

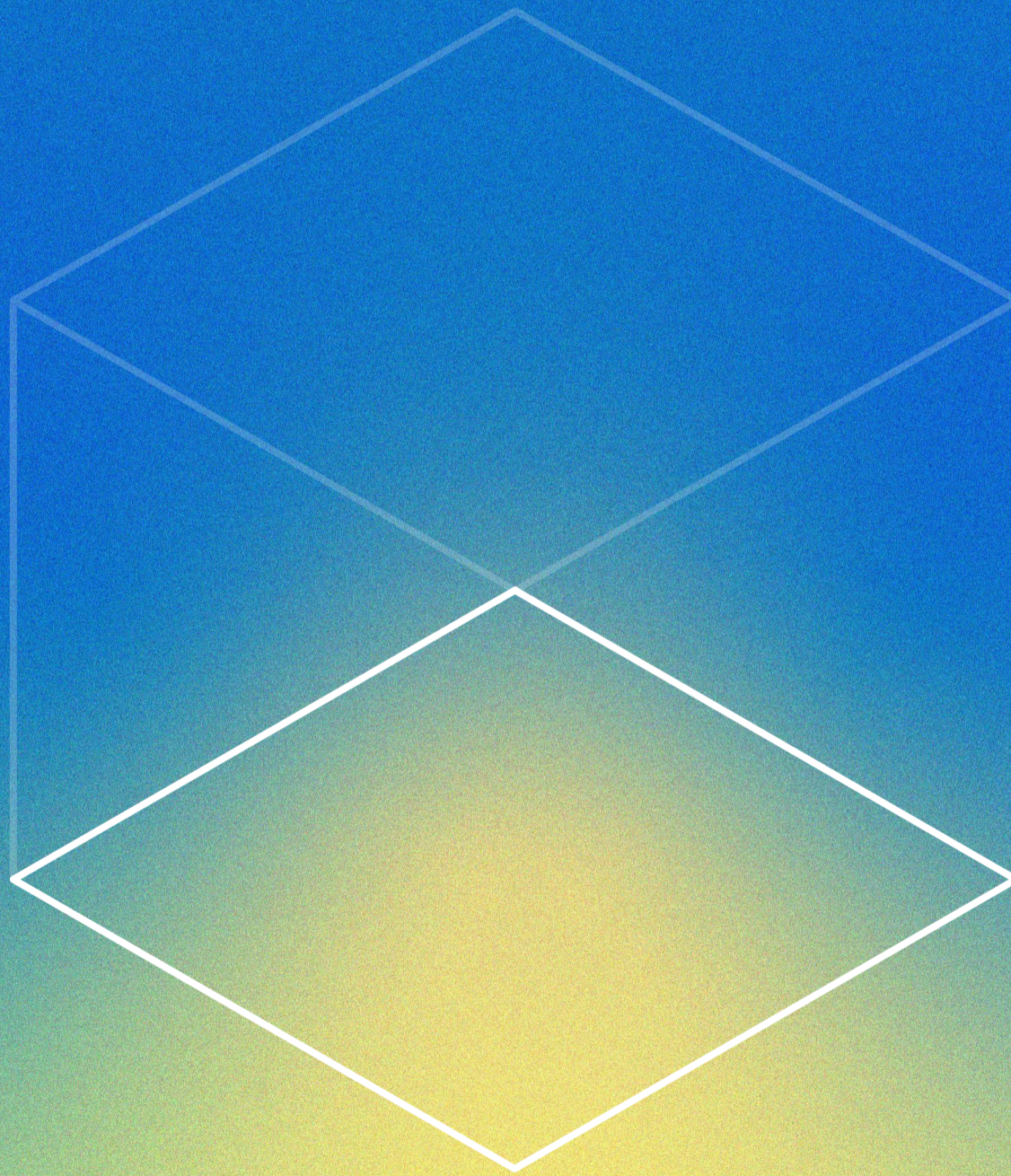
# V Metabolism, Aging & Disease Meeting

From prevention to personalized medicine: empowering the citizen

5th CiBB retreat

3-4 February, 2025

Subunit 3 of the Faculty of Medicine of the University of Coimbra (Polo III)



# Program 1/4

3 February, 2025

Subunit 3 of the Faculty of Medicine  
of the University of Coimbra (Polo III)

- 9:00 - 9:30**      **Registration and Board Meeting**  
Welcome participants & Networking | Coffee | Placement of Posters
- During the morning**      **Wellness/fitness – relaxing massage** Osteofit-Coimbra  
**Blood glucose screening**  
**Diabetes Knowledge Questionnaire**
- 9:30 - 10:00**      **Opening session**  
**Organizing committee member** (CiBB), **UC member** (UC), **FMUC member** (UC), **CiBB member** (CiBB), **Paulo Oliveira** (Coordinator of MAD Group, CiBB)
- 10.00 - 10:15**      **Unlock your mind!**  
**Sky Breath Break: Breathing and relaxation techniques**
- 10.15 - 10:25**      **PAS-GRAS Project**  
**Paulo Oliveira** (CiBB)
- 10:25 - 10:45**      Coffee break
- Session 1: Personalized Medicine (for various pathologies)**
- 10:45 - 11:15**      **Keynote Session 1 | Immunonutrition with biotics in early life**  
**Francisco Perez Cano** (Faculty of Pharmacy and Food Science, University of Barcelona)  
**Chairs: Filipe Palavra** (ULS Coimbra/CiBB) & **Flávio Reis** (CiBB)
- 11:15 - 11:55**      **Invited short communications**  
**Is physical activity an anti-aging strategy to prevent female reproductive decline?** | Maria Soares (CiBB)  
**New trends on nutraceutical therapy: blueberry byproducts for Multiple Sclerosis management** | Carolina Ferreira (CiBB)  
**Personalized Medicine and Surgery** | Marta Guimarães (ICBAS)  
**ENPP1 induces blood-brain barrier dysfunction and promotes brain metastasis formation in HER2+ breast cancer** | Lílíana Santos (CiBB)
- 11:55 - 12:05**      **Final round table discussion**
- 12:05 - 14:00**      Lunch

# Program 2/4

3 February, 2025

Subunit 3 of the Faculty of Medicine  
of the University of Coimbra (Polo III)

## Session 2: Early career research session

**14:00 - 14:30** **Keynote Session 2 | Bridging the Gap: from Academia to Medical Device Innovation**

Ana Tellechea (Gel4Med, Inc.)

Chairs: Rosa Fernandes (FMUC/CiBB) & Joana Barbosa de Melo (FMUC/CiBB)

**14:30 - 15:30** **Selected abstracts presentations**

**15.30 - 15:50** **Pathways to Innovation and Impact**

Inês Costa (GGI, FMUC)

Chairs: Paulo Matafome (CiBB)

**15.50 - 16:00** **Final round table discussion**

**16:00 - 16:20** Coffee break and Poster session

## Session 3: Ageing and Non-Communicable Disease

**16:20 - 16:50** **Keynote Session 3 | Exercise and Nutrition as Key Modulators of Lifelong Cardiometabolic Health**

Elisabet Børsheim (University of Arkansas for Medical Sciences)

Chairs: João Malva (FMUC/CiBB) & Manuel Teixeira Veríssimo (FMUC)

**16:50 - 17:20** **Invited short communications**

CoLAB4Ageing | Philipp Tsolakis (CoLAB4Ageing CEO)

To DUB or not to DUB, Cx43 (de)ubiquitination orchestrates macrophages adhesion to endothelial cells | Teresa Ribeiro Rodrigues (CiBB)

Lysosomes go nuclear | Neuza Domingues (CiBB)

**17:20 - 17:30** **Final round table discussion**

**17:30 - 17:45** **Tribute to Professor Vitor Madeira**

**17:45 - 18:00** **Performance by Tuna de Farmácia de Coimbra - Phartuna**

# Program 3/4

4 February, 2025

Subunit 3 of the Faculty of Medicine  
of the University of Coimbra (Polo III)

9:15 - 9:30

## Unlock your mind!

Sky Breath Break: Breathing and relaxation techniques

## Session 4: Mental Health & Metabolism

9:30 - 10:00

### Keynote Session 4 | Mental health and Metabolism

Graça Pereira (University of Minho)

Chairs: Ana Paula Silva (FMUC/CiBB) & António Macedo (ULS Coimbra/FMUC)

10:00 - 10:30

### Invited short communications

Immunity and inflammation in early psychosis: the role of IL-17 | Nuno Madeira (ULS Coimbra)

Methylphenidate effect on retinal on cells: insights from cellular and animal studies | Eliane Swely (FMUC/CiBB)

Mitochondria-mediated alterations in patient-derived cellular models of Schizophrenia | Rosa Resende (CiBB)

10:30 - 10:40

### Final round table discussion

10:40 - 11:00

Coffee break and Poster session

## Session 5: Immunomodulation & Immunometabolism

11:00 - 11:30

### Keynote Session 5 | Immune regulation in health and disease

Luís Graça (Gulbenkian Institute for Molecular Medicine)

Chairs: Manuela Ferreira (CiBB) & Frederico Regateiro (CiBB)

11:30 - 12:00

### Invited short communications

The origins of immunomodulation: from the uterine immune environment to the immune dynamics of pregnancy | Catarina Martins (Nova Medical School, UNL)

How micronutrients shape unconventional T cells | Júlio Torres (CiBB)

Two different immune profiles are identified in sentinel lymph nodes of early-stage breast cancer | Joana Ribeiro (CiBB)

12:00 - 12:10

### Final round table discussion

12:10 - 14:00

Lunch

# Program 4/4

4 February, 2025

Subunit 3 of the Faculty of Medicine  
of the University of Coimbra (Polo III)

## Session 6: Tools & Technologies

### 14:00 - 14:30 **Keynote Session 6 | Machines and the future of Man**

**Carlos Fiolhais** (FCTUC)

**Chairs: Bárbara Oliveiros** (FMUC/CiBB) & **Filipe Caseiro Alves** (FMUC)

### 14:30 - 15:00 **Invited short communications**

**Machine learning in search of neurodegeneration biomarkers** | Pedro Guimarães (FMUC)

**AI in the Node: Predicting Cellular Composition of SLNs Through Neural Networks**

| Joana Ribeiro (FMUC/CiBB)

**What determines sensitivity and specificity in peroxiredoxin-mediated redox relays?**

| Armindo Salvador (CiBB)

### 15:00 - 15:10 **Final round table discussion**

### 15:10 - 15:30 **Coffee break**

## Session 7: Literacy, Ethics and Policy

### 15:30 - 16:00 **Keynote Session 7 | Ethical Challenges in Research**

**Ana Sofia Carvalho** (University of Porto)

**Chairs: Margarida Silvestre** (FMUC/CiBB) & **Carla Barbosa** (UCILeR, FDUC)

### 16:00 - 16:20 **Measuring Health Literacy**

**Pedro Lopes Ferreira** (CEISUC/CiBB)

### 16:20 - 16:40 **The Role of the Civil Society in Literacy and Capacitation, locally and in Africa**

**Round table: Patrícia Maridalho** (VIDA), **Madalena Ortigão** (HELPO)  
& **Sérgio Nascimento**

### 16:40 - 17:00 **Awards and Closing**

### 17:00 - 17:30 **Musical moment and Testimonial**

**Sérgio Nascimento**