

BIOSPECTRUM 2019

Day 1: 8th August

Session 1

Session Topic – **Environmental Biotechnology**

PAPER ID	AUTHOR/PRESENTOR	TITLE
PA/BIOSPEC19/071	Saranya Chakrabortia, Tanaya Dasa, Goutam Kumar Sena, Joydeep Mukherjeeb	Monsoonal variability of phytoplankton in a tide dominated river of Sundarban
PA/BIOSPEC19/037	A. Saikat Sen, B. Raja Chakraborty, C. Pratap Kalita	Evaluation of hypolipidemic and antioxidant potential of Ketoki joha, an aromatic rice of Assam, India
PA/BIOSPEC19/018	Sukanya Chakraborty	Study on antioxidant properties of bioconverted agricultural waste
PA/BIOSPEC19/082	Sonali Paul, Tirtha Tarafdar, Ankita Datta, Manidipa Ray, Susmita Mukherjee	Effect of Soil Arsenic on Stress Markers of Plant – The Analysis between a Hyper and Non- Hyper Accumulator Plant of West Bengal, India
PA/BIOSPEC19/001	Mounika Sarvepalli and K.Narasimhulu	A comprehensive review on marine siderophores produced by Actinomycetes and high throughput techniques for enhanced analysis
PA/BIOSPEC19/065	Udayan Bhattacharyya , Dr. Saurav Kanti Sarkar and Dr. Basumita Roychoudhury	Characterization of Soil - Extracted Arsenic Tolerant Bacteria From Arsenic Belt of West Bengal
PA/BIOSPEC19/027	S. Podder, T. Bhattacharjee, R. Guha and Reshma Khan	Potential of Chemical Pretreatment of Waste from Food Industry for Sustainable Energy Generation
PA/BIOSPEC19/030	Babul das, Tumpa Hazra	Estimation of landfill gas emission and energy recovery potential from an open dump site of kolkata using landgem and mtm model
PA/BIOSPEC19/085	SusmitaMukherjee, Surbhi Agarwal, Ankit Chakraborty, Sahil Mondal, Adil Haque, Debangana Bala , Arunima	A comparative study on the effect of metal induced stress in two major vegetable crops of

	Ghosh, Sweta Singh, Pratik Talukder	West Bengal – Brinjal (Solanum melongena) and Chili (Capsicum annum)
--	--	--

BIOSPECTRUM 2019

Day 1: 8th August

Session 2

Session Topic – **Biomaterials**

PAPER ID	AUTHOR/PRESENTOR	TITLE
PA/BIOSPEC19/067	Sudipto Datta a* , B. Ranjit Barua b , C. Ankita Das c , D. Amit Roy Chowdhury d E. Pallab Datta	Fabrication of Alginate/ Poly(γ -glutamic acid) scaffolds by 3D Bio-printing and studying their Mechanical, Morphological and Cell Viability Properties
PA/BIOSPEC19/050	Sukanya Roy, Pritaam Dutta, Arnab Bhowmik, Bipasha Roy, Kumar Sourav, Lovely Bhardwaj	Identification of Medical Disorders in Eye and Biometric Authentication Analysis with Iris Retina Scan using Machine Learning
PA/BIOSPEC19/045	Shreema Manna, Tanushree Bose, Rabindranath Bera	Microstrip patch antenna with fractal structure for on-body wearable medical devices
PA/BIOSPEC19/029	Valli .M.Na , Sudha .Sb , Kalpana .R	Influence Of Physical Activity On Electrodermal Activity (EDA)
PA/BIOSPEC19/021	Soumyendu Bhattacharjee, Dr. Biswarup Neogi	Mathematical Modeling of Cardiovascular Muscle Dynamics using Lumped Parameter Approach
PA/BIOSPEC19/010	Kavita Kadu	Effect of doping and surface functionalization on the conformational changes of protein upon interaction with hydroxyapatite nanoparticles
PA/BIOSPEC19/074	Sourav Debnath, Akshay Kumar Pramanick	Fabrication of beta-tricalcium phosphate/ crystalline silica-aluminium metal matrix composites: physical, mechanical, and in vitro biological evaluations

BIOSPECTRUM 2019

Day 1: 8th August

Session 3

Session Topic – **Biochemistry**

PAPER ID	AUTHOR/PRESENTOR	TITLE
PA/BIOSPEC19/004	Rinku Debnath, Tanima Saha	Identification And Characterization Of An Industrially Important Enzyme, Laccase, From Fusarium Sp. FW2PhC1
PA/BIOSPEC19/006	Soumendra Darbar , Srimoyee Saha , Kausikisankar Pramanik and Atiskumar Chattopadhyay	Free radical scavenging potential and Antioxidant activity of Silver Nanoparticle Coupled with Andrographis paniculata (AP-Ag NP) Against Carbon tetrachloride (CCI 4) induced toxicity in mice
PA/BIOSPEC19/007	Soma Karmakar	A Study on Different Biochemical Components of Papaya (Carica papaya L.) Leaves Consequent Upon Feeding of Citrus Red Mite Panonychus citri (McGregor).
PA/BIOSPEC19/013	Neetu Mishra	Effect of roasting and solvent on antioxidants and related compounds in green coffee beans
PA/BIOSPEC19/017	Tapas Ghosh	Cytotoxic investigation and photophysical analysis of serum protein binding with beta carboline alkaloids
PA/BIOSPEC19/025	A. Darshna M. Joshi, B. Jignesh Patel	A Survey on Control Theoretic Research Paradigms of Insulin Signaling Pathways Study
PA/BIOSPEC19/044	Tanmay Sarkar, Pritha Nayak, Molla Salauddin, Runu Chakraborty	Preparation and characterization of sweetened pineapple cheeseball (rasgulla)
PA/BIOSPEC19/015	Pallavi Chattopadhyay	Molecular interaction analysis of AChRs with antioxidants

BIOSPECTRUM 2019

Day 1: 8th August

Session 4

Session Topic – **Microbiology**

PAPER ID	AUTHOR/PRESENTOR	TITLE
PA/BIOSPEC19/014	Archi Ghosh	Study on efficacy of nano - antimicrobials using automated susceptibility testing device
PA/BIOSPEC19/016	Sucharita Sengupta	Microbial cellular machinery for process intensification in production of nutraceuticals
PA/BIOSPEC19/020	Sanchayeeta Mandal	Inhibitory characteristics of environmentally preformed biofilm to colonisation of other biofilm producers by a in vitro study
PA/BIOSPEC19/023	Dhavalkumar Patel, Shreya Patel, Sudeshna Menon, Sebastian Vadakan, Dhaval Acharya, and Dweipayam Goswami	Assessing mycoparasytic activity exhibited by Phyto-friendly-fungi (PFF) in combating phytopathogenic fungi by producing various Glucanases
PA/BIOSPEC19/026	Shamayeeta Sarkar	Study of the Effectiveness of Antibiotics in Management of Bacterial Wilt in plants
PA/BIOSPEC19/032	A. Debabrata Misra, B. Manab Mandal, C. Vivekananda Mandal	In-Vitro Antibiofilm Activity of Ethyl Acetate Fraction of Monochoria hastata (L.) Solms
PA/BIOSPEC19/036	Arwa Gheewala and Sudeshna Menon	A comparative assessment of silver nanoparticles synthesised using aqueous and hydromethanolic Licorice extracts for its antimicrobial and cytotoxicity potential
PA/BIOSPEC19/076	Dhruva mukhopadhyay	Establishment of Microbial Electrochemical Systems as Microbial Peroxide Producing Cells for Oxidative Depolymerization and Dye

		Decolorization
PA/BIOSPEC19/012	Rehana Parveen	Antimicrobial nanoparticles: The new age magic bullet
PA/BIOSPEC19/054	Somanjana Khatua and Krishnendu Acharya*	Crude Polysaccharides From Two Russuloid Myco-Food Potentiates Murine Macrophage By Tuning TLR/NF- κ B Pathway

BIOSPECTRUM 2019

Day 2: 9th August

Session 1

Session Topic – **Bioinformatics**

PAPER ID	AUTHOR/PRESENTOR	TITLE
PA/BIOSPEC19/031	a Sahini Banerjee,Susmita Bhattacharjee, Saba Yasmeen,Rifat Nawaz Ul Islam,Debanjan Mitra,Arunava Goswami,Inul Ansary and Amal Kumar Bandyopadhyay*	Descriptors and Docking based Improvement of Drug: Benzoazetinone-P450 system as a Paradigm.
PA/BIOSPEC19/040	Rifat Nawaz Ul Islam,Chittran Roy, Debanjan Mitra, Susmita Bhattacharjee, Saba Yasmeen, Sahini Banerje and Amal Kumar Bandyopadhyay*	Salt-Bridge, Aromatic-Aromatic, Cation- π and Anion- π interactions in proteins from different Domains of Life
PA/BIOSPEC19/053	Shreeya Kedia, Rajkumar Chakraborty, Yasha Hasija*	INTEGRATED TRANSCRIPTIONAL META - ANALYSIS OF PIGMENTATION DISORDERS
PA/BIOSPEC19/069	Faizan Ahmad & P.T.V Lakshmi*	Exploration of Molecular Docking and Dynamic Simulation studies to identify the potentials of CID 50906864 as a potential anti-angiogenic molecule.
PA/BIOSPEC19/057	Sahar Ismail a , K S Tulsi Naik a* , M. V. Rajam b , K M Ponnuvel a , R.K. Mishra a	BmNPV late expression factor (lef-1) a potent target for inducing virus resistance against Grasserie infected

		Bombyx mori by RNA interference technology
PA/BIOSPEC19/008	A. Tanushree Agarwal	SSR: A molecular marker-based approach for the analysis of genetic diversity and stress analysis in legumes
PA/BIOSPEC19/056	Dipankar Ghosh *, Indranil Banerjee, Sudipta Sarkar, Spandan Saha, Ayantika Chakraborty, and Bidisha Sarkar	Systems Biology Approach to Predict Novel Microbial Enzymes towards Functionalization of Piperine Biosynthetic Pathway in Microbial Host
PA/BIOSPEC19/066	Shamrat Kumar Paul a , Tasnin Al Hasib b , Pranta Ray c , Md. Lutful Kabir d , Abul Bashar Ripon Khalipha*	Structure Prediction and Functional Characterization of Uncharacterized Protein Rv1708 of Mycobacterium tuberculosis (Strain ATCC 25618/H37Rv)
PA/BIOSPEC19/062	Ruma Dey Ghosh 1* , Akash Bararia 1 , Sudhriti Guha Majumder 1 , Ajay Manickam 2 , Tsewang Yougyal Bhutia 2 , Prateek Jain 2 , Kapila Manikantan 2 , Rajeev Sharan 2 , Pattatheyl Arun	Cell-free mature miR-100-5p expression in plasma and its correlation with the histopathological markers in oral squamous cell carcinoma.
PA/BIOSPEC19/070	Arshad Jawed 1 * , Mohd Wahid 1 , Payel Chaudhury 2 , Shafiul Haque 1 , Shikha Joon	Statistical Design in Accelerated Downstream Processing
PA/BIOSPEC19/081	Manish Paul 1 , Devasmita Mohanta 1 , Hrudayanath Thatoi	Modelling and docking studies on cellulase enzymes for improved bioethanol production from lignocellulosic biomass: A case study on Asparegillus species

BIOSPECTRUM 2019

Day 2: 9th August

Session 2

Session Topic – Plant Biotechnology

PAPER ID	AUTHOR/PRESENTOR	TITLE
PA/BIOSPEC19/063	Smaranika Pattnaik* and Arka Kumar Das Mohapatra	Phyto Chemical abundance (in %) and in silico based molecular target interaction aptitude of essential oil components
PA/BIOSPEC19/033	A.MANAB MANDAL, B. DEBABRATA MISRA, C. VIVEKANANDA MANDAL	<i>Antioxidant and Nutritional Properties of Hydrocotyle javanica Thunb</i>
PA/BIOSPEC19/019	Arghya Chakraborty, Srija. Chakraborty	In vitro micropropagation of roseapple and assessment of plantlets through biochemical analysis and DNA fingerprinting
PA/BIOSPEC19/003	Mithilesh Singh	In Vitro Propagation of Rhododendron leptocarpum: A Critically Endangered Plant of the Sikkim Himalaya
PA/BIOSPEC19/038	Jignesh Prajapati, Rajvi Panchal, Dhavalkumar Patel, Dweipayan Goswami	Production and Characterization of Xanthan Gum by Xanthomonas Campestris using Sugarcane Bagasse as Sole Carbon Source
PA/BIOSPEC19/051	Udayanbhattacharyya, Preetisha Paul, Camellia Sen, SnehaMustafi, Megha Gupta And Dr. Basumita RoyChowdhury	ISOLATION OF PECTINOLYTIC FUNGI FROM ROTTEN TOMATO, BRINJAL AND BANANA
PA/BIOSPEC19/028	Abhijeet Mahana	Toxicity of mercury on chlorophyll fluorescence characteristics of Anabaena doliolum
PA/BIOSPEC19/068	Susri Nayak, Lipika Patnaik	Toxicity assessment of Naphthalene on Anabas testudineus
PA/BIOSPEC19/080	Mrunmaya K Panda 1 Kumananda	Molecular Identification, phytochemical analysis and

	Tayung 2 , and Hrudayanath Thatoi	evaluation of antibacterial activity of <i>Boletus griseipurpureus</i> , a wild edible mushroom of northern Odisha, India
PA/BIOSPEC19/083	H. Thatoi 1 and S. Mohapatra	Screening and evaluation of cellulase activity of fungal species for enhanced saccharification of lignocellulosic biomass: An in silico approach
PA/BIOSPEC19/086	Lahiry U and Laha S	Comparative study of salinity tolerance mechanism in plants

BIOSPECTRUM 2019

Day 2: 9th August

Session 3

Session Topic – **Biochemistry**

PAPER ID	AUTHOR/PRESENTOR	TITLE
PA/BIOSPEC19/035	Nabanita Ghosh a * , Monalisa Roy b , Minakshi Ghosh c ,D.K Bhattacharyya	Study on Physicochemical and Antioxidant Properties of Blend of Fish Skin (<i>Labeo rohita</i>) Oil and Chia Seed (<i>Salvia hispanica</i>)
PA/BIOSPEC19/047	Rinku Saha, Shubhadeep Roychoudhury, Alex Varghese, Parag Nandi, Kushal Kar, Arun Paul Choudhury, Jogen Kalita, Norbert Lukac, Peter Massanyi, Adriana Kolesarova	Cadmium induced deterioration of sperm quality: Protective role of coenzyme Q10 in rats
PA/BIOSPEC19/002	A. Shreya Sengupta , B. Arjita Roy , C. Malavika Bhattacharya	A Comparative analysis of how biochemically varied commonly consumed allergic foods are
PA/BIOSPEC19/072	Shreya vora	Assessment Of Anticancer Properties Of Selected Medicinal Plants
PA/BIOSPEC19/034	A.Jainisha Sankhavara, B. Prasenjit Majumder	Advances in Biomedical Entity Identification: A

		survey
PA/BIOSPEC19/024	Debanjan Mitra, Rifat Nawaz Ul Islam, Saba Yasmeen, Sahini Banerjee, Pradip Kumar Das Mohapatra* Amal Kumar Bandyopadhyay*	Structure, Salt-Bridge, Energetic and Microenvironment of Halophilic, Thermophilic and Mesophilic Nucleoside Diphosphate Kinase
PA/BIOSPEC19/077	Sudipto Kumar Hazra, Molla Salauddin, Tanmay Sarkar, Anirban Roy, Runu Chakrabort	Effect of freeze drying on Anti-oxidant properties of Bael fruit (Agle marmelos)
PA/BIOSPEC19/022	A.S.Mustafa	Phenotypes of vitamin D binding protein in healthy subjects of Kuwait
PA/BIOSPEC19/064	Sayak Roy Chowdhury, Debasmita Deb, Soumyajit Sen	Development of 2D Biocompatible Composite Matrix for Tissue Engineering Applications with Antifungal Properties

BIOSPECTRUM 2019

Day 2: 9th August

Session 4

Session Topic – **Microbiology**

PAPER ID	AUTHOR/PRESENTOR	TITLE
PA/BIOSPEC19/039	Rajvi Panchal, Jignesh Prajapati, Dhavalkumar Patel, Dweipayan Goswami	Isolation and Characterization of Lipase Producing Microbial Strain from Coastal Banks of Bhavnagar
PA/BIOSPEC19/042	Loknath Deshmukh , Rajendra Singh and Sardul Singh Sandhu	Far ranging antimicrobial and free radical scavenging activity of Himalayan soft Gold mushroom; Cordyceps Sp.
PA/BIOSPEC19/043	Mahima Patel, Dhavalkumar Patel, Shailee Patel, Aayushi Purohit, Bhavya Kansara, Dhaval Acharya and Dweipayan Goswami	Extraction and characterization of siderophores from Pseudomonas sp. and to check the PGPR activity of

		Pseudomonas sp.
PA/BIOSPEC19/060	A.Varsha Singh, B. Padmini Padmanabhan*, C. Sriparna Saha	Evaluation of the VITEK 2 BCL Card For Identification of Biosurfactant Producing Bacterial Isolates SPS1001
PA/BIOSPEC19/059	Bhagwat Prasad Rath [1,*] , Achutya Nanda Acharya [2] , Hrudayanath Thatoi	Role of extracellular chromate reductase from <i>Bacillus amyloliquefaciens</i> for detoxification of hexavalent chromium
PA/BIOSPEC19/078	Puja Kumari, Sunil Kumar Choudhary and Arvind Kumar	In-vitro study of Antifungal activity of <i>Lentinus edodes</i> mushroom extract against <i>Alternaria triticina</i>
PA/BIOSPEC19/084	Dibyajit Lahiri, Bandita Dutta ,Indranil Mukherjee ,Shreyasi Ghosh, Soumik Dey Sudipta Dash , Moupriya Nag, Rina Rani Ray	Studies on Efficacy of the Bioactive Compounds from <i>Zingiber officinale</i> as Potent Antibiofilm Agent over Azithromycin Against Pharyngeal Infection causing Bacteria.