

SUMMARY:

The proper function of the central nervous system relies in finely tuned neuronal communication at specific contact points term synapses. The cell and molecular study of synapses is a really exciting and rapidly moving field in contemporary biology. During the last 25 years, enormous progress has been made to elucidate the function of nerve terminals at the molecular level. This field is benefiting from the remarkable advances in both imaging technology and reporters for the analysis of cellular structure and physiology. On the other hand, a major scientific challenge for the biomedical research community is to understand the molecular basis of neuronal and synaptic dysfunction underlying brain disorders such as neurodegenerative diseases. Talks will focus on synaptic transmission, neural plasticity, membrane trafficking and transport, neurogenesis and neurodegenerative and neuropsychiatric disorders. The goal of this meeting would be to bring together international and national leading scientists to present the most recent advances in the field. The community of basic and translational scientists working at the IBiS Neuroscience Program will provide an ideal collegial atmosphere to foster fruitful discussions and scientific exchanges. Such an exciting scenario would be an ideal opportunity for junior scientists and students to interact with and to directly learn from leading scientists of the field.

Lugar de celebración:

Instituto de Biomedicina de Sevilla.
IBiS
Avda. Manuel Siurot s/n.
Sevilla

INFORMACIÓN MATRÍCULAS Y BECAS:

Secretaría de Alumnos:
Patio de Banderas, 9
41004 Sevilla
Telfs: 954-228731
954-212396
Fax: 954-216433

Plazo solicitud de matrículas:

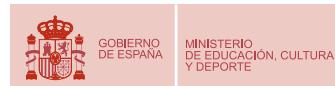
Desde el 1 de septiembre (plazas limitadas)

Tarifa del curso: 20 €

A los alumnos que acrediten estar matriculados en estudios oficiales conducentes a la obtención de un título de Grado, Máster o Doctor en una Universidad española, se les aplicará un 20% de descuento en el precio de la matrícula.

Tasa apertura expediente académico: 20 €

Esta tasa se aplicará a los alumnos matriculados en el Curso y deberá abonarse en el momento de la formalización de la matrícula.



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Universidad Internacional
Menéndez Pelayo

FIRST UIMP-IBIS SCHOOL OF BIOMEDICINE Cell and Molecular Biology of Neuronal Communication in Health and Disease

Venue

Institute of Biomedicine of Seville (HUV/CSIC/ University of Seville), Seville (Spain)

Dates

December 16 and 17th, 2015

Organizer

Rafael Fernández-Chacón

IBiS Investigator and Associate Professor of Physiology
at the University of Seville

Patrocina



MINISTERIO
DE ECONOMÍA
Y COMPETITIVIDAD



Instituto de Salud
Carlos III
ciberNed
Centro Investigación Biomédica en Red
Enfermedades Neurodegenerativas

Colabora



- 9:30-10:00 h.** Bienvenida y apertura del curso.
- 10:00-11:00 h.** Conferencia inaugural: "The molecular organization of a synapse"
Thomas C. Südhof
Premio Nobel de Fisiología o Medicina 2013. Dept. of Molecular and Cellular Physiology, Stanford University School of Medicine y Howard Hughes Medical Institute, Stanford, EE.UU.
- 11:00-11:30 h.** Pausa
- 11:30-12:15 h.** "Dissecting kinetic components of short-term synaptic plasticity: modular computational architecture of presynaptic terminals"
John Wesseling
Centro de Investigación Médica Aplicada (CIMA), Pamplona, España.
- 12:15-13:00 h.** "Synaptic and extrasynaptic function of a molecular co-chaperone"
Rafael Fernández-Chacón
Instituto de Biomedicina de Sevilla (IBiS, HUVR/CSIC/Universidad de Sevilla), Dpto. de Fisiología Médica y Biofísica y CIBERNED, Sevilla, España.
- 13:00-14:30 h.** Pausa
- 14:30-16:00 h.** Discusiones científicas con jóvenes científicos.
- 16:00-16:45 h.** "Synaptic signaling of retinoic acid"
Lu Chen
Dept. of Neurosurgery, Stanford University School of Medicine, Stanford, EE.UU.
- 16:45-17:30 h.** "Regulation of neural stem cells by niche innervation"
Isabel Fariñas
Dept. de Biología Celular (Universidad de Valencia), CIBERNED, y Tercel, Valencia, España

Jueves, 17 de diciembre

- 9:30-10:15 h.** "Signaling via non-conventional NMDA receptors"
Isabel Pérez-Otaño
Centro de Investigación Médica Aplicada (CIMA), Pamplona, España
- 10:15-11:00 h.** "Molecular mechanisms of Huntington's disease"
José J. Lucas
Centro de Biología Molecular Severo Ochoa (CSIC y Univ. Autónoma de Madrid) y CIBERNED, Madrid, España

- 11:00-12:00 h.** Conferencia de clausura: "Neurotrophic factors in the treatment of neurodegenerative diseases"
José López-Barneo
Instituto de Biomedicina de Sevilla (IBiS, HUVR/CSIC/Universidad de Sevilla), Dpto. de Fisiología Médica y Biofísica y CIBERNED, Sevilla, España.