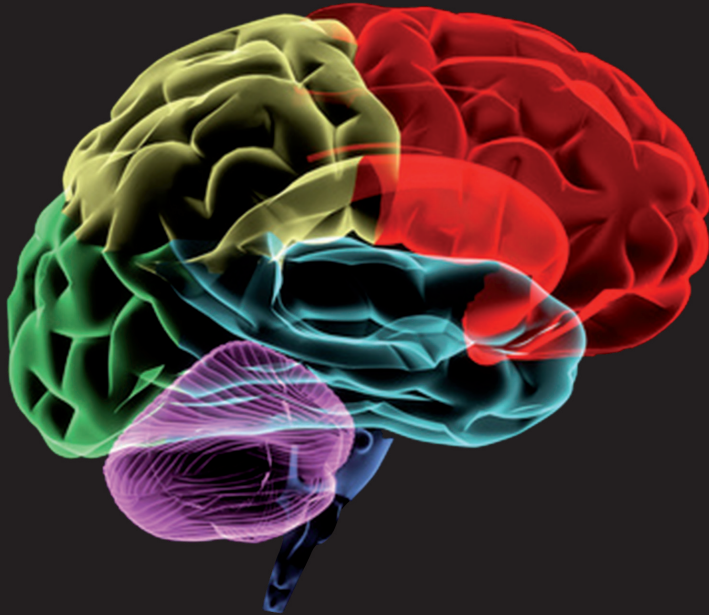




**SOCIEDAD ESPAÑOLA DE  
NEUROCIROGÍA | SENEK**

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



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

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**Coordination**

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**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, September 23th, 2015

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

**8.00-8.30am.** Phylogenetic evolution of the Central Nervous System

**8.30-9.00am.** Anatomy of the cerebral sulci, fissures and gyri of the brain

**9.00-10.30am.** **Hands-on laboratory training:**  
Cerebral sulci and gyri anatomical understanding



**10.30-11.00am** Craniometric points of the skull. Correlation with sulci and gyri.

**11.00-1.30pm.** **Hands-on laboratory training:**  
White fibers dissection from the lateral aspect of the brain (I)



1.30-3.30pm. Lunch

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

3.30-4.00pm. The fiber system and its implication on surgery of neopallial tumors.

4.00-5.30pm. **Hands-on laboratory training:** White fibers dissection from the lateral aspect of the brain (II)



5.30-6.00pm. The fiber system and its implication on surgery of subpallial tumors.

6.00-7.30pm. **Hands-on laboratory training:** White fibers dissection from the lateral aspect of the brain (III)

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

8.00-8.30am. MRI visualization of the white fiber system. DTI Tractography and surgical implications

8.30-10.30am. **Hands-on laboratory training:** White fibers dissection from the lateral aspect of the brain (IV)

10.30-11.00am. Anatomy of the limbic system and temporomesial structures

11.00-1.30pm. **Hands-on laboratory training:** White fibers dissection from the mediobasal aspect of the brain (I)



1.30-3.30pm. Lunch

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

**3.30-4.00pm.** Temporal lobe epilepsy surgery.

**4.00-5.30pm.** **Hands-on laboratory training:**  
White fibers dissection from the  
mediobasal aspect of the brain (II)



**5.30-6.00pm.** The fiber system and its implication on surgery of paleo and archipallial tumors.

**6.00-7.30pm.** **Hands-on laboratory training:** White fibers dissection from the mediobasal aspect of the brain (III)

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

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

**8.30-10.30am.** **Hands-on laboratory training:**  
White fibers dissection from the  
mediobasal aspect of the brain (IV)



**10.30-11.00am.** Cerebellum and brainstem. Intrinsic and extrinsic features

**11.00-11.30am.** The fiber system and its implication on surgery of brainstem tumors.

**11.30-1.30pm.** **Hands-on laboratory training:**  
White fibers dissection from the mediobasal aspect of the brain (IV)



**1.30-3.30pm.** Lunch