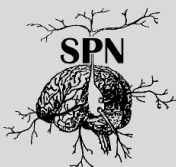


European Calcium Society  
8<sup>th</sup> Workshop

# Calcium signaling in **Aging** and **Neurodegenerative** Diseases

18-20 September 2019

Coimbra | **Portugal**



SOCIEDADE PORTUGUESA  
DE NEUROCIÊNCIAS



# WHAT

8<sup>th</sup> ECS WORKSHOP ON  
**CALCIUM SIGNALING IN AGING AND  
NEURODEGENERATIVE DISEASES**



**100**  
participants

# WHEN

18 – 20<sup>th</sup> September 2019

# WHERE

Coimbra Tryp Hotel  
Coimbra, Portugal

# OVERVIEW

Dear colleagues and friends,

The organizing committee is pleased to welcome you at the 8<sup>th</sup> Workshop of the European Calcium Society (ECS): **"Cell Signaling in Aging and Neurodegenerative Diseases"**.

An exciting meeting with a multifaceted and highly interesting scientific program was prepared to create a unique opportunity to meet and discuss the latest research advances in understanding calcium signalling in the brain underlying aging and neurodegenerative disorders.

The scientific program is structured into four tracks dedicated to synaptic calcium, mitochondrial and endoplasmic reticulum calcium, calcium signaling in glia and stem cells and a special session dedicated to technological innovations in calcium imaging, which will be followed by a hands-on session, for interested participants.

These sessions will be complemented by two poster parties where we expect ample discussion between young and experienced researchers. Short oral presentations will be selected from submitted abstracts.

ECS and local organizers would like to encourage young scientists in the calcium fields to submit their abstracts and present their latest work.

We look very much forward to welcoming all of you in Coimbra!

# ORGANIZERS



## Cláudia Pereira

Faculty of Medicine  
Center for Neuroscience and Cell Biology  
University of Coimbra

✉ [claudia.mf.pereira@gmail.com](mailto:claudia.mf.pereira@gmail.com)



## Cristina Rego

Faculty of Medicine  
Center for Neuroscience and Cell Biology  
University of Coimbra

✉ [arego@fmed.uc.pt](mailto:arego@fmed.uc.pt)



## Luisa Cortes

Center for Neuroscience and Cell Biology  
University of Coimbra

✉ [lcortes@cnc.uc.pt](mailto:lcortes@cnc.uc.pt)



## João Malva

Faculty of Medicine  
University of Coimbra

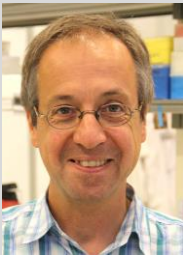
✉ [jomalva@fmed.uc.pt](mailto:jomalva@fmed.uc.pt)

# SCIENTIFIC COMMITTEE



**Amanda Sierra**

Achucarro Basque Center for Neuroscience  
University of the Basque Country  
Spain



**Carlos B. Duarte**

Department of Health and Life Science  
Center for Neuroscience and Cell Biology  
University of Coimbra  
Portugal



**Carlos Villalobos**

Spanish National Research Council - CSIC  
Spain



**Catarina Resende de Oliveira**

Faculty of Medicine  
Center for Neuroscience and Cell Biology  
University of Coimbra  
Portugal



**Jan B. Parys**

Laboratory of Molecular and Cellular Signaling  
Department of Cellular and Molecular Medicine  
KU Leuven  
Belgium



**Rodrigo Cunha**

Faculty of Medicine  
Center for Neuroscience and Cell Biology  
University of Coimbra  
Portugal

# INVITED SPEAKERS



## Plenary Conference

**Giles E. Hardingham**

The University of Edinburgh  
United Kingdom



**Ana Sebastião**

Faculty of Medicine  
IMM  
Portugal



**Antonio Garcia**

Universidad Autónoma  
de Madrid  
Spain



**Carlos Villalobos**

Spanish National  
Research Council - CSIC  
Spain



**Grace Stutzmann**

Rosalind Franklin  
University  
USA



**Catherine Leclerc**

Center for Integrative  
Biology  
France



**J Kuźnicki**

Int. Institute of Molecular  
and Cell Biology  
Poland



# INVITED SPEAKERS



**Javier García-Sancho**  
University of Valladolid  
Spain



**João Relvas**  
University of Porto  
Portugal



**Leopoldo Petreanu**  
Champalimaud Foundation  
Portugal



**Maria Ankarcrona**  
Karoliska Institute  
Sweden



**Martin Lauritzen**  
University of Copenhagen  
Denmark



**Michael Duchen**  
University College  
London  
United Kingdom



**Olga Corti**  
Brain and Spine  
Institute  
France



**Paola Pizzo**  
University of Padova  
Italy

# PROGRAM

## WEDNESDAY

14:00 Introduction and welcome

14:30 **Symposium 1: *Synaptic calcium***

Chairs: Giles E. Hardingham & Rodrigo Cunha

Grace Stutzmann (USA): Early pathogenic calcium signaling cascades in Alzheimer's disease

Ana Sebastião (Portugal): Modulation of synaptic activity and astrocytic calcium signaling by cannabinoids

Antonio Garcia (Spain): Altered calcium handling and exocytosis in chromaffin cells from mouse models of neurodegenerative diseases

16:30 Coffee break and poster session

18:00 **Plenary Conference:** Giles E. Hardingham (UK)

19:00 Welcome cocktail

## THURSDAY

8:30 **Symposium 2: *Mitochondrial calcium***

Chairs: Ana Cristina Rego & Catarina Oliveira

Michael Duchen (UK): Linking mitochondrial dysfunction to neurodegeneration: Impaired mitochondrial bioenergetic capacity sensitises neurons to calcium overload

Maria Ankarcrona (Sweden): TOM70: a new player regulating Ca<sup>2+</sup>-transfer at the endoplasmic reticulum-mitochondria signaling platform

Olga Corti (France): Mechanisms underlying regulation of mitochondrial quality by the PINK1/Parkin pathway and consequence of their dysfunction

10:30 Coffee break

11:00 Oral Communications Session 1

13:00 Lunch and poster session

14:00 **Symposium 3: *ER calcium***

Chairs: Cláudia Pereira & Jan B. Parys

Jacek Kuznicki (Poland): Calcium signaling in zebrafish and mice models of neurodegeneration

Carlos Villalobos (Spain): Calcium remodeling in aging and AD

Paola Pizzo (Italy): Multiple effects of Presenilin 2 on intracellular Ca<sup>2+</sup> handling: functional consequences for neurodegeneration

16:00 Coffee break

16:30 Oral Communications Session 2

18:00 Social event: Visit to University of Coimbra

20:00 Conference dinner



# PROGRAM

## FRIDAY

8:30 **Symposium 4: *Calcium in glia and stem cells***

Chairs: João Malva & Amanda Sierra

Martin Lauritzen (Denmark): Calcium-dependent mechanisms of cerebral blood flow regulation

João Relvas (Portugal): TBA

Catherine Leclerc (France): Calcium-dependent signaling in glioblastoma stem-like cells

10:30 Coffee break

11:00 **Symposium 5: *Technical approaches on calcium imaging***

Chairs: Luísa Cortes & Carlos Villalobos

Leopoldo Petreanu (Portugal): Shining light on hierarchical cortical interactions

Javier García-Sancho (Spain): GAP, flies, sarcoplasmic reticulum and aging

12:30 Final remarks

12:45-13:30 ECS General Assembly

### ***Optional:***

14:00-18:00 Hands-on on microscopy calcium imaging  
@ Microscopy Imaging Center of Coimbra  
University of Coimbra-polo I

# WEBSITE

[WWW.8THWORKSHOPECS.COM](http://WWW.8THWORKSHOPECS.COM)

# ABSTRACT INFORMATION

## ABSTRACT

Abstracts have to be uploaded on the workshop registration form, using the template provided (1 page).

Each registered participant is allowed to submit one abstract.

## POSTER

Posters should be prepared in portrait format (width maximally 1m00, height maximally 1m60).

Posters will have to be set-up the first day of the meeting before the opening session (i.e. directly after registration) and will remain on display until the end of the poster session on Friday afternoon. Fixation material for the posters will be available.

Posters will be on display during the complete meeting with ample time for discussion.

Importantly, all posters have to be removed on the Friday, before the start of Session 5.

## ORAL COMMUNICATIONS

Although most presentations will be by posters, a fair amount of the submitted abstracts will be selected for oral presentations.

Oral presentations will last 10 min + 5 min discussion time. To stimulate presentation of novel work, at least half of the slots for oral communications will be attributed to junior researchers.

Selection of the abstracts for oral communication will be announced at least one month before the start of the workshop.

# IJMS SPECIAL ISSUE

Participants to the ECS workshop are invited to submit a review or research paper on the topic to our dedicated **special issue of International Journal of Molecular Sciences**, an open access journal.

For more information please visit:

[https://www.mdpi.com/journal/ijms/special\\_issues/Ca\\_Signaling\\_Aging\\_Neurodegener](https://www.mdpi.com/journal/ijms/special_issues/Ca_Signaling_Aging_Neurodegener)

# REGISTRATION

## Early-bird Registration

Early registration fee apply to all registrations with proper payments received **before June 30th**. Only after payment your registration becomes effective.

## Registration Deadline

Deadline for registration and abstract submission is **July 31st**.

**NOTE:** Please note that if the maximal amount of participants is reached earlier (max. 100), the Organizers have the right to close registration ahead of time.

Registration fees for participants include in all cases: attendance to the workshop, lunch (Thursday), all coffee breaks, welcome cocktail (Wednesday) and gala dinner (Thursday).

Registration Fee			
		Early-bird (until June 30th)	Regular (until July 31st)
ECS member*	Student**	150 €	175 €
	Academic	250 €	300 €
NON-ECS member	Student**	225 €	250 €
	Academic	325 €	375 €
Hands-on Calcium imaging	All	25 €	30 €

\*Interested scientists are always welcome to join the ECS. This can be done by filling the membership form available at:  
<https://gbiomed.kuleuven.be/apps/lmcs/ecs/society/membership/membership.php>

\*\*are considered students those working towards a Master/Ph.D. degree and holder of a valid student card delivered by an academic institution.

## Cancellation Policy

Payment is expected to be performed as soon as possible after registration. An official receipt will be issued as proof of registration once the payment has been credited on our account, which typically takes about one week.

Cancelations are possible until closure of the registrations. Reimbursement can be asked, however limited to an administrative fee of €50 (before July 15th) or €100 (after July 15th) deducted from the amount.

# VENUE

## COIMBRA



City of the students and a World Heritage Site, Coimbra is a unique city and has great historical heritage. Here were born six kings of Portugal and the first university in the country, one of the oldest in Europe. When visiting the city you can find monuments and historical treasures, the vibrant Mondego river and the Fado sung by the singers of the region.



The workshop will be held at the Hotel Tryp Coimbra, located on one of the hills of the city of Coimbra, and only 15 minutes walking from the famous University. The Hotel Tryp Coimbra has dedicated spaces for meetings and events, combined with easy access, and parking.

WiFi connection is available to all participants.

# TRAVELING TO COIMBRA

Coimbra is located in central Portugal, 120 km south of Porto, 195 km north of Lisbon. One of Portugal's biggest crossroads, Coimbra is served by multiple transportation methods.

## Airport

Those travelling from outside Portugal will probably fly to Lisbon or Porto, although Faro could also be an option. Good train/shuttle connections to Coimbra are readily available

## Train

Rail travel from both Lisbon and Porto is regular, fast and reliable provided you take the Alfa Pendular or Intercidades

## Shuttle Services

Coimbra Airport Shuttle operates a door-to-door shared transfer between Lisbon (36€)/Porto (29€) airport and Coimbra

## BUS / Taxi

Coimbra is served by the A1, the main highway of Portugal, arrival by Taxi, or BUS - Rede Expressos, is also convenient and fast.

