



EGE VI.<sup>TH</sup> BIENNIAL INTERNATIONAL NEUROSCIENCE GRADUATE SUMMER SCHOOL

# *Ege Bingss 2011*



WELCOME  
HISTORICAL BACKGROUND  
INTRODUCTION & ORIENTATION  
ACKNOWLEDGEMENTS

# Welcome

## Opening Remarks

### Prof. Gönül Ö. Peker (PT, MSc, PhD)

- Host
- Chair E.U.F.M. Dept. Physiology
- President NST;
- Founder & Co-Director, EGE-BINGSS

### Prof. Reha Erzurumlu (MA, MSc, PhD)

- University of Maryland School of Medicine Dept. Neurobiology and Anatomy
- Founder & Co-Director, EGE-BINGSS

### Prof. Yeşim Kirazlı (MD)

- Host
- E.U.F.M. Dept. Physical Therapy & Rehabilitation
- Vice for Dean for Academic Research, Bio-medical R & D, Management of Intramural Support for Research Grants and Laboratories E.U.F.M.

**All Time Dedicated Friends and Newcomers,  
You are All Very Welcome to the VI. EGE-BINGSS in Izmir, Türkiye!**

**It is a great pleasure and honor to meet the newcomers,  
and to see several of you again.**


We are grateful for your invaluable contributions to and participation in the VIth EGE-BINGSS which has now evolved into a prestigious tradition.

The devoted faculty of EGE-BINGSS has always been international.

For the second time this year, the VI. EGE-BINGSS is very fond and proud to welcome international student participation from Azerbaijan, Denmark, Hungary, Lithuania, Ukraine, Romania, and the USA.

Please help us meet the ultimate aim of EGE-BINGSS by communicating and interacting as much as possible to minimize / eliminate hierarchy, to maximize intercultural exchange, and teaching / learning from each other, and to establish new friendships as well as educational / professional bonds and networking.

**Enjoy the VI. EGE-BINGSS !**

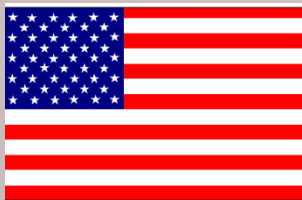
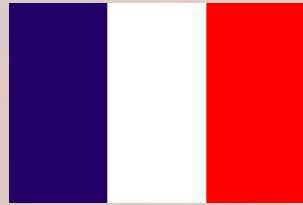
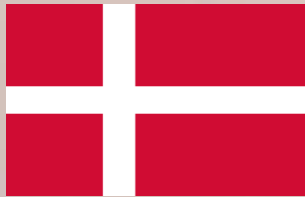


The traditional EGE-BINGSS' vision is to advance the knowledge, technical skills, and professional attitudes of neuroscientists in Turkey...

...BALKANS, CENTRAL & EASTERN EUROPE, MEDITERRANIAN, MIDDLE EAST, BLACK SEA REGION, THE TURCIC STATES, AND ALL OTHER PARTICIPATING COUNTRIES ON A NON-PROFIT BASIS.

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# Objectives

## EGE-BINGSS aims to introduce...

- eminent, devoted and role-model international neuroscientists and teaching faculty
- to graduate and selected undergraduate students
- for transfer of knowledge and know-how.

## EGE-BINGSS also creates ...

- opportunities for networking and encouragement of new international, inter-institutional, multi-professional, and multi-disciplinary collaborations for research,
- education and translational community outreach.

## EGE-BINGSS's major target is junior neuroscientists.

## EGE-BINGSS addresses its purpose by...

- holding 4-6 day comprehensive theoretical and practical sessions in lively interactive and stimulating learning environments where:
- thematic fundamentals, state of the art methodology, very recent data, neuro-professional skills, neurophilosophy and neuroethics are covered.

Social events related to “culture-hunting” and historical site-seeing constitute an important part of the educational experience.



# Ege Bingss 2011

We have come a long way; 12 years !



# Ege Bingss 2011

## Organizers

- Ege University
- EUFM Dept. of Physiology
- Neuroscience Society of Turkey (TÜBAS)
- Turkey Chapter of SfN

## Major Sponsors

- Scientific & Technical Research Council of Turkey (TÜBİTAK)
- Ege University
- IAC-USNC / IBRO
- SfN International Affairs Committee
- National Academy of Sciences (NAS) of the U.S.A.
- United States National Committee for IBRO
- Society for Neuroscience (SfN), USA

All & Every Single Eminent, Devoted Hosting, Turkish & International Faculty



# Ege Bingss 2011

## Founders & Directors

- Gönül Ö. Peker & Reha Erzurumlu

## Coordinators

- Vedat Evren, Robert T. Rubin, Kenneth Moya

## Communications & Web Master

- Vedat Evren

## Creative & Artistic Solutions

- Merve Evren

## Organizers & Lab Course Assistants

- Vedat Evren, Oytun Erbaş, Gonca Mola, Merve Evren, Egemen Kaya, Melih Dağdeviren, Eylül Bakkal

## Support Team

- Hatice Arsoy, Aylin Suyabatmaz, Mualla Yılmaz, Mustafa & Ömer & Selma

Ege University Rectorate  
Vice Rector Prof. Atilla Silkü & Pre-rector Prof. Rafet Saygılı

Ege University Faculty of Medicine, Dean's Office  
**Special Thanks**  
Vice Dean Yeşim Kirazlı

Ege University Hospital Administration

Department of Anatomy & Neurobiology, University of Maryland School of Medicine, Baltimore

Dept. of Anatomy, Chair Prof. Tomris Özgür

**Professors / Educators**

Reha Erzurumlu, Robert T. Rubin, Kenneth Moya, Larry Young, Anne Etgen,  
Donald Sakaguchi, Larry Benowitz, Michael Rhodes, Emel Ulupınar, Gülgün Şengül,  
Ali Saffet Gönül, Serdar Demirgören, Ergi Deniz Özsoy, Tülin Yanık, Michelle Adams, Serkut Kızanlıklılı, Vedat Evren,  
Amanda Skwara

**Administrative Experts / Correspondents / Facilitators / Mediators**

India Hook-Barnard, Marilee Shelton-Davenport, Claire MacDonald, Lori Bocek, Murat Baloğlu

Robert T. Rubin's, Kenneth Moya's, and Emel Ulupınar's 4th EGE-BINGSS

**SIG, WET LAB, MULTI-MEDIA LAB Coordinators / Educators**

Reha Erzurumlu, Anne Etgen, Gülgün Şengül, Emel Ulupınar, Michael Rhodes,  
Kenneth Moya, Robert T. Rubin, Larry Benowitz, Serkut Kızanlıklılı, Vedat Evren,  
Coşan Terek, Özlem Yılmaz, Oytun Erbaş, Gonca Mola, Amanda Skwara

Ege University Center for Brain Research (**EÜBAM**)

Dept. of **Anatomy** & Dept. of **Physiology**

Ege University Center for Information Technologies Research (**BİTAM**)

# Global Learning Issues

## Competence & Performance Objectives of VI. EGE-BINGSS

### Reinforce / advance the participants'

Basic understanding of causality, and detecting and identifying correlation versus cause-effect in problem solving in neuroscience.

Scope to a higher level by introducing the neuroscientific facts and processes that require complexity science approaches.

General perceptions with regards to

evolutionary and developmental aspects

- *genetics and / vs epigenetics*
- *genotypes and / vs phenotypes*

Knowledge of essential mechanisms relevant to plasticity underlying neurodevelopment, neurodegeneration and neurorepair with state of the art research data.

# Global Learning Issues

## Competence & Performance Objectives of VI. EGE-BINGSS

### Improve the participants' sound conceptualization

*Of the basics, myths, restraints and the potential future capacities of relating brain (the entire nervous system and its essential partners, endocrine and immune systems with respect to their interactions / communication) and behavior.*

*Of the individuality and multi-directional dependence of the structure, function and behavior relevant to neuroscience.*

*Of the physiological and pathological (clinical), and also behavioral relevance and significance of all the nervous system related morphology and dynamics.*

*Of the mandate for reductionism and simplicity to improve the ultimate understanding of the human and other organisms as bio-psycho-social entities.*

*Of the endless / ever growing need for basic neuroscience, and meantime the pragmatic and trendy approaches / drives relevant to translational science.*

# Global Learning Issues

## Competence & Performance Objectives of VI. EGE-BINGSS

Familiarize the learners with state of the art approaches, methodologies and techniques ranging from basic behavioral observations in semi-natural to paradigmatic environments, to systems level, and to the most reductionistic, sophisticated contemporary probings at the cellular and molecular levels.

Expose participants and enable them to acquire and to advance their

- Animal handling, observation, behavioral assessment;
- Dissection, organ, tissue or cell derivation, isolation, treatment, processing;
- Data collection, management and optimal utilization
  - ...skills in the bio-medical lab courses relevant to the specific theme of the current EGE-BINGSS.

# Global Learning Issues

## Competence & Performance Objectives of VI. EGE-BINGSS

Expose participants to social issues; challenge and enable them to acquire and advance their perceptions and attitudes related to neuro–philosophical and neuro-ethical issues, and intercultural problematics.

Help participants to acquire / improve

- Good conduct of experimentation and research in the lab and office by updating their knowledge of animal ethics, clinical trials, publication principles.
- Communication and survival skills like defining themselves, benefiting from career making opportunities, proposing a question, hypothesis, choosing the most efficient methodology, defending thesis, grant proposal, etc.
- Enhanced comprehension and critical review of scientific papers, and effective presentation and acceptable manuscript preparation skills.



# What ?

# Where?

- All Plenary Lectures: 20 May Auditorium
- Morning Coffee Breaks: 20 May Auditorium
- Lunch: Tennis Kafe
- Poster Session 20 May Auditorium
- Opening Reception: Tennis Kafe
- Multi-media Lab: Anatomy Dept.
- A. Etgen Lab: Multi-Disc. Unit 3
- M. Rhodes Lab: Physiology Dept.
- SIG 1: Physiology Dept.
- SIG 2: 20 May Hall
- SIG 3: Multi-Disc. Unit 4
- Mangal (Barbeque) Evening: Tennis Kafe
- Commencement Reception: 20 May Auditorium

Enjoy the  
**VI. EGE-BINGSS!**

