



PROGRAMME

16th July – Tuesday

08h30 – 09h00 – Check In

09h00 – 09h30 – Opening Ceremony

Rector Mário Raposo, PhD

Vice-Rector Sílvia Socorro, PhD

FCS-UBI President Miguel Castelo Branco, MD, PhD

CICS-UBI Coordinator Luís Taborda Barata, MD, PhD

Symposium Chairman Eduardo Cavaco, PhD

CADBI-CICS-UBI

09h30 – 10h00 – CICS-UBI, Numbers, Present and Future

Luís Taborda Barata, MD, PhD – CICS-UBI

Plenary Session I

10h00 – 10h30 - A DIFFERENT PERSPECTIVE ON BIOMOLECULE ADSORPTION MECHANISM DURING PREPARATIVE CHROMATOGRAPHY

BB- Biopharmaceuticals and Biomaterials

Ana Cristina Dias Cabral, PhD

10h30 – 11h00 - Oral Communications A

1. Flash communication

EVALUATION OF G4-FORMING MOTIF IN PRE-MIR150

Pedro Lourenço, Joana Figueiredo, Diogo Dias, Carla Cruz

2. Flash communication

EVALUATION OF SPECIFIC ANTHRAQUINONES AS NEW CATECHOL-O-METHYLTRANSFERASE INHIBITORS: VIRTUAL DOCKING, MOLECULAR DYNAMICS AND INHIBITION IN VITRO STUDIES

Fábio A. Proença, João P. Batista-Silva, Samuel Silvestre, Luís A. Passarinha

3. *Flash communication*

OPTIMIZATION OF BSA-COATED PEPTIDE NANOCOMPLEXES USING DESIGN OF EXPERIMENTS FOR ENHANCED CO-DELIVERY OF TEMOZOLOMIDE AND p53 GENE

Inês Afonso, Ana R. Neves, Dalinda Eusébio, Tânia Albuquerque, Eric Vivès, Prisca Boisguérin, Adriana O. Santos, Ângela Sousa, Diana Costa

11h00 – 11h30 – Coffee Break

Plenary Session II

11h30 – 12h00 - UNLOCKING THE HEALTH BENEFITS OF NATURAL PRODUCTS: WHAT ABOUT THE BIOACCESSIBILITY AND BIOAVAILABILITY OF PHYTOCHEMICALS?

NPM - Natural Products & Microbial Research

Ana Paula Duarte, PhD

12h00 – 12h30 - Oral Communications B

1. *Short communication*

PORTUGUESE NATURAL RESOURCES AS MODULATORS OF *Acne vulgaris* HALLMARKS

Ana Sofia Oliveira, Joana Rolo, Carlos Gaspar, Rita Palmeira-de-Oliveira, João Paulo Teixeira, José Martinez-de-Oliveira, Ana Palmeira-de-Oliveira

2. *Short communication*

MITOCHONDRIAL SELECTION AND PATHOGENICITY IN YEAST: A PHYLOGENETIC ANALYSIS

Mariana Z. Fernandes, Joana Rolo, Emanuel Maldonado, José Martinez-de-Oliveira, Ana Palmeira-de-Oliveira

12h30 – 14h00 – Lunch

Plenary session III

14h00 – 14h30 - THE IMPORTANCE OF BIOINFORMATICS IN INVESTIGATING THE GENETIC CAUSES OF RARE DISEASES

H&M- Hormones and Metabolism

Emanuel Maldonado, PhD

14h30 – 16h00 - Oral Communications C

1. Short communication

NANOCOSMETICS CONTAINING NATURE-DERIVED HYDROPHOBIC COMPOUNDS: NIOSOME DEVELOPMENT AND PHYSICOCHEMICAL AND TOXICITY CHARACTERIZATION

Patrícia C. Pires, Maria Beatriz Pinto, Mafalda Correia, Gabriela Moço, Ricardo C. Calhelha, Ana Rita Silva, Maria João Sousa, Miguel Vilas-Boas, Soraia I. Falcão, Francisco Veiga, Pooyan Makvandi, Ana Cláudia Paiva-Santos

2. Short communication

A POTENTIAL EFFECT OF CIRCADIAN RHYTHMS IN THE DELIVERY/THERAPEUTIC PERFORMANCE OF PACLITAXEL-DENDRIMER NANOSYSTEMS

Tânia Albuquerque, Ana Raquel Neves, Milan Paul, Swati Biswas, Elena Vuelta, Ignacio García-Tuñón, Manuel Sánchez-Martin, Telma Quintela, Diana Costa

3. Short communication

EXPLORING miR-155 DETECTION USING MOLECULAR BEACONS ON A MICROFLUIDIC DEVICE

David Moreira, Pedro Lourenço, André Miranda, Daniela Alexandre, Pedro Baptista, Cândida Tomaz, Yi Lu, Carla Cruz

4. Short communication

HPV16 E6 AND E7 ONCOPROTEINS: ENHANCED PURIFICATION FOR ANTI-CANCER DRUG DEVELOPMENT

Diana Gomes, Nick Vecchiarello, Luís A. Passarinha, Ângela Sousa

5. Short communication

AT11-GUIDED LIPOSOMES: POTENTIAL THERAPEUTIC APPROACH FOR ORAL CANCER CELLS

Jéssica Lopes-Nunes, Paula A. Oliveira, Carla Cruz

6. Short communication

B-MYB G-QUADRUPLEX TO LIGANDS: STARTING BY BIOPHYSICAL SCREENING TO CELL STUDIES

André Miranda, Beatriz Oliveira, Cyril Esnault, Jean-Christophe Andrau, Paula A. Oliveira, Jean-Louis Mergny, Carla Cruz

16h00 – Group Photo

16h05 – 16h30 – Ice Tea Break

16h30 – 17h30 – Poster Session I – Wine and Cheese

19h30 – Symposium Dinner (separate registration)

17th July – Wednesday

Plenary Session IV

09h00 – 09h30 – BRAIN SENSES: AN UPDATE

NND- Neurologic and Neurovascular Disorders

Cecília Santos, PhD

09h30 – 11h00 - Oral Communications D

1. *Short communication*

A POOL OF HUMAN NAÏVE CD8 α β T CELLS DOWN-MODULATE THE CD8 β CHAIN AND BECOME CD8 $\alpha\alpha$ T CELLS UPON IN VITRO CULTURE WITH IL-15

André J. Esgalhado, Débora Reste-Ferreira, Sandra Weinhold, Markus Uhrberg, Elsa M. Cardoso, Fernando A. Arosa

2. *Short communication*

THE EFFECT OF MUSIC ON THE TRANSCRIPTOME OF EVOLUTIONARILY-CONSERVED NEUROPLASTICITY-RELATED GENES ASSOCIATED WITH AUTISM SPECTRUM DISORDER

Ana Luísa Soares Macedo, Luíza Maria Ferreira Lopes Athayde, Maria Antonelle Chaves Gomes, Leonardo Silva Sidney, Lorene M. Gualda, Alessandro Taunay Rodrigues

3. *Short communication*

CAN WE USE HUMAN MIDBRAIN ORGANOIDs TO MODEL PARKINSON'S DISEASE?

Catarina Serra-Almeida, Javier Jarazo, Gemma Gomez-Giro, Isabel Rosety, Alise Zagare, Ana Clara Cristóvão, Liliana Bernardino, Jens Christian Schwamborn

4. *Flash communication*

UNIVARIATE METABOLOMIC ANALYSIS TO UNCOVER URINE METABOLIC MARKERS OF ISCHEMIC STROKE IN ELDERLY

Ana Margarida Carboila, Nádia Oliveira, Ignacio Verde

5. *Short communication*

THE COMBINED EFFECT OF PORTUGUESE NATURAL MINERAL WATERS WITH PLANT EXTRACTS AGAINST SKIN AGING

Carolina P. Gomes, Ana Rita Gama, Ana Sofia Oliveira, Joana Rolo, Rita Palmeira-de-Oliveira, Tayse F.F. da Silveira, Lillian Barros, Ana Palmeira-de-Oliveira

6. *Short communication*

NATURAL ANTI-AGING COSMETICS WITH UNHAIS DA SERRA THERMAL WATER AND *Thymus x citriodorus* HYDROLATE

Ana Rita Gama, Carolina Gomes, Cátia Caetano, Ana Sofia Oliveira, Joana Rolo, José Martinez de Oliveira, Ana Palmeira de Oliveira, Rita Palmeira de Oliveira

11h00 – 11h30 – Coffee Break

Plenary Session V

11h30 – 12h00 – GUIDELINES: REACHING BEYOND THE EVIDENCE

RAD- Respiratory and Allergic Diseases

Olga Lourenço, PhD

12h00 – 12h30 - Oral Communications E

1. *Flash communication*

POTENTIAL ATTENUATION OF *Arcobacter butzleri* VIRULENCE BY PROBIOTICS

Alexandre Vieira, Cristiana Mateus, Fernanda Domingues, Mónica Oleastro, Susana Ferreira

2. *Flash communication*

A PORTRAIT OF THE VIRULENT POTENTIAL OF CANDIDA COLONIZATION: A COMPARATIVE STUDY OF ISOLATES FROM DIFFERENT HUMAN INFECTION NICHES

Filipa Oliveira Castro, Mariana Zagalo Fernandes, José Martinez-de-Oliveira, Ana Oliveira, Ana Palmeira-de-Oliveira, Ana Ferrrão, Paula Pestana, Joana Rolo

3. *Flash communication*

FROM DIFFERENT HUMAN INFECTION NICHES FROM SUBCLINICAL CIPROFLOXACIN CONCENTRATIONS TO INCREASED RESISTANCE: UNDERSTANDING THE EVOLUTIONARY PATHWAYS OF *Arcobacter butzleri*

Inês Martins, Alexandra Nunes, Mónica Oleastro, Susana Ferreira

12h30 – 14h00 – Lunch

14h00 – 15h00 – Poster Session II

15h00 – 16h00 - Oral Communications F

1. *Short communication*

TRADITIONAL KNOWLEDGE OF MEDICINAL AND FOOD PLANTS USED IN SERRA DA ESTRELA NATURAL PARK

Radhia Aitfella Lahlou, Filomena Carvalho, Alexandra Vargas, Maria João Pereira, João Lopes, Luís R. Silva

2. *Short communication*

REDUCTION OF OXIDATIVE STRESS AND IMPROVEMENT OF THE SURVIVAL RATE OF *Caenorhabditis elegans* BY USING BLACKBERRY EXTRACTS PREVIOUSLY INOCULATED WITH BACTERIAL BIOSTIMULANTS

Rocío Roca-Couso, José D. Flores-Félix, Begoña Ayuda-Durán, Rebeca Ferreras-Charro, Ignacio García-Estévez, Raúl Rivas

3. *Short communication*

PHYTOCHEMICAL COMPOSITION AND BIOACTIVITIES OF POLYPHENOLIC EXTRACTS OF *Prunus avium* L. BY-PRODUCTS

Ana R. Nunes, Ana C. Gonçalves, Amílcar Falcão, Gilberto Alves, Luís R. Silva

4. *Flash communication*

THE VALUE OF *Arbutus unedo* L. AS A BIOACTIVE INGREDIENT FOR SKIN APPLICATION: EXPLORING THE INTERREGIONAL VARIABILITY ACROSS NATIONAL TERRITORY

Pires CP, Oliveira AS, Gomes CP, Marengo, A, Rubiolo, P, Palmeira-de-Oliveira R, Palmeira-de-Oliveira A

16h00 – 16h30 – Ice Tea Break

Plenary Session VI

16h30 – 17h00 – *SQUARAIN CYANINE DYES AS PROBES FOR THE DETECTION OF HSA PROTEIN AND AS PHOTSENSITIZERS FOR PDT*

3DS-Drug Discovery, Development and Safety

Lucinda Reis, PhD

17h00 – 17h30 – Award Session and Closing Session