COURSE DIRECTORS

Dr. Juan Carlos Fernández Miranda
Assistant Professor of Neurological Surgery
Director, Surgical Neuroanatomy Lab. University of Pittsburg

Dr. Jose Piquer.
SENEC, Secretary.

INVITED FACULTY

Dr. P. Rubino
Hospital El Cruce. Buenos Aires. Argentina
Dr. HT. Wen
Universidad de Sao Pablo. Brasil.
Dr. PH Young
University St Louis. USA

COORDINATION

Dr. Jaime Lloret
University of Alicante. Spain

FACULTY

Dr. M. Casimiro. Hospital Egas Moniz. Lisboa. Portugal
Dr. J.P. Farias. Hospital Santa Maria. Lisboa. Portugal
Dr. J.C. Fernández Miranda. University of Pittsburg. USA
Dr. J. Gisbert. Hospital Universitario La Ribera. Alzira. Spain
Dr. J. Hinojosa. Hospital 12 de Octubre. Madrid. Spain
Dr. J. Lloret. Hospital General Universitari. Alicante. Spain
Dr. J. Piquer. Hospital Universitario La Ribera. Alzira. Spain
Dr. P. Rubino. Hospital el Cruce. Buenos Aires. Argentina
Dr. E. Urçulo. Hospital de Donostia. San Sebastián. Spain
Dr HT. Wen. Universidad de Sao Paulo. Brasil
Dr. PH Young. University St Louis. USA

SOCIEDAD ESPAÑOLA DE NEUROCIRUGÍA | SENEC

SENEC
Hands-on Course

“Anatomy and Endo-Microneurosurgical Strategies in Brain Surgery”

I Course/ I Cycle: Brain Anatomy
With the collaboration of Portuguese Neurosurgical Society
An SENEC / SPNC proyect

FACULTAD DE MEDICINA DE LA UNIVERSIDAD MIGUEL HERNÁNDEZ
-Alicante-(Campus: Sant Joan)
23-25 September 2011
**September 23**th

**I A Part**

**BRAIN ANATOMY FOR NEUROSURGEONS**

(Lectures, Demo & Lab Dissection-Brains)

08:00-13:00

Special Lecture: Function of the Cerebral Cortex.
Remember function of the brain.

Dr. PH Young

**Microsurgical Anatomy of the Sulci, Gyri and Ventricles. Surface Anatomy.**

Frontal, Central, Parietal, Temporal, and Occipital: Lobes, Sulci & Gyri. Learn the anatomical mapping for your hemispheric and intraventricular surgery.

Dr. P. Rubio

**Insula and Limbic System.** Insular Lobe and Limbic Lobe: cingulum, fornix, septum, parahypocampal gyrus. The most complex anatomical area of the brain in your hands.

Dr. PH Young (3D anatomy)
Dr. J. Piquer (Surgical application)

**White Matter Anatomy: 3D Structure of the Fiber Tracts.**

After this practice you should know the role of fiber dissection in Brain Surgery.

Dr. J.C. Fernández Miranda

13:00-14:00 Lunch

**II A Part**

**ANATOMY AND MICRO SURGICAL STRATEGIES IN BASIC APPROACHES TO THE BRAIN:**

Supratentorial

(Lectures, Demo & Lab Dissection-Heads)

08:00-13:00

**Magistral Conference: Embryology of CNS for Neurosurgeons.**

The best conference about the origin of CNS I have heard (G. Yasargil)

Dr. P. Rubio

**Anatomy and Surgery of the Anterior Circulation.**

Comprehensive overview of neurovascular anatomy for aneurysm surgery.

Dr. J. Piquer

**Sylvian fissure approach. Anatomic and technical considerations.**

A wide window to review the anatomy of the medial cerebral artery, basal cisterns and insular region.

Dr. J.C. Fernández Miranda

13:00-14:00 Lunch

**Surgical Anatomy and Approaches to Anterior Basal Cisterns and Suprasellar region.**

Big way for micro and endoscopic anterior cranial base surgery.

Dr. J.C. Fernández Miranda

**III A Part**

**BRAIN ANATOMY FOR NEUROSURGEONS**

(Lectures, Demo & Lab Dissection-Brains)

14:00-19:00

Special Lecture. Surgical applications: Transcortical approaches, Intraventricular Surgery and Hemispherectomies.

Superb anatomical review to understand the many forms to approach the ventricles.

Dr. Wen

**Brain Stem / IV ventricle Anatomy and function.**

Best way to organize your brain-stem surgical plan.

Dr. J.P. Farias

14:00-15:00 Lunch

**September 24**th

**I I A Part**

**ANATOMY AND MICRO SURGICAL STRATEGIES IN BASIC APPROACHES TO THE BRAIN:**

Supratentorial

08:00-13:00

**Amigdalo-hipocampectomy: Antero-medial temporal lobectomy, Transylvian and Transcortical approaches.**

Perform it and learn advantages and disadvantages of different corridors.

Dr. Wen

**Special 3D Lecture. Impact of MR High-Definition Fiber Tractography in Modern Neurosurgery.**

Correlation with fiber tract anatomy and neurosurgical applications.

Dr. J.C. Fernández Miranda

**Surgical Approach to the Thalamus Area.**

Believe and discover that it is possible to approach it safely.

Dr. P. Rubio (3D Anatomy)
Dr. J. Hinojosa (Surgical Application)

**September 25**th

**I I C Part**

**ANATOMY AND MICRO SURGICAL STRATEGIES IN SPECIAL APPROACHES TO THE BRAIN:**

Supratentorial

08:00-14:00

**Surgical Anatomy Approaches to the Infratentorial Cisterns and Posterior Circulation.**

A superb state of art of posterior fossa approaches.

Dr. J.C. Fernández Miranda

**Suboccipital and Retrosigmoid approach.**

Remember bone flap landmarks and CPA angle anatomy.

Dr. E. Urculo

**Supracerebellar Approach to Pineal Region.**

You must never forget the deep venous complex in this region.

Dr. Jaime. L. Lloret

**Supracerebellar Transtentorial Approach.**

Another corridor to approach to medial temporal lobe and mesencephalon.

Dr. M. Casimiro

**Surgical Approach to the IV ventricle through the Telovelar Approach.**

Is it the best approach to rhomboid fossa?

Dr. Wen

**Brain Stem Surgery.**

Localize and remember the safe entry areas.

Dr. J. Farias

14:00-15:00 Lunch

**III I Part**

**ANATOMY AND ENDO-MICROSURGICAL STRATEGIES IN SPECIAL APPROACHES TO THE BRAIN:**

(Lectures, Demo & Lab Dissection-Heads)

15:00-19:00

**Basic Anatomical And Surgical Principles i Skull Base Surgery.**

Rationale in the selection of open and endoscopic skull base approaches.

Dr. J.C. Fernández Miranda

**Basic Principles of Petrous Bone Anatomy and Surgery. Retro and Translabyrinthic Approaches.**

An excellet opportunity to learn the most classical cranial base approach.

Dr. J. Gisbert

Adjourn Course