

PROGRAM

Friday 6 December

10:30- 10:45		Opening Session
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10:45- 11:35	Chair: Isabel Sá-Correia	Sylvie Dequin (INRA, Montpellier, France) Comparative genomics as a tool for understanding evolution and improving wine yeasts traits S1 - Industrial and Food Microbiology and Biotechnology
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11:35- 12:25	Chair: Manuel Mota	Alfons Stams (Wageningen University, Netherlands) Key features of syntrophic methanogenic communities S2 - Environmental Microbiology and Biotechnology
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12:25- 12:55		The Horizon 2020 Program – Dr. Maria João Fernandes (FCT; FP7 National Contact Point)
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		Lunch
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		Session S1+S5
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14:00- 14:25		S1 - António Vicente (UM) - Applications of Nanotechnology in the agro-food sector
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14:25- 15:55	Oral Presentations		
	Effect of controlled atmosphere and storage temperature on the phenolics and carotenoids of pasteurized peach purées	Ana Oliveira	Universidade Católica Portuguesa-CBQF
	Population analysis of a pha producing bioreactor subjected to feedstock shifts	Anouk Duque	REQUIMTE/CQFB; IBET
	Production of bacterial cellulose membranes by Gluconacetobacter sacchari using industrial biomass residues and their potential application	Nuno Hélder Silva	CICECO, University of Aveiro
	Aqueous two-phase system in a microfluidic platform to accelerate bioprocess design and optimization of monoclonal antibodies	Daniel Camarneiro Silva	INESC Microsistemas e Nanotecnologias and IN-Institute of Nanoscience and Nanotechnology, Lisbon, Portugal
	Flash Presentations		

	Session S2+S7;		
14:00–14:25	S2 - David Smith (CABI, UK) – Microbial resource research infrastructure (MIRRI) facilitating improved pathways to discovery		
14:25–15:55	Oral Presentations		
	Enterobacteria carrying oxa-48-like genes isolated from non-human sources	Isabel Henriques	Biology Dep. and CESAM, University of Aveiro
	Sequenced mobile elements from submarine hydrothermal vents include simultaneously genetic determinants for heavy metal and antibiotic resistance	Christophe Espírito Santo	IMAR-CMA, 3004-517 Coimbra, Portugal
	Assessment of Quercus suber soil microbiome using DGGE fingerprints and barcoded pyrosequencing	Diogo Pinho	Genoinseq, Next Generation Sequencing Unit, Biocant
	Bacteria associated with marine Erylus sponges: their diversity and bioactivity	Olga Lage	FCUP
	Antibacterial and antifungal activity of a new solvent-cast film based on a functionalized elastin-like polymer	André da Costa	CBMA, Dept. Biology, University of Minho, Braga, Portugal
	Flash Presentations		

	Session S3+S6		
14:00–14:25	S3 - Marta A. Sousa (ESSCVP) - Methicillin-resistant <i>S. aureus</i> : a problem inside and outside Portuguese hospitals		
14:25–15:55	Oral Presentations		
	Massive dissemination of methicillin resistant Staphylococcus aureus in bloodstream infection in portugal: emrsa-15 establishment and diversification	Nuno Alexandre Faria	Instituto de Tecnologia Química e Biológica, Universidade Nova de Lisboa
	Hospital´s environmental microbial communities: a survey in two hospitals with different dimensions	Pedro Farias	Instituto Piaget-CIIERT, 1900-726 Lisboa, Portugal
	Leptospirosis in Angola: first isolates of Leptospira spp from rodents and serological survey among human suspected of malaria	Elsa Fortes-Gabriel	Instituto de Higiene e Medicina Tropical (IHMT), Universidade Nova de Lisboa (UNL), Lisboa
	Candida albicans CUG mistranslation is a mechanism to create cell surface variation	Isabel M. Miranda	Department of Microbiology, Faculty of Medicine University of Porto
	Flash Presentations		

15:55–17:30	Coffee break and Poster Session		
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17:30–18:20	Chair: Luísa Peixe	Craig Winstanley (University of Liverpool) <i>Pseudomonas aeruginosa</i> population dynamics during chronic lung infections. S3 - Health Microbiology and Biotechnology	
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18:20–19:20	General Assembly of SPM		
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18:50–19:20	General Assembly of SPBT		
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Saturday 7 December

9:00- 9h50	Chair: Isabel Sá Correia	Professor Nicolau van Uden Prize Cecília Leão (Universidade do Minho) Yeast dealing with stress in fermentative environments: revisiting physiological models in light of molecular biology S4 - Molecular Microbiology and Microbial Physiology
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10:00- 11:00	Coffee break and Poster Session
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Session S4+S7		
11:00- 11:25	S4 - Paula Ludovico (ICVS/UM) The yeast chronological aging stress response: proteotoxic stress and age-related dysfunctions	
11:25- 12:55	Oral Presentations	
	ROS-mediated links between primary and secondary metabolism in Streptomyces: the example of pimarin production in Streptomyces natalensis atcc 27448	Marta Mendes IBMC - FCUP, Porto, Portugal.
	Phageduction: a new technology for cell-targeted DNA delivery	Carlos San-José Faculdade de Farmácia da Universidade de Lisboa, DMI, CPM-URIA
	The major facilitator superfamily multidrug resistance transporters (mfs-mdr) in hemiascomycetous yeasts: phylogenetic and syntenic analyses	Paulo Jorge Dias IBB - Instituto Superior Técnico, Universidade de Lisboa
	Development of a minicircle production system based on para resolvase-mediated in vivo recombination	Michaela Simcikova IST-IBB
Flash Presentations		

Session S2+S5; chairs:		
11:00- 11:25	S5 - Margarida Diogo (IST) Integrated Platform for Production and Purification of Human Pluripotent Stem Cell-Derived Neural Precursors	
11:25- 12:55	Oral Presentations	
	Bacterial sensing of key environmental parameters: structural and functional characterization of chemotaxis sensor proteins from g. Sulfurreducens	Marta A. Silva Requimte-CQFB, FCT-UNLPortugal
	Cyanobacterial diversity in microbial mats from one of the largest hypersaline coastal lagoons complex: an in-depth polyphasic approach	Vitor Ramos CIIMAR/CIMAR -University of Porto, Portugal
	Natural hotspots for multiple resistances gain: arsenic resistance in heterotrophic aerobic bacteria from marine hydrothermal vents	Paula V. Morais IMAR-CMA, University of Coimbra, Portugal
	Purification of human papillomavirus16 e6/e7 plasmid DNA-based vaccine using an arginine modified monolithic support	Ângela Sousa CICS-UBI -Covilhã, Portugal
Flash Presentations		

	COST Session chair: José Teixeira		
11:00-11:25	Cost action session - EP4Bio2Med funded by COST Action TD1104 Giovanna Ferrari (Univ Salerno, Italy) Potential Applications of Pulsed Electric Field Technology in Biotechnology		
11:25-12:55	Oral Presentations		
	Fundamentals of microbial inactivation by pulsed electric fields	J. Raso,	University of Zaragoza, Spain
	Liberation of water-soluble proteins from yeast by pulsed electric field treatment	V. Ganeva	University of Sofia, Bulgaria
	Pulsed electric field assisted extraction of biologically active constituents from fresh blueberries	S. Šatkauskas	Vytautas Magnus University, Lithuania
	Electrically assisted extraction of polyphenols: application of pulsed electric fields and high voltage electrical discharges	N. Boussetta	UTC, France
	Production of whey protein hydrogels through application of electric fields	R. Pereira	University of Minho, Portugal
	Electroinduced release of recombinant laccase from <i>Saccharomyces cerevisiae</i> based on cell electropermeabilization	B. Galutzov	University of Sofia, Bulgaria

Lunch		
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14:30-15:20	Chair: Raquel Aires Barros	Alois Jungbauer (Univ of Natural Resources and Life Sciences, Vienna, Austria) Continuous downstream processing, a challenge for the biochemical engineer S5 - Bioprocess engineering
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	Session S1+S3		
15:30-15:55	S6 - Jorge Leitão (IST) Post-transcription regulation in bacterial pathogenesis: roles played by RNA chaperones and sRNAs		
15:55-18:25	Oral Presentations		
	The genome sequence of the food spoilage yeast <i>Zygosaccharomyces bailii</i> isa1307	Nuno P Mira	IBB- Instituto Superior Técnico, Universidade de Lisboa, Lisbon, Portugal
	Investigating candidate factors influencing bovine spongiform encephalopathy	Thomas Kennedy	Department of Agriculture, Food and the Marine
	Coffee break and Poster sessions		
	The impact of fungal infections on processing and quality of beer	Pedro M. Oliveira	School of Food and Nutritional Sciences, University College Cork, Ireland
Plasmid DNA based carriers for improved cancer therapy	Diana Costa	Health Sciences Research Centre, CICS, University of Beira Interior, Covilhã, Portugal	
	Flash Presentations		

	Session S4+S6;		
15:30-15:55	S7 - Manuel Santos (DBUA) Fungal statistical proteomes: can they shake current concepts of the gene?		
15:55-18:25	Oral Presentations		
	Phosphoproteome analysis to unravel the role of the ceramide-activated protein phosphatase sit4p in mitochondrial function and lifespan in yeast	Pereira C	IBMC, Universidade do Porto, Portugal.
	Functioning, regulation and genetics of an esat-6-like secretion system in Bacillus subtilis	Catarina Baptista	Faculdade de Farmácia da Universidade de Lisboa, DMI, CPM-URIA
	Coffee break and Poster sessions		
	SATP, a succinate-acetate transporter protein in Escherichia coli	Margarida Casal	CBMA, Dep. de Biologia, Universidade do Minho, Braga
	Staphylococcus epidermidis biofilm lifecycle and its virulence: from planktonic growth, to biofilm structure and systemic dissemination	Angela França	University of Minho
	Flash Presentations		

	Session S3+S8; chairs:		
15:30-15:55	S8 - Jorge Saraiva (DQUA) High pressure technology: 20 years of increasingly food commercial successes and future food and biotechnological potential applications		
15:55-18:25	Oral Presentations		
	High prevalence of nosocomial MRSA carriage in Luanda, Angola	Teresa Conceição	ITQB, UNL, Oeiras, Portugal
	Bypassing the need for reporter genes	Filipa Rosa	Fac. of Engineering, Catholic University of Portugal
	Unveiling 5-flucytosine resistance mechanisms in yeast, using chemogenomics and membrane proteomics approaches	Miguel Teixeira	IBB - IST, Universidade de Lisboa
	Coffee break and Poster sessions		
	A new process for the recovery and concentration of bisphenol a from human fluids	Helena Passos	Chemistry Department, CICECO, University of Aveiro, Portugal
Delivery of DNA biopharmaceuticals by non-viral nanoparticulated carriers	Vitor Gaspar	CICS-UBI - Health Sciences Research Centre, Universidade da Beira Interior	
	Flash Presentations		

18:40-19:30	Chair: Jorge Pedrosa	Maria Mota (Fac Medicina, Univ Lisboa, Portugal) Studying malaria infections: Understanding to intervene S6 - Cellular Microbiology and Pathogenesis
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20:30-23:00	Congress diner	
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Sunday 8 December

9:00– 9:50	Chair: Hermínia de Lencastre	Edward Feil (University of Bath, UK) An overview of transmission patterns and population structure of <i>Staphylococcus aureus</i> inferred from next-generation sequencing S7 – Genomics and Systems Biology
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Session S1+S8; chairs:

11:00– 11:25	S1 - Gustavo Goldman (USP, Brasil) Signal transduction mechanisms for cellulase production and glucose sensing in filamentous fungi
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Oral Presentations		
11:25– 11:55	Optimising the production of a silk-elastin-like protein in <i>E. coli</i> : overcoming acetate accumulation and plasmid instability.	Tony Collins CBMA, Dep. of Biology, University of Minho, Braga, Portugal
	Carbohydrate-driven porphyrinoids to induce cell demise by photodynamic therapy	Patrícia Pereira QOPNA and Dep. of Chemistry, University of Aveiro, Portugal

Session S2+S4

11:00– 11:25	S2 - Isabel Gordo (IGC) Pathoadaptation of <i>Escherichia coli</i> to Macrophages
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Oral Presentations		
11:25– 11:55	Fungal activity in untreated surface water: mycotoxins production and estrogenic activity	Beatriz R. Oliveira IBET - ITQB
	Toxicity of sugar phosphates in a <i>Bacillus subtilis</i> strain defective in arar	Lia Marques Godinho CREM, FCT-UNL, Monte de Caparica, Portugal

Session S3+S5

11:00– 11:25	S3 - Paula Teixeira (ESB, Porto) Listeriosis in Portugal: from retrospective studies to the detection of the first confirmed human outbreak
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Oral Presentations		
11:25– 11:55	Low prevalence of <i>Streptococcus pneumoniae</i> carriage among the elderly in Portugal	Sónia T. Almeida ITQB, UNL, Oeiras, Portugal
	Purification of pharmaceutical grade plasmid DNA by hic membrane chromatography – impact of plasmid size and process throughput	Luis Raiado-Pereira IBB / IST, Lisboa, Portugal

12:00– 12h50	Chair: José Teixeira	Henk Haagsman (University of Utrecht, Netherlands) Cultured Meat S8 – Emergent technologies
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13:00– 13h15	Awards ceremony Closing session
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