermophilic fungus isolated from soil samples and its cellulase activity	P23
24.	<u>Pooja Kaushik</u> , Saima Khatoon, Waseem A. Siddiqui	Natural product in drug discovery.	P24
25.	<u>Pragya Tiwari</u> , Nutan Kaushik, Harpreet Kaur and Hemraj chhipa	Extraction and screening of the bioactive compounds from endophytic fungal strains for identifying their potential as bio pesticides	P25
26.	<u>Premabati Thangjam</u> and Robert Thangjam	Evaluation of antioxidant potential of wild seeded banana (<i>Musa spp.</i>) found in northeast india	P26
27.	<u>Priyanka Arora</u> , Geeta Singh, Archana Tiwari	Siderophore production by microbes and their role in combating aluminium toxicity in maize plants	P27
28.	<u>Priyanka</u> , Harpreet Kaur, Hemraj Chhipa, Nutan Kaushik	Screening of solvent extract of endophytic fungus (EFI 261) for its antifungal & insecticidal activity.	P28
29.	<u>Rishu Kalra</u> , Raju Bharalee and Nutan Kaushik	Chemical evaluation of <i>Hippophae salicifolia</i> collected from North East India	P29
30.	<u>Sabbir Ansari</u> , Tasneem Fatma	Polyhydroxybutyrate (phb): screening- optimization- characterization from cyanobacteria	P30
31.	<u>Sadia Qamar</u> , Rana Zaidi	Role of natural products in combating colon and prostate cancer	P31
32.	<u>Sapna</u>	Shelf-life studies on total carotenoids and b-carotene in maize and standardization of the process	P32
33.	<u>Shagufta Yasmeen</u> and Promila Gupta	An attempt to explore the cosmeceutical potential of Dalbergia extracts	P33
34.	<u>Shaheen Husain</u> and Tasneem Fatma	<i>Nostoc muscorum</i> NCCU-442: extracellular AgNP biosynthesis, characterization and antibacterial activity	P34

35.	<u>Sonal Agrawal</u> , Hemraj Chhipa, Nutan Kaushik	Screening of fungicidal and insecticidal activity of bioactive metabolites produced from the endophytic fungi	P35
36.	<u>Sumbul Afreen</u> Tasneem Fatma	First laccase in cyanobacteria: purification and characterization of an extracellular phenol oxidase from <i>Spirulina</i> CFTRI	P36
37.	<u>Susmita Shukla</u> and Megha Singh	Phytochemical screening and comparative analysis of plant extracts of different <i>Vigna</i> species in various organic solvents	P37
38.	<u>Vikas Kaushik</u> and Joginder Singh	Virtual screening and pharmacophore studies for insulin receptor tyrosine kinase activators as a cure for Diabetes mellitus	P38
39.	<u>Yamini Rusiya</u> , Rishu Kalra, Nutan Kaushik	Geographic variability of <i>Berberis</i> species on the basis of HPLC fingerprinting and marker based approach.	P39
40.	Kausik Basu, <u>Arun Kumar</u> , Vimala Prakash, <u>Vishal Chaudhary</u>	Bioremediation of endosulfan using novel microbial consortium	P40