

Program

Monday, September 18							
Monday, September 18 Time							
MC Meeting	Daniela De Biase, Peter Lund	10:00 -12:00				MC Members only	
Registration for Open Meeting		12:00-13:00					
Session title	Chairs	Time	Speaker	Affiliation	Title		
Opening remarks EuroMicroPH Open Meeting							
		13:00-13:10	Daniela De Biase				
Molecular mechanisms underpinning acid stress responses in bacteria	Conor O'Byrne	13:10-13:40	Kirsten Jung	Ludwig-Maximilians-Universität München, Germany	The fine-tuned response of <i>Escherichia coli</i> to mild and severe acid stress		
		13:40-13:50	Peter Lund	University Birmingham, UK	Presentation of results of survey of all COST Action members		
Panel discussion	Daniela De Biase	13:50-14:30 Panel: Kirsten Jung, Peter Lund, Conor O'Byrne, Jana Sedlakova, Carmit Ziv					
		14:30-15:00					
Coffee Break							
Clinical applications of microbial responses to low pH	Nuno Mira	15:00-15:30	Stefano Pagliara	University of Essex, UK	Investigating the role of bacterial pH regulation in antibiotic resistance		
		15:30-16:00	James A Mason	King's College London, UK	NMR metabolomic studies to understand relationships between clinically relevant bacteria and pH and their functional impacts		
		16:00-16:15	Gizem Özlük	Hitit University, Çorum, Turkey	Effects of beverages taken with meal on some foodborne pathogens in simulated gastric fluid		
		16:15-16:30	João Alves	Institute of Science and Innovation for Bio-Sustainability (IB-S), University of Minho, Portugal	Exploring the Role of Specific Amino Acid Residues of CexA from <i>Aspergillus niger</i> on Citrate Transport		
Coffee Break							
Omic approaches to study microbial stress response	Carmit Ziv, Ott Scheler	17:00-17:30	Nicoletta Guaragnella	University of Bari, Italy	Acetic acid stress response in <i>Saccharomyces cerevisiae</i> : implications in fundamental and applied research.		
		17:30-18:00	Pirjo Spuul	Tallinn University of Technology, Estonia	The interplay between novel <i>Lactobacillus salivarius</i> and <i>Helicobacter pylori</i> .		
		18:00-18:15	Rozeta Hasalliu	Agricultural University of Tirana, Department of Food Science and Biotechnology, Albania	Identification of lactic acid bacteria from different traditional Albanian Yogurt with different pH		
		18:15-18:30	Merve Atasoy	Wageningen University and Research, Wageningen, The Netherlands	Designing and Optimizing Metabolic Networks and Microbial Communities for Butyric Acid Production Under Acidic Conditions		
Poster Flash presentations	Matthias Steiger	18:30-19:00	see flash poster list	reception with light food and drinks sponsored by Jungbunzlauer			
Poster Presentation Reception		19:00-20:30					
Tuesday, September 19							
Session title	Chairs	Time	Speaker	Affiliation	Title		
Biotechnological applications – exploitation of micro-organisms in low pH manufacturing processes	Jana Sedlakova, Zeynep Ceteocioglu	9:00-9:30	David Barrie Johnson	Bangor & Coventry Universities and the Natural History Museum, UK	How the unique physiologies of extreme acidophiles allow them to be exploited in extracting and recovering metals from mineral ores and electronic wastes		
		9:30-10:00	Mustafa Turker	Pak Gıda Üretim Pazarlama A.Ş., Türkiye	Fermentative Production of Propionic acid: Optimization and Process Intensification		
		10:00-10:15	Zeynep Agirbasli	Izmir Institute of Technology, Izmir, Türkiye	Bioutilization of Whey with Acid Tolerant Lactic Acid Bacteria from Artisanal Fermented Foods		
		10:15-10:30	Karen Trchounian	Department of Biochemistry, Yerevan State University, Armenia	Influence of acidic pH on the interaction between proton ATPase and enzymes responsible for molecular hydrogen generation		
Break							
Applications in food and drink manufacture and processing	Merve Atasoy	11:00-11:30	Lisa Gödtke	Jungbunzlauer Ladenburg GmbH, Germany	Case study: Preservation of pea protein meat alternative with lactic acid and lactate blends		
		11:30-11:45	Jean Costa	UCO, Córdoba, Spain	Impact of acidification and bacteriocin production on the antimicrobial effect of <i>Lactobacillus sakei</i> CTC494		
		11:45-12:00	Hayriye Sebnem Harsa	Izmir Institute of Technology, Türkiye	Acid Tolerant Lactic Acid Bacteria: A Promising Probiotic Starter Culture Candidate		
Break							
Opening Microbial Stress 2023	Stefan Pflügl	12:00-12:15	Aline Reinfurt	Austrian Centre of Industrial Biotechnology, Austria	Manganese and its regulatory role on the citrate exporter CexA – exploring the citric acid production mechanism of <i>Aspergillus niger</i>		
		13:30-13:40	Matthias Steiger	TU Wien, Austria	Opening remarks		
		13:40-14:00	Teuta Pilizota	University of Edinburgh, UK	Environmental conditions define the energetics of bacterial dormancy and its antibiotic susceptibility		
Microbial Stress Responses to low pH - From mechanisms to applications	Aricia Possas, Aleksandra Djukić-Vuković	14:00-14:30	Peter Lund	University Birmingham, UK	Transposon-directed insertion sequencing (TraDIS) can deepen our understanding of microbial stress responses		
		14:30-15:00	Conor P O'Byrne	University of Galway, Ireland	New insights into mechanisms of acid resistance in <i>Listeria monocytogenes</i> using comparative genomics.		
		15:00-15:15	Sofia R. Pauleta	Microbial Stress Lab, NOVA University Lisbon, Portugal	Effect of low pH in the denitrification pathway and nitrous oxide reductase from <i>Marinobacter hydrocarbonoclasticus</i>		
Break							
Understanding and exploiting the impacts of low pH on micro-organisms	Ricardo Santos	15:15-15:30	Aleksandra Djukić-Vuković	University of Belgrade, Serbia	Agri-food industry wastes as substrates for lactic acid production – overview of different strat		
		15:30-16:30					
		16:30-17:00	Hana Sychrova	Institute of Physiology of the Czech Academy of Sciences, Czech Republic	Transporters involved in yeast pH and cation homeostases		
		17:00-17:15	Immanuel Sanka	Tallinn University of Technology, Tallinn, Estonia;	Landscape of Expertise and Collaborative Opportunities from EuroMicroPH Network Dashboard		
		17:15-17:30	Athira Venugopal	The Hebrew University of Jerusalem Israel	The V-shaped structuring facilitates the biofilm developmental process during acid stress adaptation of <i>L. plantarum</i>		
		17:30-18:00	Daniela De Biase	Sapienza University of Rome, Italy	Low pH responses in micro-organism: sharing knowledge and community building		
End EuroMicroPH Open Meeting 18:00							

