

# Operative Cortical and Subcortical Brain Anatomy and Function

Madrid, Spain - October 16th - 18th, 2015

## **Operative Cortical and Subcortical Brain Anatomy and Function - 3<sup>rd</sup> Workshop**

Service of Neurosurgery  
Hospital Clínico San Carlos  
Universidad Complutense de Madrid.

Madrid, Spain – October 16-18, 2015

### **Purpose and Contents**

This workshop will cover the brain anatomy and function necessary to plan and perform functional surgeries for brain tumors located in eloquent areas, and for functional deep brain stimulation procedures. The anatomy will be studied in cadavers using Klinger's white matter dissection technique. Also, the tools necessary to perform these operations will be practically covered, and translated into the anatomical dissections whenever appropriate, specifically transcranial magnetic stimulation (TMS), preoperative planning with tractography (DTI) and neuronavigation, cortical and subcortical stimulation and microelectrode recordings.

### **Course Venue**

Hospital Clínico Universitario San Carlos  
Profesor Martín Lagos S/N 28040 – Madrid – Spain

### **Workshop Language**

English

### **Organization**

Prof. Juan A. Barcia MD, PhD  
EANS 2015 Chairman & Chief of the Service of Neurosurgery  
Hospital Clínico Universitario San Carlos  
Universidad Complutense de Madrid.

### **Course Secretariat and Application**

Barceló Congressos.  
For application for attendance contact by e-mail or phone:  
e-mail: [tractography@barcelocongresos.com](mailto:tractography@barcelocongresos.com)  
Phone: +34 912 300 465

The workshop is limited to 14 participants. Allocation is based on a first-come first-served basis.

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## Workshop Fee

€ 950. Includes lectures, materials, cadaver workshop, DTI workstations, and meals. Having received a confirmation of participation, the workshop fee must be transferred not later than September 16th. Ask at the secretariat for further information.

## Accommodation

NH Argüelles.

Vallehermoso 65.

28015 Madrid - Spain

Phone: +34915939777

Fax: +34915942739

E-mail: nharguelles@nh-hotels.com

Room reservation is performed automatically after receipt of workshop fee.

## Cancellation

Full refund is paid in case of cancellation prior to September 16th, 2015.

## Course Program

Day 1 –Friday, 16<sup>th</sup>

12.30 Welcome lunch

13.30 Welcome. Prof. J.A. Barcia (15min)

13.45 Lecture: DTI and tractography: technique and applications. Dr. J.A. Linera (45min)

14:30 Lecture: Radiologic anatomy of gyri and sulci and clinical applications. Dr. S. Gil-Robles (45min)

15:15 Coffee break (15min)

15:30 Workshop: Brain surface segmentation using Steathviz. Dr. J. Avecilla (90min)

17:00 Workshop: Brain surface giry and sulci dissection. Dr. S. Gil-Robles (120min)

Day 2 – Saturday 17<sup>th</sup>

9:00 Lecture: Hemispheric fiber tracts anatomy, lateral aspect. Prof. S. Wolfsberger (60min)

10:00 Coffee break (15min)

10:15 Workshop: Subcortical fiber tract reconstruction using Stealthviz. Dr. J. Avecilla (90min)

11:45 Lecture: Subcortical fiber tract dissection technique. Dr. J. Martino (45min)

12:30 Lunch

13:30 Workshop: subcortical fiber tract dissection, lateral aspect. Dr. J. Martino (90min)

15:00 Lecture: Hemispheric fiber tracts anatomy, medial aspect. Dr. J. Martino (45min)

15:45 Coffee break (15min)

16:00 Workshop: subcortical fiber tract dissection, medial aspect. Dr. J. Martino (120min)

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## Day 3 – Sunday 18th

9:00 Lecture: Role of DTI in functional neurosurgery. Prof. J.A. Barcia (45min)

9:45 Lecture: clinical applications of deep brain targeting using DTI. Prof. J.A. Barcia (45min)

10:30 Coffee break

10:45 Workshop: Fiber tract reconstruction for deep brain stimulation using Stealthviz. Dr. J. Avecilla (105min)

12:30 Lunch

13:30 Lecture: Diencephalic fiber tracts anatomy and dissection technique. Dr. P. González (45min)

14:15 Lecture: Brainstem fiber tracts anatomy. Dr. P. González (45min)

15:00 Workshop: Brainstem fiber tract dissection. Dr. P. González (120min)

Each pair of participants will have a cadaver brain for the dissections and one Medtronic planning station with the StealthViz/DTI software.

Workshop supervisors: Dr. Josué Avecillas, Dra. Rebéca Pérez, Dra. Carla Fernández