

# 19th Turkish Neuroscience Congress

## 21–23 November 2021, Online, Turkey

### Program Schedule

#### 21 November 2021, Sunday

##### Breakout Room A

- 10.00–12.30 **Workshop 1: Comparative analysis of human brain and spinal cord anatomy using high resolution imaging techniques**  
Anatomy of brain stem and spinal cord in rat and human  
Gülğün Şengül
- Cross-sectional anatomy of the human  
Emel Ulupınar
- Normal and pathological neuro-radiological imaging  
Uğur Toprak

##### Breakout Room B

- 10.00–12.30 **Workshop 2: Experimental models for neurological and neuropsychiatric diseases**  
Experimental models for neuropsychiatric diseases: general principles, behavioral tests and model examples for anxiety, depression and schizophrenia  
Tayfun Uzbay
- Ischemia-reperfusion and trauma models  
Ertuğrul Kılıç
- Experimental epilepsy models  
Güven Akçay
- Experimental Parkinson models  
Dilara Nemutlu

12.30–12.45 **Break**

12.45–13.15 **Congress opening**  
Bayram Yılmaz / *President, Neuroscience Society of Turkey*

**Respect to masters session**  
Gönül Peker / *To the Memory of Prof. Dr. Lokman Öztürk*

13.15–14.15 **Conference 1**  
**Chair:** Bayram Yılmaz  
The logistics of protein supply at synapses  
Erin Schuman

14.15–14.30 **Break**

##### Breakout Room A

14.30–16.15 **Oral Presentations – I (O-01–O-07)**  
**Chairs:** Erdem Tüzün & Hülya Karataş Kurşun

**Breakout Room B**

14.30–16.15 **Oral Presentations – I (O-54–O-60)**  
Chairs: Görsev Yener & Meltem Bahçelioğlu

**Breakout Room C**

14.30–16.15 **Oral Presentations – I (O-61–O-67)**  
Chairs: Hale Sayan Özçmak & Ramazan Bal

16.15–16.30 **Break**

**Breakout Room A**

16.30–18.00 **Panel 1: Changing technology in a changing world – Digital transformation in health: theory and practice**

Chairs: M. Aydın Sav & Hakan Gürvit

Digital transformation and big data management in health

Özgür Teke

Image analysis is a process that starts from fractals to deep learning

Hakan Sarbanoğlu

Digital pathology and application areas

Antonio Di Ieva

Digital pathology in diagnostic neuropathology

M. Aydın Sav

**Breakout Room B**

16.30–18.00 **Panel 2: Neuro-COVID**

Chairs: Hayrünisa Bolay & Arzu Aral

COVID-19 learnings from headache

Hayrünisa Bolay

COVID-19 and neurological complications

Betül Baykan

Neuroimmunological action mechanisms of SARS-CoV-2

Arzu Aral

18.00–19.00 **Conference 2**

Chair: Gülgün Şengül

Reassessment of visual thalamus synaptic circuitry using volumetric reconstructions and statistical modeling

Alev Erişir

**22 November 2021, Monday**

**Breakout Room A**

10.00–12.00 **Oral Presentations – II (O-08–O-17)**  
Chairs: Müge Yemişçi Özkan & Şermin Genç

**Breakout Room B**

10.00–12.00 **Oral Presentations – II (O-38–O-45)**  
Chairs: Işıl Aksan Kurnaz & Neslihan Serap Şengör

**Breakout Room C**

10.00–12.00 **Oral Presentations – II (O-46–O-53)**  
Chairs: Feyza Arıcıoğlu & Metehan Çiçek

12.00–12.30 **Lunch Break**

12.30–13.30	<b>Conference 3</b> <b>Chair:</b> Emel Ulupınar AI-based imaging methods for the next-generation biomedical solutions Ali Ertürk
13.30–14.00	<b>Zeiss presentation</b>
14.00–14.10	<b>Break</b>
<b>Breakout Room A</b>	
14.10–15.30	<b>Poster Presentations – I (PP-01–PP-15)</b> <b>Chairs:</b> Ahmet Ayar & Aylin Yaba Uçar
<b>Breakout Room B</b>	
14.10–15.30	<b>Poster Presentations – I (PP-06–PP-30)</b> <b>Chairs:</b> Arzu Aral & Esra Battaloğlu
15.30–15.45	<b>Break</b>
<b>Breakout Room A</b>	
15.45–17.45	<b>Symposium 1: Regulation of feeding by hypothalamic circuits</b> <b>Chairs:</b> Deniz Atasoy & Ali Deniz Güler Restriction of food intake by dorsomedial hypothalamus Caner Çağlar <hr/> Regulation of food intake by $\mu$ -opioid receptors on AgRP neurons Yavuz Yavuz <hr/> Regulation of leptin sensitivity and energy homeostasis by histone deacetylase 6 Işın Çakır <hr/> Dopamine receptor 1 in the AgRP-neurons control the size of rewarding meals Ali Deniz Güler
<b>Breakout Room B</b>	
15.45–17.45	<b>Symposium 2: Neuroscience application areas: aviation, cyber security and neuroarchitecture</b> <b>Chairs:</b> Gönül Peker & Cengiz Acartürk Neuroergonomics: applications of neuroscience in aviation psychology & ergonomics Murat Perit Çakır <hr/> The use of neuroscience in information and communication technologies: end user applications and cyber security perspectives Cengiz Acartürk <hr/> Neuroarchitecture: how do we design the built environment taht is informed from neuroscience? Burcu Ayşen Ürgen
<b>Breakout Room C</b>	
15.45–17.45	<b>Panel 3: Chronobiology and circadian rhythm disorders: a multidisciplinary perspective</b> <b>Chairs:</b> Lütfü Hanoğlu & Aliye Tuğba Bahadır Sleep-wake physiology and circadian rhythms Serpil Çeçen <hr/> Sleep, circadian rhythms, psychiatric disorders in childhood and adolescence Aliye Tuğba Bahadır <hr/> Childhood epilepsy, sleep and circadian rhythms Dilşad Türkdöğen
17.45–18.00	<b>Break</b>
18.00–19.00	<b>Conference 4</b> <b>Chair:</b> Yasemin Gürsoy Özdemir Spreading depression: brain's antiepileptic protective mechanism Cenk Ayata

**23 November 2021, Tuesday**

**Breakout Room A**

10.00–11.30 **Oral Presentations – III (O-16–O-21)**  
**Chairs:** Hayrinnisa Bolay & Erkan Kılınc

**Breakout Room B**

10.00–11.30 **Oral Presentations – III (O-27–O-32)**  
**Chairs:** Tamer Demiralp & Lütfiye Kanıt

**Breakout Room C**

10.00–11.30 **Oral Presentations – III (O-68–O-73)**  
**Chairs:** Haluk Keleştimur & Selim Kutlu

11.30–11.45 **Break**

11.45–12.45 **Conference 5**  
**Chair:** Ertuğrul Kılıç  
Engineering brain activity patterns for therapeutics of disorders  
Mehmet Fatih Yanık

12.45–13.00 **COMMAT presentation**

13.00–13.30 **Lunch Break**

**Breakout Room A**

13.30–14.45 **Oral Presentations – VI (O-22–O-26)**  
**Chairs:** Ersin Koylu & Burak Güçlü

**Breakout Room B**

13.30–14.45 **Oral Presentations – VI (O-33–O-37)**  
**Chairs:** Nuhan Puralı & Bahar Güntekin

**Breakout Room C**

13.30–14.45 **Oral Presentations – VI (O-74–O-78)**  
**Chairs:** Süleyman Sandal & Güvem Gümüş Akay

14.45–15.00 **Break**

15.00–16.00 **Conference 6**  
**Chair:** Erdal Ağar  
The “common currency” of brain and mind – A spatiotemporal approach  
Georg Northoff

16.00–16.15 **Break**

**Breakout Room A**

16.15–17.45 **Panel 4: Past, Present and Future of Neuroscience**  
**Chairs:** Emel Ulupınar & Bayram Yılmaz  
30 years of Hacettepe University Neurological Science PhD Program  
Turgay Dalkara  
Brief history of national neuroscience meetings (2001–2021)  
İsmail Hakkı Ulus  
Nobel Prizes: two warm and touchy subjects and future perspectives  
Gürkan Öztürk

**Breakout Room B**

16.15–17.45

**Symposium 3: Applications of nanobiotechnology in neuroscience****Chairs:** Ahmet Hacımüftüođlu & Mehmet KayaNano-drug delivery applications in management of neurological diseases and brain tumors  
Sibel Bozdađ PehlivanExosomal delivery of therapeutic modulators through the blood–brain barrier  
Morteza Heidarzadeh3D hydrogel organoid platforms for the representation of neurological disease models  
Emel SokulluThe role of gold nanoparticles in drug delivery to the brain; preclinical experiences  
Mehmet Kaya

17.45–18.15

**Awards & Closing Ceremony**