

## GENERAL INFORMATION

### DATES AND LOCATION

December, 1st-2nd, 2023. Barcelona, Spain

### LECTURES:

Clinic University Hospital . Villarroel 170.

08036 Barcelona, Spain.

Sala de Actos. Left Wing from main entrance in Villarroel Street 170. Take the Stairs number 9 to 11. 3rd Floor.

### CADAVER. HANDS-ON DEMONSTRATION:

Dissection Room. Department of Anatomy, Barcelona University Medical School. Underground floor. Main entrance from Casanova Street 143.

### Course Directors

#### Prof. Jose De Andrés

Professor of Anesthesia, Valencia University Medical School  
Chairman, Department of Anesthesiology and Critical Care  
Director of the Multidisciplinary Pain Management Center  
Valencia University General Hospital.

Tres Cruces s/n, 46014-Valencia (Spain)

#### Prof. Albert Prats

Professor of Anatomy, Barcelona University Medical School.  
Casanova, 143. 08036 Barcelona, Spain.

#### Dr. Xavier Sala-Blanch

Associate Professor of Anesthesia.

Barcelona University Medical School

Department of Abesthesiology and Reanimation

Hospital Clinic i Provincial

Villarroel 170. 08036 Barcelona. Spain

### Course Co-Director

Gustavo Fabregat, MD, PhD

### TARGET AUDIENCE

This advanced course is designed for pain practitioners (pain specialists, anesthesiologists, neurosurgeons) utilizing invasive techniques for pain management.

Physicians attending the course should have at least 2 years of practice with ongoing use of neuromodulation techniques in the treatment of chronic pain patients.

### OBJECTIVES

After participation in this educational meeting, participants should have an understanding of:

1. Basic neuroanatomy related with the performance of pain therapies.
2. Clinical evidence regarding new and evolving treatments for the treatment of pain.
3. Current imaging and electrophysiological technologies relevant for performing diagnosis and performing the invasive techniques for pain treatment.
4. Common clinical problems in chronic pain and current

recommendations for the evaluation and management of these pain conditions.

5. Evidence-Based treatments in pain medicine.
6. Identify questions that need to be addressed to increase knowledge of neuromodulation techniques use in pain treatment.
7. How to design the Pain studies for obtaining better the evidence.

### ACCREDITATION

An Application has been made to the EACCME® for CME accreditation of this event

### REGISTRATION

REGISTRATION: 1700 €

To register for this programme, please contact with:

Cristina Cruz. ACADEMY FUNDOLOR

Email: cruz\_cri@gva.es

Multidisciplinary Pain Management Department

Anesthesia Departmen

Consorcio Hospital General Universitario de Valencia

Avda. Tres Cruces, s/n. 46014-Valencia (Spain)

Email: cruz\_cri@gva.es

Phone + 34 96 345 54 85

The fee includes:

- Registration
  - Conference package
  - Meals (2 lunch work and 1 dinner)
  - Accommodation (bed & breakfast) 2 nights
- Each delegate is responsible for his/her travel arrangements, according the course schedule

### NEXT COURSE:

**COURSE 20th.**

**November 22nd-23rd, 2024**

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## ADVANCED PAIN CADAVER COURSE

## NEUROSTIMULATION-COURSE 19th

December 1st-2nd, 2023

Barcelona, Spain

## CLINICAL & BASIC SCIENCE FOR THE MANAGEMENT OF THE CHRONIC PAIN PATIENT

Organised by:



ANESTHESIOLOGY ACADEMIC AREA  
DPT OF SURGERY AND SURGICAL SPECIALITIES.  
HUMAN ANATOMY AND EMBRIOLOGY UNIT.  
UNIVERSITY OF BARCELONA

Under the auspicious of



### Congress Organiser:

Cristina Cruz

ACADEMY FUNDOLOR

Multidisciplinary Pain Management Department

Anesthesia Department

Consorcio Hospital General Universitario de Valencia

Avda. Tres Cruces, s/n, 46014-Valencia

email: cruz\_cri@gva.es

Phone: + 34 96 345 54 85

MORE INFORMATION ON [www.academyfundolor.org](http://www.academyfundolor.org)

Day 1 - Friday 1st December 2023  
BASIC SCIENCE

Time	Session	Faculty
08.15-8.30	Introduction and Welcome	José De Andrés Albert Prats
<b>08.30-10.00</b>	<b>ANATOMY FOR PAIN CLINICIANS</b>	
08.30-9.30	Anatomy for Craneal and Spine procedures	Albert Prats
09.30-10.00	Applied Anatomy for the practice of spinal cord and DRG neuro-modulation	Jose De Andrés
<b>10.00-13.30</b>	<b>NEUROBIOLOGY and PHYSIOLOGY FOR PAIN CLINICIANS</b>	
10.00-10.30	Functional Magnetic Resonance Imaging showing supraspinal effects of spinal cord stimulation on brain	Lisa Goudman
10.30-11.00	Spinal Evoked Compound Action Potentials with clinically relevant stimulation modalities	Ricardo Vallejo
11.00-11.30	<b>Break</b>	
11.30-12.00	Mechanisms of action of spinal cord stimulation – lessons learned from pre-clinical studies	Ilona Obara
12.00-12.30	The concept of Dosage in Neuromodulation Therapy. Understanding the role of different stimulation wave and types of waveform	Pedram Tabatabaie
12.30-13.00	Using Objective Measures For Evaluating Pain Control in patients with implanted Neurostimulation Systems. Genomics and proteomics	Ricardo Vallejo
13.00-13.30	Artificial Intelligence and Machine Learning possibilities in Neuromodulation	Ashish Shetty
13.30-15.00	<b>Lunch</b>	
15.00-20.00	CADAVER. HANDS-ON DEMOSTRATION <b>1. Neuromodulation with ECAP Cadaver Station</b>  <b>2. Percutaneous ANTEROGRADE lead paraspinal All-in-one (single stage) approach. Tunnelling and pocket creation</b>  <b>3. Percutaneous RETROGRADE lead paraspinal insertion Pelvic and perineal stimulation for somatic and visceral pain Cadaver Station</b>  <b>4. DRG neuromodulation lead insertion</b> · Percutaneous · Endoscopic Navigation Cadaver Station  Ultrasonography Stations: <b>5. Spine structures identificacion for the practice of SCS neurostimulation</b>  <b>6. PNS insertion with US guidance</b>  <b>7. Technical Station</b> Devices and programming	Jan W Kallewaard Gustavo Fabregat Ashish Shetty Pedram Tabatabaie Andrzej Krol Amitabh Gulati Jose Luis Durá Kate Vincent Jones
<b>20.00</b>	<b>Closing of the Day</b>	
<b>20.30</b>	<b>Dinner</b>	

Day 2 - Saturday 2nd December 2023  
CLINICAL SCIENCE

Time	Session	Faculty
<b>08.30-10.30</b>	<b>TECHNICAL SECTION</b>	
08.30-09.00	Trial versus No Trial of Spinal Cord Stimulation	Ashish Shetty
09.00-09.30	How to manage habituation and loss of efficacy in clinical practice	Pedram Tabatabaie
09.30-10.00	Improving SCS clinical Outcome with Patient Specific Physiological Monitoring	Jan W Kallewaard
10.00-10.30	DRG stimulation indication in current clinical practice	Pedram Tabatabaie
<b>10.30-11.00</b>	<b>Break</b>	
<b>11.00-13.30</b>	<b>DISEASE SPECIFIC PAIN ASSESSMENT AND MANAGEMENT</b>	
11.00-11.30	Neuromodulation management with Peripheral Nerve stimulation (PNS). Role of innovation in device technologies	Amitabh Gulati
11.30-12.00	Neuromodulation for chronic back and leg pain in virgin back patients	Ricardo Vallejo
12:00-12:30	Is there a cancer patient a clinical target for Neuromodulation? Defining indications	Amitabh Gulati
12.30-13.00	Neuromodulation for chronic visceral pain: Thoracic and abdominal targets?	José De Andrés
13.00-13.30	Neurostimulation alternatives for managing "Persistent Spinal Pain Syndrome"	Lisa Goudman
13.30-13.35	Learning Cases Scenarios. Interactive discusion	Jose De Andrés
<b>13.30-13.35</b>	<b>Closing Remarks</b>	José De Andrés
<b>14.00-15.30</b>	<b>Lunch</b>	
<b>15.30</b>	<b>Departures</b>	

**Faculty**

**José De Andrés MD, PhD, FIPP, EDRA, EDPM**  
Anesthesiologist  
Professor of Anesthesia. Valencia University Medical School.  
Chairman. Department of Aneshtesiology and Critical Care.  
Director of Multidisciplinary Pain Management Center.  
General University Hospital. Valencia. Spain.

**Jose Luis Durá MSc**  
Electronic Engineer.  
Polytechnic College. Valencia. Spain.

**Gustavo Fabregat, PhD**  
Department of Anesthesiology, Critical Care and Pain Management  
Valencia University General Hospital. Valencia (Spain)

**Lisa Goudman, PhD**  
Assistant Professor Department of Neurosurgery  
Universitair Ziekenhuis Brussel, Jette, Belgium;  
Center for Neurosciences (C4N), Vrije Universiteit Brussel,  
Jette, Belgium

**Amitabh Gulati, MD FIPP CIPS ASRA-PMUC**  
Anesthesiologist  
Director of Chronic Pain Associate Attending, Memorial Hospital  
Program Director, Weill Cornell Pain Medicine Fellowship  
Department of Anesthesia and Critical Care  
Memorial Sloan Kettering Cancer Center, New York, USA.

**Jan Willem Kallewaard, MD**  
Anesthesiologist  
Rijnstate Ziekenhuis, Velp, The Netherlands.

**Andrzej Krol , MD**  
Anesthesiologist  
St. George's University Hospitals. London. UK.

**Ilona Obara MSc, PhD, SFHEA**  
Neuroscientist  
Reader in Pain Pharmacology and Neuroscience, Director of Research  
School of Pharmacy, Faculty of Medical Sciences,  
Newcastle University, King George VI Building,  
Newcastle upon Tyne, UK.

**Albert Prats, MD, PhD**  
Professor of Anatomy  
Anatomy Department  
University of Barcelona. Barcelona Spain.

**Pedram Tabatabaie, MD, PhD**  
Head Neuromodulation Unit  
Norrlands University Hospital  
Umeå, Sweden

**Ashish Shetty FRCA, FFPMRCA**  
Associate Professor, UCL  
Regional Advisor in Pain Medicine  
Chief Medical Officer, Neurokor Consultant  
Lead in Pain Medicine National Hospital for  
Neurology & Neuro-surgery  
University College London Hospitals.  
London

**Ricardo Vallejo, M.D., PhD.**  
CEO SGX-Medical  
CMO Capri Medical  
Research Professor, Psychology Department,  
Illinois Wesleyan University.

**Kate Vincent Jones.**  
Biomedical Engineering Texas  
A&M University College Station, TX, USA.