



2nd Workshop of the Neurobiology of Pain and Inflammation Program (SP5)

Inflammation, Degeneration and Regeneration of the Peripheral Nervous System

28-29th September 2023, Alicante, Spain

Venue: Instituto de Neurociencias UMH-CSIC
Salón de Actos
Avenida Santiago Ramón y Cajal s/n.
03550 - San Juan de Alicante

Further Information: sp5_paininflammation@umh.es

Thursday, September 28th

15:00-16:05 Registration open for participants at Instituto de Neurociencias
Coffee

16:05-16:15 Welcome address by Félix Viana, Director SP5 Program

SESSION 1. Chair: Francisco Taberner

16:15-17:00 **Asia Fernández Carvajal**
IDiBE, Universidad Miguel Hernández, Elche, (Spain)
New *in vitro* models based in microfluidics to study peripheral pathophysiological conditions

17:00-17:30 **Jorge Fernández Trillo**
Instituto de Neurociencias UMH-CSIC, Alicante (Spain)
Role of Piezo2 channels in acute and neuropathic mechanical pain

17:30-18:30 **Grünenthal Lecture: Matthias Endres**
Charite – Universitätsmedizin Berlin (Germany)
Chemotherapy-induced neurotoxicity

18:30-18:45 **Eva María Villalba Riquelme**
IDiBE, Universidad Miguel Hernández, Elche (Spain)
Paclitaxel and oxaliplatin reversibly and differentially affect electrogenic activity of small IB4(-) and IB4(+) of male and female rat sensory neurons

18:45-19:00 **Luke Noon**
Centro de Investigación Príncipe Felipe, Valencia (Spain)
Connecting hepatic nerves: Taking 3D-connectomics to the PNS using correlative volume electron microscopy



- 19:00-19:15 **Estefania Contreras**
Universitat Autònoma de Barcelona, Barcelona (Spain)
Decellularized graft for repairing severe peripheral nerve injuries in sheep
- 19:15-19:30 **Sara Bolivar Martín**
Universitat Autònoma de Barcelona, Barcelona (Spain)
Neuron-specific RNA sequencing reveals different regeneration mechanisms in peripheral neurons after nerve injury
- 20:45 Welcome Dinner**
(participation is by invitation only)





Friday, September 29th

8:00-9:00 Registration open for participants at Instituto de Neurociencias

SESSION 2. Chair: Hugo Cabedo

- 9:00-9:45 **Simone di Giovanni**
Imperial College London, London (UK)
Neuroimmune interactions for neuronal repair
- 9:45-10:30 **Carlos Matute**
Achucarro Basque Center for Neuroscience, Leioa (Spain)
New avenues in neuroinflammation, tissue damage and repair in multiple sclerosis
- 10:30-11:00 **Víctor Meseguer**
Instituto de Neurociencias UMH-CSIC, Alicante (Spain)
Delayed degeneration but unaltered regeneration of individually laser ablated corneal cold nerve fibers in Sarm1-null living adult mice
- 11:00-11:30 **Esther Udina**
Universitat Autònoma de Barcelona, Barcelona (Spain)
Differences in the intrinsic regenerative capacity of four peripheral neuron subtypes after nerve injury
- 11:30-12:00 **Coffee Break**

-
- 12:00-13:15 **Plenary Lecture: Michael Coleman**
University of Cambridge, Cambridge (UK)
Programmed axon death in animal models and in human disease
-

- 13:15-14:45 **Lunch at Instituto de Neurociencias**
(Open to speakers, out of town participants and members of SP5 program)

SESSION 3. Chair: Alerie Guzman

- 14:45-15:30 **Peter Arthur-Farraj**
University of Cambridge, Cambridge (UK)
What regulates the early Schwann cell response to nerve injury?
- 15:30-16:00 **Hugo Cabedo**
Instituto de Neurociencias UMH-CSIC, Alicante (Spain)
A genetic compensatory mechanism modulates the expression of distinct class IIa HDACs to ensure peripheral nerve myelination and repair



- 16:00-16:30 **Andrés Fuentes**
Instituto de Neurociencias UMH-CSIC, Alicante (Spain)
Emerging Schwann cell phenotype as a key to develop new regeneration strategies in the PNS
- 16:30:16:45 **Francisco Gracia**
Instituto de Neurociencias UMH-CSIC, Alicante (Spain)
Role of Schwann cells in melanoma progression
- 16:45-17:00 **Beatriu Molina**
Universitat Autònoma de Barcelona, Barcelona (Spain)
Assessment of regenerative capacities of different peripheral neuronal populations after a nerve injury during the postnatal stage
- 17:00-17:15 **Clara Mutschler**
University of Cambridge, Cambridge (UK)
Using zebrafish to investigate peripheral nervous system injury
- 17:15-17:45 **Coffee Break**

SESSION 4. Chair: Mari Carmen Acosta

- 17:45-18:30 **Laura Calvo**
INCyL, Universidad de Salamanca, Salamanca (Spain)
Sensory Schwann cells are required for mechanical nociception and touch perception
- 18:30-19:00 **Chiara Nappi**
Instituto de Neurociencias UMH-CSIC, Alicante (Spain)
Sex differences in the regeneration of nociceptors after burn injury
- 19:00-19:15 **Francisco Peralta**
Instituto de Neurociencias UMH-CSIC, Alicante (Spain)
Sex differences in mechanical and cold hypersensitivity to oxaliplatin
- 19:15-19:20 Closing remarks by Felix Viana

20:30 Dinner at Hotel Complejo San Juan

Calle Dr. Perez Mateos, 2
Sant Joan d'Alacant, Alicante

Organizing Committee:

Elvira de la Peña
José A. Gómez Sánchez
Alerie Guzmán
Francisco Taberner
Félix Viana

