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December 11-14, 2025
Indian Institute of Technology Roorkee, Uttarakhand, India
The Biotech Research Society, India**

Rapid Oral Presentations- ROP (Presentation time 3 mins, 1 min QA; maximum 5 slides)

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Date and time of presentation: 13 December 2025; 0900-1030h

ROP	Details
001	<p>Immobilization of recombinant thermostable α-amylase (amyk4) on chitosan-alginate beads for efficient desizing in the apparel industry</p> <p>Krishnendu Mondal^a, Nagendra Thakur^b, Keshab Chandra Mondal^{a*} ^aDepartment of Microbiology, Vidyasagar University, Midnapore, India; ^bDepartment of Microbiology, Sikkim University, Gangtok, India; Presenting author Email: kmondals99@gmail.com</p>
002	<p>Exploring the biotechnological potential of exopolysaccharide from <i>Halomonas</i> sp. DU-15-9-1 and <i>Salinicoccus roseus</i> S-5-9-3: A Comparative Study</p> <p>Dhritiksha M. Baria¹, Shivani Yagnik Raval^{1,2}, Vikram H. Raval¹ ¹Department of Microbiology and Biotechnology, University School of Sciences, Gujarat University, Ahmedabad, India; ²Department of Biotechnology, M.G. Science Institute (Autonomous), Ahmedabad, India; Presenting author Email: dhritsbaria15936@gmail.com</p>
003	<p>Metagenomic characterization of CAZymes from Bacterial Communities in Goa mangrove sediments</p> <p>Mini Nishamol^{1,2}, Cathrine Sumathi Manohar^{1,2*}, Ashutosh Parab¹ ¹Biological Oceanography Division, CSIR- National Institute of Oceanography, Dona Paula, Goa, India; ²Academy of Scientific and Innovative Research, Ghaziabad, India; Presenting Author e-mail: mnishamol.nio@csir.res.in</p>
004	<p>Valorization of Textile Waste via Sequential Alkaline Wastewater Pretreatment and Solid-State Fermentation for Enhanced Enzyme Yield</p> <p>Aditi Awasthi, Sanjoy Ghosh Department of Biosciences and Bioengineering, Indian Institute of Technology Roorkee, India; Presenting author Email: a_awasthi@bt.iitr.ac.in</p>

005	<p>Microbial Biosurfactant Production via Agro-Waste Valorization: Isolation, Screening, and Future Prospects</p> <p>Nisha Kumari Pandit, Sumer Singh Meena Department of Biotechnology, Dr B R Ambedkar National Institute of Technology Jalandhar, India; Presenting author: nishakp.bt.23@nitj.ac.in</p>
006	<p>Heterologous Overexpression of the Phosphoenolpyruvate Carboxylase Gene toward Selective Succinic Acid Production at Pilot Scale</p> <p>Triya Mukherjee^{1,3}, Gandham Suresh¹, S Venkata Mohan^{*1,2,3}</p> <p>¹Bioengineering and Environmental Sciences Lab, Department of Energy and Environmental Engineering, CSIR-Indian Institute of Chemical Technology, Hyderabad, India; ²CSIR-National Environmental Engineering Research Institute, Nagpur, India; ³Academy of Scientific and Innovative Research, Ghaziabad, India; Presenter author E-mail: triya.mukherjee@gmail.com</p>
007	<p>Green Biorefinery Approach for Nanocellulose Production from Rice Straw Using Enzymatic Hydrolysis</p> <p>Hanshita Yadav, Rupika Sinha Department of Biotechnology, Motilal Nehru National Institute of Technology Allahabad, Prayagraj, India; Presenting author Email: hanshita.2023rbt02@mnnit.ac.in</p>
008	<p>Biosurfactant production from <i>Pseudomonas huanensis</i> SB7 and evaluation of its antimicrobial and biofilm inhibition activity</p> <p>Minu Rani Bera, Nilotpala Pradhan Academy of Scientific and Innovation Research, Ghaziabad, India; Environment and Sustainability Department, CSIR - Institute of Minerals and Materials Technology, Bhubaneswar, India; Presenting Author E-mail: beraminurani@gmail.com</p>
009	<p>Unlocking Microbial Dark Matter: Next Generation Enzymes for Sustainable Industrial Biotechnology</p> <p>Shubham Pandey¹, Bhavna Parmar¹, Anjali Gupta¹, Ayushi Singh¹, Ashish Gaurav¹, Kuo-Wei Huang^{2*}, Ram Karan^{1*}</p> <p>¹Department of Microbiology, University of Delhi South Campus, New Delhi, India; ²KAUST Catalysis Center and Division of Physical Science and Engineering, King Abdullah University of Science and Technology, Thuwal; Presenting author Email: shubhampandey@south.du.ac.in</p>
010	<p>DR1558-mediated stress tolerance enhances fatty acid production in <i>E. coli</i></p> <p>Neha Sawant¹, Deepti Appukuttan², Harinder Singh¹ Department of Biological Sciences, Sunandan Divatia School of Science, NMIMS Deemed to be University, Mumbai, India; ²System Biology and Metabolic Engineering, Department of Chemical Engineering, IIT Bombay, Mumbai, India; Presenting authors' E-mail: sawantneha848@gmail.com</p>

011	<p>Dynamic Spatiotemporal Modulation of Secondary Metabolite Biosynthesis and Mycelial Pellet Formation in <i>Streptomyces</i></p> <p><u>Deepanshi</u>, Kashyap Kumar Dubey School of Biotechnology, Jawaharlal Nehru University, New Delhi, India; Presenting author Email: deepanshi081@gmail.com</p>
012	<p>Bioconversion of Poultry Feather Waste through Optimized Keratinase Production by extremophilic <i>Bacillus pumilus</i> JT20</p> <p><u>Jahanvi R Thakor</u>, Apoorva B Vaghela, Vikram H Raval, Kiransinh N Rajput, Rakeshkumar R Panchal Department of Microbiology and Biotechnology, Gujarat University, Ahmedabad, India; Presenting author Email: jahanvithakor@gmail.com</p>
013	<p>Characterization and genetic insight of polyhydroxyalkanoate produced by a marina bacterium</p> <p><u>Krushali Jain</u>¹, Devendra Jhala², Harjinder Kaur³, Devayani R. Tipre¹ ¹Department of Microbiology and Biotechnology, School of Sciences, Gujarat University, Ahmedabad, India; ²Department of Zoology, School of Sciences, Gujarat University, Ahmedabad, India; ³Department of Chemistry, School of Sciences, Gujarat University, Ahmedabad 380009, India; Presenting author Email: krushalijain@gmail.com</p>
014	<p>Eco-friendly Silver Nanoparticle Biosynthesis from <i>Stevia rebaudiana</i> and Elicitor-Driven Stevioside Glycoside Production in <i>Acremonium sclerotigenum</i> CBS 124.42 with Bioactivity Evaluation</p> <p><u>Nishant</u>, Sheela Chandra * Department of Bioengineering and Biotechnology; Birla Institute of Technology, Mesra, Ranchi, India; Presenting author Email: phdbe10006.21@bitmesra.ac.in</p>
015	<p>Abiotic effector-induced metabolomics and gene expression study in <i>Camellia sinensis</i> cv. yabukita</p> <p><u>Chetna Sharma</u>^{1,2}, Yoshiharu Y. Yamamoto², Emiko Yanase*², Rakhi Chaturvedi*¹ ¹Department of Biosciences and Bioengineering, Indian Institute of Technology, Guwahati, India; ²Faculty of Applied Biological Sciences, Gifu University, Gifu, Japan; Presenting author Email: s.chetna@iitg.ac.in</p>
016	<p>Isoform specificity controls camptothecin biosynthesis in <i>Ophiorrhiza rugosa</i></p> <p><u>Kishmita Sharma</u>^{1,2}, Ramesh K Satdive¹, Sudhir Singh^{1,2} ¹Nuclear Agriculture and Biotechnology Division, Bhabha Atomic Research Centre, Mumbai, India; ²Homi Bhabha National Institute, Mumbai, India; Presenting author email: kishmita@barc.gov.in</p>
017	<p>Scalable biopolymer production from <i>Synechocystis pevaleikii</i>: Optimized cultivation and PHB recovery</p>

	<p>Abhishek Sahu¹, Anushree Malik¹, Jatindra K. Sahu² ¹Applied Microbiology Laboratory, Centre for Rural Development and Technology, ²Food and Bio-Process Engineering Lab, Centre for Rural Development and Technology, Indian Institute of Technology, New Delhi, India;; Presenting Author Email: Abhishek.Sahu@rdat.iitd.ac.in</p>
018	<p>Structural and functional characterization of active site residues of malate synthase of <i>Mycobacterium tuberculosis</i></p> <p>Madhuri, AK Yadav, C Saini, KK Inampudi, AS Ethayathulla, M Kumar Department of Biophysics, All India Institute of Medical Sciences, New Delhi, India; Presenting author Email: madhuri3108a@aiims.edu</p>
019	<p>Data-Driven Optimization of Bio-inks for Environmental Cleanup as a Sustainable Solution</p> <p>Yamini Sharma¹, Vijayalakshmi Shankar² ¹School of Bio Sciences and Technology, Vellore Institute of Technology, Vellore, India; ²CO₂ Research and Green Technologies Centre, Vellore Institute of Technology, Vellore, India; Presenting authors' Email: 68sharmayamini@gmail.com</p>
020	<p>Blue Biotechnological Strategy for decolorization of Chromatic Dye Effluents: A Sustainable & feasible Onsite approach</p> <p>Sachin Basavaraj Halladamani, MB Sulochana Department of Biotechnology, Gulbarga University, Kalaburagi, India; Presenting authors' Email: Sachin.bh1236@gmail.com</p>
021	<p>Integrating Metagenomics and Culture-Based Screening to Identify Aerobic Biosurfactant-Producing Bacteria for Crude Oil Bioremediation</p> <p>Apoorva B Vaghela, Jahanvi R Thakor, Vikram H Raval, Kiransinh N Rajput, Rakeshkumar R Panchal Department of Microbiology and Biotechnology, Gujarat University, Ahmedabad, India; Presenting author Email: apoorvabv21@gmail.com</p>
022	<p>Role of plastisphere biofilm in the degradation of plastic linked phthalic acid esters</p> <p>Kalyani Vikhe, Neelam Amit Kungwani Gujarat Biotechnology University, Gandhinagar, Gandhinagar, India; Presenting author Email: kdvikhe@gmail.com</p>
023	<p>A Self-Sustaining Fenton-Photosynthetic Microbial Fuel Cell for Synergistic Bioelectricity Generation and Advanced Remediation of Phthalate from wastewater</p> <p>Manikanta M. Doki¹, Lakshmi Pathi Thulluru², Brajesh Kumar Dubey¹, Makarand M. Ghangrekar^{1,3} ¹Department of Civil Engineering, Indian Institute of Technology Kharagpur, India;</p>

	² School of Environmental Science and Engineering, Indian Institute of Technology Kharagpur, India; ³ National Institute of Technology Pondicherry, Karaikal, India; Presenting author Email: mani.manmadha@gmail.com
024	<p>Biodegradation of Polypropylene microplastics by the natural microbial consortia consists of bacteria and microalgae</p> <p><u>Anjali Mishra</u>, Rajneesh Kumar, Ram Sharan Singh* Department of Chemical Engineering and Technology, IIT (BHU) Varanasi, Varanasi, India; Presenting author Email: anjalmishra.rs.che23@itbhu.ac.in</p>
025	<p>Structure-guided engineering of an aromatic ring-hydroxylating dioxygenase for broad-spectrum phthalate degradation</p> <p>Jai Krishna Mahto, <u>Ishani Mishra</u>, Kuldeep Jangid, Pravindra Kumar Department of Biosciences and Bioengineering, Indian Institute of Technology, Roorkee, India; Presenting author Email: i_mishra@bt.iitr.ac.in</p>
026	<p>Revolutionizing wastewater bioremediation with a biofilter for plasticizer extraction</p> <p><u>Arpan Kayastha</u>, Jai Krishna Mahto, Pravindra Kumar Department of Biosciences and Bioengineering, Indian Institute of Technology Roorkee, India; Presenting author Email: a_kayastha@bt.iitr.ac.in</p>
027	<p>Bacterial degradation of artificial sweetener aspartame isolated from activated sludge in batch system</p> <p><u>Aditi Singh</u>, Ram Sharan Singh* <i>Department of Chemical Engineering and Technology, Indian Institute of Technology-BHU, Varanasi, India; Presenting author Email: aditisingh.rs.che24@itbhu.ac.in</i></p>
028	<p>Recovering of metals from wastewater using orange peel-based Fe nanoparticles</p> <p><u>Elamathy S^a</u>, Narasingha Naik^a, Ramesh L. Gardas^b, Poonguzhali Elamvazhuthi^{a*} ^aGreen Chemistry Group, PC Ray Department of Chemistry, National Institute of Technology Puducherry, Karaikal, India; ^bIonic Liquid Group, Department of Chemistry, Indian Institute of Technology Madras, Chennai, India; Presenting author Email: saelamathy@gmail.com</p>
029	<p>Batch culture -Based Biodegradation of 2,4-Dichlorophenol Using a Novel Bacterial Strain: Insights into Process Optimization and Degradation Kinetic study</p> <p><u>Sudha Suman</u>, Vivek Kumar Jaiswal, Rajneesh Kumar, Ram Sharan Singh* Department of Chemical Engineering and Technology, Indian Institute of Technology, Banaras Hindu University, Varanasi, India; Presenting author Email: sudhasuman.rs.che23@itbhu.ac.in</p>
030	<p>Comparative Analysis of physicochemical and catalytic properties of lysozyme silver nanocatalyst immobilized on various nanotubes for degradation of Hazardous dyes</p>

	<p><u>Jinan Alhariry</u>¹, Krishna Mohan Poluri^{1,2*} ¹Department of Biosciences and Bioengineering, ²Centre for Nanotechnology, Indian Institute of Technology Roorkee, India; Presenting author Email: jinan.alhariry94@gmail.com/jinan@bt.iitr.ac.in</p>
031	<p>A carbon-negative strategy for simultaneous wastewater treatment and CO₂ reduction via microbial electrosynthesis</p> <p><u>Lakshmi Pathi Thulluru</u>¹, Manikanta M. Doki², Shamik Chowdhury¹, Makarand M. Ghangrekar^{2,3} ¹School of Environmental Science and Engineering, ²Department of Civil Engineering, Indian Institute of Technology Kharagpur, India; ³National Institute of Technology Puducherry, Karaikal, India; Presenting author Email: thullurulakshmipathi@gmail.com</p>
032	<p>Simultaneous treatment of wastewater and resource recovery through a biochar-based catalyst in a microbial desalination cell</p> <p><u>Srishti Mishra</u>¹, Brajesh K. Dubey^{1,2*}, Makarand M. Ghangrekar^{2,3*} ¹School of Water Resources, ²Department of Civil Engineering, Indian Institute of Technology, Kharagpur; ³National Institute of Technology Puducherry, Karaikal, India; Presenting author Email: srishtimishra.aim@kgpian.iitkgp.ac.in</p>
033	<p>Isolation, Characterization, and Consortium Development of Indigenous Hydrocarbon-Degrading Bacteria for Bioprocess-Based Remediation of Intermediate Fuel Oil Sludge</p> <p><u>Ashique Ahmed</u>^{1,2}; Sachin Ramesh Rao Geed^{1,2,*} ¹CSIR-North-East Institute of Science and Technology, Jorhat, India.; ²Academy of Scientific and Innovative Research, Ghaziabad, India; Presenting author Email: ahmedashique77@gmail.com</p>
034	<p>Production of Siderophores and study of its potential for heavy metal removal</p> <p><u>Akhil Pandey</u>, Radha Rani* Department of Biotechnology, Motilal Nehru National Institute of Technology Allahabad, Prayagraj, India; Presenting author Email: akhil.2023rbt01@mnnit.ac.in</p>
035	<p>Effects of micronutrient interactions in anaerobic digestion for biomethane production</p> <p><u>Suthakaran Ilango</u>, Prabakaran Ganeshan, Karthik Rajendiran The Net Zero Lab, Department of Environmental Science and Engineering, SRM University – AP, India; Presenting author Email: suthakaran_i@srmmap.edu.in</p>
036	<p>Fate of veterinary antibiotics in full-scale anaerobic digestion plants: a comparative study</p> <p><u>Maria Francesca Polli</u>¹, Giuliana D'Imporzano¹, Sara Panseri², Fabrizio Adani¹ ¹RICICLA Group, Department of Agricultural and Environmental Sciences, Università</p>

	degli studi di Milano, Milan, Italy; ² Department of Veterinary Medicine and Animal Science, Università degli studi di Milano, Lodi, Italy; Presenting author Email: maria.polli@unimi.it
037	<p>Valorization of pineapple leaf waste biomass into high-value prebiotics using a green extraction approach</p> <p><u>Diksha Sharma</u>^{a,c}, Vishal Sharma^{a, b}, Mei-Ling Tsai^a, Pei Pei Sun^a, Cheng-Di Dong^{b, c*}</p> <p>^aDepartment of Seafood Science, National Kaohsiung University of Science and Technology, Kaohsiung City, Taiwan; ^bDepartment of Marine Environmental Engineering, National Kaohsiung University of Science and Technology, Kaohsiung City, Taiwan; ^cInstitute of Aquatic Science and Technology, National Kaohsiung University of Science and Technology, Kaohsiung City, Taiwan; Presenting author Email: dikshas475@gmail.com</p>
038	<p>Unveiling Nutraceutical Potential of Cyanobacteria Thriving in Different Habitats</p> <p><u>Shaubhik Anand</u>, Sonam Sonam, Pawan K. Dadheech</p> <p>Department of Microbiology, School of Life Sciences, Central University of Rajasthan, Ajmer, India; Presenting Authors' E-Mail: 2022phdmb004@curaj.ac.in</p>
039	<p>Tribal fermentation practices harbouring probiotic yeast rich microbiome and their therapeutic potential in gut-liver health</p> <p><u>Aanchal Bharti</u>, Parvez Singh Slathia, Preeti Sharma</p> <p>School of Biotechnology, Shri Mata Vaishno Devi University, Katra, J&K, India</p>
040	<p>Production and characterization of multifunctional peptides in different varieties of soybean fermented with <i>Bacillus subtilis</i></p> <p><u>Tripta Dhalor</u>^{1,2}, Rounak Chourasia¹, Loreni Chiring Phukon¹, Jyoti^{1,2}, Md Minhazul Abedin¹, Vineet Kumar³, Amit Kumar Rai¹</p> <p>¹National Agri-food and Biomanufacturing Institute, Mohali, India; ²Regional Center for Biotechnology, Faridabad, India; ³ICAR- National Soybean Research Institute, Indore, India</p>
041	<p>Freshwater Algae from Northeast India as a Nutritional Resource for Nutraceuticals and Polyunsaturated Fatty Acids</p> <p><u>Riya Banik</u>^{a,b}; Gyanab Konwar^{a,b}; Jitendra Singh Verma^{a,b}; Sachin Ramesh Rao Geed^{a,b*}</p> <p>^aCSIR-North East Institute of Science and Technology, Jorhat, India; ^bAcademy of Scientific and Innovative Research, Ghaziabad, India</p>
042	<p>Understanding microbial Diversity of Raabdi for application of selected strains for the production of functional Millet-Based Fermented Beverage</p> <p><u>Jyoti</u>^{1,2}, Rounak Chourasia¹, Srichandan Padhi^{1,3}, Tripta Dhalor^{1,2}, Md Minhazul Abedin¹, Amit Kumar Rai^{1,2}</p> <p>¹National Agri-Food and Biomanufacturing Institute, Mohali, India; ²Regional Centre for Biotechnology, Faridabad, India; ³University Centre for Research and Development,</p>

	Chandigarh University, Mohali, India; Presenting author Email: ratheejyoti11421@gmail.com
043	<p>Polymeric Encapsulation of PGPR: A Novel Strategy for Controlled Release and Plant Growth Enhancement</p> <p><u>Shivani Mahra</u>, Sobhitha Mathew, Shivesh Sharma* Department of Biotechnology, Motilal Nehru National Institute of Technology, Prayagraj, India; Presenting author Email: shivani.2022rbt10@mnnit.ac.in</p>
044	<p>Quercetin as a Selective Quorum Sensing Inhibitor: <i>In silico</i> and <i>In vitro</i> Analysis Against <i>Pseudomonas syringae</i> with Limited Impact on Plant Growth-Promoting Bacteria</p> <p><u>Shivangi Bhatt</u>, Jignesh Parmar, Dweipayan Goswami, Meenu Saraf* Department of Microbiology and Biotechnology, Gujarat University, Ahmedabad, India; Presenting author Email: shiwubhatt23@gmail.com</p>
045	<p>Preparation and application of viable liquid bioformulation of salt-tolerant PGPBs from fermented panchagavya</p> <p><u>Drashti Patel</u>^{a,b}, Vikram Raval^a, Rakeshkumar Panchal^a, Rushikesh Joshi^b, Kiransinh Rajput^{a*} ^aDepartment of Microbiology and Biotechnology, School of Sciences, Gujarat University, Ahmedabad, India; ^bDepartment of Biochemistry and Forensic Sciences, School of Sciences, Gujarat University, Ahmedabad, India; Presenting author Email: drashti.patel@gujaratuniversity.ac.in</p>
046	<p>Optimization of parameters for hardening and field establishment of in vitro induced haploid and doubled-haploid plants of <i>Azadirachta indica</i> A. Juss</p> <p><u>Sangita Tamang</u>, Rakhi Chaturvedi* Department of Biosciences and Bioengineering, IIT Guwahati, Guwahati, India; Presenting author's Email: t.sangita@iitg.ac.in</p>
047	<p>Hydrogel-Assisted delivery of endophyte <i>Pseudomonas</i> SPT08 Enhances Tomato Yield and Quality under Drought via Antioxidant and GABA Modulation</p> <p><u>Deepak Kumar</u>¹, Madhav Dwived², Sreedeeep S³, Uttam Manna², Suvendra Kumar Ray⁴, Lingaraj Sahoo^{1*} ¹Department of Biosciences and Bioengineering, ²Department of Chemistry, ³Department of Civil Engineering, Indian Institute of Technology, Guwahati, India; ⁴Department of MBBT, Tezpur Central University, Tezpur, India; Presenting author Email: deepakk6007@iitg.ac.in</p>
048	<p>Effect of Super Absorbent Hydrogels (SAHs) on growth, yield and quality of Tea plants under deficit irrigation</p> <p><u>Mohd Asif Idrisi</u>¹, Madhav Dwivedi², Uttam Manna², Sreedeeep Sekharran³, Pradeep Patel⁴, Lingaraj Sahoo^{1*}</p>

	<p>¹Department of Biosciences and Bioengineering, ²Department of Chemistry, ³Department of Civil Engineering, Indian Institute of Technology Guwahati, India; ⁴Department of Plant Physiology and Breeding, Tocklai Tea Research Institute, Jorhat, India</p>
049	<p>Biogenic selenium nanoparticle modulates growth and physiological response in Wheat (<i>Triticum aestivum</i> L.) under arsenic Stress</p> <p><u>Preeti Vishwakarma</u>, Shivesh Sharma, Joyabrata Mal Department of Biotechnology, Motilal Nehru National Institute of Allahabad, Prayagraj, India; Presenting author Email: km.2022rbt04@mnnit.ac.in</p>
050	<p>Metagenomic Insights to Experimental Validation: Validating PGPR Traits in Saline <i>Sorghum bicolor</i> Rhizosphere</p> <p><u>Evina Varghese</u>, Meenu Saraf Department of Microbiology and Biotechnology, School of Sciences, Gujarat University, Ahmedabad, India; Presenting author Email: evinavarghese@gmail.com</p>
051	<p>Dual Role of Algae-Derived Hydrochar–Nanoparticle Systems for Sustainable Agro-applications</p> <p><u>Kungkamliu Newmei</u>, Priya Dhringra, Deepika Suneja, Mari Selvam S, Jyotsana Mehta, Bunushree Behera Bioprocess Engineering Laboratory, Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, India; Presenting author Email: kungkamliunewmei99@gmail.com</p>
052	<p>Development of a Ceramic Membrane Integrated Anaerobic Bioreactor for Enhanced Microbial Consortium Based Treatment of Real Textile Effluent</p> <p><u>Aman Chaudhary</u>^{1,2}, Saurabh Samuchiwal², Anushree Malik², Shaikh Ziauddin Ahammad³ ¹Applied Microbiology Laboratory, Centre for Rural Development and Technology, ²School of Interdisciplinary Research, ³Department of Biochemical Engineering & Biotechnology, Indian Institute of Technology Delhi, New Delhi, India; Presenting Author Email: amankchaudhary911@gmail.com, aman.chaudhary@sire.iitd.ac.in</p>
053	<p>Nucleoside Phosphorylase: A Hidden Player in Plant Stress Tolerance and Resilience</p> <p><u>Ritika Vishnoi</u>, Abhi S, Harsh Chauhan* ¹Department of Biosciences and Bioengineering, Indian Institute of Technology Roorkee, India, Presenting author Email: ritika_v@bt.iitr.ac.in</p>
054	<p>Dual HSF Power: Combining Heat-Inducible Class A Transcription Factors to Enhance Plant Resilience</p> <p><u>Suchi Baliyan</u>, Reeku Chaudhary, Sumit Kumar Mishra, Harsh Chauhan* Department of Biosciences and Bioengineering, Indian Institute of Technology Roorkee,</p>

	Roorkee, India, Presenting author Email: suchi@bt.iitr.ac.in
055	<p>Injectable intra-articular injections conjugated with natural biodegradable polymer/calcium nanocomposite with drugs for bone tissue engineering</p> <p>Monisha K, Shoba Narayan Faculty of Allied Health Sciences, Chettinad Hospital and Research Institute, Chettinad Academy of Research and Education, Kelambakkam, India; Presenting Author Email ID: monisha17799@gmail.com</p>
056	<p>Guaiazulene and Indane from <i>Padina gymnospora</i> as Multi-Targeted Anticancer Agents in A549 Cells</p> <p>Parnasi Khare¹, Sudeshna Menon¹, Shivangi Mathur² ^{1,2}Department of Biotechnology- Microbiology, Gujarat University, Ahmedabad, India; ¹Department of Biochemistry-Biotechnology, St. Xavier's College, Ahmedabad, India; Presenting author Email: parnasik98@gmail.com</p>
057	<p>Multifunctional Plant-bioactive Components Loaded Biopolymers Against Dental Caries</p> <p>Akshara Suresh¹, Daya Srinivasan², Shoba Narayan^{1*} ¹Faculty of Allied Health Sciences, Chettinad Hospital and Research Institute, Chettinad Academy of Research and Education, Kelambakkam, India; ²Department of Pediatric & Preventive Dentistry, Chettinad Dental College & Research Institute, Kelambakkam, India; Presenting author Email: aksharasuresh134@gmail.com</p>
058	<p>Actinobacteria as a Treasure Trove: Unlocking Multifunctional Therapeutics for the Post-Antibiotic Era</p> <p>Subhankar Das¹, Manjula Ishwara Kalyani² ¹Biotechnology Unit, Mangalore University, Mangalore, India; ²Department of Microbiology, Mangalore University, Mangalore, India; Presenting authors' Email: subhankardas.sunny.92@gmail.com</p>
059	<p>Anti-cancer drug adjuvants: Organo-diselenides as potent covalent GUS inhibitors</p> <p>Tarushi^{a,b}, Chitra D Pathak^{a,b}, Subhash C Bihani^{a,b} ^aHomi Bhabha National Institute, Anushaktinagar, Mumbai, India.; ^bProtein Crystallography Section, Bhabha Atomic Research Centre, Trombay, Mumbai, India; Presenting author Email: biochemist.tarushi10@gmail.com</p>
060	<p>ASGPR-1 Guided Drug Delivery Using Galactosylated Electrospun Nanofibers for Hepatic Cancer Treatment</p> <p>Pramodh Rao N,[§] Juby K. Ajish,^{†*} K. S. Ajish Kumar^{§*} [§]Bio-Organic Division, [†]Radiation and Photochemistry Division, Bhabha Atomic Research Centre, Mumbai, India; [‡]Homi Bhabha National Institute, Anushaktinagar, Mumbai, India; Presenting author Email:pramodhrao16@gmail.com;pramodh@barc.gov.in</p>

061	<p>Eradication of fungal biofilm using farnesol functionalized chitosan-gold nanoparticles</p> <p>Amit Kumar¹, Emansi Yadav², Bhawana Yadav¹, Krishna Mohan Poluri^{2,3}, Payal Gupta¹ ¹Department of Biotechnology, Graphic Era Deemed to be University, Dehradun, India; ²Department of Biosciences and Bioengineering, ³Centre for Nanotechnology, Indian Institute of Technology, Roorkee, India; Presenting author Email: Amitbihania1998@gmail.com</p>
062	<p>Kinetic modelling of starch hydrolysis under polyphenol inhibition: an in silico study in pre-diabetic and diabetic patients</p> <p>Ankita Nath, Ravi Kant Avvari Department of Biotechnology and Medical Engineering, National Institute of Technology, Rourkela, India; Presenting author Email- 522bm1001@nitrkl.ac.in</p>
063	<p>Genomic Insights into the Unique Antimicrobial Resistance Landscape of Uropathogenic <i>E. coli</i> in India</p> <p>Milan Dabhi¹, Rohit Patel¹, Viral Shah², Rakesh Rawal³, Dweipayan Goswami^{1*} ¹Department of Microbiology and Biotechnology, University School of Sciences, Gujarat University, Ahmedabad, India; ²Unipath Speciality Laboratory, Panjara Pol, Ambawadi, Ahmedabad, India; ³Department of Medical Biotechnology, GIFT City, Gujarat Biotechnology University, Gandhinagar, India; Presenting author Email: milan24dabhi@gmail.com</p>
064	<p>Exploring phytocompound - chito-oligosaccharides cocktail: Potential biocompatible therapeutic for infection control and skin care</p> <p>Dhanishta Vilas Attarde^{1,2}, Neelu Nawani^{1*} ¹Microbial Diversity Research Centre, Dr. D. Y. Patil Biotechnology and Bioinformatics Institute, Dr. D. Y. Patil Vidyapeeth (Deemed to be University), Pune, India; ²Bioinformatics Research Laboratory, Dr. D. Y. Patil Biotechnology and Bioinformatics Institute, Dr. D. Y. Patil Vidyapeeth (Deemed to be University), Pune, India; Presenting author: Dhanishta Vilas Attarde, dhanishta.attarde@dpu.edu.in</p>
065	<p>Therapeutic potential of gut microbial metabolites in modulating enzymes involved in the progression of atherosclerosis</p> <p>Harshita Gupta, Ravindra Pal Singh* Department of Industrial Biotechnology, Gujarat Biotechnology University, Gandhinagar, India; Presenting author email: guptaharshita1014@gmail.com</p>
066	<p>Development of Electrospun Polysuccinimide/Poly(lactic acid) nanofibers loaded with ZnO/TiO₂ nanocomposites for Diabetic Wound Healing</p> <p>Gunjan Adwani, Sharda Bharti*, Awanish Kumar* Department of Biotechnology, National Institute of Technology, Raipur, India; Presenting author Email: gunjanadwani.ga@gmail.com</p>

067	<p>Development of Hydrophobic and Antibacterial Cotton-Based Sutures with Enhanced Biocompatibility for Wound Healing Applications</p> <p><u>Rudra Narayan Saha</u>, Manas Datta Roy, Subrata Ghosh, Prasanta Das Department of Textile Technology, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, India; Department of Textile Engineering, Panipat Institute of Engineering & Technology, Panipat, India; Presenting author Email: rudrans.tt.22@nitj.ac.in</p>
068	<p>Phytoerythrin Enhances Host Antioxidant Defense and Immune Signaling Against Pathogen Challenge</p> <p><u>Bhargavi Sonavane</u>¹, Niraj Kumar Singh², Seema Amin¹, <u>Datta Madamwar</u>^{1*} ¹Biological Sciences, PD Patel Institute of Applied Sciences, Charotar University of Science & Technology, Changa, India; ²Gujarat Biotechnology Research Centre (GBRC), Department of Science and Technology, Government of Gujarat, Gandhinagar, India; Presenting author Email: bhattbhargavi95@gmail.com</p>
069	<p>Potential of Neem oil-loaded Kunitz Inhibitor nanoparticles in the management of <i>Helicoverpa armigera</i></p> <p><u>D. Gupta</u>¹, A. Spandana¹, S. Mishra², J. Jaba², M.K. Arunasree³, K. Padmasree^{1*} ¹Department of Biotechnology and Bioinformatics, School of Life Sciences, University of Hyderabad, Gachibowli, Hyderabad, India; ²Entomology, International Crops Research Institute for the Semi-Arid Tropics, Hyderabad, India; ³Department of Animal Biology, School of Life Sciences, University of Hyderabad, Hyderabad, India; Presenting author Email: 211tph09@uohyd.ac.in</p>
070	<p>Impact of Hyperthermia on Gut and Cardiac Function: Exploring the Gut–Heart Crosstalk</p> <p><u>Sugandha Jaiswal</u>, Vinod Kumar Nigam, Rakesh Kumar Sinha Department of Bioengineering and Biotechnology, BIT Mesra, Ranchi, India; Presenting author Email: sugandhaoffice96@gmail.com</p>
071	<p>AI-based diagnosis of cardiac transplant patients using histopathology images</p> <p><u>Mansi Bansal</u>¹, Surbhi Jain³, Sudheer Arava³, Ruma Ray³, Deepak Sharma^{1,2} ¹Department of Biosciences and Bioengineering, ²Mehta Family School of Data Science and AI, IIT Roorkee, ³Department of Pathology, AIIMS New Delhi, India; Presenting author Email: mansi_b@bt.iitr.ac.in</p>
072	<p>Therapeutic effects of probiotics and prebiotics on inflammation of the gut microbiome in collagen-induced arthritis in C57BL/6 mice</p> <p><u>Yara Ali Nader</u>, A Helen Department of Biotechnology, University of Kerala, Trivandrum, India; Presenting author Email: yarand15060@gmail.com</p>

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073	<p>A Potent Microbial Product from <i>Trichoderma viride</i> MJ1: Sustainable Antifungal Strategy against <i>Macrophomina phaseolina</i></p> <p><u>Jasleen Kaur, Meenu Saraf</u> Department of Microbiology and Biotechnology, University School of Sciences, Gujarat University, Gujarat, Ahmedabad, India; Presenting author Email: Jasleen.meet@gujaratuniversity.ac.in</p>
074	<p>Green synthesis of silver nanoparticles using <i>Zanthoxylum armatum</i> DC.: Evaluation of Antimicrobial and Antioxidant Activities</p> <p><u>Pritikumari Pandey, Jeevan Jyoti Kaushik</u> Department of Microbiology, School of Basic and Applied sciences, Shri Guru Ram Rai University, Dehradun, India</p>
075	<p>Bioprospecting Oil-Polluted Environments for Polyhydroxyalkanoate-Producing Bacteria: Fermentation, Extraction, and Characterization</p> <p><u>Herculish Sapam, Amit Jain</u> Department of Chemical Engineering, Birla Institute of Technology and Science, Pilani, India; Presenting author Email: p20230418@pilani.bits-pilani.ac.in</p>
076	<p>Synthesis and characterization of Agriculture based superabsorbent polymer using low-cost lignin derived from biomass</p> <p><u>Shivam Prateek Singh, Ram Sharan Singh</u> Department of Chemical Engineering & Technology, Indian Institute of Technology, Varanasi, India; Presenting author Email: shivamprateeksingh.rs.che24@itbhu.ac.in</p>
077	<p>Optimization of γ-PGA Production from Black Soybean Waste for bioplastic production Using Response Surface and Taguchi Approaches in Submerged Fermentation</p> <p><u>Rakhi Rajput, Soumya Pandit</u> Department of Life Sciences, SSBSR, Sharda University, Greater Noida, India</p>
078	<p>Differential Responses of <i>Nostoc</i>, <i>Scytonema</i>, <i>Cylindrospermum</i>, and <i>Anabaena</i> to Chromium and Arsenic Stress: Growth, Chlorophyll-a, Carotenoid, and Protein Analysis</p> <p><u>Sweety Sahu</u> Department of Botany, CMP PG College, University of Allahabad, Prayagraj, India; Presenting author Email: sweetysahu326@gmail.com</p>
079	<p>Optimization of nitrogen source concentration in a fermentation medium for validamycin A production using central composite design (CCD) and genetic algorithm (GA)</p>

	<p>Ashish Yadav, Nand Kumar Singh, Rupika Sinha Department of Biotechnology, Motilal Nehru National Institute of Technology Allahabad, Prayagraj, Uttar Pradesh, India; Presenting author Email: ashish.2022rbt03@mnit.ac.in</p>
080	<p>Comparative study of biogenic amine detection using colorimetric, fluorescence, and electrochemical sensors based on gold nanoparticles</p> <p>Anudevi SD¹, Kumar Ebenazar K², Shoba Narayan^{1*} ¹Faculty of Allied Health Sciences, Chettinad Hospital and Research Institute, Chettinad Academy of Research and Education, Kelambakkam, India; ²College of Allied Health Sciences, Faculty of Medicine & Health Science, SRM Institute of Science & Technology, Irungalur, India; Presenting author Email: anuma5199@gmail.com</p>
081	<p>Development of a cassava bagasse-based circular process to promote sustainable resource utilisation</p> <p>Rooben Reena^{a,b}, Parameswaran Binod^{a,b} ^aBiosciences and Bioengineering Division, CSIR-National Institute for Interdisciplinary Science and Technology, Trivandrum, India ; ^bAcademy of Scientific and Innovative Research, Ghaziabad, India; Presenting author Email: reenajcr@gmail.com</p>
082	<p>Evaluating comparative influence of salt sources on marine diatom growth and metabolite production</p> <p>Rinku, Abhishek Saxena, Archana Tiwari* Diatom Research Laboratory, Amity Institute of Biotechnology, Amity University, Noida, India; Presenting author Email: rinkukaushik703@gmail.com</p>
083	<p>Ammoniacal glycerol pretreatment for high ethanol yield from rice (<i>Oryza sativa</i>) straw</p> <p>Meheria Hazari, Krishnan Chandraraj* Department of Biotechnology, Indian Institute of Technology Madras, Chennai, India; Presenting author Email: bt23d080@smail.iitm.ac.in</p>
084	<p>Comparative Evaluation of Pretreatment Strategies for Saccharification of Algal Strains Isolated from North-East India</p> <p>Gyanab Konwar^{a,b}; Riya Banik^{a,b}; Jitendra Singh Verma^{a,b}; Sachin Ramesh Rao Geed^{a,b*} ^aCSIR-North East Institute of Science and Technology, Jorhat, India; ^bAcademy of Scientific and Innovative Research, Ghaziabad, India; Presenting author Email: gyanabkonwar99@gamil.com</p>
085	<p>Impact of Ciprofloxacin on COD and nutrient removal from simulated wastewater by aerobic granular sludge in sequencing batch reactor (AGS-SBR)</p> <p>Rishu Kumari Singh¹, YV Nanchariah^{2,3}, Joyabrata Mal^{1*} ¹Department of Biotechnology, Motilal Nehru National Institute of Allahabad, Teliyanganj, Prayagraj, India; ²Biofouling and Biofilm Processes Section, Water & Steam Chemistry Division, Bhabha Atomic Research Center, Kalpakkam, India; ³Homi Bhabha</p>

	National Institute, Anushaktinagar, Mumbai, India; Presenting author Email: rishu.2023rbt14@mnnit.ac.in
086	<p>Comparative Analysis of Various Nanomaterials on Microalgal Growth and Carotenoid</p> <p><u>Vaishali Chaudhary</u>, Monika Prakash Rai* Bioenergy and Biorefinery Lab, Department of Biotechnology, Motilal Nehru National Institute of Technology Allahabad, Prayagraj, India; Presenting author Email: Vaishali.2023rbt06@mnnit.ac.in</p>
087	<p>Integrated strategy leveraging duckweed biomass to bioenergy: Bioremediation of MFC effluents with an algal photobioreactor</p> <p><u>Sneha Prakash Naik</u>, Gunda Mohanakrishna* Center for Energy and Environment, School of Advanced Sciences, KLE Technological University, Hubballi, India; Presenting author Email: sneha.naik@kletech.ac.in; snehanaik@gmail.com</p>
088	<p>Application of different pretreatment methods for delignification of lignocellulosic biomass</p> <p><u>Anisha Bhowmick</u>, Kasturi Dutta Department of Biotechnology and Medical Engineering, National institute of Technology Rourkela, India; Presenting author Email: bhowmick25anisha@gmail.com, 522bm1007@nitrkl.ac.in</p>
089	<p>Enhanced Bioenergy Recovery by combining Dark Fermentation with Microbial Fuel Cell using Agricultural Residues as Substrate</p> <p><u>Soumyajit Chandra</u>, Soumya Pandit* Department of Life Science, Sharda University, Greater Noida, India</p>
090	<p>Sustainable energy generation in Microbial Fuel Cell by utilizing Exopolysaccharide-producing Bacteria</p> <p><u>Abhinav Kumar Singh</u>^a, Rahul Gautam^b, Gaurav Manik^{a*} ^aDepartment of Polymer and Process Engineering, Indian Institute of Technology, Roorkee, Saharanpur Campus, Saharanpur, India; ^bFaculty of Engineering and Natural Sciences (ENS), Tampere University, Finland; Presenting author Email: abhinav_ks@pe.itr.ac.in</p>
091	<p>Bioelectrochemical ethylene production from food waste: Enhancing ecological benefits of dark fermentation by utilizing its effluents</p> <p><u>Shalaka Sunil Kamble</u>, Mohanakrishna Gunda* Center for Energy and Environment, School of Advanced Sciences, KLE Technological University, Hubballi, India; Presenting author Email: shalaka.kamble20@gmail.com</p>
092	Investigations on Economic and Environmental Sustainability for Industrial

	<p>Scale Biodiesel Production from Macroalgal <i>Ulva intestinalis</i> Biomass: Concept of Biorefinery Approach</p> <p><u>Pravin Ravichandran</u>, Baskar Gurunathan Department of Biotechnology, St. Joseph's College of Engineering, Chennai, India; Presenting author Email: omexpravin@gmail.com</p>
093	<p>Computational Investigation of Natural Phytoconstituents as Multi-Target Inhibitors and Neuroprotective Agents Against Alzheimer's Disease</p> <p><u>Pragya Gupta</u>, Rachana R* Department of Biotechnology, Jaypee Institute of Information Technology, India; Presenting author Email: pragyaguptajb@gmail.com</p>
094	<p>Structural and Biochemical Insights into Cotton 5-Enolpyruvylshikimate-3-Phosphate Synthase: Towards Inhibitor Design and Glyphosate Resistance</p> <p><u>Kuldeep Jangid</u>¹, Rakesh Kumar², Deeksha Chaudhary¹, Shailja Verma¹, Ashwani Kumar Sharma¹, Pravindra Kumar¹ ¹Department of Bioscience and Bioengineering, Indian Institute of Technology Roorkee, India; ²ICAR-Central Institute for Cotton Research, Nagpur, India; Presenting author Email: k_jangid@bt.iitr.ac.in</p>
095	<p>Unravelling the crucial role of the conserved N-terminal β-flap of thiol peroxidases through structure-function characterization of Staphylococcal atypical two-cysteine peroxiredoxin</p> <p><u>Manjari Shukla</u>, Sudipta Bhattacharyya Indian Institute of Technology Jodhpur, India; Presenting author Email: shukla.9@iitj.ac.in</p>
096	<p>Peptide-Based Strategy for Designing Inhibitors of <i>Mycobacterium tuberculosis</i> Isocitrate Lyase</p> <p><u>Chanda Saini</u>, AK Yadav, Madhuri, AS Ethayathulla, KK Inampudi, M Kumar Department of Biophysics, All India Institute of Medical Sciences, New Delhi, India; Presenting author Email: chanda.saini@aiims.edu</p>
097	<p>Moonlighting Role of GroEL in Stabilizing PaLCuV Coat Protein for Geminivirus Capsid Assembly</p> <p><u>Ankit Kumar</u>, Sangeeta Saxena, Yusuf Akhter Department of Biotechnology, Babasaheb Bhimrao Ambedkar University, Lucknow, India; Presenting author Email: ankit.rs.dbt@bbau.ac.in</p>
098	<p>Targeting full-length LasR to disrupt quorum sensing and biofilm formation in <i>Pseudomonas aeruginosa</i>: Experimental and in silico Approaches</p> <p><u>Shivani Rawat</u>, Shweta Singh, Mukesh Kumar, Subarnarekha Chowdhury, Punit Kaur Department of Biophysics, All India Institute of Medical Sciences, New Delhi, India; Presenting author Email: shivanirawat140299@aiims.edu</p>

099	<p>Unveiling the Role of Aromatic Interactions in ATP-Competitive Protein Kinase Inhibition through Computational Analysis</p> <p><u>Harsh Nandini</u>^{1,3}, Eram Fatima,^{2,3} Arvind Singh Negi,^{2,3} Prema G Vasudev^{1,3} ¹Plant Biotechnology Division, ²Phytochemistry Division, CSIR-Central Institute of Medicinal and Aromatic Plants, Lucknow, ³AcSIR- Academy of Scientific and Industrial Research, India; Presenting author Email: harshnandiniverma2310@gmail.com</p>
100	<p>Structural and functional insights into clinical variants of SARS - CoV-2 PLpro</p> <p><u>Janani Ganesh</u>^{1,2}, Rimanshee Arya^{1,2}, Vishal Prashar^{1,2}, Mukesh Kumar^{1,2} ¹Protein Crystallography Section, Bhabha Atomic Research Centre, Mumbai, India; ²Homi Bhabha National Institute, Mumbai, India; Presenting author Email: janani@barc.gov.in</p>
101	<p>Integrated In Silico Identification and Characterization of a Dual Mutant IDH1/IDH2 Inhibitor for Therapeutic Targeting of Glioblastoma</p> <p><u>Nivedhitha Tamilazhagan</u> Vellore Institute of Technology, Vellore, India; Presenting author Email: nivedhithatamilazhagan1411@gmail.com</p>
102	<p>The dynamic phosphorylation of Ser7 of RNA Pol II-CTD is essential for the recruitment of proteins involved in mRNA transcription</p> <p><u>Adity Gupta</u> Biochemistry and Structural Biology Division, Central Drug Research Institute, Lucknow, India; Email: adityguptacdri@gmail.com</p>
103	<p>Microbial Desalination Cells as a Circular Bioelectrochemical Platform for Sustainable Energy–Water Nexus</p> <p><u>Rahul Kumar Mishra</u>, Soumya Pandit Department of Life Sciences, Sharda University, Greater Noida, Uttar Pradesh, India; Presenting author email: rm85658@gmail.com</p>
104	<p>Integrated Hydrothermal Depolymerization and Electrofermentation Approach for Biohydrogen Production from PET-Derived TPA</p> <p><u>Vaibhav Nailwal</u>^{1,3}, Gandham Suresh¹, A Kiran Kumar¹, S Venkata Mohan*^{1,2,3} ¹Bioengineering and Environmental Sciences Lab, Department of Energy and Environmental Engineering, CSIR-Indian Institute of Chemical Technology, Hyderabad, India; ²CSIR-National Environmental Engineering Research Institute, Nagpur, India; ³Academy of Scientific and Innovative Research, Ghaziabad, India; Presenting author E-mail: vaibhavnailwal@gmail.com</p>
105	<p>Evaluation of biohydrogen production from food waste via MQ8 sensor</p> <p><u>Shwetakshi Mishra</u>, Ravikiran K, Srikanth Mutnuri Birla Institute of Technology and Science Pilani, Goa, India; Presenting author Email:</p>

	p20240001@goa.bits-pilani.ac.in
106	<p>Sustainable Jet Fuel Processing: Novel Deep Eutectic Solvent Adsorbents for Sulphur Removal</p> <p>Rupam Chatterjee, Debarati Mitra Department of Chemical Technology, University of Calcutta, Kolkata 700009, India; Presenting author Email: rupam7413@gmail.com</p>
107	<p>Decarbonization of the Cement Industry: Pathways and Environmental Impact Assessment</p> <p>Rahul Ramesh, Vigneswaran VS, Karthik Rajendran* The NET ZERO Lab, Department of Environmental Science and Engineering, School of Engineering and Sciences, SRM University-AP, Amaravati, India; Presenting author Email: rahul_r@srmmap.edu.in</p>
108	<p>Environmental health assessment of the spring-fed Heval River, ecologically a significant tributary of the Holy River Ganga</p> <p>Niharika Arya, Rajesh Rayal Department of Zoology & Environmental Science, School of Basic & Applied Sciences, Shri Guru Ram Rai University, Dehradun, Uttarakhand, India; Presenting author Email: niharikaarya66@gmail.com</p>
109	<p>Structural and Functional Insights into the DNA-Binding Protein YncE from <i>Salmonella enterica</i> Serovar Typhi</p> <p>Subhash Chandra Pani, Immanuel Dhanasingh Centre for Bio-Separation Technology, Vellore Institute of Technology, Vellore, India; Presenting author Email: subham23197@gmail.com</p>
110	<p>Fibulin7 C-terminal bioactive peptide regulates metabolic profiling of macrophages during inflammation via integrin $\alpha 5\beta 1$</p> <p>Saloni Gupta, Shubham Kumar Rai, Rama N. Behera, Saikat Roy, Kiran Ambatipudi, Pranita P. Sarangi Department of Biosciences and Bioengineering, Indian Institute of Technology Roorkee, India; Presenting author Email: sgupta2@bt.iitr.ac.in</p>
111	<p>Mapping Structure–Stability Relationships in T7L Endolysin via Targeted Leucine Substitutions</p> <p>Harshi Saxena^a, Krishna Mohan Poluri^{a, b} ^aDepartment of Biosciences and Bioengineering, ^bCentre for Nanotechnology, Indian Institute of Technology Roorkee, Roorkee, India; Presenting author Email: h_saxena@bt.iitr.ac.in</p>
112	<p>AI-Driven Electrochemical Biofuel Generation: High-Purity Hydrogen Production from Waste-Derived Substrates in Microbial Electrolysis Cells</p> <p>Darshita Valde, Satya Eswari Jujjavarapu*</p>

	Department of Biotechnology, National Institute of Technology Raipur, Raipur, India
113	<p>Waste cooking oil as a cost-effective substrate for lipase production from marine <i>Bacillus</i> sp. AS17 and its application for sustainable energy</p> <p><u>Vaishnavi C Goswami</u>, Devayani R Tipre Department of Microbiology and Biotechnology, School of Sciences, Gujarat University, Ahmedabad, India; Presenting author Email: vaishnavigoswami5697@gmail.com</p>
114	<p>Phytochemical Characterization, <i>In Silico</i>, and <i>In Vitro</i> Evaluation of Antioxidant and Anticancer Activities of Methanolic Extracts from <i>Momordica cochinchinensis</i> (Lour.) Spreng. Leaf and Fruit</p> <p><u>Priya Yadav</u>^{a,h}, Anuj Kumari^b, Renuka Goel^a, Rakesh Bhardwaj^c, Suma A^d, Sneha Murmu^e, Niladri Sekhar Chatterjee^f, Supradip Saha^g, Lalit Arya^a, Ritu Kulshreshtha^b, Sharad Vats^{h,*}, Manjusha Verma^{a,*} ^aDivision of Genomic Resources, ICAR-National Bureau of Plant Genetic Resources, New Delhi</p>
115	<p>Structural and Mechanistic Insights into Monoethylhexyl Phthalate Degradation by <i>Rhodococcus</i> EG5 Hydrolase</p> <p><u>Shubham Aggarwal</u>, Kuldeep Jangid, Saurabh Singh, Ashwani Kumar Sharma, Pravindra Kumar Department of Biosciences and Bioengineering, Indian Institute of Technology Roorkee, India; Presenting author Email: shubham_a@bt.iitr.ac.in</p>