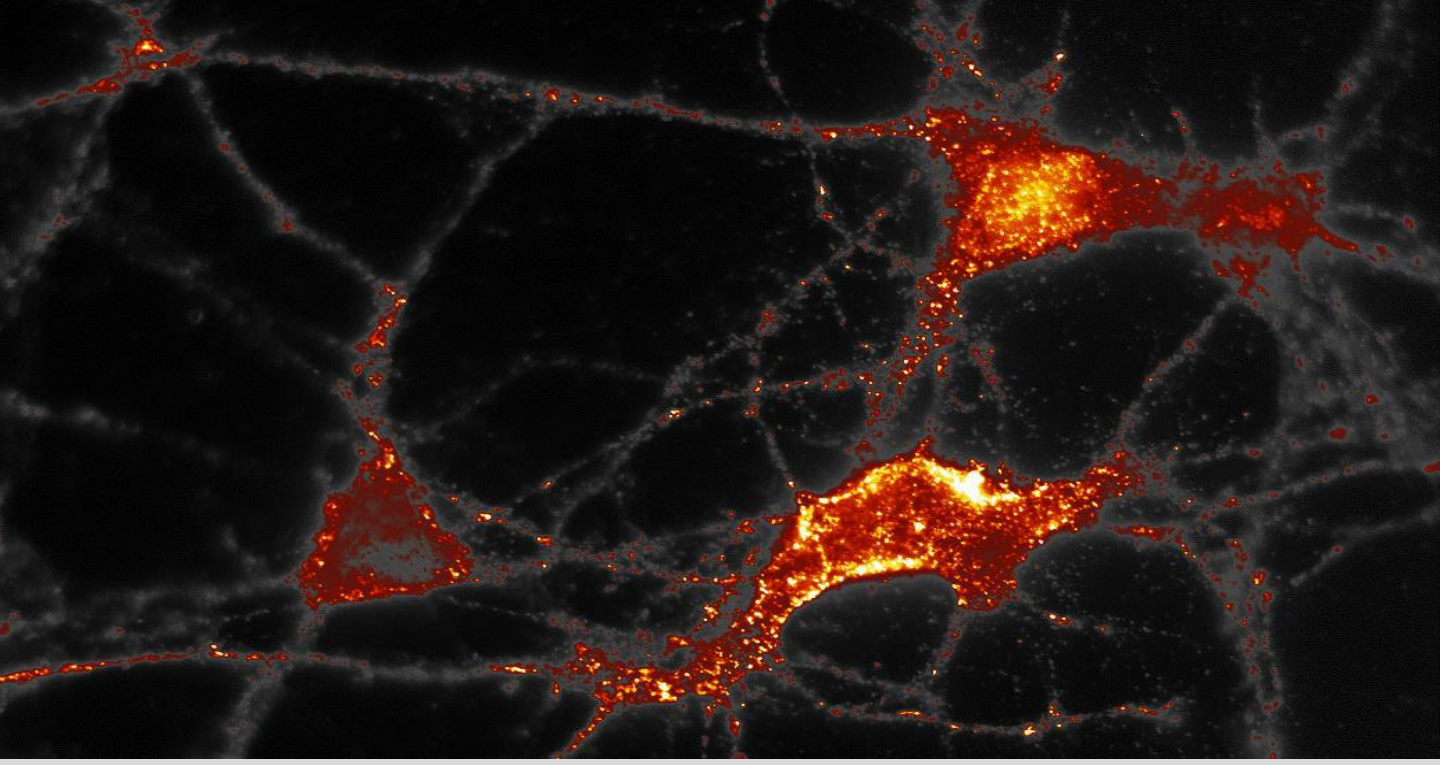


European Calcium Society

8th Workshop

Calcium Signaling in Aging and Neurodegenerative Diseases

18-20 September 2019

Coimbra | Portugal

european calcium society

SPN

SOCIEDADE PORTUGUESA DE NEUROCIÊNCIAS

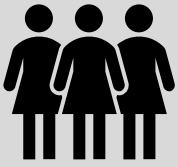
FACULDADE DE MEDICINA UNIVERSIDADE D COIMBRA

CENTER FOR NEUROSCIENCE AND CELL BIOLOGY
UNIVERSITY OF COIMBRA
PORTUGAL

WHAT

8th ECS WORKSHOP ON

CALCIUM SIGNALING IN AGING AND NEURODEGENERATIVE DISEASES



100

participants

WHEN

18 – 20th September 2019

WHERE

Coimbra Tryp Hotel

Coimbra, Portugal

OVERVIEW

Dear colleagues and friends,

The organizing committee is pleased to welcome you at the 8th 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

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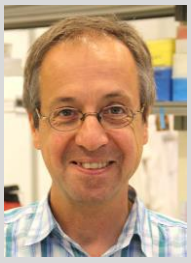
SCIENTIFIC COMMITTEE

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

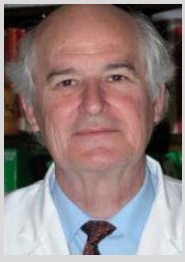
Plenary Conference

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

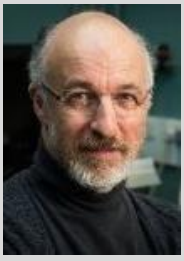
Javier García-Sancho
University of Valladolid
Spain

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 Ca2+-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 Ca2+ 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

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

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

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 y 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.