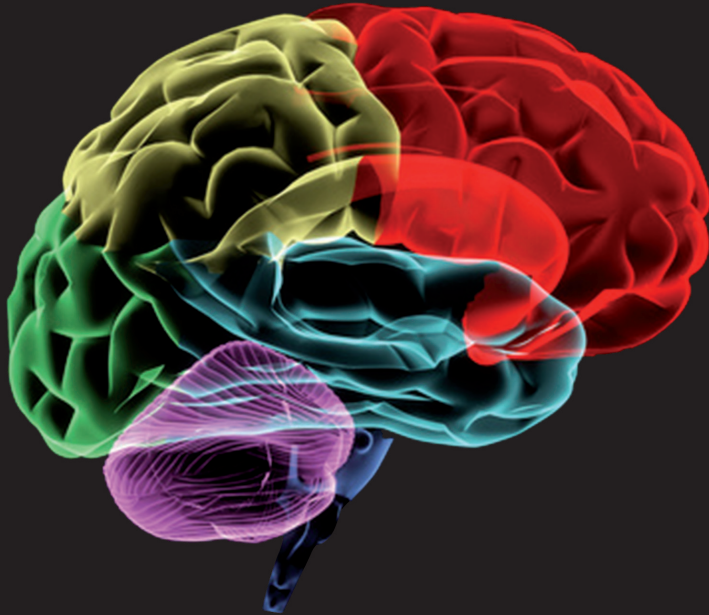




**SOCIEDAD ESPAÑOLA DE  
NEUROCIROGÍA | SENEK**

**V SENEK HANDS-ON COURSE:  
THE CEREBRAL SUBSTANCE:  
SULCI, GYRI, VENTRICLES AND WHITE FIBERS ANATOMY**



**Organization: Sociedad Española de Neurocirugía (SENEK)**

*Dr. José Hinojosa. Secretary SENEK*  
Hospital 12 de Octubre

*Dr. Carlos Ruiz-Ocaña. President SENEK*  
Hospital Quirón de Madrid

**Coordination**

Dr. Pablo González. Hospital General de Alicante  
Dr. Pedro Moreno. Hospital General de Alicante

**September 23th, 24th and 25th, 2015**  
**University Miguel Hernández (Alicante)**

# OBJECTIVES OF THE COURSE

On this edition participants will have the chance to explore and understand the extrinsic and intrinsic three-dimensional architecture of the cerebral substance. Experts on this topic will share their knowledge and will assist the trainees during the cerebral dissections.

- Architectonic organization of the telencephalon
- Comprehensive understanding of the surface sulco-gyral architecture of the brain
- Anatomical review of the interhemispheric, Sylvian, choroidal and supracerebellar fissures
- Classic and functional lobar divisions of the cerebral lobes
- The fiber system and its implications on surgery for brain tumors
- White matter dissection practice from the lateral aspect
- White matter dissection practice from the basal and medial aspects
- Three-dimensional understanding of the fiber system covering the lateral and third ventricles and its implication on surgery for intraventricular tumors
- Internal and external anatomy of the brainstem and cerebellum

## SCIENTIFIC PROGRAM

### SESSION 1 Wednesday morning, September 23th, 2015

**7.45-8.00am.** Welcome and introduction

**8.00-8.20am.** Phylogenetic evolution of the Central Nervous System. **J. Piquer**

**8.20-8.40am.** Anatomy of the cerebral sulci, fissures and gyri of the brain. **J. Abarca**

**8.40-9.00am.** Craniometric points of the skull. Correlation with sulci and gyri. **V. Fernández**

**9.00-10.00am.** **Hands-on laboratory training:** Cerebral sulci and gyri anatomical understanding. 3D Live demonstration. **J. Piquer / R. Rodríguez**



**10.00-10.30am** Functional analysis of the white matter of the brain. The importance of the cerebral substance understanding. **A. Fernández-Coello**

**10.30-10.50am.** **Coffee break**

**10.50-1.30pm.** **Hands-on laboratory training:** White fibers dissection from the lateral aspect of the brain (I). 3D Live demonstration. **A. Fernández-Coello / J. Martino**



**1.30-3.30pm. Lunch**

**SESSION 2** Wednesday afternoon, *September 23th, 2015*

**3.30-4.00pm.** Insular lobe tumors surgery. **J. Martino**

**4.00-5.20pm. Hands-on laboratory training:** White fibers dissection from the lateral aspect of the brain (II). Live demonstration.  
**A. Fernández-Coello / J. Martino**



**5.20-5.40pm. Coffee break**

**5.40-6.10pm.** The fiber system and its implication on surgery of subpallial tumors. **J. Martino**

**6.10-7.30pm. Hands-on laboratory training:** Hands-on laboratory training: White fibers dissection from the lateral aspect of the brain (III). 3D Live demonstration. **A. Fernández-Coello / J. Martino**

**SESSION 3** Thursday morning, *September 24th, 2015*

**8.00-8.30am.** The fiber system and its implication on surgery of neopallial tumors. **P. González**

**8.30-10.20am. Hands-on laboratory training:** Hands-on laboratory training: White fibers dissection from the lateral aspect of the brain (IV). 3D Live demonstration. **A. Fernández-Coello / J. Martino**

**10.20-10.40am.** The medial surface of the brain. The medial frontal, paracentral, precuneal and occipital lobes. Cortical and subcortical structures. **F. Vergani**

**10.40-11.00am. Coffee break**

**11.00-11.20am.** The medial surface of the brain. Anatomy of the limbic system and temporomesial structures.

**11.20-1.30pm. V. Fernández**

**Hands-on laboratory training:** Hands-on laboratory training: White fibers dissection from the mediobasal aspect of the brain (I). 3D Live demonstration.  
**F. Vergani / P. González**



**1.30-3.30pm. Lunch**

**SESSION 4** Thursday afternoon, *September 24th, 2015*

**3.30-3.50pm.** MRI visualization of the white fiber system. DTI Tractography and implications in brain tumors surgery.  
**V. Belloch**

**3.50-4.10pm.** The fiber system and its implication on surgery of paleo and archipallial tumors.  
**P. González**

**4.10-5.30pm. Hands-on laboratory training:** White fibers dissection from the mediobasal aspect of the brain (II). 3D Live demonstration.  
**F. Vergani / P. González**



**5.30-5.50pm. Coffee break**

**5.50-6.10pm.** The fiber system and its implication on surgery of brainstem tumors. **M.A. Arraez**

**6.10-7.30pm.** **Hands-on laboratory training:** Hands-on laboratory training: White fibers dissection from the mediobasal aspect of the brain (III). 3D Live demonstration. **F. Vergani / P. González**

**SESSION 5** Friday morning, *September 25th, 2015*

**8.00-8.30am.** The fiber system and its implication on surgery of intraventricular tumors. **J. Abarca**

**8.30-10.30am.** **Hands-on laboratory training:** Hands-on laboratory training: White fibers dissection from the mediobasal aspect of the brain (IV). 3D Live demonstration.  
**F. Vergani / P. González**



**10.30-10.50am. Coffee break**

**10.50-11.20am.** Cerebellum and brainstem. Intrinsic and extrinsic features. **R. Rodríguez**

**11.20-1.30pm.** **Hands-on laboratory training:** White fibers dissection from the mediobasal aspect of the brain (V). 3D Live demonstration. **F. Vergani / P. González**



## SPEAKERS

■ **Dr. Javier Abarca Olivas** ■

Hospital General Universitario de Alicante (Alicante, Spain)

■ **Dr. Miguel Ángel Arraez** ■

Hospital Universitario Carlos Haya (Málaga, Spain)

■ **Dr. Vicente Belloch Ugarte** ■

Centro Médico ERESA Valencia (Valencia, Spain)

■ **Dr. Alejandro Fernández-Coello** ■

Hospital de Bellvitge (L'Hospitalet de Llobregat, Spain)

■ **Dr. Victor Fernández Cornejo** ■

Hospital General Universitario de Alicante (Alicante, Spain)

■ **Dr. Pablo González-Lopez** ■

Hospital General Universitario de Alicante (Alicante, Spain)

■ **Dr. Juan Martino Gonzalez** ■

Hospital Universitario Marques de Valdecilla (Santander, Spain)

■ **Dr. Jose Piquer Belloch** ■

Hospital de la Ribera (Alzira, Spain)

■ **Dr. Rubén Rodríguez** ■

Hospital de la Ribera (Alzira, Spain)

■ **Dr. Francesco Vergani** ■

College London (London, United Kingdom)