

# IV. EGE BIENNIAL INTERNATIONAL NEUROSCIENCE GRADUATE SUMMER SCHOOL

(IV. EGE BINGSS)

25-29 June 2007

## “DEVELOPMENTAL, DEGENERATIVE AND RESTORATIVE NEURAL PLASTICITY 4”

WITH SPECIAL FOCUS ON

“PROGRESS IN RESEARCH ON & IMPLEMENTATIONS WITH NEURAL  
& MESENCHYMAL STEM CELLS: ADVANCEMENTS FROM DISH TO BEDSIDE”

&

“UNVEILING THE HUMAN CNS NEURAL NETWORKS”

&

“DESIGN-BASED NEURO-STEREOLOGY”

Hosted by:

Ege University Faculty of Medicine and Centre for Brain Research, Dept. of Physiology & Faculty of Science, Dept. of Biotechnology Izmir, Turkey

### Faculty / Lecture / Practical

**Jose R ALONSO:** DATA LECTURE: Preneurodegeneration and plastic responses after neurodegenerative processes in the brain  
NEUROMETHODS & NEUROHISTORY LECTURE: Golgi methods

**Michael SHIPLEY:** DATA & BASIC FACTS LECTURE: From molecules to networks: Neurobiology of olfactory bulb glomeruli

**Taner DAĞCI:** DATA LECTURE: Spinal Cord Injury Restoration by Neural Stem Cells,

NEUROMETHODS LECTURE: Isolation & Development of Neural Stem Cells,

LAB DEMO & HANDS-ON PRACTICAL: Isolation & Development of Neural Stem Cells

**Reha ERZURUMLU:** NEUROMETHODS LECTURE: Modern anatomical techniques

**S. İsmet DELİLOĞLU GURHAN:** BASIC FACTS LECTURE: Bone marrow stromal cells and differentiation into osteoblasts

LAB DEMO & HANDS-ON PRACTICAL: Isolation of rat bone marrow stromal cells

**David KAPLAN:** DATA & BASIC FACTS LECTURE 1: Neurotrophins and neuronal survival and growth,

DATA & BASIC FACTS LECTURE 2: Cancer stem cells in the nervous system

**Freda MILLER:** DATA & BASIC FACTS LECTURE 1: The p53 family and neuronal life versus death,

DATA & BASIC FACTS LECTURE 2: Neural stem cells: Novel signals and sources

**Ken MOYA:** DATA & BASIC FACTS LECTURE: Axonal transport in the normal brain and in neurodegenerative diseases,

DATA LECTURE: Presynaptic amyloid precursor protein and synaptic function in Alzheimer's disease,

INTERACTIVE WORKSHOP: Critical review of a scientific paper

**Robert T. RUBIN:** NEUROMETHODS LECTURE 1: Beyond statistics,

NEUROETHICS / PROFESSIONAL SKILLS INTERACTIVE LECTURE 2: Whose bread I eat, his song I sing: Ethical conflict resolution in bioscience

**Christoph SCHMITZ:** DATA & BASIC FACTS LECTURE: Neuronal loss in aging and Alzheimer's Disease: Principals and mechanisms,

WORKSHOP: Design-based stereology in neuroscience

**Harry STEINBUSCH:** DATA LECTURE: Nitric Oxide mediated cGMP-Positive structures in the rat brain

**Kemal TÜRKER:** NEUROMETHODS AND DATA LECTURE : Methods for determining the synaptic connection between neurons in the human nervous system,

LAB DEMO & PRACTICAL: Motor unit experiments in search for synaptic connections between neurons (Flawless method of single unit peristimulus frequencygram)

**Carlos VICARIO:** DATA LECTURE: Differentiation of glutamatergic, GABAergic and Dopaminergic neurons from cultured and transplanted neural stem/progenitor cells

NEUROMETHODS LECTURE: The use of transplantation-based cell therapy approaches for Parkinson's disease

### Sponsors / Organisers

#### NEUROSCIENCE SOCIETY OF TURKEY (TÜBAS)

Ege University Centre for Brain Research (EÜBAM)

Louisiana State University Health Sciences Center (LSUHSC)

Turkey Chapter of the Society for Neuroscience (SfN-Turkey)

Ege University Faculty of Medicine, Research and Education Laboratories (AREL)

### Supporters

Scientific and Technical Research Council of Turkey (TUBITAK)

Ege University Science and Technology Center (EBILTEM)

MICROBRIGHTFIELD – Gantenbein

### Directors

Gönül Ö. Peker, PhD & Reha Erzurumlu, PhD

### Venue

Ege University Faculty of Medicine, Muhittin Erel Hall, Ege University Center for Brain Research Labs, and EBILTEM Labs, Izmir, Turkey

### Language:

English

### Application & Information

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