

Micro Biotec '13

PORTUGUESE CONGRESS OF
MICROBIOLOGY AND BIOTECHNOLOGY

6th - 8th December | Aveiro Portugal

Congress Programme

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WELCOME ADDRESS

It is a great pleasure and privilege to welcome you to Aveiro and to the Portuguese Congress of Microbiology and Biotechnology (MicroBiotec'13).

This congress is an initiative of the Portuguese Society for Microbiology and the Portuguese Society for Biotechnology and is being hosted by the University of Aveiro for the first time.

The programme provides a unique opportunity for debate, discussion and the exchange of fresh ideas and information in the fields covered.

We are pleased to offer you an excellent scientific programme, with stimulating lectures with the involvement of international and national experts.

In addition, your contributions, that are highly welcomed, are presented in oral sessions or poster exhibitions that undoubtedly increase the knowledge of the latest scientific developments in the scientific domains covered by the congress.

We hope that it will be an enjoyable event that will provide an opportunity for delegates to discuss and share knowledge, ideas and expertise with colleagues and peers.

We wish you a fruitful meeting and a pleasant stay in Aveiro!

On behalf of the organizing committee,

António Correia & Manuel António Coimbra

MENSAGEM DE BOAS VINDAS

É um grande prazer e privilégio dar-lhes as boas vindas a Aveiro e ao Congresso Português de Microbiologia e Biotecnologia (MicroBiotec'13).

Este congresso é uma iniciativa da Sociedade Portuguesa de Microbiologia e da Sociedade Portuguesa de Biotecnologia e é organizado pela primeira vez pela Universidade de Aveiro.

O programa oferece uma oportunidade única para o debate, a discussão e a troca de ideias e informações inovadoras nos domínios abrangidos.

O excelente programa científico conta com a participação e com palestras proferidas por especialistas nacionais e estrangeiros.

Para além disso, as contribuições de todos os participantes foram muito bem-vindas sendo apresentadas em sessões orais ou na exposição de painéis que, sem dúvida, aumentam o conhecimento sobre os últimos desenvolvimentos científicos nos domínios do congresso.

Esperamos que seja um evento agradável e que proporcione uma oportunidade para discussão e partilha de conhecimentos, ideias e experiências com colegas e pares.

Desejamos-lhes uma reunião proveitosa e uma agradável estadia em Aveiro!

Em nome da comissão organizadora,

António Correia & Manuel António Coimbra

SCIENTIFIC PROGRAM

December 6th

- 09:00–10:30 **Registration**
- 10:30–10:45 Auditorium
Opening Cerimony
- 10:45–11:35 **Plenary Lecture**
S1: Industrial and Food Microbiology and Biotechnology
Sylvie Dequin
(INRA, Montpellier, France)
Comparative genomics as a tool for understanding evolution
and improving wine yeasts traits
- 11:35–12:25 **Plenary Lecture**
S2: Environmental Microbiology and Biotechnology
Alfons Stams
(Wageningen University, Netherlands)
Key features of syntrophic methanogenic communities
- 12:25–12:55 The Horizon 2020 Program – Dr. Maria João Fernandes (FCT;
FP7 National Contact Point)
- 12:30–14:00 **Lunch**
- 14:00–14:25 Auditorium
KL António Vicente
Universidade do Minho
Applications of nanotechnology in the agro–food sector

Lecture Hall 1

KL David Smith
CABI, UK

Microbial resource research infrastructure (MIRRI) facilitating improved pathways to discovery

Lecture Hall 2

KL Marta A. Sousa
ESSCVP

Methicillin-resistant *S. aureus*: a problem inside and outside Portuguese hospitals

14:25–15:25

Auditorium

OP Ana Oliveira

ESB, CBQF, Universidade Católica Portuguesa

Effect of controlled atmosphere and storage temperature on the phenolics and carotenoids of pasteurized peach purées

Lecture Hall 1

OP Christophe Espírito Santo
IMAR, CMA, Universidade de Lisboa

Sequenced mobile elements from submarine hydrothermal vents include simultaneously genetic determinants for heavy metal and antibiotic resistance

Lecture Hall 2

OP Elsa Fortes-Gabriel
IHMT, Universidade Nova de Lisboa

Leptospirosis in Angola: first isolates of *Leptospira* spp. from rodents and serological survey among human suspected of malaria

Auditorium

OP Anouk Duque
REQUIMTE/CQFB; IBET

Population analysis of a pha producing bioreactor subjected to feedstock shifts

Lecture Hall 1

OP Diogo Pinho

Genoinseq, Next Generation Sequencing Unit, Biocant

Assessment of *Quercus suber* soil microbiome using DGGE fingerprints and barcoded pyrosequencing

Lecture Hall 2

OP Nuno Faria

ITQB, Universidade Nova de Lisboa

Massive dissemination of methicillin resistant *Staphylococcus aureus* in bloodstream infection in Portugal: emrsa-15 establishment and diversification

Auditorium

OP Nuno Silva

CICECO, Universidade de Aveiro

Production of bacterial cellulose membranes by *Gluconacetobacter sacchari* using industrial biomass residues and their potential application

Lecture Hall 1

OP Isabel Henriques

CESAM, Universidade de Aveiro

Enterobacteria carrying oxa-48-like genes isolated from non-human sources

Lecture Hall 2

OP Pedro Farias

Instituto Piaget, CIERT, Lisboa

Hospital's environmental microbial communities: a survey in two hospitals with different dimensions

Auditorium

OP Daniel Camarneiro Silva

INESC, Microsistemas e Nanotecnologias and IN-Institute of Nanoscience and Nanotechnology, Lisboa

Aqueous two-phase system in a microfluidic platform to accelerate bioprocess design and optimization of monoclonal antibodies

Lecture Hall 1

OP Olga Lage

FC, Universidade do Porto

Bacteria associated with marine erylus sponges: their diversity and bioactivity

Lecture Hall 2

OP Isabel Miranda

FM, Universidade do Porto

Candida albicans CUG mistranslation is a mechanism to create cell surface variation

15:25–15:40

Auditorium

Flash oral presentations

Lecture Hall 1

OP André Costa

CMEB, Universidade do Minho

Antibacterial and antifungal activity of a new solvent-cast film based on a functionalized elastin-like polymer

Lecture Hall 2

Flash oral presentations

15:40–15:50

Auditorium

Flash oral presentations

Lecture Hall 1

Flash oral presentations

Lecture Hall 2

Flash oral presentations

- 15:50–15:55 Lecture Hall 1
Flash oral presentation
- 15:55–17:30 **Coffee break and Poster Session S1 and S8**
- 17:30–18:20 Auditorium
Plenary Lecture
S3: Health Microbiology and Biotechnology
Craig Winstanley
University of Liverpool, UK
Pseudomonas aeruginosa population dynamics during chronic lung infections
- 18:20–19:20 Lecture Hall 1
General Assembly SPM
- 18:20–19:20 Lecture Hall 2
General Assembly SPBT

December 7th

- 09:00–09:50 Auditorium
Plenary Lecture
S4: Molecular Microbiology and Microbial Physiology
Professor Nicolau van Uden Award – Cecília Leão
Universidade do Minho
Yeast dealing with stress in fermentative environments: revisiting physiological models in light of molecular biology
- 10:00–11:00 **Coffee break and Poster Session S2 and S6**

11:00–11:25

Auditorium

KL Paula Ludovico
Universidade do Minho

Yeast chronological aging stress response: proteotoxic stress and age-related dysfunctions

Lecture Hall 1

KL Margarida Diogo
IST, Universidade de Lisboa

Integrated platform for production and purification of human pluripotent stem cell-derived neural precursors

Lecture Hall 2

Cost action session – EP4Bio2Med, funded by COST Action TD1104

KL Giovanna Ferrari
University of Salerno, Italy

Potential Applications of Pulsed Electric Field Technology in Biotechnology

11:25–11:40

Auditorium

OP Marta Mendes
IBMC, FC, Universidade do Porto

Ros-mediated links between primary and secondary metabolism in streptomyces: the example of pimaricin production in *Streptomyces natalensis* ATCC 27448

Lecture Hall 1

OP Ângela Sousa
CICS, Universidade da Beira Interior

Purification of human papillomavirus16 e6/e7 plasmid DNA-based vaccine using an arginine modified monolithic support

Lecture Hall 2

Cost action session – EP4Bio2Med, funded by COST Action TD1104

OP J. Raso

University of Zaragoza, Spain

Fundamentals of microbial inactivation by pulsed electric fields

11:40–11:55

Auditorium

OP Carlos São-José

FF, DMI, CPM–URIA, Universidade de Lisboa,

Phageduction: a new technology for cell–targeted DNA delivery

Lecture Hall 1

OP Marta Silva

Requimte–CQFB, FCT, Universidade Nova de Lisboa

Bacterial sensing of key environmental parameters: structural and functional characterization of chemotaxis sensor proteins from *G. sulfurreducens*

Lecture Hall 2

OP V. Ganeva

University of Sofia, Bulgaria

Liberation of water–soluble proteins from yeast by pulsed electric field treatment.

11:55–12:10

Auditorium

OP Michaela Simcikova

IBB, IST, Universidade de Lisboa

Development of a minicircle production system based on para resolvase–mediated *in vivo* recombination

Lecture Hall 1

OP Paula Morais

FCT, IMAR–CMA, Universidade de Coimbra

Natural hotspots for multiple resistances gain: arsenic resistance in heterotrophic aerobic bacteria from marine hydrothermal vents

Lecture Hall 2

Cost action session – EP4Bio2Med, funded by COST Action TD1104

OP S. Satkauskas

Vytautas Magnus University, Lithuania

Pulsed electric field assisted extraction of biologically active constituents from fresh blueberries

12:10–12:25

Auditorium

OP Paulo Jorge Dias

IBB, IST, Universidade de Lisboa

The major facilitator superfamily multidrug resistance transporters (mfs–mdr) in hemiascomycetous yeasts: phylogenetic and syntenic analyses

Lecture Hall 1

OP Vítor Ramos

FC, Universidade do Porto

Cyanobacterial diversity in microbial mats from one of the largest hypersaline coastal lagoons complex: an in–depth polyphasic approach

Lecture Hall 2

Cost action session – EP4Bio2Med, funded by COST Action TD1104

OP Nadia Boussetta

UTC, France

Electrically assisted extraction of polyphenols: application of pulsed electric fields and high voltage electrical discharges

12:25–12:40

Auditorium

Flash oral presentations

Lecture Hall 1

Flash oral presentations

Lecture Hall 2

Cost action session – EP4Bio2Med, funded by COST Action TD1104

OP Ricardo Pereira

Universidade de Minho

Production of whey protein hydrogels through application of electric fields

12:40–12:50

Auditorium

Flash oral presentations

Lecture Hall 1

Flash oral presentations

Lecture Hall 2

Cost action session – EP4Bio2Med, funded by COST Action TD1104

Flash oral presentation

B. Galutzov

University of Sofia, Bulgaria

General Discussion

13:00–14:30

Lunch

14:30–15:20

Auditorium

Plenary Lecture

S5: Bioprocess engineering

Alois Jungbauer

Univ of Natural Resources and Life Sciences, Vienna, Austria

Continuous downstream processing, a challenge for the biochemical engineer

15:30–15:55

Auditorium

KL Jorge Leitão

IST, Universidade de Lisboa

Post-transcription regulation in bacterial pathogenesis: roles played by RNA chaperones and sRNAs

Lecture Hall 1

KL Manuel Santos

Universidade de Aveiro

Fungal statistical proteomes: can they shake current concepts of the gene?

Lecture Hall 2

KL Jorge Saraiva

Universidade de Aveiro

High pressure technology: 20 years of increasingly food commercial successes and future food and biotechnological potential applications

15:55–16:25

Auditorium

OP Diana Costa

HSRC, CICS, Universidade da Beira Interior

Plasmid DNA based carriers for improved cancer therapy

OP Nuno Mira

IBB, IST, Universidade de Lisboa

The genome sequence of the food spoilage yeast *zygosaccharomyces bailii* isa1307

Lecture Hall 1

OP Catarina Batista

DMI, CPM-URIA, FF, Universidade de Lisboa

Functioning, regulation and genetics of an esat-6-like secretion system in *Bacillus subtilis*

OP Clara Pereira

IBMC, Universidade do Porto

Phosphoproteome analysis to unravel the role of the ceramide-activated protein phosphatase sit4p in mitochondrial function and lifespan in yeast

Lecture Hall 2

OP Vitor Gaspar

CICS, HSRC, Universidade da Beira Interior

Delivery of DNA biopharmaceuticals by non-viral nanoparticulated carriers

OP Filipa Rosa

FE, Universidade Católica Portuguesa

Bypassing the need for reporter genes

16:25–17:25

Coffee break and Poster Session S3 and S5

17:25–17:55

Auditorium

OP Pedro Oliveira

SFSN, University College Cork, Ireland

The impact of fungal infections on processing and quality of beer

OP Thomas Kennedy

Department of Agriculture, Food and the Marine, Ireland

Investigating candidate factors influencing bovine spongiform encephalopathy

Lecture Hall 1

OP Ângela França

Universidade do Minho

Staphylococcus epidermidis biofilm lifecycle and its virulence: from planktonic growth, to biofilm structure and systemic dissemination

OP Margarida Casal

CBMA, Universidade do Minho

Satp, a succinate-acetate transporter protein in *Escherichia coli*

Lecture Hall 2

OP Teresa Conceição

LMG, ITQB, Universidade Nova de Lisboa

High prevalence of nosocomial MRSA carriage in Luanda, Angola

OP Miguel Cacho Teixeira

IBB, IST, Universidade de Lisboa

Unveiling 5-flucytosine resistance mechanisms in yeast, using chemogenomics and membrane proteomics approaches

17:55–18:05

Auditorium

Flash oral presentations

Lecture Hall 1

Flash oral presentations

Lecture Hall 2

OP Helena Passos

DQ, CICECO, Universidade de Aveiro

A new process for the recovery and concentration of bisphenol a from human fluids

18:05–18:20

Auditorium

Flash oral presentations

Lecture Hall 1

Flash oral presentations

Lecture Hall 2

Flash oral presentations

8:30–19:20

Auditorium

Plenary Lecture

S6: Cellular Microbiology and Pathogenesis

Maria Mota

FM, Universidade de Lisboa

Studying malaria infections: understanding to intervene

20:30–23:00

Congress dinner

December 8th

09:00–09:50

Auditorium

Plenary Lecture

S7: Genomics and Systems Biology

Edward Feil

University of Bath, UK

An overview of transmission patterns and population structure of *Staphylococcus aureus* inferred from next-generation sequencing

10:00–11:00

Coffee break and Poster Session S4 and S7

11:00–11:25

Auditorium

KL Gustavo Goldman

USP, S. Paulo, Brazil

Signal transduction mechanisms for cellulase production and glucose sensing in filamentous fungi

Lecture Hall 1

KL Isabel Gordo

Instituto Gulbenkian de Ciência

Pathoadaptation of *Escherichia coli* to macrophages

Lecture Hall 2

KL Paula Teixeira

ESB, Universidade de Porto

Listeriosis in Portugal: from retrospective studies to the detection of the first confirmed human outbreak

11:25–11:55

Auditorium

OP Tony Collins

CMEB, DB, Universidade do Minho

Optimising the production of a silk–elastin–like protein in *E. coli*: overcoming acetate accumulation and plasmid instability

OP Patrícia Pereira

QOPNA, DQ Universidade de Aveiro, LPET, IBILI, FM, Universidade de Coimbra

Carbohydrate–driven porphyrinoids to induce cell demise by photodynamic therapy

Lecture Hall 1

OP Lia Godinho

CRM, FCT, Universidade Nova de Lisboa

Toxicity of sugar phosphates in a *Bacillus subtilis* strain defective in *araR*

OP Beatriz Oliveira

IBET

Fungal activity in untreated surface water: mycotoxins production and estrogenic activity

Lecture Hall 2

OP Sónia Almeida

LMMHP, ITQB, Universidade Nova de Lisboa

Low prevalence of *Streptococcus pneumoniae* carriage among the elderly in Portugal

OP Luís Raiado-Pereira
IBB, IST, Universidade de Lisboa

Purification of pharmaceutical grade plasmid DNA by high
membrane chromatography – impact of plasmid size and
process throughput

12:00–12:50

Auditorium

Plenary Lecture

S8: Emergent technologies

Henk Haagsman

University of Utrecht, Netherlands

Cultured Meat

12:50–13:00

Closing ceremony

Poster Sessions

Session 1: Industrial and Food Microbiology and Biotechnology

Biocatalysis & Biotransformation

- P001** ELECTRICALLY ASSISTED EXTRACTION OF POLYPHENOLS: APPLICATION OF PULSED ELECTRIC FIELDS AND HIGH VOLTAGE ELECTRICAL DISCHARGES
Nadia Boussetta
University of Technology of Compiègne
- P002** ENHANCEMENT OF CASTOR OIL BIOTRANSFORMATION INTO AROMA BY *YARROWIA LIPOLYTICA* MUTANTS
Isabel Belo
IBB-Institute for Biotechnology and Bioengineering, Centre of Biological Engineering, University of Minho
- P003** OPTIMIZATION OF SALTS ADDITION FOR XYLITOL PRODUCTION BY *DEBARYOMYCESS HANSENI* AND FURTHER SCALE-UP TO A 50-L BIOREACTOR
José Manuel Domínguez González
Vigo University
- P004** POTENTIAL OF VINE-TRIMMING WASTES AS IMMOBILIZATION CARRIER FOR SOLID-STATE FERMENTATION TO INCREASE THE BIOTRANSFORMATION OF FERULIC ACID TO VANILLIN
José Manuel Domínguez González
Vigo University
- P005** USE OF BACTERIAL CELLULOSE AS A NOVEL CARRIER FOR IMMOBILIZATION OF COMMERCIAL LACCASE
Cláudio J. R. Frazão
CICECO, University of Aveiro
- P006** TOWARDS A RATIONAL APPROACH FOR ENZYME IMMOBILIZATION IN A MICROREACTOR FRAMEWORK
Filipe Daniel Ramos Carvalho
Institute of Biotechnology and Bioengineering, Centre for Biological and Chemical Engineering, Department of Bioengineering, Instituto Superior Técnico, Universidade de Lisboa

Food Microbiology & Biotechnology

- P007** A MICROBIOLOGICAL ASSESSMENT SCHEME TO EVALUATE THE FEED SAFETY MANAGEMENT SYSTEM IN A CATEGORY 3 FAT MELTING ESTABLISHMENT
Thomas Kennedy
Department of Agriculture, Food and the Marine
- P008** AEROMONAS BIOFILM-FORMATION ON STAINLESS STEEL COUPONS
Teresa Semedo-Lemsaddek
Centro de Investigação Interdisciplinar em Sanidade Animal, Faculdade de Medicina Veterinária, Universidade de Lisboa

- P009** ALTERNATIVE METHODS FOR DETECTION OF *SALMONELLA* SPP. AND *LISTERIA MONOCYTOGENES*
Ivonne Delgadillo
University of Aveiro
- P010** ANTIBACTERIAL ACTIVITY OF DIFFERENT WATER BASED SEAWEEDS EXTRACTS AGAINST HUMAN PATHOGENIC BACTERIA
Ana M. P. Gomes
Department of Chemistry & CESAM, University of Aveiro
- P011** ANTIBIOFILM PROPERTIES OF *QUERCUS ILEX* ACORN EXTRACTS AGAINST MRSA AND MSSA
Sara Silva
CBQF- Centro de Biotecnologia e Química Fina - Laboratório Associado, Escola Superior de Biotecnologia, Universidade Católica Portuguesa
- P012** ANTIMICROBIAL ACTIVITY OF ESSENTIAL OILS FROM *MELALEUCA ARMILLARIS*
Cristina M. B. S. Pintado
Escola Superior Agrária, Instituto Politécnico de Castelo Branco
- P013** ANTIMICROBIAL ACTIVITY OF PROPOLIS NANOPARTICLES AGAINST SOME COMMON MEAT CONTAMINATION BACTERIA
António Augusto Vicente
University of Minho
- P014** ANTIMICROBIAL EFFECT OF SELECTED ESSENTIAL OILS ON *SALMOMELLA* SPP. ISOLATED FROM TRADITIONAL MEAT PRODUCTS ESTABLISMENTS
Luís Patarata
Centre of Studies in Animal and Veterinary Science (CECAV). University of Trás-os-Montes and Alto Douro
- P015** APPLICATION OF A LAB ANTIFUNGAL HURDLE BIOTECHNOLOGY IN THE MALTING PROCESS
Pedro M. Oliveira
School of Food and Nutritional Sciences, University College Cork, Ireland
- P016** BACTERIAL DIVERSITY AND PROBIOTIC ACTIVITY IN SOLE AQUACULTURE
Célia M. Manaia
CBQF - Centro de Biotecnologia e Química Fina - Laboratório Associado, Escola Superior de Biotecnologia, Universidade Católica Portuguesa
- P017** BIOAVAILABILITY OF PHENOLIC COMPOUNDS FROM BLUEBERRY LEAF INFUSIONS (*VACCINIUM CORYMBOSUM* L.) IN CACO-2 CELLS
Sara Silva
CBQF- Centro de Biotecnologia e Química Fina - Laboratório Associado, Escola Superior de Biotecnologia, Universidade Católica Portuguesa
- P018** CHITOOLOGOSACCHARIDES MODIFIED BY MAILLARD REACTION WITH GLUCOSE INHIBIT ADHESION OF ENTEROPATHOGENIC BACTERIA TO MUCIN
B. Gullón
Centro de Biotecnologia e Química Fina - Laboratório Associado, Escola Superior de Biotecnologia, Universidade Católica Portuguesa
- P019** CHITOSAN BASED FILMS ENRICHED IN GRAPE EXTRACTS WITH ANTIMICROBIAL AND ANTIOXIDANT PROPERTIES
Cláudia Nunes
QOPNA, Departamento de Química, Universidade de Aveiro

- P020** CHITOSAN BASED FILMS STABLE IN ACIDIC MEDIA WITH ANTIOXIDANT AND ANTI-YEAST ACTIVITIES
Élia Maricato
QOPNA, Departamento de Química, Universidade Aveiro
- P021** COMBINED EFFECT OF PROBIOTIC LACTOBACILLUS SAKEI AND GARLIC ESSENTIAL OIL ON THE BEHAVIOR OF *SALMONELLA* SPP. DURING CHOURIÇO MANUFACTURING
L. Patarata
Centre of Studies in Animal and Veterinary Science (CECAV), University of Trás-os-Montes and Alto Douro
- P022** COMPARATIVE ANALYSES OF CULTURE-DEPENDENT AND METAGENOMIC APPROACHES FOR THE CHARACTERIZATION OF THE YEAST MICROBIOME FROM FRUIT AND VEGETABLE WASTES
Filipa Gonçalves
CBMA (Centre of Molecular and Environmental Biology), Dept. Biology, University of Minho
- P023** EFFECT OF DRYING AND FREEZING PRE-TREATMENT UPON SOUR CHERRY (*PRUNUS CERASUS*) BIOACTIVE COMPOUNDS
Eduardo Costa
Escola Superior de Biotecnologia da Universidade Católica Portuguesa
- P024** EFFECT OF EDIBLE COATINGS ON COLOUR AND POLYPHENOL OXIDASE ACTIVITY OF APPLE CUBES DURING COLD STORAGE
Maria Miranda Bernardo de Moraes
KaHo St.-Lieven
- P025** EFFECT OF HIGH PRESSURE ON YOGURT PRODUCTION AND THE POSSIBILITY OF USING PRESSURE AS AN ON/OFF SWITCH TO STOP/RESTART FERMENTATION
Rita Lopes
Universidade de Aveiro
- P026** EFFECT OF PRESSURIZATION RATE, TEMPERATURE AND PH ON THE EFFICIENCY OF INACTIVATION OF *LISTERIA INNOCUA* BY HIGH PRESSURE
Angela Cunha
Department of Biology and CESAM, University of Aveiro,
- P027** EFFECT OF PROCESSING AND STORAGE ON NUTRITIONAL AND FUNCTIONAL QUALITY OF STRAWBERRY
Maria João Loureiro do Valle Pereira
CBQF/Universidade Católica Portuguesa
- P028** EFFECT OF REGULATED DEFICIT IRRIGATION ON THE PHYTOCHEMICAL PROFILE AND ANTIOXIDANT ACTIVITY OF JAPANESE PLUMS
Flávia Fernandes
Cebal - Centro de Biotecnologia Agrícola e Agro-Alimentar do Alentejo
- P029** EFFECT OF STORAGE CONDITIONS IN THE QUALITY OF THE BEE POLLEN
Leticia M. Estevinho
CIMO-Mountain Research Center, Department of Biology and Biotechnology, Agricultural College of Bragança, Polytechnic Institute of Bragança
- P030** EFFECT OF TEMPERATURE ON THE BIOACTIVE PROPERTIES OF BEE POLLEN
A.Pascoal
CIMO-Mountain Research Center, Department of Biology and Biotechnology, Agricultural College of Bragança, Polytechnic Institute of Bragança

- P031** EFFECT OF THE TEMPERATURE IN THE HONEY QUALITY
A.Pascoal
CIMO–Mountain Research Center. Department of Biology and Biotechnology, Agricultural College of Bragança, Polytechnic Institute of Bragança
- P032** EFFECTS OF HYDROGEN PEROXIDE ON PERSISTENT AND NON–PERSISTENT STRAINS OF *LISTERIA MONOCYTOGENES* RECOVERED FROM CHEESE PROCESSING PLANTS
Rui Magalhães
ESB –CBQF
- P033** ENUMERATION OF COAGULASE–POSITIVE *STAPHYLOCOCCI* DURING RIPENING OF CHEESE MADE WITH RAW MILK FROM SHEEP
Cristina M. B. S. Pintado
Escola Superior Agrária. Instituto Politécnico de Castelo Branco
- P034** EVALUATION OF THE SAFETY PROPERTIES OF BACTERIOCINOGENIC *LACTOBACILLUS SAKEI* SUBSP. SAKEI 2A
Susana Caldas Fonseca
Universidade de São Paulo
- P035** EVALUATION OF THE SENSORY QUALITY OF MONOFLORAL HONEY
Leticia M. Estevinho
CIMO–Mountain Research Center. Agricultural College of Bragança, Polytechnic Institute of Bragança
- P036** EXTENDED SHELF LIFE UNDER REFRIGERATION FROM 7 TO 21 DAYS OF A READY–TO–EAT MEAL BY HIGH PRESSURE PASTEURIZATION
Liliana G. Fidalgo
QOPNA, Department of Chemistry, University of Aveiro
- P037** EXTRACT FROM POMEGRANATE BY–PRODUCTS FOR MAINTAIN THE QUALITY OF READY–TO–EAT POMEGRANATE ARILS – PRELIMINARY STUDY
Eliana Jerônimo
Centro de Biotecnologia Agrícola e Agro–Alimentar do Alentejo, Instituto Politécnico de Beja (IPBeja)
- P038** FOOD STORAGE UNDER PRESSURE AT VARIABLE ROOM TEMPERATURE – CAN THIS BE A NOVEL FOOD PRESERVATION METHODOLOGY?
Liliana G. Fidalgo
QOPNA, Department of Chemistry, University of Aveiro
- P039** FUNGAL AGARICUS BISPORUS DISEASES: TAXONOMY AND REALITY
Joana Lamego
iBET –Instituto de Biologia Experimental e Tecnológica. Instituto de Tecnologia Química e Biológica, Universidade Nova de Lisboa
- P040** HIGH PRESSURE PROCESSING EXTENDS THE SHELF LIFE OF READY–TO–EAT BOILED EGGS FROM 7 TO 34 DAYS UNDER REFRIGERATION
Mauro D. Santos
QOPNA, Department of Chemistry, University of Aveiro
- P041** HIGH PRESSURE PROCESSING IN THE INACTIVATION OF ENTEROTOXIC *STAPHYLOCOCCUS AUREUS*.
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CITAB-Centre for the Research and Technology of Agro-Environmental and Biological Sciences, Agronomy Department, University of Trás-os-Montes e Alto Douro, Vila Real
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GENZ-Grupo de Investigación Enzimología (www.um.es/genz), Departamento de Bioquímica y Biología Molecular-A, Campus de Excelencia Internacional Regional Campus Mare Nostrum, Universidad de Murcia, Murcia, Spain.
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Salomé Magalhães

Institute of Biotechnology and Bioengineering, Centre for Chemical and Biological Engineering, Instituto Superior Técnico, Lisboa, Portugal

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Ana-Belen Cutillas

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Júlia Santos

Life and Health Science Research Institute

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Mónica V. Cunha

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Centro de Neurociências e Biologia Celular, Universidade de Coimbra

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Instituto de Tecnologia Química e Biológica, Universidade Nova de Lisboa, Oeiras, Portugal

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IBMC – Instituto de Biologia Molecular e Celular, Universidade do Porto, 4150 Porto; ICBAS – Instituto de Ciências Biomédicas Abel Salazar, Universidade do Porto
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Patrícia Branco
Laboratório nacional de energia e geologia (LNEG)

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IBMC, Instituto de Biologia Molecular e Celular, Porto, Portugal; ICBAS, Instituto de Ciências Biomédicas Abel Salazar, Departamento de Biologia Molecular, Universidade do Porto
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Isabel Couto
Grupo de Micobactérias, Unidade de Microbiologia Médica, Instituto de Higiene e Medicina Tropical, Universidade Nova de Lisboa (IHMT, UNL); Centro de Recursos Microbiológicos (CREM), UNL
- P254** CLONING AND EXPRESSION OF *CLOSTRIDIUM THERMOCELLUM* CBM3 IN *PICHIA PASTORIS*
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IBB – Institute for Biotechnology and Bioengineering, Centre of Biological Engineering, Universidade do Minho
- P255** CONTRIBUTION OF MS6 GP1 TO *MYCOBACTERIUM SMEGMATIS* LYSIS
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Centro de Patogénese Molecular – Unidade dos Retrovírus e Infecções Associadas, Faculty of Pharmacy, University of Lisbon, Portugal
- P256** DIRECTED EVOLUTION OF THE LANTIBIOTIC LICHENICIDIN
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Department of Biology & CESAM, University of Aveiro
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Isabel Couto
Grupo de Micobactérias, Unidade de Microbiologia Médica, Instituto de Higiene e Medicina Tropical, Universidade Nova de Lisboa (IHMT, UNL); Centro de Recursos Microbiológicos (CREM), UNL
- P258** EMERGENCE OF CARBAPENEM RESISTANCE AMONG GRAM-NEGATIVE BACTERIA WITHIN CENTRO HOSPITALAR DO BAIXO VOUGA, AVEIRO
Cátia Santos
Department of Biology, CESAM, Aveiro University

- P259** EXPRESSION AND ANALYSIS OF ENDO-1,3- β -GLUCANASE GENE FROM THE PLANT PATHOGEN PHYTOPHTHORA CINNAMOMI
Rodrigo Costa
Department of Microbiology and Genetics, CIETUS-IBSAL, University of Salamanca/CSIC
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Jéssica Gomes-Rezende
ICVS-Universidade do Minho
- P261** HETEROLOGOUS EXPRESSION OF LICHENICIDIN: IMPROVEMENT OF THE BIOSYNTHESIS LEVELS IN *E. COLI*
Joana Barbosa
Department of Biology and CESAM, University of Aveiro, Portugal
- P262** IDENTIFICATION OF THE GENOMIC PACKAGING SEQUENCE OF CHIKUNGUNYA VIRUS
Andreia Melo-Pimenta
Grupo de Virologia, UEL de Microbiologia Médica, Unidade de Parasitologia e Microbiologia Médicas, Instituto de Higiene e Medicina Tropical (IHMT), Universidade Nova de Lisboa.
- P263** INSIGHTS INTO THE LICHENICIDIN SELF-PROTECTION MECHANISM USING *E. COLI* AS MODEL ORGANISM
Tania Caetano
Department of Biology & CESAM, University of Aveiro
- P264** MOLECULAR CHARACTERIZATION OF THE TRANSCRIPTIONAL REGULATOR CHR8 FROM *OCHROBACTRUM TRITICI* 5BVL1
Rita Branco
IMAR-CMA-Marine and Environmental Research Centre, Coimbra, Portugal
- P265** MOLECULAR EPIDEMIOLOGY AND RISK FACTORS BY EXTENDED-SPECTRUM β -LACTAMASES PRODUCING *ESCHERICHIA COLI* AND *KLEBSIELLA PNEUMONIAE* IN URINARY TRACT INFECTION
Mária Jose Espinar
Microbiology-FMUP
- P266** NATURAL MUTATIONS LEADING TO DISRUPTION OF THE BAC PROTEIN PRODUCTION IN *STREPTOCOCCUS AGALACTIAE*
Alexander V. Dmitriev
Department of Molecular Microbiology, Institute of Experimental Medicine, Saint-Petersburg, Russia
- P267** SCREENING FOR PKS AND NRPS GENES AND PREDICTION OF BIOACTIVE COMPOUNDS FROM MARINE CYANOBACTERIAL ISOLATES
Ângela Brito
IBMC - Instituto de Biologia Molecular e Celular; Departamento de Biologia, Faculdade de Ciências, Universidade do Porto
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Rodrigo Costa
Mountain Research Center, Polytechnic Institute of Bragança, Portugal
- P269** THE IMPACT OF LYSB IN MYCOBACTERIA PHAGE-MEDIATED LYSIS.
Adriano Gigante
Centro de Patogénese Molecular, Unidade dos Retrovirus e Infecções Associadas, Faculdade de Farmácia, Universidade de Lisboa.

- P270** THE IMPORTANCE OF MITOCHONDRIAL FUNCTION IN THE ROLE OF THE YEAST CATHEPSIN D IN ACETIC ACID-INDUCED APOPTOSIS
Helena Pereira
Centro de Biologia Molecular e Ambiental, Departamento de Biologia, Universidade do Minho, Braga, Portugal
- P271** THE ROLE OF PLASMID DETERMINANTS IN THE RESISTANCE OF STAPHYLOCOCCUS AUREUS TO ANTIMICROBIAL AGENTS
Cláudia Palma
Lab de Micobactérias, Unidade de Microbiologia Médica, Instituto de Higiene e Medicina Tropical, Universidade Nova de Lisboa (IHMT, UNL), Lisboa, Portugal
- P272** TRANSCRIPTIONAL AND POST-TRANSCRIPTIONAL REGULATION OF YEAST LACTATE AND ACETATE TRANSPORTERS BY A RNA HELICASES
Sandra Mota
Centre of Molecular and Environmental Biology (CBMA), Department of Biology, University of Minho, Braga, Portugal; Escola Superior de Tecnologia da Saúde do Porto – Instituto Politécnico do Porto
- P273** TRANSCRIPTIONAL REGULATION OF AUTOPHAGY DURING YEAST CHRONOLOGICAL AGING BY NUTRIENT-SENSING PLAYERS
Belém Sampaio-Marques
Life and Health Sciences Research Institute (ICVS), School of Health Sciences, University of Minho, Braga, Portugal and ICVS/3B's – PT Government Associate Laboratory, Braga/Guimarães, Portugal
- P274** UNDERSTANDING THE MOLECULAR DETERMINANTS OF UNISEXUAL BEHAVIOR IN THE YEAST *PHAFFIA RHODOZYMA*
Márcia David-Palma
Centro de Recursos Microbiológicos (CREM), Departamento de Ciências da Vida, Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa
- P275** THE IMPACT OF LYSB IN MYCOBACTERIA PHAGE-MEDIATED LYSIS.
Adriano Gigante
Centro de Patogénese Molecular, Unidade dos Retrovirus e Infecções Associadas, Faculdade de Farmácia, Universidade de Lisboa.
- P276** THE MTVR SRNA IS INVOLVED IN THE REGULATION OF HFQ
Christian Gomes Ramos
Institute for Biotechnology and Bioengineering, Centre for Biological and Chemical Engineering, Instituto Superior Técnico, Lisboa, Portugal
- P277** DEVELOPMENT OF REAL-TIME PCR ASSAYS TARGETING THE FLAGELLIN GENE FOR THE IDENTIFICATION OF *BORRELIA BURGDORFERI* SENSU LATO GENOSPECIES
Mónica Nunes
Grupo de Leptospirose e Borreliose de Lyme, Unidade de Microbiologia Médica – Instituto de Higiene e Medicina Tropical (IHMT), Universidade Nova de Lisboa (UNL), Lisboa; Centro de Recursos Microbiológicos, Faculdade de Ciências e Tecnologia, UNL, Caparica
- P278** CERAMIDE METABOLISM MODULATES MITOCHONDRIAL OUTER MEMBRANE PERMEABILIZATION AND APOPTOSIS
António Rego
Departamento de Biologia, Centro de Biologia Molecular e Ambiental, Universidade do Minho, Braga, Portugal / Instituto de Biologia Molecular e Celular, Universidade do Porto, Porto, Portugal

Session 5: Bioprocess engineering

Bioprocess engineering

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Armando Robledo
Universidade Autónoma Agraria Antonio Narro
- P280** EFFECT OF TEMPERATURE VARIATION IN LIQUID FERMENTATION FOR THE PRODUCTION OF LIPASES BY *ASPERGILLUS NIGER*
Mario Cruz-Hernandez
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- P281** EVALUATION OF MUTS AND MUT+ *PICHIA PASTORIS* STRAINS FOR MEMBRANE-BOUND COMT BIOSYNTHESIS
A.Q. Pedro
Centro de Investigação em Ciências da Saúde
- P282** IN-SITU PREDICTION OF A RECOMBINANT ASPARTIC PROTEASE PRODUCTION IN BIOREACTOR WITH NEAR INFRARED SPECTROSCOPY AND PARTIAL LEAST SQUARES REGRESSION
Cecília Calado
Faculty of Engineering, Catholic University of Portugal, Rio de Mouro, Portugal
- P283** IONIC LIQUIDS AS ADJUVANTS IN AQUEOUS TWO PHASE SYSTEMS FOR THE SELECTIVE EXTRACTION OF OVALBUMIN FROM EGG WHITE
Matheus M. Pereira
Chemistry Department, CICECO, University of Aveiro
- P284** KINETIC COMPARISON OF TRAY AND COLUMN BIOREACTOR IN THE XYLANASE PRODUCTION BY *RHIZOMUCOR PUSILLUS* UNDER SOLID STATE FERMENTATION
Armando Robledo
Universidade Autónoma Agraria Antonio Narro
- P285** MODELLING THE SEPARATION OF PLASMID DNA AND RNA BY ULTRAFILTRATION António Miguel Morão
Centro de Investigação em Ciências da Saúde/Universidade da Beira Interior
- P286** NEAR-INFRARED (NIR) VERSUS MID-INFRARED (MIR) SPECTROSCOPY TO MONITOR THE BIOPRODUCTION OF HETEROLOGOUS PRODUCTS
Kevin C. Sales
Faculty of Engineering, Catholic University of Portugal, Rio de Mouro, Portugal
- P287** POLYMER ELECTROSPUN NANOFIBROUS MATS FOR ENZYME IMMOBILIZATION AND BIOCATALYTIC APPLICATIONS
José A. Lopes da Silva
QOPNA, Department of Chemistry, University of Aveiro
- P288** SYNTHESIS OF THREE TARGET PEPTIDES FROM STEAP1 IN PROKARYOTIC SYSTEMS FOR ONCOLOGIC DIAGNOSE
Ana Margarida Gonçalves
Health Sciences Research Centre
- P289** USE OF OREGANO (*ORIGANUM VULGARE*) WASTE AS A SUPPORT IN FUNGAL TANNASE PRODUCTION
Mario Cruz-Hernandez
Universidade Autónoma Agraria Antonio Narro

- P290** USE OF WITHANIA SOMNIFERA EXTRACTS FOR GREEN SYNTHESIS OF SILVER NANOPARTICLES WITH ANTIMICROBIAL ACTIVITY
Gregory Marslin
University of Minho
- P291** PURIFICATION OF IMMUNOGLOBULIN Y (IGY) USING AQUEOUS BIPHASIC SYSTEMS
Mafalda R. Almeida
Chemistry Department, CICECO, University of Aveiro

Downstream processing

- P292** BIORECOGNITION STUDY OF OLIGONUCLEOTIDES AND PLASMID DNA TO L-METHIONINE CHROMATOGRAPHIC SUPPORT
Élia Mota
CICS-UBI – Centro de Investigação em Ciências da Saúde, Universidade da Beira Interior – Covilhã, Portugal
- P293** CENTRAL COMPOSITE DESIGN AS AN EFFICIENT TOOL IN THE COMPOSITION OF CHROMATOGRAPHIC MATRICES
Luís Rocha
CICS-UBI – Centro de Investigação em Ciências da Saúde, Universidade da Beira Interior – Covilhã, Portugal
- P294** INTEGRATION OF MEMBRANE TECHNOLOGY AND MONOLITHIC AFFINITY CHROMATOGRAPHY FOR SUPERCOILED PLASMID DNA PURIFICATION
Fani Sousa
Universidade da Beira Interior
- P295** MALTODEXTRINS AS ALTERNATIVE CONSTITUENTS TO FORM IONIC-LIQUID-BASED AQUEOUS BIPHASIC SYSTEMS
Sara F. Carvalho
Departamento de Química, CICECO, Universidade de Aveiro, Portugal
- P296** NEW INSIGHTS INTO RNA PURIFICATION: THE POTENTIAL OF AMINO ACIDS-BASED AFFINITY CHROMATOGRAPHY
Ana Rita Martins
CICS-UBI, Health Sciences Research Centre, University of Beira Interior
- P297** PRE-MIR-29 BIOSYNTHESIS AND PURIFICATION: POSSIBLE IMPLICATIONS IN ALZHEIMER'S DISEASE
Patrícia Pereira
CICS-UBI – Centro de Investigação em Ciências da Saúde, Universidade da Beira Interior
- P298** SELECTIVE RECOVERY OF NATURAL RED COLORANTS FROM FERMENTED BROTH BY THE APPLICATION OF IONIC LIQUID-BASED AQUEOUS BIPHASIC SYSTEMS
Sónia Patrícia Marques Ventura
Universidade de Aveiro
- P299** UNDERSTANDING AFFINITY CHROMATOGRAPHY LIGANDS-NUCLEIC ACIDS INTERACTIONS
Carla Cruz
CICS-UBI – Centro de Investigação em Ciências da Saúde, Universidade da Beira Interior – Covilhã, Portugal
- P300** VALORIZATION OF PHARMACEUTICAL WASTES THROUGH THE RECOVERY OF ADDED-VALUE DRUGS
Francisca A. e Silva
CICECO, Departamento de Química, Universidade de Aveiro

- P301** ENTHALPY CONTRIBUTIONS TO LYSOZYME ADSORPTION ONTO A CATION-EXCHANGE SUPPORT: EFFECT OF PH UNDER LINEAR AND OVERLOADED CONDITIONS
Ana Dias-Cabral
CICS-UBI – Health Sciences Research Centre, University of Beira Interior, 6200 – 506 Covilhã, Portugal
- P302** IONIC-LIQUID-BASED AQUEOUS BIPHASIC SYSTEMS: AN ALTERNATIVE APPROACH FOR THE SEPARATION OF EXTRACELLULAR POLYSACCHARIDES
Sara F. Carvalho
Departamento de Química, CICECO, Universidade de Aveiro, 3810-193 Aveiro, Portugal

Renewables, biofuels and bioenergy

- P303** BACTERIAL TRIACYLGLYCERIDES FOR BIODIESEL PRODUCTION
Beatriz Lázaro Pinto
University of Cantabria: Institute of Biomedicine and Biotechnology of Cantabria, Spain
- P304** BIOETHANOL PRODUCTION FROM HARDWOOD SPENT SULPHITE LIQUOR (HSSL) USING SCHEFFERSOMYCES STIPITIS – DEALING WITH HSSL TOXICITY PROBLEMS
Cátia A.A. Almeida
CICECO, University of Aveiro, Chemistry Department, Aveiro, Portugal
- P305** BIOLOGICAL TREATMENT OF HSSL (HARDWOOD SPENT SULPHITE LIQUOR) WITH THE FUNGUS PAECILOMYCES VARIOTII 1CICECO,
T.M. Henriques
University of Aveiro, Chemistry Department, Aveiro, Portugal
- P306** CELLULOSIC BASED BIOREFINERY FOR PULP AND PAPER INDUSTRY VALORIZATION
Ana M.R.B. Xavier
Department of Chemistry & CICECO, University of Aveiro, 3810-193 Aveiro, Portugal
- P307** EFFECT OF CONCENTRATION OF CARBON SOURCE IN BIOETHANOL PRODUCTION BY SCHEFFERSOMYCES STIPITIS
Maria Dolores D. R. F. Moreira
Instituto Superior de Engenharia de Coimbra, Instituto Politécnico de Coimbra
- P308** ENGINEERING YEAST TOLERANCE TO INHIBITORY LIGNOCELLULOSIC BIOMASS
Tatiana Q. Aguiar
IBB-Institute for Biotechnology and Bioengineering, Centre of Biological Engineering, University of Minho, Campus de Gualtar 4710-057, Braga, Portugal
- P309** ENZYMATIC CONVERSION OF ANIMAL FAT INTO BIODIESEL
Joana M. Silva
LNEG – Bioenergy Unit – Estrada do Paço do Lumiar, 1649-038 Lisboa
- P310** MATURATION OF TWO DIFFERENT NI-FE HYDROGENASES IN THE *CYANOBACTERIUM ANABAENA* SP. PCC 7120: A MULTIDISCIPLINARY STUDY
Paulo Oliveira
IBMC – Instituto de Biologia Molecular e Celular, Porto, Portugal
- P311** OPENING NEW PERSPECTIVES FOR BIOREMEDIATION AND BIOFUEL PRODUCTION: FUNCTIONAL CHARACTERIZATION OF PCCH A KEY CYTOCHROME FROM *G. SULFURREDUCENS*
Joana M. Dantas
Requimte-CQFB, Departamento de Química, Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa, Caparica, Portugal

- P312** OPTIMIZATION OF ENZYMATIC HYDROLYSIS OF DILUTE-ACID PRETREATED CARDOON FOR BIOETHANOL PRODUCTION
A. M.R.B. Xavier
Centro Biotecnologia Agrícola e Agro-Alimentar do Alentejo (CEBAL)/Instituto Politécnico de Beja (IPBeja), Beja, Portugal
- P313** OPTIMIZATION OF HIGH-SOLID ENZYMATIC HYDROLYSIS OF EXTRACTED OLIVE POMACE
Maria da Conceição Fernandes
Centro de Biotecnologia Agrícola e Agro-Alimentar do Alentejo (CEBAL)/Instituto Politécnico de Beja (IPBeja), Portugal
- P314** VALORIZATION OF CANNED SARDINE AND MACKEREL RESIDUES THROUGH EXTRACTION OF BIOACTIVE COMPOUNDS
Manuela Pintado
CBQF-Universidade Católica Portuguesa, Escola Superior de Biotecnologia
- P315** BIOETHANOL PRODUCTION FROM EXTRACTED OLIVE POMACE
Maria da Conceição Fernandes
Centro de Biotecnologia Agrícola e Agro-Alimentar do Alentejo (CEBAL)/Instituto Politécnico de Beja (IPBeja), Portugal

Session 6: Cellular Microbiology and Pathogenesis

Host-Pathogen Interactions

- P316** ANALYSIS OF THE ROLE OF EUKARYOTIC SMALL G PROTEINS OF THE ARL FAMILY IN INFECTION OF HOST CELLS BY CHLAMYDIA TRACHOMATIS
Nuno Charro
Infection Biology Laboratory, Instituto de Tecnologia Química e Biológica, Universidade Nova de Lisboa (ITQB-UNL), Portugal
- P317** ANTI-*CRYPTOCOCCUS NEOFORMANS* ACTIVITY OF SYNTHETIC CHALCONE IN A MURINE MODEL
Fernanda Patricia Gullo
Faculdade de Ciências Farmacêuticas - UNESP - Araraquara - SP -Brazil
- P318** BACTERIOPHAGES WITH POTENTIAL TO TREAT FURUNCULOSIS IN MARINE FISH: SURVIVAL, HOST SPECIFICITY AND HOST PHAGE DYNAMICS.
Carla Pereira
University of Aveiro
- P319** COMPARISON OF DIPLODIA CORTICOLA SECRETOME IN AN INFECTION-INDUCED ENVIRONMENT
Isabel Fernandes
University of Aveiro, Ghent University
- P320** EXTRACELLULAR PROTEOME OF DIPLODIA CORTICOLA STRAINS
Ana Cristina Esteves
Dep. of Biology, University of Aveiro
- P321** HISTOPLASMA CAPSULATUM INFECTION PRESENTING NEW NUCLEAR EFFECTS IN ALVEOLAR MACROPHAGES
Fernanda Patricia Gullo
Faculty of Pharmaceutical Sciences of Araraquara, Department of Clinical Analysis, Laboratory of Clinical Mycology, Univ Estadual Paulista, UNESP, Araraquara, SP, Brazil

- P322** IDENTIFICATION OF AN EXTRACELLULAR INFECTION-INDUCED GLYCERALDEHYDE-3-PHOSPHATE DEHYDROGENASE OF THE PHYTOPATHOGENIC *PROTEOBACTERIUM PSEUDOMONAS* SYRIN
Bouchra Elkhalfi
Laboratory of Physiology & Genetics Molecular, Faculty of Sciences, Ain Chock, Casablanca Morocco
- P323** INACTIVATION OF AQUACULTURE *VIBRIO PARAHEMOLYTICUS* BY THE USE OF PHAGE COCKTAILS
Lília Mateus
University of Aveiro
- P324** INNOVATIVE ANTI-MICROBIAL STRATEGIES AGAINST BURULI ULCER: BACTERIOPHAGE THERAPY
Gabriela Trigo
Life and Health Sciences Research Institute (ICVS), School of Health Sciences, University of Minho; ICVS/3B's-PT Government Associate Laboratory, Braga/Guilmarães
- P325** THE *CHLAMYDIA TRACHOMATIS* TYPE III SECRETION SUBSTRATES CT142 AND CT143 MAY BE PART OF A PROTEIN COMPLEX IN THE LUMEN OF THE BACTERIAL VACUOLE
Maria Cunha
Instituto de Tecnologia Química e Biológica, UNL
- P326** THE SALMONELLA EFFECTOR STEA IS A PHOSPHATIDYLINOSITOL-4-PHOSPHATE-BINDING PROTEIN
Nuno Charro
Infection Biology Laboratory, Instituto de Tecnologia Química e Biológica, Universidade Nova de Lisboa
- P327** THE SALMONELLA TYPE III SECRETION EFFECTOR STEA PARTICIPATES IN THE CONTROL OF THE MEMBRANE DYNAMICS OF SALMONELLA-CONTAINING VACUOLES
Lia Domingues
Infection Biology Laboratory, Instituto de Tecnologia Química e Biológica
- P328** VIRULENCE OF PARACOCCIDIOIDES SPECIES AND EFFICACY OF AMPHOTERICIN B AGAINST *P. LUTZII* IN THE NON-MAMMALIAN HOST *GALLERIA MELLONELLA*
Junya de Lacorte Singulani
UNESP, São Paulo State University
- P329** WHEN FUNGAL PROTEOMICS MEETS CORK OAK DECLINE
Isabel Fernandes
University of Aveiro, Ghent University
- P330** DIVERSITY OF BOTRYOSPHAERIAACEAE SPECIES FROM *EUCALYPTUS* SPP. IN PORTUGAL
Carla Barradas
CESAM, Departamento de Biologia, Universidade de Aveiro, Portugal
- P331** BLACK ROT DISEASE IN PORTUGAL: A DIVERGENT PATHOSYSTEM FOR *XANTHOMONAS CAMPESTRIS* PV. *CAMPESTRIS* AND GALICIAN - PORTUGUESE CABBAGES
Joana Cruz
Instituto Nacional de Investigação Agrária; Center for Biodiversity, Functional and Integrative Genomics
- P332** TLR9 ACTIVATION DAMPENS THE EARLY INFLAMMATORY RESPONSE TO PARACOCCIDIOIDES BRASILIENSIS, IMPACTING HOST SURVIVAL
João Menino
Life and Health Sciences Research Institute (ICVS/3Bs)

Microbial Pathogenesis

- P333** A NOVEL MODEL OF IBD THROUGH VACCINATION WITH NORMAL GI FLORA
Yara Sanei
Tehran university of medical sciences
- P334** *ESCHERICHIA COLI* PHYLOGENETIC GROUP DETERMINATION AND ANTIBIOTIC RESISTANCE PROFILE ISOLATED FROM WATER SAMPLES COLLECTED IN A AQUACULTURE EXPERIMENTA
Carla Dias
CECAV – Centre of Veterinary and Animal Science, Universidade de Trás-os-Montes e Alto Douro, Vila Real, Portugal
- P335** EVALUATION OF THE PATHOGENIC POTENTIAL OF *AEROMONAS* SPP. USING IN VITRO METHODOLOGIES
Teresa Semedo-Lemsaddek
IBET – Instituto de Biologia Experimental e Tecnológica: ITQB – Instituto de Tecnologia Química e Biológica, Universidade Nova de Lisboa
- P336** THE EFFECT OF TEMPERATURE ON THE SECRETOME OF *LASIODIPLODIA THEOBROMAE*
Carina Félix
Cesam and Dep. of Biology, University of Aveiro
- P337** IDENTIFICATION OF TYPE III SECRETION SUBSTRATES OF *CHLAMYDIA TRACHOMATIS* USING *YERSINIA ENTEROCOLITICA* AS A HETEROLOGOUS SYSTEM
Sara Pais
Infection Biology Laboratory, Instituto de Tecnologia Química e Biológica, Universidade Nova de Lisboa
- P338** DETECTION OF PREMATURE STOP CODONS LEADING TO TRUNCATED INTERNALIN A AMONG FOOD AND CLINICAL STRAINS OF *LISTERIA MONOCYTOGENES*
Vânia Ferreira
Department of Biology, University of Aveiro

Session 7: Genomics and Systems Biology

Bioinformatics

- P339** COMPUTATIONAL MODELS REVEAL GENOTYPE-PHENOTYPE ASSOCIATIONS IN *SACCHAROMYCES CEREVISIAE*
Inês Mendes
CBMA (Centre of Molecular and Environmental Biology) / Department of Biology / University of Minho, Braga, Portugal
- P340** INFERRING MICROBIAL SYNERGIES USING INTER-SPECIES PROTEIN INTERACTION PREDICTION DATA
Edgar Duarte Coelho
Institute of Electronics and Telematics Engineering of Aveiro
- P341** PGP: PROKARYOTE GENE PREDICTION SOFTWARE
José C.R. Pacheco
Departamento de Informática, Universidade do Minho, Campus de Gualtar, 4710-057 Braga, Portugal

- P342** PHENO-METABOLOMICS CHARACTERIZATION OF A *SACCHAROMYCES CEREVISIAE* STRAIN COLLECTION BY INTEGRATIVE DATA ANALYSIS APPROACHES
Ricardo Franco-Duarte
CBMA – Molecular and Environmental Research Centre, Department of Biology, University of Minho, Braga, Portugal
- P343** THE GENE POOL OF SEQUENCED PLASMIDS – WHAT CAN WE LEARN?
Cláudia Oliveira
Departamento de Biologia & CESAM, Universidade de Aveiro

Comparative Genomics and Evolution

- P344** GENETIC VARIATION AND SPECIES BOUNDARIES IN THE BASIDIOMYCETOUS YEASTS *CRYPTOCOCCUS VICTORIAE* AND *C. CARNESCENS* (TREMELLALES) – A MULTIGENE APPROACH
Marco A. Guerreiro
CREM – Centro de Recursos Microbiológicos, Departamento de Ciências da Vida, Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa
- P345** GENOMIC DIVERSITY OF DRUG-RESISTANT MYCOBACTERIUM TUBERCULOSIS ISOLATES IN LISBON PORTUGAL: TOWARDS TUBERCULOSIS GENOMIC EPIDEMIOLOGY
João Perdigão
Centro de Patogénese Molecular, URIA, Faculdade de Farmácia da Universidade de Lisboa, Portugal
- P346** HINTS ON THE EVOLUTION OF MATING SYSTEMS IN BASIDIOMYCETES COMING FROM THE ORDER LEUCOSPORIDIALES
Teresa M. Maia
Centro de Recursos Microbiológicos (CREM), Departamento de Ciências da Vida, Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa
- P347** MORPHOLOGICAL AND MOLECULAR CHARACTERIZATION OF *LIGNICOLOUS LULWORTHIALES* FROM PORTUGUESE WATERS
Caeiro M.F.
CESAM e CBA – Faculdade de Ciências da Universidade de Lisboa
- P348** EVOLUTION OF FUNGAL MATING SYSTEMS: INSIGHTS FROM RED YEASTS GENOMES
Marco A. Coelho
Centro de Recursos Microbiológicos (CREM), Departamento de Ciências da Vida, Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa

Functional Genomics

- P349** BUILDING AN ATLAS OF HFQ-DEPENDENT SMALL NON-CODING RNAs FROM THE OPPORTUNISTIC HUMAN PATHOGEN *BURKHOLDERIA CENOCEPACIA* J2315
Christian Gomes Ramos
Institute for Biotechnology and Bioengineering
- P350** IDENTIFICATION OF SMALL NON-CODING RNAs AND THEIR ROLES ON THE BIOLOGY OF OPPORTUNISTIC PATHOGENS OF THE BURKHOLDERIA CEPACIA COMPLEX
André M. Grilo
Institute for Biotechnology and Bioengineering

- P351** *P. BRASILIENSIS* VIRULENCE IS AFFECTED BY SCONC, THE NEGATIVE REGULATOR OF INORGANIC SULFUR ASSIMILATION
João Menino
Life and Health Sciences Research Institute (ICVS/3Bs)
- P352** SCREENING OF A *ZYGOSACCHAROMYCES BAILII* GENOMIC LIBRARY TO SEARCH FOR GENES RESPONSIBLE FOR ACETIC ACID RESISTANCE
Margarida Palma
IBB-Institute for Biotechnology and Bioengineering, Centre for Biological and Chemical Engineering, Department of Bioengineering, Instituto Superior Técnico, Universidade de Lisboa

Synthetic Biology

- P353** A SYNTHETIC BIOLOGY APPROACH TO ENGINEER "THERAPEUTIC" BACTERIA
Gabriel Monteiro
Institute of Biotechnology and Bioengineering, Centre for Chemical and Biological Engineering, Instituto Superior Técnico, Lisbon, Portugal
- P354** THE EFFECT OF RPIA OVEREXPRESSION ON PLASMID BIOPHARMACEUTICAL PRODUCTION BY *ESCHERICHIA COLI* GALG20, A PGI-GENE KNOCKOUT STRAIN
Michaela Simcikova
IST-IBB
- P355** TURNING *CORYNEBACTERIUM GLUTAMICUM* INTO A CELL FACTORY FOR THE PRODUCTION OF 2,3-BUTANEDIOL
Dušica Radoš
Instituto de Tecnologia Química e Biológica, Universidade Nova de Lisboa

Systems Biology

- P356** AN ECOSYSTEM WITHIN OUR MOUTH
Maria J Correia
Universidade Católica Portuguesa
- P357** YEASTRACT: AN UPGRADED INFORMATION SYSTEM FOR THE ANALYSIS OF GENE AND GENOMIC TRANSCRIPTION REGULATION IN *SACCHAROMYCES CEREVISIAE*
Miguel Cacho Teixeira
IBB-Institute for Biotechnology and Bioengineering, Instituto Superior Técnico, Universidade de Lisboa

Session 8: Emergent technologies

Cell culture, Stem Cell and Tissue Engineering

- P358** URINARY RHABDOSPHINCTER BIOENGINEERING – A DECELLULARIZED URETHRA MATRIX FOR MODELING SUI IN VITRO AND TISSUE ENGINEERING APPLICATIONS
Irina Neves Simões
Department of Bioengineering and IBB-Institute for Biotechnology and Bioengineering, Instituto Superior Técnico, Technical University of Lisbon

- P359** GENE DELIVERY STRATEGIES TO EFFICIENTLY OVER-EXPRESS FUNCTIONAL HLA-G IN BONE MARROW-DERIVED MESENCHYMAL STROMAL CELLS
Joana S. Boura
Wake Forest Institute for Regenerative Medicine, Wake Forest School of Medicine, Winston-Salem, NC, USA; Department of Bioengineering and IBB-Institute for Biotechnology and Bioengineering, Instituto Superior Técnico (IST), Lisbon
- P360** PROLIFERATIVE AND MINERALOGENIC ACTIVITIES OF SEAWEEDS AND MARINE PLANTS EXTRACTS IN A FISH IN VITRO CELL SYSTEM
Vânia Roberto
Centre of Marine Sciences: PhD Program in Biomedical Sciences, DCBM, University of Algarve, Faro, Portugal

Bionanotechnology

- P361** AN *IN-VIVO* STUDY: THE ANTITUMOR EFFECT OF BIOSYNTHETIC SILVER NANOPARTICLES BY STIMULATING THE IMMUNE SYSTEM
Bardia Varastehmoradi
Tehran University of Medical Sciences
- P362** EFFECT OF SILVER NANOPARTICLES IN THE MICROBIOME OF THE ISOPOD *PORCELLIONIDES PRUINOSUS*
J.M.M Oliveira
Departamento de Biologia & CESAM, Universidade de Aveiro
- P363** ELECTROSPUN SILK-ELASTIN-LIKE FIBER MATS FOR TISSUE ENGINEERING APPLICATIONS
Margarida Casal
CBMA (Centre of Molecular and Environmental Biology), Department of Biology, University of Minho, Braga, Portugal
- P364** INTEGRATED EXTRACTION, CONCENTRATION AND QUANTIFICATION OF OCHRATOXIN A IN WINES USING A MICROFLUIDIC ATPE COUPLED TO A FLISA
R.R.G. Soares
INESC Microsistemas e Nanotecnologias and IN-Institute of Nanoscience and Nanotechnology, Lisbon; IBB - Institute for Biotechnology and Bioengineering, Centre for Biological and Chemical Engineering, Instituto Superior Técnico, University of Lisbon
- P365** MIP NANOPARTICLES: A STRATEGY TO BLOCK QUORUM SENSING?
Ana Sofia Duarte
Biology Department & Cesam, University of Aveiro
- P366** NANO, MICRO AND MACRO MAGNETIC MATERIALS IN BIOTECHNOLOGY
Ana Cecília Afonso Roque
REQUIMTE, FCT-UNL
- P367** NEW BIOCOMPATIBLE AND BIOACTIVE NANOCOMPOSITES OF BACTERIAL CELLULOSE AND POLYMETHACRYLATES
Ana R. P. Figueiredo
Department of Chemistry and CICECO, University of Aveiro
- P368** RELEASE OF POLYPHENOLS FROM CARNAUBA WAX NANOPARTICLES
Débora Campos
CBQF - Escola Superior de Biotecnologia, Universidade Católica Portuguesa, Portugal
- P369** TOWARDS THE MINIATURIZATION OF CELL ASSAYS FOR GPCR MONITORING
João R.C. Trabuço

IBB- Institute for Biotechnology and Bioengineering, Centre for Biological and Chemical Engineering, Department of Bioengineering Instituto Superior Técnico University of Lisbon

P370 USING BRAIN-DERIVED CELLS TO INVESTIGATE BEHAVIOUR WITH CHEMICAL AND ELECTRICAL STIMULATIONS

Ana Mestre

Universidade do Algarve, FCT, Campus de Gambelas, Faro, Portugal

Last minute Posters

P371 MICROBIOLOGICAL PROFILE OF ARTISANAL CHEESE PREPARED FROM RAW MILK WITH OREGANO HERBS

Cristina Miguel Pintado

Centro de Apoio Tecnológico Agro Alimentar (CATAA), Zona Industrial, 6000-459 Castelo Branco, Portugal

P372 MONITORIZAÇÃO DA RESISTÊNCIA AOS ANTIMICROBIANOS NAS ESTIRPES DE *SALMONELLA* SPP ISOLADAS NO INSTITUTO NACIONAL DE SAÚDE PÚBLICA EM ANGOLA

Moises Francisco

Instituto Nacional de Saúde Pública. Luanda, Angola





1 University of Aveiro

2 Boat trips: City Centre

3 Hotel Meliã Ria

