



11th to 12th | November 2022

Escola Superior de Tecnologia da Saúde do Politécnico de Coimbra
Rua 5 de Outubro, 3046-854 Coimbra (Latitude 40°11'52.6"N | Longitude 8°27'39.5"W.)

KEY DATES

- Early bird – 31st July
- September 30th – Abstract(s) submission deadline
- October 10th – Notification of acceptance
- **October 17th** – Deadline for registration with reduced fee

FEES

Include access to all conferences, round tables, lectures, special sessions and exhibition area; access to coffee breaks and work lunch.

The society dinner is not included in the meeting registration fee.

| | Until July 31 st | Until October 12 th | After October 17 th |
|-----------------------|--------------------------------|-----------------------------------|-----------------------------------|
| SPFis student member* | 0 € | 25 € | 50 € |
| SPFis regular member | 50 € | 65 € | 100 € |
| Student non-member** | 50 € | 75 € | 100 € |
| Non-member | 75 € | 120 € | 150 € |

* only for current members; proof of student status is mandatory

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Other Sponsors



THE PORTUGUESE PHYSIOLOGICAL SOCIETY

2nd INTERNATIONAL MEETING

Institutional science partners



Principal Donators and Sponsors



ABSTRACT SUBMISSION TOPICS

- Neurophysiology
- Locomotion / Exercise / Muscle / Active Living
- Heart, Circulation and Respiration
- Renal and Urinary physiology
- Gastrointestinal physiology
- Endocrine, Reproduction and Development
- Skin Physiology
- Integrative physiology
- Methods and Models
- Education
- Other (miscellaneous)

OTHER INFORMATION

Abstract submission deadline SEPTEMBER 30th **exclusively ONLINE**.
Accepted abstracts will be published in an open access abstract book (*e-book with a DOI*).
Only accepted abstracts from registered authors will be published.
The organization will decide the presentation form for each submission.

Two Special Topics related to this meeting are being edited by **Frontiers in Physiology**:
“Physiological education: preparing for the future”
<https://www.frontiersin.org/research-topics/45000/physiological-education-preparing-for-the-future>

“Emerging topics in human physiology”
<https://www.frontiersin.org/research-topics/44998/emerging-topics-in-human-physiology>

AWARDS AND DISTINCTIONS

Best Science Award - meant to distinguish innovation and societal impact in physiology education and research - by Physiologia from MDPI

The Young Scientist Travel Award is supporting four young scientists attending the meeting as authors – by the Journal of Physiology (*check how to apply*)

ORGANIZATION AND SCIENTIFIC COORDINATION

Sofia Fernandes
SPF Board, CBIOS U Lusófona

Adelino Leite Moreira
Dep. Surgery and Physiology, FM U Porto

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SPF Board, CBIOS U Lusófona

Telmo Pereira
ESTeSC, LABINSAUDE IP Coimbra

FINAL PROGRAM

Friday November 11th

08:45

Welcome, Registration

09:45-12:30

Workshop 1 "Exploring biosignals using BITalino" (pre registering required) by **PLUX**

11:00-12:30

Workshop 2 "new tools to explore hypoxia" (pre registering required) by **TypeSolution**

14:00-14:30

Opening session with the presence and interventions of:
H.Ex. The President of the Instituto Politécnico de Coimbra and the Director of the Escola Superior de Tecnologia da Saúde
H.Ex. The Minister of Ciência, Tecnologia e Ensino Superior (represented)
H.Ex. Susan Wray, Int Union Physiological Societies and Federation of European Physiological Societies (FEPS) President
L. Monteiro Rodrigues, Chairman of SPFIS

14:30-15:30

Invited Lectures

"Physiology in EUROPE" - Susan Wray (UK) FEPS and IUPS President
"New strategic direction in the US to improve physiology teaching and learning" - Erica Werhwein (USA) PMIG Director
Break - visit to exhibitors and posters

16:30-18:00

Seminar I Teaching Physiology

Moderators: Vicente Martinez Perea -The Spanish Physiological Society and Carlos Nunes Filipe - Nova Medical School

"Human Physiology in the Portuguese higher education system – a current view" L. Monteiro Rodrigues et al., CBIOS Lisboa, U.Lusofona
"Clinical Physiology in Portugal – a recent history" Telmo Pereira, ESTeSC, I.P.Coimbra

"Novel pedagogical tools in the teaching of medical physiology – is new always better?" Diogo Santos Ferreira, Dep. Surgery and Surgery & UnIC@RISE, Fac. Medicine, U.Porto

"Human vs. machine learning: enhancing student metacognition via the active learning of physiology" Jorge Ascensão Oliveira, Dep Pharmacology, Fac. Pharmacy-U.Porto

"Implementation of physiology and pathophysiology teaching in a novel Portuguese undergraduate medical curriculum" André Leite-Moreira, U.Aveiro Dep Medical Sciences

Round table and open discussion

18:00

Closure

20:00

Society Meeting Dinner (business dress)

FINAL PROGRAM

Saturday November 12th

09:00-11:00 **Seminar II *Who What Where*** – Show room of Physiological research in Portugal Short presentations from representative national labs: BioISI FCUL ; CBIOS ULusofona; CIAFEL | FADEUP ; CIDESD | UTAD; DCF FMUP; IBEB FCUL; ICBAS MedInUP; iCBR FMUC; IF CCUL FMUL; IF FMUC; NOVA FCMUNL; IT-IST UL; LABINSAUDE IPC

Break - visit to exhibitors and posters

12:00-12:30 **Wrap-up**
Moderator: Adelino Leite-Moreira, DCF Fac. Medicine U.Porto

12:30 Lunch break

13:00 **SPF General Assembly**
Election of the new board 2022-2025

14:30-16:30 **Podium Session - Selected podium presentations**
Moderators: Ana Sofia Fernandes, CBIOS ULusofona and Telmo Pereira, ESTeSC IPC

Neurophysiology

CL (21493) - VPAC1 and VPAC2 receptors are opposingly altered in the Li2+-pilocarpine model of temporal lobe epilepsy. – [Marta Bento et.al](#)

1 - Departamento de Química e Bioquímica, and 2-Biosystems & Integrative Sciences Institute (BioISI), Faculdade de Ciências da Universidade de Lisboa, Lisboa, Portugal.

CL (21505) - β -adrenoceptor antagonists affect the establishment of traumatic memories and anxiety-like behaviour in a post-traumatic stress disorder mice model – [Rafaela Seixas et.al](#)

1 - Department of Immuno-Physiology and Pharmacology, Laboratory of General Physiology, School of Medicine and Biomedical Sciences (ICBAS), University of Porto (UP); 2 - Center for Drug Discovery and Innovative Medicines, University of Porto (MedInUP); 3 - Department of Biomedicine, Faculty of Medicine, University of Porto (FMUP)

Podium sessions

Selected presentations

(cont) **CL (21507) - Contextual fear memory impairment in adrenaline-deficient mice may be related to downregulation of the M4 muscarinic receptor subtype in the hippocampus**– [Ana Oliveira et.al](#)
1 - Department of Immuno-Physiology and Pharmacology, Laboratory of General Physiology, School of Medicine and Biomedical Sciences (ICBAS), University of Porto (UP); 2 - Center for Drug Discovery and Innovative Medicines, University of Porto (MedInUP);; 3 - Institute for Molecular and Cell Biology (IBMC), Institute for Research & Innovation in Health (I3S), University of Porto

Integrated - Metabolism

CL (21433) - WWOX inhibition by Zfra1-31 ameliorates brain mitochondrial dysfunction and oxidative stress in a mouse model of type 2 diabetes– [Cristina Carvalho et.al](#)

1 - Center for Neuroscience and Cell Biology (CNC), University of Coimbra, Portugal; 2 - Institute for Interdisciplinary Research (III), University of Coimbra; 3 - Center for Innovation in Biomedicine and Biotechnology (CIBB); 4 - PhD Program in Experimental Biology and Biomedicine (PDBEB), University of Coimbra, 3030-789 Coimbra, Portugal; 5 - Institute of Physiology, Faculty of Medicine, University of Coimbra, Coimbra, Portugal

CL (21595) - Methylglyoxal and high fat diet negatively impact perivascular adipose tissue contributing to vascular dysfunction in rat models of metabolic syndrome - [Adriana Malheiro et.al](#)

1 - Institute of Physiology, iCBR, Faculty of Medicine, University of Coimbra, Portugal

CL (21495) - Physiology of body composition – how do vegetarians and omnivores differ? - [Cíntia Ferreira-Pêgo et.al](#)

1 - CBIOS – Universidade Lusófona's Research Center for Biosciences & Health Technologies

CL (21500) - Long-term management of metabolic diseases after bariatric surgery - [Cláudia Amaro Dos Santos et.al](#)

1 - CBIOS

Podium sessions

Selected presentations

- (cont)**
- Integrated - Cardiovascular**
- CL (21631) - Ketones impact on cardiac outcomes in a rat model of HFpEF** – [Alexandre Gonçalves](#) *et.al*
1 - Faculdade de Medicina da Universidade do Porto (FMUP); 2 - Instituto de Ciências Nucleares Aplicadas à Saúde; 3 - Instituto de Investigação Clínica e Biomédica de Coimbra (iCBR); 4 - University Hospital Würzburg
- CL (21437) - Therapeutic implications of urocortin-2 in Heart Failure with preserved Ejection Fraction** - [Inês Vasconcelos](#) *et.al*
1 - Faculty of Medicine University of Porto, UnIC-RISE, Department of Surgery and Physiology, Porto, Portugal; 2 - Faculty of Nutrition and Food Sciences, University of Porto, Porto, Portugal
- CL (21503) - Cardiac stretch-induced compliance is impaired in a rat model of heart failure with preserved ejection fraction** - [André Leite Moreira](#) *et.al*
1 - Faculdade de Medicina da Universidade do Porto; 2 - UnIC @ RISE; 3 - Centro Hospitalar Universitário São João
- CL (21644) - Muscle reoxygenation kinetics during six different variations of push-up exercise** - [Andreia Teixeira](#) *et.al*
1 - University of Trás-os-Montes e Alto Douro, Vila Real, Portugal; 2 - Department of Sports Science, Exercise and Health; 3 - Research Center in Sports Sciences, Health Sciences and Human Development (CIDESD), Vila Real, Portugal
- CL (21659) - SALUS - an IoT wearable device for the assessment of cardiovascular health-** [João Brito](#) *et.al*
1 - Instituto de Biofísica e Engenharia Biomédica, Faculdade de Ciências da Universidade de Lisboa; 2 - Unidade de Sincope, Cardiologia, Hospital de Santa Marta, Centro Hospitalar e Universitário de Lisboa Central; 3 - Medicina 2.4 Núcleo de Investigação Arterial, Centro Hospitalar e Universitário de Lisboa Central, NOVA Medical School
- Discussion**

Break - visit to exhibitors and posters

17:15 Awards and Distinctions

18:00 Wrap-up and Closing Remarks. Closing Champagne toast



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