

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

### Venue

Institute of Biomedicine of Seville (HUVR/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



*ciberNed*  
Centro Investigación Biomédica en Red  
Enfermedades Neurodegenerativas

Colabora



**UIMP**  
**SEVILLA**  
OTOÑO 2015

- 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**  
*Depto. de Biología Celular (Universidad de Valencia), CIBERNED, y Terce, Valencia, España*

- 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.*