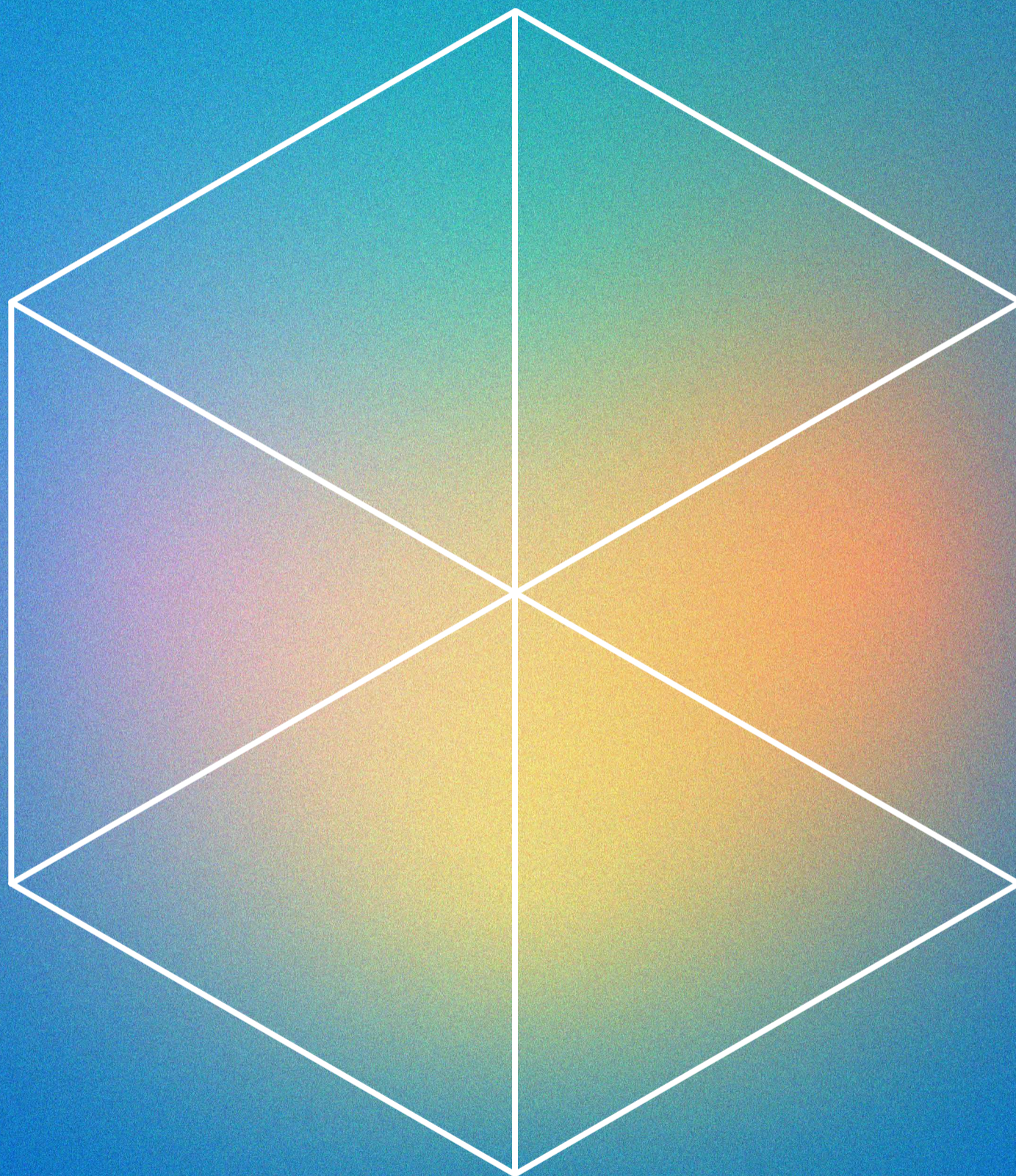


CiBB meeting 2024

December 20

Teatro Municipal da Lousã



CiBB is an FCT-funded R&D Unit (UIDB/04539/2020) and an Associate Laboratory (LA/P/0058/2020)

Program

December 20, 2024

Teatro Municipal da Lousã

8:30 - 9:20

Registration

9:20 - 9:30

Welcome Session

Luís Antunes/Henriqueta Silva (Câmara Municipal da Lousã)

9:30 - 10:00

What is CiBB - Past, Present and Future

Luís Pereira de Almeida (CiBB coordinator)

10:00 - 10:30

From Data to Discovery: Boosting Your Research with the New Platform for Bioinformatics & Data Analytics at CiBB

Matthias Futschik (CiBB Researcher)
Chair: Henrique Girão (iCBR-FMUC Director)

10:30 - 11:15

Coffee break & Graphical abstracts display

11:15 - 12:15

AAV gene therapy for GM1 gangliosidosis: From the bench to the clinical and beyond (Zoom session)

Miguel Sena-Esteves (Department of Neurology, UMass Chan Medical School)

12:15 - 13:00

CiBB Flash talks

AMPK activity limits mitochondria-endoplasmic reticulum contact sites | Pedro Dionísio (MAD area)

The RNA-binding protein hnRNPH2: a novel player in epileptogenesis | Rui Costa (ND area)

Contribution of purinergic signaling to fungal survival and persistence inside host cells | Lisa Rodrigues (IT area)

Regulation of metabolic rhythms by glial clocks | Catarina Carvalhas-Almeida (ND area)

Exploring the linking between mechanotransduction and mitochondrial metabolism in MASLD: Opportunities for therapeutic innovations | José Teixeira (MAD area)

Chairs: Ana Luisa Carvalho (ND area coordinator) & **Paulo Oliveira** (MAD area coordinator)

13:00 - 14:15

Lunch & Graphical abstracts display



14:15 - 15:00 **Align, act, accelerate - Research, technology & innovation to boost European competitiveness** (Zoom session)

Manuel Heitor (Horizon Europe Research & Innovation evaluation committee)

15:00 - 16:00 **Round table: “When AI walks into a bar” - Challenges and opportunities of AI in science and arts**

Moderator: Carlos Fiolhais (FCTUC) | **Participants: João Pedro Barreto** (ISR-UC & DEEC-UC), **Ricardo Kalash** (Teatro da Cerca S. Bernardo), **Carolina Cabaços** (FMUC & Projeto Desmente) & **Teresa Firmino** (Público)

16:00 - 16:30 **Coffee break & Graphical abstracts display**

16:30 - 17:30 **CiBB Flash talks**

Decoding the metabolic requirements for cDC1 reprogramming immunotherapy | Pedro Cunha (IT area)

Prolonged antibiotic treatment impacts the gut-brain axis | Emanuel Candeias (ND area)

Tumor-secreted ENPP1 modulates BBB dysfunction during early brain metastatic progression | Liliana Santos (MAD area)

Neuroprotective effects of fisetin and semaglutide against palmitic acid exposure in SH-SY5Y-derived neuronal-like cells | Debora Mena (HC area)

Identification of host microRNAs regulating the infection of macrophages by invasive and non-invasive Salmonella strains | Caio Franco (IT area)

Chairs: Bárbara Gomes (HC area coordinator) & **Lino Ferreira** (IT area coordinator)

17:30 - 18:00 **Closing session**

CiBB meeting 2024 Organizing Committee

18:00 - 19:30 **CiBB Social Gathering - Beer for Thought & Science Fair**

Musical performance with Carolina Cabaços (voice), **João Cabaços** (guitar) and **Ricardo T** (bass)

19:30 - 20:00 **Awards**

20:00 - 21:30 **Dinner**

21:30 - 00:00 **After-party @ MINA**



Graphical Abstracts

Type I TARPs regulate Kv7.2 potassium channels and susceptibility to seizures | Marina V. Rodrigues

Unravelling the effect of clinically transposable pattern recognition receptors agonists on dendritic cell activity in a clinically accepted culture medium | Ana Isabel Sebastião

The prevalence of diabetes, hypertension and obesity in Guinea-Bissau | Lilica Sanca

Dietary nitrate as a pivot on the gut microbiota-host redox communication | Bárbara Rocha

Unveil the signals bridging breast cancer and cardiovascular diseases | Maria Vasconcelos-Cardoso

Spinocerebellar Ataxia Type 3/Machado-Joseph Disease: characterization of a Portuguese-mainland cohort and biomarker discovery towards clinical trial readiness | Patrick Silva

Defective endocytosis triggers nuclear envelope abnormalities, DNA damage and cell senescence | Célia Aveleira

Exploring the Effects of Early Life Stress on Adolescent Behavior and mPFC Function: A Potential Role for Microglia in Sex-Specific Outcomes | Jéssica Costa

Science Fair

Scicomm in a wrap | CiBB Science Communication Office

UpCycling | GreenLabs CiBB

The Ageing Synapse | MemBRAIN & Synapse Architecture groups

The Pitchmas Tree | CiBB Tech Transfer Office

Vicarious rewards drive prosociality in rats | Neuronal Circuits of Social Behavior group

Ageing Factory | Organelle crosstalk group

GeneT: the sparkle of genes and vectors | Vectors, Gene and Cell Therapy group

TRESURE: Rewarding graduate students for implementing open science | Metaresearch to Improve Research Practice group

Decoding Life's Signals: immunometabolism and stress responses unveiled | Immunometabolism and Stress Responses group

Microbial seesaw - friends or indestructible foes? | Molecular Microbiology and Microbiome group

Wheel of Discoveries | Neuroendocrinology and Aging group

Organizing Committee

Ana Santos Carvalho (GeneT & CiBB), **Cláudia Pereira** (CNC-UC & CiBB), **Flávio Reis** (iCBR-FMUC & CiBB), **Filipe Rodrigues** (CNC-UC & CiBB), **Joana Ferreira** (MIA-Portugal & CiBB), **João Nuno Moreira** (CNC-UC & CiBB), **Luísa Cortes** (CNC-UC & CiBB) and **Sara Varela Amaral** (CNC-UC & CiBB)

Scientific Committee

Ana Paula Silva (iCBR-FMUC & CiBB), **Carlos Duarte** (CNC-UC & CiBB), **Hugo Fernandes** (MIA-Portugal & CiBB), **Matthias Futschik** (CNC-UC & CiBB), **Nuno Raimundo** (MIA-Portugal & CiBB), **John Jones** (CNC-UC & CiBB) and **Ana Duarte** (iCBR-FMUC & CiBB)

Design

Rita Félix (CNC-UC & CiBB)

Social Networks

Mariana Ricardo (CNC-UC & CiBB)

