19th Turkish Neuroscience Congress

21 – 23 November 2021

Online



Time is indicated according to the local time in Istanbul, Turkey

14:30 - 16:15

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21 November 2021 Sunday		
10:00 - 12:30	Workshop 1 (Breakout Room A): Comparative Analysis of Human Brain and Spinal Cord Anatomy Using	
	High Resolution Imaging Techniques	
	Gülgün Şengül: Anatomy of Brain Stem and Spinal Cord in Rat and Human	
	Emel Ulupınar: Cross-Sectional Anatomy of the Human Brain	
	Uğur Toprak: Normal and Pathological Neuro-Radiological Imaging	
10:00 - 12:30	Workshop 2 (Breakout Room B): Experimental Models for Neurological and Neuropsychiatric Diseases	
	Tayfun Uzbay: Experimental Models for Neuropsychiatric Diseases: General Principles, Behavioral Tests	
	and Model Examples for Anxiety, Depression and Schizophrenia	
	Ertuğrul Kılıç: Ischemia-Reperfusion and Trauma Models	
	Güven Akçay: Experimental Epilepsy Models	
	Dilara Nemutlu: Experimental Parkinson Models	
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	
	Erin Schuman: The Logistics of Protein Supply at Synapses	
	Chair: Bayram Yılmaz	
14:15 - 14:30	Break	

Oral Communications – I (Breakout Room A) (OC01-OC07)

Oral Communications – I (Breakout Room B) (OC54-OC60)

Chairs: Erdem Tüzün & Hülya Karataş Kurşun

Chairs: Görsev Yener & Meltem Bahçelioğlu

14:30 – 16:15 Oral Communications – I (Breakout Room C) (OC61-OC67) Chairs: Hale Sayan Özaçmak & Ramazan Bal 16:15 - 16:30Break 16:30 - 18:00Panel 1 (Breakout Room A): Changing Technology in a Changing World- Digital Transformation in Health: Theory and Practice Özgür Teke: Digital Transformation and Big Data Management in Health Hakan Sarbanoğlu: Image Analysis is a Process that Starts from Fractals to Deep Learning Antonio Di Ieva: Digital Pathology and Application Areas M. Aydın Sav: Digital Pathology in Diagnostic Neuropathology Chairs: M. Aydın Sav & Hakan Gürvit 16:30 - 18:00Panel 2 (Breakout Room B): Neuro-COVID Hayrünnisa Bolay: COVID-19 Learnings from Headache Betül Baykan: COVID-19 and Neurological Complications Arzu Aral: Neuroimmunological Action Mechanisms of SARS-CoV-2 Chairs: Hayrünnisa Bolay & Arzu Aral 18:00 - 19:00**Conference 2** Alev Erişir: Reassessment of Visual Thalamus Synaptic Circuitry Using Volumetric Reconstructions and Statistical Modeling Chair: Gülgün Şengül 22 November 2021 Monday

10:00 - 12:00	Oral Communications – II (Breakout Room A) (OC08-OC15)
	Chairs: Müge Yemişçi Özkan & Şermin Genç
10:00 - 12:00	Oral Communications – II (Breakout Room B) (OC38-OC45)
	Chairs: Işıl Aksan Kurnaz & Neslihan Serap Şengör
10:00 - 12:00	Oral Communications – II (Breakout Room C) (OC46-OC53)
	Chairs: Feyza Arıcıoğlu & Metehan Çiçek
12:00 - 12:30	Lunch Break
12:30 – 13:30	Conference 3
	Ali Ertürk: AI-Based Imaging Methods for the Next-Generation Biomedical Solutions
	Chair: Emel Ulupınar
13:30 – 14:00	Zeiss presentation
14:00 - 14:10	Break
14:10 – 15:30	Poster Communications (Breakout Room A) (PC01-PC15)
	Chairs: Ahmet Ayar & Aylin Yaba Uçar
14:10 – 15:30	Poster Communications (Breakout Room B) (PC16-PC30)
	Chairs: Arzu Aral & Mete Özcan
15:30 – 15:45	Break
15:45 – 17:45	Symposium 1 (Breakout Room A): Regulation of Feeding by Hypothalamic Circuits
	Caner Çağlar: Restriction of Food Intake by Dorsomedial Hypothalamus
	Yavuz Yavuz: Regulation of Food Intake by μ-Opioid Receptors on AgRP Neurons
	Işın Çakır: Regulation of Leptin Sensitivity and Energy Homeostasis by Histone Deacetylase 6

Ali Deniz Güler: Dopamine Receptor 1 in the AgRP-Neurons Control the Size of Rewarding Meals Chairs: Deniz Atasoy & Ali Deniz Güler

15:45 – 17:15 **Symposium 2** (Breakout Room B): Neuroscience Application Areas: Aviation, Cyber Security and

Neuroarchitecture

Murat Perit Çakır: Neuroergonomics: Applications of Neuroscience in Aviation Psychology & Ergonomics

Cengiz Acartürk: The Use of Neuroscience in Information and Communication Technologies: End User

Applications and Cyber Security Perspectives

Burcu Aysen Ürgen: Neuroarchitecture: How Do We Design the Built Environment taht is Informed from

Neuroscience?

Chairs: Gönül Peker & Arzu Karabay

15:45 – 17:15 **Panel 3** (Breakout Room C): Chronobiology and Circadian Rhythm Disorders: A Multidisciplinary

Perspective

Serpil Çeçen: Sleep-Wake Physiology and Circadian Rhythms

Aliye Tuğba Bahadır: Sleep, Circadian Rhythms, Psychiatric Disorders in Childhood and Adolescence

Dilşad Türkdoğan: Childhood Epilepsy, Sleep and Circadian Rhythms

Chairs: Lütfü Hanoğlu & Aliye Tuğba Bahadır

17:45 – 18:00 Break

18:00 – 19:00 **Conference 4**

Cenk Ayata: Spreading Depression: Brain's Antiepileptic Protective Mechanism

Chair: Yasemin Gürsoy Özdemir

23 November 2021 Tuesday

10:00 - 11:30	Oral Communications – III (Breakout Room A) (OC16-OC21)
	Chairs: Sacit Karamürsel & Erkan Kılınç
10:00 - 11:30	Oral Communications – III (Breakout Room B) (OC27-OC32)
	Chairs: Tamer Demiralp & Lütfiye Kanıt
10:00 - 11:30	Oral Communications – III (Breakout Room C) (OC68-OC73)
	Chairs: Haluk Keleştimur & Selim Kutlu
11:30 – 11:45	Break
11:45 – 12.45	Conference 5

Mehmet Fatih Yanık: Engineering Brain Activity Patterns for Therapeutics of Disorders

Chair: Ertuğrul Kılıç

12:45 – 13:00 COMMAT presentation

13:00 – 13:30 Lunch Break

13:30 – 14:45 Oral Communications - IV (Breakout Room A) (OC22-OC26)

Chairs: Ersin Koylu & Burak Güçlü

13:30 – 14:45 Oral Communications - IV (Breakout Room B) (OC33-OC37)

Chairs: Nuhan Puralı & Bahar Güntekin

13:30 – 14:45 Oral Communications - IV (Breakout Room C) (OC74-OC78)

Chairs: Süleyman Sandal & Güvem Gümüş Akay

14:45 – 15:00 Break

15:00 – 16:00 **Conference 6**

Georg Northoff: The "Common Currency" of Brain and Mind - A Spatiotemporal Approach Chair: Erdal Ağar

16:00 - 16:15 Break

16:15 – 17:45 **Panel 4** (Breakout Room A): Past, Present and Future of Neuroscience

Turgay Dalkara: 30 Years of Hacettepe University Neurological Science PhD Program İsmail Hakkı Ulus: Brief History of Turkish Neuroscience Congresses (2001-2021)
Gürkan Öztürk: Nobel Prizes: Two Warm and Touchy Subjects and Future Perspectives

Chairs: Emel Ulupınar & Bayram Yılmaz

16:15 – 17:45 **Symposium 3** (Breakout Room B): Applications of Nanobiotechnology in Neuroscience

Sibel Bozdağ Pehlivan: Nano-Drug Delivery Applications in Management of Neurological Diseases and Brain Tumors

Morteza Heidarzadeh: Exosomal Delivery of Therapeutic Modulators through the Blood-Brain Barrier Emel Sokullu: 3D Hydrogel Organoid Platforms for the Representation of Neurological Disease Models Mehmet Kaya: The Role of Gold Nanoparticles in Drug Delivery to the Brain; Preclinical Experiences Chairs: Ahmet Hacımüftüoğlu & Mehmet Kaya

17:45 – 18:15 Awards & Closing Ceremony