

XII International Forum on Industrial Bioprocesses Braga, Portugal

Schedule of contributory oral presentations

Abstract no OP	Session, Presentation time	Details
<u>10th September 2026</u>		
001	Session IIC 1100-1200h Presentation time for each presenter- 10 mins. Suggested maximum number of slides: 15	Selective Extraction of High-Value Chemical Compounds from <i>Eucalyptus globulus</i> Pyrolysis Bio-Oil <u>Paulo Victor Borret Bonjour Nascimento^{a,b}</u> , Alexandre, MS Jorge ^a , Gustavo MRPL de Sousa ^b , Jorge FB Pereira ^a ^a University of Coimbra, CERES, Department of Chemical Engineering, Coimbra, Portugal; ^b Bio Green Woods, Zona Industrial do Rego da Murta, Rego da Murta, Portugal. Presenting authors' email: bonjour.engqui@gmail.com
002		Integrated Ultrasound-Enzymatic approach for efficient extraction of polyphenols from kodo millet (<i>Paspalum scrobiculatum</i>) bran: Optimization, antioxidant activity and functional characterization Himanshu Gaur ¹ , <u>Parmjit S Panesar¹</u> , Kanthi K Kondepudi ² ¹ Food Biotechnology Research Laboratory, Department of Food Engineering and Technology, Sant Longowal Institute of Engineering and Technology, Longowal, Punjab, India; ² Healthy Gut Research Group, Food and Nutrition Biotechnology division, National Agri-Food and Biomanufacturing Institute, SAS Nagar, Punjab, India. Presenting authors' email: pspbt@yahoo.com
003		From Extraction to Advanced Functional Materials: An Overview of Lignin Valorization Strategies within Lignocellulosic Biorefineries <u>Michele Michelin^{a,b}</u> , Francieli Colussi ^a , Miguel A Cerqueira ^c , José A Teixeira ^{a,b} ^a CEB – Centre of Biological Engineering, University of Minho, Braga, Portugal; ^b LABBELS – Associate Laboratory, Braga, Guimarães, Portugal; ^c International Iberian Nanotechnology Laboratory, Braga, Portugal. Presenting authors email: mimichelin@ceb.uminho.pt
004		Alginate production using <i>Azotobacter vinelandii</i> and apple waste as carbon source <u>Rubén Ruiz Simón</u> , Victoria E. Santos Mazorra, Miguel Ladero Galán FQPIA research group, Department of Chemical and Materials Engineering, Complutense University of Madrid, Spain. Presenting authors' email: ruiz01@ucm.es
005	Session IIIC 1400-1530h Presentation time for each	Omics-Guided Next-Generation (NxG) Microbial Bioprocessing and Novel Stable Formulation of a <i>Trichoderma</i> Consortium for Sustainable Tomato Protection and Yield Enhancement

	presenter- 10 mins. Suggested maximum number of slides: 15	<u>Vimala Prakash</u> , Ajit Kumar Passari, Divya Sharma, Pragati Katiyar, Gaurav Sood, Artha Kundu Technology Innovation Centre, IPL Biologicals Limited, Gurugram, Haryana, India. Presenting authors' email: vimala.prakash@iplbiologicals.com
006		Pigment and fatty acid profiling of <i>Dunaliella</i> strains isolated from Greek salterns <u>Oxynoudi Chrysafenia</u> ¹ , Papamargariti Ioanna ¹ , Spyros Gkelis ² , Fani Th Mantzouridou ¹ ¹ Laboratory of Food Chemistry and Technology, School of Chemistry, ² Department of Botany, School of Biology, Aristotle University of Thessaloniki, Thessaloniki, Greece. Presenting authors' email: coxynou@chem.auth.gr
007		Sustainable Valorization of Composite Agricultural Residues for the Rapid Cultivation of <i>Pleurotus ostreatus</i> Mycelium Bioleather <u>Mohana Priya Shankar</u> , Anusha, Devarai Santhosh Kumar Department of Chemical Engineering, Indian Institute of Technology, Telangana, India
008		Acetic Acid Production via Mixotrophic CO₂ Bioconversion by <i>Moorella thermoacetica</i> <u>E Georgiadou</u> , A Skourtis, O Psaki, C Argeiti, A Koutinas Department of Food Science and Human Nutrition, Agricultural University of Athens, Athens, Greece. Presenting authors' email: eva.georgiadou25@yahoo.com
009		Advances in the production of ellagic acid via solid-state fermentation in column reactors Ana Karen De La Rosa Esteban ¹ , Leonardo Sepúlveda Torre ¹ , J. Juan Buenrostro Figueroa ² , Mónica L Chávez Gonzalez ¹ , Aide Sáenz Galindo ³ , <u>Juan A Ascacio Valdés</u> ¹ ¹ Bioprocesses & Bioproducts Research Group, Autonomous University of Coahuila, Saltillo, Coahuila, México; ² Food Research Center and Development, Unidad Delicias, Chihuahua, México; ³ School of Chemistry, Autonomous University of Coahuila, Saltillo, Coahuila, México
010		Construction of continuous directed evolution systems and efficient biomanufacturing of microbial protein Yanfeng Liu School of Biotechnology and Science Center for Future Foods, Jiangnan University, Wuxi, China. Email: yanfengliu@jiangnan.edu.cn
011		Biological Recycling of Thermoplastic Starch via Algal–Microbial Co-Cultures for Value-Added Bioproduct Manufacture Fryni Pyrilli, Evdokia Syranidou, <u>Michalis Koutinas</u> Department of Chemical Engineering, Cyprus University of Technology, Limassol, Cyprus. Presenting authors' email: michail.koutinas@cut.ac.cy
012		From Vineyard to Biomaterials: Upcycling Grape Stems into Biocomposites via Autohydrolysis and Fungal Fermentation <u>Bianca Marques</u> ¹ , José A Teixeira ^{1,2} , Cristina MR Rocha ^{1,2}

		¹ Centre of Biological Engineering, ² LABELLS – Associate Laboratory, University of Minho, Braga, Portugal. Presenting authors’ email: id9391@alunos.uminho.pt
013	Session IVC 1600-1645h Presentation time for each presenter- 10 mins. Suggested maximum number of slides: 15	Cyanobacteria cultivation in waste-based medium for sustainable carbon capture and waste valorization Sheetal Kishor Parakh , Yen Wah Tong Department of Chemical and Biomolecular Engineering, College of Design and Engineering, National University of Singapore, Singapore. Presenting authors’ email: sheetalparakh@nus.edu.sg
014		Illumination Modeling to Support Photobioreactor Design, Operation, and Scale-Up Jiachen Sun , Yen Wah Tong, Kai-Chee Loh Department of Chemical and Biomolecular Engineering, National University of Singapore, Singapore. Presenting authors’ email: jiachen.sun@u.nus.edu
015		Production of bacterial cellulose in see-saw bioreactor and its optimization Rintu Banerjee Department of Agricultural and Food Engineering, Indian Institute of Technology, Kharagpur. Email: rintuin@gmail.com
<u>11th September 2026</u>		
016	Session VC 0900-1030h Presentation time for each presenter- 10 mins. Suggested maximum number of slides: 15	Natural Deep Eutectic Solvents (NADES) for sustainable extractions of bioactives with enhanced functionality Paula Jauregi ^{1,4} , Leire Esnal-Yeregi ^{1,2} , Jalel Labidi ³ ¹ Food Research, AZTI, Basque Research and Technology Alliance, Derio, Bizkaia, Spain; ² Department of Chemical and Environmental Engineering, University of the Basque Country UPV/EHU, San Sebastian, Spain; ³ BioRP Biorefinery processes Group, Department of Chemical and Environmental Engineering, University of the Basque Country UPV/EHU, San Sebastian, Gipuzkoa, Spain; ⁴ Basque Foundation for Science, Ikerbasque, Bilbao, Spain. Presenting authors’ email: pjauregi@azti.es
017		Therapeutic Valorization of Moroccan Pine Needles: Unlocking the Gastroprotective Potential of a Sustainable Forestry By-Product through Phenolic Bioactives Widad Tbatou ^{1,2,3} , Clarisse Nobre ^{3,4} , José A Teixeira ^{3,4} , Bruno Eto ² , Badiia Lyoussi ⁵ , Zineb Benziane Ouaritini ¹ ¹ Laboratory of Biotechnology, Conservation and Valorization of Bioresources (BCVB), Research Unit: Api-Phytotherapy, Physiology, Environment and Health, Faculty of Sciences Dhar El Mahraz, Sidi Mohamed Ben Abdellah University, Fez, Morocco. ² Laboratories TBC, Laboratory of Pharmacology, Pharmacokinetics and Clinical Pharmacy, Faculty of Pharmacy, University of Lille, Lille, France; ³ CEB - Centre of Biological Engineering, University of Minho, Braga, Portugal; ⁴ LABELLS – Associate Laboratory, Braga, Portugal; ⁵ Laboratory of Natural Substances, Pharmacology, Environment, Modeling, Health and Quality of Life, Faculty of Sciences Dhar El Mahraz, Sidi Mohamed Ben Abdellah University, Fez, Morocco. Presenting authors’ email: widadtbatou32@gmail.com

018		Machine Learning-Driven Optimization of Fermentation Process for the Valorization of Proteins Extracted from Sunflower Meal <u>Buse Bıyıklı</u>¹, Atakan Ünlü², Müge İşleten-Hoşoğlu¹ ¹Department of Interdisciplinary Biotechnology, Gebze Technical University, Kocaeli, Türkiye; ²Department of Bioinformatics and Systems Biology, Gebze Technical University, Kocaeli, Türkiye. Presenting authors' email: b.biyikli2024@gtu.edu.tr
019		Efficient use of persulfate-assisted alkaline treatment to obtain p-coumaric acid and biosorbent from maize cob lignin José Daladiê Barreto da Costa Filho¹, José Demétrio Nery Cavalcante¹, Íthalo Barbosa Silva de Abreu², Emmanuel Damilano Dutra², <u>Everaldo Silvino dos Santos</u>¹, Jackson Araujo de Oliveira¹, Carlos Eduardo de Araújo Padilha¹, Domingos Fabiano da Santana Souza¹ ¹Federal University of Rio Grande do Norte, Brazil; ²Federal University of Pernambuco, Brazil. Presenting authors' email: everaldo.santos@ufrn.br
020		Super-critical fluid extraction of phenolic and flavonoid compounds from <i>Litchi chinesis</i> kernel: bioactivity and antimicrobial study Jyoti Soni^a, <u>Avinash Thakur</u>^b, Parmjit Singh Panesar^a ^aFood Biotechnology Research Laboratory, Department of Food Engineering and Technology, ^bResearch Laboratory-III, Department of Chemical Engineering, Sant Longowal Institute of Engineering and Technology, Longowal, Punjab, India. Presenting authors' email: avin_thakur2@yahoo.com; avinashthakur@sliet.ac.in
021		Enhancing Resource Efficiency Through Steam Distillation of Essential Oil from <i>Eucalyptus globulus</i> Residual Foliage <u>Ana C Jacinto</u>^{1,2}, Carolina Gonçalves², Pedro C Branco³, Alexandre Gaspar³, Paula CR Pinto³, Sónia AO Santos¹, Armando JD Silvestre¹ ¹CICECO – Aveiro Institute of Materials, Department of Chemistry, University of Aveiro, Aveiro, Portugal; ²CoLAB BIOREF – Collaborative Laboratory for Biorefineries, São Mamede de Infesta, Portugal; ³RAIZ – Forest and Paper Research Institute, Aveiro, Portugal. Presenting authors' email: aclarajacinto@ua.pt
022	Session VIC 1400-1530h	Upcycling agro-industrial resources for alternative protein production Carlos Ricardo Soccol, <u>Susan Grace Karp</u>, Giuliana Biagini, Gabriela dos Santos Costa, Amanda Bianca Aguiar, Vanete Thomaz Soccol Bioprocess Engineering and Biotechnology Department, Federal University of Paraná, Curitiba, Paraná, Brazil. Presenting authors' email: susan.karp@ufpr.br
023		Computational and Experimental Profiling of Spanish <i>Salvia rosmarinus</i> Essential Oils: Geographic Variation, Chemotypes, and Bioactivity <u>Carlos Seiti H. Shiraishi</u>^{1,2}, Bianca R Albuquerque¹, Irene Mediavilla³, Marina Sanz³, Virginie Xavier¹, Joana S Amaral¹, Tânia CSP Pires¹, Filipa Mandim¹, Pedro Pablo Pellín⁴, Jose Plaza⁵, Luis Saúl Esteban³, Lillian Barros² ¹CIMO, LA SusTEC, Instituto Politécnico de Bragança, Bragança, Portugal; ²Nutrition and Bromatology Group, Department of Analytical Chemistry and Food Science, Instituto de Agroecología e Alimentación

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024		Sustainable Bioprocessing of Passion Fruit Waste into Functional Additives for Biodiesel Oxidation Stabilization and Corrosion Inhibition Sukumar Purohit¹, <u>Vaibhav V Goud</u>^{2,3} ¹Amity Institute of Pharmacy, Amity University, Kolkata, India; ²School of Energy Science and Engineering, ³Department of Chemical Engineering, Indian Institute of Technology Guwahati, Assam, India. Presenting authors' email: vvgoud@iitg.ac.in
025		From onion peel to clean-label preservation: Quercetin-rich extract application in mayonnaise <u>Tatiane CG de Oliveira</u>^{1,2}, F Chamorro³, MA Prieto³, Filipa A Fernandes¹, Sandrina A Heleno¹, M Beatriz PP Oliveira², Eliana Pereira¹, Lillian Barros¹ ¹CIMO, LA SusTEC, Instituto Politécnico de Bragança, Bragança, Portugal; ²REQUIMTE/LAQV, Department of Chemical Sciences, Faculty of Pharmacy, University of Porto, Porto, Portugal; ³Universidade de Vigo, Nutrition and Food Group (NuFoG), Department of Analytical Chemistry and Food Science, Instituto de Agroecología e Alimentación (IAA) – CITEXVI, Vigo, Spain. Presenting authors' email: Tatiane.oliveira@ipb.pt
026		Honey processing for protein-based authenticity rapid testing Dimitrios Papakyriakou, Eleni Lamprou, <u>Despina P Kalogianni</u> Department of Chemistry, University of Patras, Patras, Greece. Presenting authors' email: kalogian@upatras.gr
027		Valorization of Waste Printed Circuit Board using Pyrolysis and Metal Extraction Bibari Boro, <u>Pankaj Tiwari</u> Department of Chemical Engineering, IIT Guwahati, Guwahati Assam, India. Presenting authors' email: Pankaj.tiwari@iitg.ac.in
028		Nutritional Characterisation and Antioxidant Activity of Snacks Developed from Agro-Industrial By-Products: Oat Bran, Strawberry By-Product Flour, and Blackberry Seed Extract <u>Bárbara Menezes</u>^{1,2,3}, Lillian Barros^{1,2}, Manuel Gómez², Alexandre Gonçalves^{1,3}, Eliana Pereira^{1,3} ¹CIMO, LA SusTEC, Instituto Politécnico de Bragança, Bragança, Portugal. ²Universidad de Valladolid (Uva), Departamento de Ingeniería Agrícola y Forestal, Escuela Técnica Superior de Ingenierías Agrarias, Palencia, España. ³MORE – Montanhas de Investigação – Associação Edifício Brigantia Ecopark, Bragança, Bragança, Portugal. Presenting authors' email: barbara.menezes@ipb.pt
029		Decoding weak Human Serum Albumin interactions using Aqueous Two-Phase Systems Nuno Martins Correia¹, João Carlos Marcos², Boris Yuri Zaslavsky³, José António Teixeira^{1,4}, <u>Nuno Ribeiro da Silva</u>^{1,4}

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030		Microbial recycling of poly(3-hydroxybutyrate) via nitric acid pretreatment and enzymatic hydrolysis – A circular concept for post-consumer bioplastics <u>Chrysanthi Argeiti</u> , Ioannis Marios Iliopoulos, Apostolis Koutinas Food Science and Human Nutrition Department, Agricultural University of Athens, Athens, Greece
031	Session VIIC 1600-1645h Presentation time for each presenter- 10 mins. Suggested maximum number of slides: 15	Decoupling the Roles of Oxygen-Containing Functional Groups and Aromatic Carbon Clusters on Pyrogenic Carbon for Electrochemical Dehalogenation Process Zibo Xu, <u>Daniel CW Tsang</u> Department of Civil and Environmental Engineering, The Hong Kong University of Science and Technology, Hong Kong, China
032		Modified Biochar as an Immobilization Carrier for Fungal Enzymes and Cells in Starch Hydrolysis and Thermoplastic Starch Biodegradation <u>Rena Konstantinou</u> ¹ , Maria Patsalou ¹ , Eleni Hadjikyprrianou ² , Anastasios Tasiopoulos ² , George Constantinides ³ , George Kelesides ⁴ , Constantinos Moularas ⁴ , Melita Menelaou ³ , Michalis Koutinas ¹ ¹ Department of Chemical Engineering, Cyprus University of Technology, Limassol, Cyprus; ² Department of Chemistry, University of Cyprus, Aglandjia, Nicosia, Cyprus; ³ Department of Mechanical Engineering and Materials Science and Engineering, Cyprus University of Technology, Limassol, Cyprus; ⁴ Department of Faculty of Aerospace Engineering, Delft University of Technology, Delft, Netherlands
033		A biomolecules crystallization framework for enhanced sustainability in biopharmaceuticals manufacturing Diana Machado ^{1,2} , Fathima Sidhik ^{1,2} , Zeyad Mahmoud ^{1,2} , Sergio Carretero Jiménez ⁵ , António Ferreira ^{3,4} , José António Teixeira ^{1,2} , <u>Filipa Castro</u> ^{1,2} ¹ Centre of Biological Engineering, University of Minho, Braga, Portugal; ² LABELLS - Associate Laboratory, Braga, Guimarães, Portugal; ³ LEPABE - Laboratory for Process Engineering, Environment, Biotechnology and Energy, ⁴ ALiCE - Associate Laboratory in Chemical Engineering, Faculty of Engineering, University of Porto, Porto, Portugal; ⁵ Secoya,-Technologies SR, Ottignies-Louvain-la-Neuve, Belgium
12th September 2026		
034	Session VIIC 0900-1010h Presentation time for each presenter- 10 mins. Suggested	Microbiome-Targeted Nutrition Integrating Functional Foods, Advanced In Vitro Models and Clinical Research Clarisse Nobre ^{1,2} ¹ CEB - Centre of Biological Engineering, University of Minho, Braga, Portugal; ² LABELLS – Associate Laboratory, Braga, Guimarães, Portugal

035	maximum number of slides: 15	Sustainable Extraction and Fractionation Strategies for the Recovery of Value-Added Ingredients from Algae Biomass <u>Cristina MR Rocha</u>^{1,2}, Joana S Gomes-Dias¹, Sara G Pereira¹, Marisa Cristo¹, Catarina Moreira¹, José A Teixeira^{1,2} ¹CEB - Centre of Biological Engineering, University of Minho, Braga, Portugal; ²LABBELS - Associate Laboratory, Braga, Portugal. Presenting authors' email: cmrocha@ceb.uminho.pt
036		Enzyme engineering for improving lactone production <u>Paulo César Silva</u>^{1,2}, Lucília Domingues^{1,2} ¹CEB – Centre of Biological Engineering, University of Minho, Braga, Portugal; ²LABBELS – Associate Laboratory, Guimarães, Braga, Portugal. Presenting authors' email: D14103@uminho.pt
037		Precision Immunodiagnostics and Computational Biotechnology for Early Alzheimer's Disease Detection Through AI-Guided Biomarker Discovery <u>Rafael Sanchez Loureiro</u>, Luiz Alberto Letti Junior, Vanete Thomaz Soccol, Carlos Ricardo Soccol Department of Engineering of Bioprocessing and Biotechnology, Federal University of Parana, Curitiba, Brazil