

3RD CIBB INNOVATIVE THERAPIES RETREAT

ONLINE EVENT

September 17, 2021

ORGANIZING COMMITTEE:
HUGO FERNANDES, IRINA MOREIRA, NUNO EMPADINHAS



CENTRE FOR INNOVATIVE
BIOMEDICINE
AND BIOTECHNOLOGY



CENTER FOR NEUROSCIENCE
AND CELL BIOLOGY
UNIVERSITY OF COIMBRA
PORTUGAL



Coimbra Institute
for Clinical
and Biomedical
Research

Dysbiotic ileum crypts | Credit: Mario Munoz-Pinto

PROGRAMME

9H00-9H10 OPENING SESSION

Hugo Fernandes, Irina Moreira, Nuno Empadinhas

9H10-10H15 SESSION 1 – MICROBES AND INFECTION
(CHAIRS: NUNO EMPADINHAS, ISaura SIMÕES)

“MICROSCOPY-BASED PHENOTYPIC PROFILING OF INFECTION BY *STAPHYLOCOCCUS AUREUS* CLINICAL ISOLATES REVEALS INTRACELLULAR LIFESTYLE AS A PREVALENT FEATURE”

Inês Rodrigues Lopes, Ricardo Silva, Frederic Laurent, Francois Vandenesch, Daniel Lopes, Miguel Mano, Ana Eulálio

“RICKETTSIAL SUBVERSION TACTICS TO ESCAPE HOST IMMUNE DEFENSES”

Pedro Curto, Andreia Barro, Bárbara Teixeira, Cátia Santa, Luísa Cortes, Bruno Manadas, Isaura Simões

“INFLUENCE OF THE PURINERGIC SYSTEM IN THE CONTEXT OF HOST-PATHOGEN INTERACTIONS”

Lisa Rodrigues, Mariana Afonso, Ana Catarina Almeida, Isabel M. Miranda, Geanne M. Andrade, José Roberto Meyer-Fernandes, Rodrigo A. Cunha, Teresa Gonçalves

“A NOVEL GLUCOSAMINE KINASE FAMILY HINTS ON A BIOSYNTHETIC PATHWAY FOR NOVEL SECONDARY METABOLITES WITH POTENTIAL ANTIBIOTIC ACTIVITY”

Daniela Nunes-Costa, José António Manso, Sandra Macedo-Ribeiro, Pedro José Barbosa Pereira, Nuno Empadinhas

“ACTIVITY OF H₂S-RELEASING COMPOUNDS IN BIOFILM FORMATION OF ANTIBIOTIC-RESISTANT *ACINETOBACTER BAUMANNII*”

Sérgio Mendes, Sofia Combo, Sara Domingues, Tiago Lima, Andre Buret, Gabriela Jorge Silva

10H15-11H15 SESSION 2 – ADVANCED THERAPIES
(CHAIRS: JOANA MOURÃO, JOÃO NUNO MOREIRA)

“DIVERDC - UNDERSTANDING DENDRITIC CELL DIVERSITY WITH DIRECT CELL REPROGRAMMING”

Luís Henriques-Oliveira, Abigail Altman, Fábio Rosa, Cristiana Pires, Carlos-Filipe Pereira

“INORGANIC AND SUPRAMOLECULAR CARRIERS FOR DRUG DELIVERY APPLICATIONS”

Luis M. Bimbo

“OMICs DATA AND DEEP LEARNING FOR DRUG COMBINATION SYNERGY PREDICTION”

António J. Preto, Pedro Matos-Filipe, Joana Mourão, Irina S. Moreira

Invited Speaker: José Leal, Ophiomics (Chair: Irina Moreira)

“DEVELOPING PRECISION MEDICINE SOLUTIONS BASED ON BIOINFORMATICS (AND GENOMICS)”

11h15-11h30 Coffee Break

11h30-12h30 SESSION 3 – TRANSLATIONAL ADVANCES
(CHAIRS: LUÍS PEREIRA DE ALMEIDA, MIGUEL MANO)

“Viral vectors for innovative therapies and “ViraVector”... everything you need to know!”
Rui Jorge Nobre, ViraVector@UC and CNC.

“THE ENHANCED EFFICACY OF DOXORUBICIN/C6-CERAMIDE LIPOSOMAL COMBINATION TARGETED TO NUCLEOLIN IS MECHANISTICALLY SUPPORTED BY THE DOWNREGULATION OF THE PI3K/AKT PATHWAY”
Ana F. Cruz, Mariana B. Caleiras, Nuno A. Fonseca, Nélio Gonçalves, Vera M. Mendes, Susana F. Sampaio, Vera Moura, Joana B. Melo, Ramiro D. Almeida, Bruno Manadas, Sérgio Simões, João Nuno Moreira

“GENOME-WIDE CRISPR SCREENING IDENTIFIES CELLULAR FACTORS CONTROLLING PRECISE GENOME EDITING MEDIATED BY HOMOLOGY-DIRECTED REPAIR”
Ricardo Jorge Silva, Roderick Beijersbergen, Miguel Mano

Invited Speaker: Sebastien Thuaud, Chief Editor Nature Aging (Chair: Hugo Fernandes)
“AN INTRODUCTION TO NATURE AGING”

12h30 Keynote lecture: Guy Villax, CEO Hovione (Chair: Lino Ferreira)

13h00 Closing Session – Lino Ferreira

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