



EGE BINGSS



Ege Biennial International Neuroscience Graduate Summer School

Trends in Neurosciences:

Bridging new techniques with indispensables



www.egebings.org

Ege Bingss 2022

Ege Biennial International Neuroscience Graduate Summer School

INTRODUCTION to EGE BINGSS 2022

Dear Young and Promising, and Enthusiastically Wondering Future Neuroscientists,

It is with great pleasure that we welcome you on behalf of the Neuroscience Society of Turkey (TÜBAS) to the "8th Ege Biennial International Neuroscience Graduate Summer School" or with the traditional name EGE-BINGSS, that will be held in June 27-July 1, 2022, at the Ege University of İzmir.

The main topic of this year's program will be "Trends in Neurosciences: bridging the new techniques with indispensables" focusing on insights into new developments and new questions in health and disease through the art of different disciplines in modern intelligent times. EGE-BINGSS's program includes lectures to improve your theoretical knowledge in neuroscience, but you will also have the chance of joining wet labs and special interest groups (SIGs) to improve your academic/scientific skills but also get the opportunities for close communication and cooperation with the national and international faculty to build future networking.

We would like to inform you that EGE-BINGSS have applied to Turkish Research Council (TÜBİTAK) Grant, Society for Neuroscience (SfN) Chapter Grant, and IBRO-PERC Support. As the Organization Committee we wish that we will have the opportunity to help the student's accommodation, certain meals, and shuttle services coverings. We will continue to keep you informed of developments in this regard on our website.

We will do our best to capture the unforgettable spirit of EGE-BINGSS and have a great week benefiting from the basic and state of the art knowledge, know how, and wisdom harmonized with joy and colorful memories. Please help us meet the ultimate aim of EGE-BINGSS by joining our family and interacting as much as possible to consolidate long term learning, to offer all that you know, and to establish new friendships as well as educational / professional bonds and networking.

If you want to be amazed, and co-witness the exciting coherence, interference, interaction, and the "complex cause and effect affairs" of new trends in neurosciences, please join us to recognize, learn- and who knows- maybe collaborate with the lecturing eminent senior scientists and clinicians in pursuing the avenues for resolving the complex interactions in the nervous system both in homeostatic and pathological situations.

We very sincerely look forward to welcoming you all to the EGE-BINGSS at Ege University School of Medicine, in end June 2022.

EGE-BINGSS

Coordinators

FOUNDERS & HONORARY DIRECTORS

Prof. Dr. Gönül Peker

Biosketch



Prof. Dr. Reha Erzurumlu

Biosketch

VIII. EGE BINGSS TEAM

COORDINATORS

ORGANIZERS

SCIENTIFIC COMMITTEE

FACULTY

Assoc. Prof. Dr. Vedat Evren

Prof. Dr. Gülgün Şengül

Prof. Dr. Bayram Yılmaz

Prof. Dr. Arzu Aral

Prof. Dr. Emel Ulupınar

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Assoc. Prof. Dr. Aylin Şendemir

Assoc. Prof. Dr. Vedat Evren

Prof. Dr. Yasemin Gürsoy Özdemir

Prof. Dr. Hülya Üçerler

Assoc. Prof. Dr. Özlem Yılmaz

Assist. Prof. Dr. Burcu Ayşen Ürgen

Assoc. Prof. Dr. Özlem Yılmaz

Assoc. Prof. Dr. Herdem Aslan Genç

Dr. Yavuz Yavuz

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Assoc. Prof. Dr. Tevfik İlker Akçam

Assoc. Prof. Dr. Zafer Dökümcü

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Prof. Dr. Yannis Missirlis

Prof. Dr. Ferhan Sağın

Prof. Dr. Gülgün Şengül

Prof. Dr. Bayram Yılmaz

Prof. Dr. Emel Ulupınar

Prof. Dr. Arzu Aral

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Assoc. Prof. Dr. Cengiz Acartürk

Assoc. Prof. Dr. Özlem Yılmaz

Assoc. Prof. Dr. Herdem Aslan Genç

Assist. Prof. Dr. Burcu Ayşen Ürgen

Assist. Prof. Dr. Güven Akçay

Assist. Prof. Maria Veldhuizen

Assist. Prof. Dr. Robert Ian Bowers

Assist. Prof. Ausaf Farooqui

Dr. Yavuz Yavuz

Dr. Yasin Kaymaz

***8th Ege BINGSS was awarded by IBRO-PanEuropean Regional Committee (PERC) with Support for Soft Skills Training.**



Neuroscience Society of Turkey
TUBAS



Araştırma Eğitim Programı
Research Education Program



Ege University
Faculty of Medicine



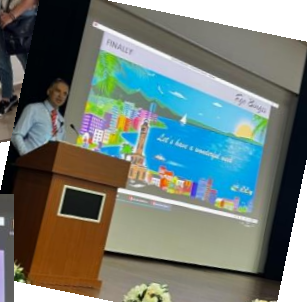
Ege University

8th Ege Biennial International Neuroscience Graduate Summer School 2022 PROGRAM

June 27, 2022 MONDAY

10:00 – 10:30	Opening Ceremony & Orientation	Prof. Dr. Necdet Budak Prof. Dr. Cemil Gürgün Prof. Dr. Gönül Peker Prof. Dr. Bayram Yılmaz Assoc. Prof. Dr. Vedat Evren
10:30 – 11:15	Basic Anatomy and Development of the Spinal Cord and Brain	Prof. Dr. Emel Ulupınar Prof. Dr. Gülgün Şengül
11:15 – 11:45	Coffee Break	
11:45 – 12:30	Basic Histology & Cell Biology of Neurons and Glia	Prof. Dr. Emel Ulupınar Prof. Dr. Gülgün Şengül Assoc. Prof. Dr. Özlem Yılmaz
12:30 – 13:30	LUNCH	
13:30 - 14:15	Biophysical effects of Immunoglobulin G in Amyotrophic Lateral Sclerosis – “from basic studies to biomedical devices” ***	Prof. Dr. Pavle Andjus
14:15 - 15:00	Neuroimaging Methods for Understanding Human Brain Function	Assist. Prof. Dr. Burcu Ayşen Ürgen
15:00 – 15:30	Coffee Break	
15:30 – 16:15	Multiple modes of intra and inter cellular communications, including neurons	Prof. Dr. Yannis F. Missirlis
16:15 - 17:00	Electrophysiological recording using “Patch Clamp” method	Dr. Yavuz Yavuz
17:00 – 18:00	Neuroscience – Present and Future: A Clinician’s Perspective ***	Prof. Dr. Robert Rubin
18:30 – 20:00	Opening Reception	Foyer of Muhiddin Erel Lecture Hall

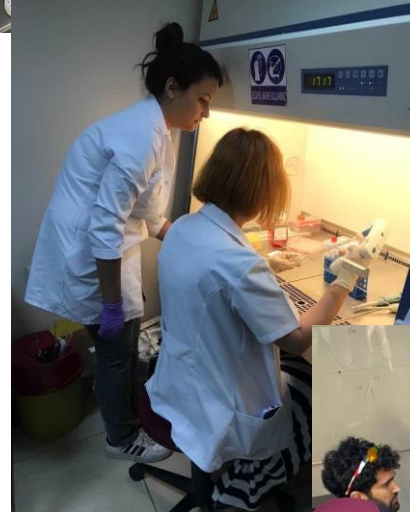
*** Online lecture



8th Ege Biennial International Neuroscience Graduate Summer School 2022
PROGRAM

June 28, 2022 TUESDAY

09:00 – 09:45	3D Cell Culture Techniques	Assoc. Prof. Dr. Aylin Şendemir
09:45 – 10:15	Coffee Break	
10:15 – 12:00	WET LAB (Mandatory for Everyone): CENTRAL NERVOUS SYSTEM ANATOMY	Prof. Dr. Emel Ulupinar Prof. Dr. Gülgün Şengül Prof. Dr. Hülya Üçerler Assoc. Prof. Dr. Özlem Yılmaz
12:00 – 13:00	LUNCH	
13:00 – 15:00	WET LAB (A): 3D CELL CULTURE - DAY(1)	Assoc. Prof. Dr. Aylin Şendemir Ece Bayır Pelin İlhan Ecenaz Namlı Zehra Gül Morçimen Fatmanur Kutlu Barış Güliçli Tunç Eren Akay Buse Kayhan Dilara Lal Lal
13:00 – 15:00	WET LAB (B): ELECTROPHYSIOLOGY and CURRENT TECHNIQUES - DAY(1)	Assoc. Prof. Dr. Vedat Evren Dr. Yavuz Yavuz
13:00 – 15:00	WET LAB (C): ANIMAL MODELS for NEURODEGENERATIVE DISEASES - DAY(1)	Assist. Prof. Dr. Güven Akçay
15:00 – 15:30	Coffee Break & Return to the Venue	
15:30 – 17:30	SIG – A (<i>Special Interest Group</i>): MIND & CONCEPT MAPPING	Prof. Dr. Gönül Peker Prof. Dr. Arzu Aral
15:30 – 17:30	SIG – B (<i>Special Interest Group</i>): BIOINFORMATICS	Dr. Yasin Kaymaz
15:30 – 17:30	SIG – C (<i>Special Interest Group</i>): PATTERN ANALYSIS METHODS in NEUROSCIENCE	Assist. Prof. Dr. Burcu Ayşen Ürgen Assist. Prof. Ausaf Farooqui
18:00 – 19:30	INTERACTIVE TRAINING: The ABC of Research Project Writing	Prof. Dr. Ferhan Sağın
	Dinner on your own	



8th Ege Biennial International Neuroscience Graduate Summer School 2022
PROGRAM

June 29, 2022 WEDNESDAY

09:00 – 09:45	Use of Optogenetic and Chemogenetic Methods in Transgenic Mouse Models	Prof. Dr. Bayram Yılmaz
09:45 - 10:30	The place and importance of virally mediated gene transfer technology in neuroscience studies	Prof. Dr. Emel Ulupinar
10:30 – 11:00	Coffee Break	
11:00 – 11:45	Virtual Reality and Human Behavioral Responses Measurement	Assoc. Prof. Dr. Herdem Aslan Genç
11:45 - 12:30	Studying transgenic animals in Multiple Sclerosis Research: Ablation of Pericytes	Prof. Dr. Yasemin Gürsoy Özdemir
12:30 – 13:30	LUNCH	
13:30 – 15:30	WET LAB (A): 3D CELL CULTURE - DAY(2)	Assoc. Prof. Dr. Aylin Şendemir Ece Bayır Pelin İlhan Ecenaz Namlı Zehra Gül Morçimen Fatmanur Kutlu Barış Güliçli Tunç Eren Akay Buse Kayhan Dilara Lal Lal
13:30 – 15:30	WET LAB (B): ELECTROPHYSIOLOGY and CURRENT TECHNIQUES - DAY(2)	Assoc. Prof. Dr. Vedat Evren Dr. Yavuz Yavuz
13:00 – 15:00	WET LAB (C): ANIMAL MODELS for NEURODEGENERATIVE DISEASES - DAY(2)	Assist. Prof. Dr. Güven Akçay
15:30 – 16:00	Coffee Break & Return to the Venue	
16:00 – 18:00	SIG – A (<i>Special Interest Group</i>): MIND & CONCEPT MAPPING	Prof. Dr. Gönül Peker Prof. Dr. Arzu Aral
16:00 – 18:00	SIG – B (<i>Special Interest Group</i>): BIOINFORMATICS	Dr. Yasin Kaymaz
16:00 – 18:00	SIG – C (<i>Special Interest Group</i>): PATTERN ANALYSIS METHODS in NEUROSCIENCE	Assist. Prof. Dr. Burcu Ayşen Ürgen Assist. Prof. Ausaf Farooqui
18:00 – 18:15	Coffee Break	
18:15 - 19:00	Your brain in Metaverse *** Dinner on your own	Prof. Dr. Banu Onaral

*** Online lecture



8th Ege Biennial International Neuroscience Graduate Summer School 2022
PROGRAM

June 30, 2022 THURSDAY

09:00 – 09:45	How fMRI studies has changed our approach to our understanding of brain functions in Psychiatry?	Prof. Dr. Ali Saffet Gönül
09:45 - 10:30	Neuromodulation with transcutaneous vagus nerve stimulation, best practices and pitfalls	Assist. Prof. Maria Veldhuizen
10:30 – 11:00	Coffee Break	
11:00 – 11:45	Exosomes on neurological field: Where we are ***	Assoc. Prof. Dr. Barbara Zavan
11:45 – 12:30	Basics and molecular imaging technics of neuroinflammation	Prof. Dr. Arzu Aral
12:30 – 13:30	LUNCH	
13:30 – 15:30	WET LAB (A): 3D CELL CULTURE - DAY(3)	Assoc. Prof. Dr. Aylin Şendemir Ece Bayır Pelin İlhan Ecenaz Namlı Zehra Gül Morçimen Fatmanur Kutlu Barış Güliçli Tunç Eren Akay Buse Kayhan Dilara Lal Lal
13:30 – 15:30	WET LAB (B): ELECTROPHYSIOLOGY and CURRENT TECHNIQUES - DAY(3)	Assoc. Prof. Dr. Vedat Evren
13:30 – 15:30	WET LAB (C): ANIMAL MODELS for NEURODEGENERATIVE DISEASES - DAY(3)	Assist. Prof. Dr. Güven Akçay
15:30 – 16:00	Coffee Break & Return to the Venue	
16:00 – 18:00	SIG – A (<i>Special Interest Group</i>): MIND & CONCEPT MAPPING	Prof. Dr. Gönül Peker Prof. Dr. Arzu Aral
16:00 – 18:00	SIG – B (<i>Special Interest Group</i>): BIOINFORMATICS	Dr. Yasin Kaymaz
16:00 – 18:00	SIG – C (<i>Special Interest Group</i>): PATTERN ANALYSIS METHODS in NEUROSCIENCE	Assist. Prof. Dr. Burcu Aşşen Ürgen Assist. Prof. Ausaf Farooqui
18:00 – 19:30	INTERACTIVE TRAINING: How to Make an Effective Oral Presentation	Prof. Dr. Ferhan Sağın
20:00 - 24:00	FAREWELL PARTY	Buenas

*** Online lecture



*Farewell Party
June 30, 2022*



8th Ege Biennial International Neuroscience Graduate Summer School 2022 PROGRAM

July 1, 2022 FRIDAY

08:30 - 09:00	What IBRO offers for young neuroscientists: scholarships, trainings, courses and beyond	Prof. Dr. Gülgün Şengül
09:00 - 09:45	Modelling systems of behaviour	Assist. Prof. Dr. Robert Ian Bowers
09:45 - 10:30	What psychology can learn from neurology?	Assist. Prof. Ausaf Farooqui
10:30 - 11:00	Coffee Break	
11:00 - 11:45	Neuroscience, Digital Technologies and Artificial Intelligence: A Troublesome Gathering for Humanity?	Assoc. Prof. Dr. Cengiz Acartürk
11:45 - 12:30	Closing Ceremony	
14:00 - 19:00	İzmir City Tour	





«Culture Hunting»
İzmir City Tour
July 01, 2022

«Culture Hunting»: Ephesus Tour
July 02, 2022





8th EGE BINGSS June 27-July 1, 2022 / İzmir