School

The School of Pharmacology "Teófilo Hernando" was initiated in 1996 in the frame of the summer courses of the "Universidad Internacional Menéndez Pelayo" (UIMP), held at the magnificent Palace of La Magdalena, in Santander, North of Spain, at the Cantabric seaside. The School was named after Teófilo Hernando who at the beginning of the XX century was trained in Strassbourg under Osswald Schmiedeberg and introduced Pharmacology in the Spanish university as an academic and scientific subject.

The XI edition of the summer School of Pharmacology "Teófilo Hernando" is devoted to the topic of finding new concepts and strategies to protect the vulnerable neurons of neurodegenerative diseases (Alzheimer, Parkinson, Huntington, amiotrophic lateral sclerosis, frontotemporal lobar dementia), stroke and brain/spinal cord trauma. These appalling disorders constitute a devastating problem for patients, their families and society in general. Population aging is increasing in developed countries and so will be the incidence and prevalence of some neurodegenerative diseases and stroke in which aging is a relevant risk factor. These diseases constitute a huge economical burden and loss of quality of life of patients and caregivers.

School

In spite of enormous investments in research and development done by goverments and pharmaceutical companies for the last three decades, a neuroprotective medicine to delay progression of neurodegenerative diseases, or to mitigate the dramatic neurological sequelae of stroke and brain/spinal cord trauma, has not been found. Therefore, many therapeutic approaches and the identification of new ligand targets are clearly needed. New unconventional ideas away from established thinking are clearly needed. The actual search of such new approaches will be the subject of the XI School of Pharmacology "Teófilo Hernando", that is jointly organised by Professor Michael Duchen (University College London, UK) and Professor Antonio G. García (Autonomous University of Madrid, Spain) and is devoted to the topic of understanding the mechanisms driving brain injury, including neurodegenerative diseases, stroke and brain/spinal cord trauma, and exploring new concepts and strategies to rescue from death the vulnerable neurons of such diseases.

Professors will deliver their lectures followed by extensive colloquia during the morning sessions. Young researchers will present selected scientific articles and/or their own work in the subject of the School, during the afternoon sessions, either orally or in the form of posters. We expect gathering together about 10 scientists experts in the field and 30-40 students from Europe and abroad.

www.uimp.es

INFORMACIÓN GENERAL

→ Santander
Campus de Las Llamas
Avda. de los Castros, 42
39005 Santander
T 942 29 87 00 / 942 29 87 10
F 942 29 87 27

→ Madrid
C/ Isaac Peral, 23
28040 Madrid
T 91 592 06 31 / 91 592 06 33
F 91 592 06 40 / 91 543 08 97
alumnos@uimp.es

→ Horario
de 9:00 a 14:00 h
de 16:00 a 18:00 h
(excepto viernes)

→ Plazo de solicitud de becas
Del 23 de abril
al 25 de mayo de 2012

→ Apertura de matrícula
Desde el 23 de abril de 2012
hasta completar plazas
(Plazas limitadas)

→ A partir del 18 de junio de 2012
Palacio de la Magdalena
39005 Santander
T 942 29 88 00 / 942 29 88 10
F 942 29 88 20

→ Horario
de 9:00 a 14:00 h
de 15:30 a 18:00 h
(excepto viernes)

Transporte oficial
IBERIA

→ Código 61b7 | Tarifa A

Colaboración

Fundación Teófilo Hernando

Instituto Teófilo Hernando

GOBIERNO DE ESPAÑA · MINISTERIO DE EDUCACIÓN, CULTURA Y DEPORTE

UIMP Universidad Internacional Menéndez Pelayo

Santander / 2012
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→ Escuela

SCHOOL OF PHARMACOLOGY «TEÓFILO HERNANDO» New Concepts and Strategies for Neuroprotection

Antonio G. García
Michael Duchen

Santander
July 23-27, 2012

Santander, 2012

School of Pharmacology «Teófilo Hernando». New Concepts and Strategies for Neuroprotection

Directors

Antonio G. García
Professor of Pharmacology
Teófilo Hernando's Institute for Drug Development
Universidad Autónoma de Madrid, Spain
Michael Duchen
Professor of Physiology
Department of Cell and Developmental Biology and UCL Consortium for Mitochondrial Research
University College London, UK

Organization and Coordination

Luis Gandía Juan
Professor of Pharmacology
Teófilo Hernando's Institute for Drug Development
Universidad Autónoma de Madrid, Spain
Gyorgy Szabadkai
Department of Cell and Developmental Biology and UCL Consortium for Mitochondrial Research
University College London, UK

Academic program

July 23-27, 2012

Monday 23

10:00 h | Inauguration
Antonio G. García
Michael Duchen

→ VULNERABLE NEURONS

10:30 h.The vulnerable neuron
Antonio G. García

12:00 h | The mitochondrion in healthy and vulnerable neurons
Michael Duchen

15:30 h | Round table
Pathways to neuronal death
Young researcher presentations

Moderator
Luis Gandía Juan

Tuesday 24

→ UNDERLYING MECHANISMS OF BRAIN INJURY

10:00 h | Pathways to cell death in neurodegenerative diseases
Gyorgy Szabadkai

12:00 h | Genetics basis and mechanisms of neurodegenerative diseases
John Hardy
Institute of Neurology, London, UK

15:30 h | Round table
Experimental approaches
Young researcher presentations

Moderator
Audrey Abramov
University College London, UK

Academic program

Wednesday 25

→ EXPERIMENTAL APPROACHES

10:00 h | The role of calcium and reactive oxygen species in the mechanism of neurodegeneration of Parkinson's Disease
Audrey Abramov

12:00 h | Mechanisms contributing to lesion formation in neuroinflammatory demyelinating disease: focus on mitochrondial fucntion and in vivo imaging
Kenneth Smith
Institute of Neurology, London, UK

15:30 h | Round table
Pharmacological neuroprotection
Young researcher presentations

Moderator
Manuela García López
Universidad Autónoma de Madrid, Spain

Thursday 26

→ DEVELOPING NOVEL THERAPEUTIC STRATEGIES

10:00 h | Mitochondrial trafficking and its funcional significance in health and disease
Allen Kaasik
University of Tartu, Estonia

12:00 h | Targeting the neurovascular unit in stroke
Hélène Girouard
University of Montreal, Canada

15:30 h | Round table
Design and new neuroprotective compounds
Young researcher presentations

Moderator
Rafael León
Universidad Autónoma de Madrid, Spain

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Friday 27

→ DEVELOPING THERAPEUTIC APPROACHES

09:30 h | A multitarget ligand approach for the discovery of more efficient neuroprotective drugs
Maria Laura Bolognesi
University of Bologna, Italy

11:30 h | Theoretical approaches to Alzheimer Disease therapy beyond Abeta Synthesis inhibitors
Peter St. George Hyslop
University of Cambridge, UK

13:00 h | Closing ceremony
Michael Duchen
Antonio G. García