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20th Turkish Neuroscience Congress 19–23 October 2022, Istanbul, Türkiye

Scientific Program

19 October 2022,	, Wednesday (Courses)				
Course 1					
09.30–17.30	Microscopy techniques in neuroscience: histochemistry, immunohistochemistry and transmission electron microscopy Serap Arbak, Serap Şirvancı, Dilek Akakın, Merve Elmas, Deniz Yücel				
Course 2					
09.30–17.30	Introduction to MATLAB Ata Akın, Sinem Burcu Erdoğan, Seda Dumlu, Elçim Kırımlı				
Course 3					
09.30–13.00	Genome analyses in neurological disorders Eda Tahir Turanlı, Sibel Uğur İşeri, İlker Karacan				
Course 4					
14.00–17.30	Machine learning applications on the biological data Emel Timuçin				
Course 5					
09.30–13.00	Clinical anatomy of the central nervous system: approach with cadaver, model and three-dimensional methods Abdul Veli İsmailoğlu, Milena Can				
Course 6					
14.00–17.30	Induction of brain tumors in mouse and follow-up with in-vivo imaging Samed Özer, Ekin Döngel, Dilan Acar				
Course 7					
09.30–17.30	SPM course: basic fMRI and effective connectivity analyses Metehan Çiçek, Gözde Vatansever, Simge Altınok, Burcu Sırmatel, Hazal Şimşek				
Course 8					
09.30–17.30	Functional connectivity analyses on resting state and task-based fMRI data with CONN software Ali Bayram, Bernis Sütçübaşı, Elif Kurt				
Course 9	Course 9				
09.30–13.00	Advanced morphometric analyses on MRI data with FreeSurfer software Andaç Hamamcı, Ulaş Ay, Emre Harı, Hüden Neşe				

	Hall A	Hall B	Hall C		
09.00-09.30					
09.00-09.30	Opening Ceremony Güldal Süyen, Özlem Akman				
09.30–11.00	Panel 1: The neural basis of social cognition and morality: what have we learned from neuropsychology, neuroimaging and non-invasive brain stimulation studies?	Panel 2: Comparative and computational evaluation of symptoms in Parkinson's disease after deep brain stimulation and medication intervention	Symposium 1: Potential of the functional near infrared spectroscop (fNRIS) technique in cognitive and clinical neuroscience research: what we can or cannot do?		
	Moderator: Hakan Gürvit	Moderator: Didem Gökçay	Moderator: Ata Akın		
	Speakers: Aslı Dermirtaş Tatlıdede, Hakan Gürvit, Elif Yıldırım	Speakers: Didem Gökçay, Yusuf Özgür Çakmak, Atilla Yılmaz	Speakers: Aykut Eken, Hasan Onur Keleş, Sinem Burcu Erdoğan, Emre Yorgancıgil		
11.00–11.15	Coffee Break				
11.15–12.15	Conference 1 Chair: Özlem Akman Regulation of cerebral blood flow by				
	capillary pericytes in Alzheimer's dis- ease, Covid-19 and hyperoxia	-	-		
	David Atwell				
12.15–13.45	Lunch Break				
	Poster Discussion (P-01–P-31) Chairs: Tamer Demiralp, Devrim Öz Arslan, Mehmet Ergen, Bernis Sütçübaşı, Zeynep Küçük, Ani Kıçik				
13.45–14.45	Conference 2 Chair: Güldal Süyen	Conference 3 Chair: Metehan Çiçek			
	Microcirculation: new target for neuroprotective therapy	Comparative study of the behavioral and neural basis of decision-making	-		
	Müge Yemişçi Özkan	and time perception Fuat Balci			
14.45–15.00	Break				
15.00–16.30	Panel 3: In-vitro and in-vivo models for the investigation of the molecular mechanisms of neurological diseases	Panel 4: Trajectories of cognitive aging and their neuropathological basis	Panel 5: Predictive coding in the brain – Perception as hypothesis testing?		
	Moderator: Selma Yılmazer	Moderator: Mustafa Seçkin	Moderator: Tamer Demiralp		
	Speakers: Emre Yakşi, Gizem Dönmez	Speakers: Hande Özdinler, Ayça Erşen Danyeli, Tamar Gefen, Daniel T. Ohm	Speakers: Güven Güzeldere, Anil Seth, Romain Brette		
	Yalçın, Merve Alaylıoğlu, Irem Atasoy				
16.30–17.00	Yalçın, Merve Alaylıoğlu, Irem Atasoy Coffee Break				
16.30–17.00 17.00–18.00					

21 October 2022, Friday

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	Hall A	Hall B	Hall C
09.30–11.00	Panel 6: Brain microcirculation in health and disease Moderator: Turgay Dalkara Speakers: Turgay Dalkara, Yasemin Gürsoy-Özdemir, Şefik Evren Erdener	Symposium 2: Theory, history, importance and neuromodulation of brain oscillations in cognitive/ affective processes Moderators: Canan Başar-Eroğlu, Görsev Yener Speakers: Canan Başar-Eroğlu, Bahar Güntekin, Tuba Aktürk, Deniz Yerlikaya	Panel 7: Social and biological underpinnings of punishment Moderator: Ozan Erözden Speakers: Ozan Erözden, Güçlü Akyürek, Tuna Çakar

10.30–11.00	Coffee Break		
11.00–12.00	Conference 5 Chair: Ersin Koylu How do context and expectations shape visual perception? Hüseyin Boyacı	-	-
10.30–11.00	Lunch Break		
12.30–13.00	Satellite Symposium: Neuroimaging techniques with eego systems Dr. Fabio Barollo	-	-
13.30–15.00	Oral Presentations 1 (O-01 – O-06) Nervous system diseases and treatment approaches Chairs: Bayram Yılmaz, Yasemin Gürsoy Özdemir	Oral Presentations 2 (O-07 – O-12) Behavioral and cognitive neuroscience, neuroimaging Chairs: Görsev Yener, Bahar Güntekin	Oral Presentations 3 (O-13 – O-18) Molecular and cellular neuroscience Chairs: Uğur Özbek, Kaya Bilguvar
15.00–15.10	Break		
15.10–16.40	Panel 8: Gene regulation mechanisms in neurodegeneration Moderator: Erdinç Dursun Speakers: Duygu Gezen Ak, Kemal Uğur Tüfekçi, Erkan Kiriş	Symposium 3: Advances in translational epilepsy therapy discovery Moderator: Özlem Akman Speakers: Aristea Galanopoulou, Stéphane Auvin, David Henshall	Panel 9: The role of offline and online evaluations in understanding dyslexia markers Moderator: Özgür Aydın Speakers: Sema Acar Ünalgan, Hazal Artuvan, Esmehan Özer, R. Duygu Temeltürk
16.40–17.00	Coffee Break	1	
17.00–18.00	Conference 6 Chair: Ahmet Ademoğlu Brain machine interfaces: from basic science to neuroprostheses and neurological recovery Miguel A. L. Nicolelis	-	-
18.00–19.00	Conference 7 Chair: Beki Kan Half a century in neuroscience: what I can and can't do with memories İsmail Hakkı Ulus	-	-

22 Octo	ober 2022, Saturday		
	Hall A	Hall B	Hall C
09.30–10.30	Panel 10: Why we still cannot treat 1/3 of the epilepsy cases efficiently? Moderators: Filiz Onat, Betül Baykan Speakers: Ebru Altındağ, Sibel Uğur İşeri, Nihan Çarçak Yılmaz	Panel 11: Cognition in Parkinson's and Alzheimer's disease: overlaps and dissociations Moderator: Hakan Gürvit Speakers: Hakan Gürvit, Esin Öztürk Işık, Ulaş Ay, Emre Harı	Panel 12: Obesity, chronobiology and circadian rhythm disorders: a multidisciplinary perspective Moderators: Aliye Tuğba Bahadır Speakers: Serpil Çeçen, Belma Haliloğlu, Aliye Tuğba Bahadır
10.30–11.00	Coffee Break		
11.00–12.00	Conference 8 Chair: Tamer Demiralp Body, brain and cognition György Buzsaki	-	-

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12.00–13.30	Lunch Break Poster Discussion (P-32 – P-62) Chairs: Mehmet Kaya, Duygu Gezen Ak, Erkan Kiriş, Yasemin Keskin Ergen, Ali Bayram, Çiğdem Ulaşoğlu-Yıldız			
13.30–14.30	Conference 9 Chair: Canan Başar-Eroğlu A new view on the neural fundaments of complex cognition Onur Güntürkün	-	-	
14.30–14.40	Break		-	
14.40–16.40	Oral Presentations 4 (O-19 – O-26) Nervous system diseases and treatment approaches Chairs: Nevzat Kahveci, Gizem Dönmez Yalçın	Oral Presentations 5 (O-27 – O-34) Neuroimaging, behavioral and cognitive neuroscience Chairs: Evrim Gülbetekin, Hasan Onur Keleş	Oral Presentations 6 (O-35 – O-42) Behavioral and cognitive neuroscience Chairs: Ash Demirtaş-Tatlıdede, Sinem Burcu Erdoğan	
16.40–17.00	Coffee Break	1	1	
17.00–18.30	Panel 13: "White rabbit" and "Lucy in the sky": return of the psychedelic drugs	Panel 14: Molecular mechanisms of neurological disorders – Contemporary experimental approaches	Panel 15: Neurobiology of languageModerator: Mustafa SeçkinSpeakers: Mustafa Seçkin, Robert S.	
	Moderator: A. Yağız Üresin Speakers: A. Yağız Üresin,	Moderator: Vuslat Yılmaz Speakers: Erdem Tüzün, Çağhan Kızıl,	Hurley, Koray Tarhan	
	Emine Akalın, Bilgin Saydam, R. Ebrar Akıncı, Selçuk Şen	George Tofaris		

23 Octo	ber 2022, Sunday		
	Hall A	Hall B	Hall C
09.00–11.00	Oral Presentations 7 (O-43 – O-50) Molecular and cellular neuroscience Chairs: Eda Tahir Turanlı, Güvem Gümüş Akay	Oral Presentations 8 (O-51 – O-58) Nervous system diseases and treatment approaches Chairs: Ayça Erşen Danyeli, Nurcan Orhan	Oral Presentations 9 (O-59 – O-66) Neural networks and computational neuroscience, behavioral and cognitive neuroscience Chairs: Tolga Esat Özkurt, Aykut Eken
11.00–11.30	Coffee Break		1
11.30–12.30	Conference 10 Chair: Neslihan Serap Şengör Temporal summation and masking in the sense of touch Burak Güçlü	-	-
12.30–13.30	Lunch Break		
13.30–14.40	Conference 11 Chair: Filiz Onat Genetics and modeling of pediatric brain disease Kaya Bilguvar	Conference 12 Chair: Belma Bekçi Amygdaloid targets of the basal forebrain neuromodulator systems Güneş Ünal	-
14.30–14.45	Coffee Break		
14.45–16.45	Oral Presentations 10 (O-67 – O-74) Behavioral and cognitive neuroscience Chairs: Güneş Ünal, Gökçer Eskikurt	Oral Presentations 11 (O-75 – O-82) Neuroimaging and neuromicroscopy, behavioral and cognitive neuroscience Chairs: Ata Akın, Ali Bayram	Oral Presentations 12 (O-83 – O-90) Nervous system diseases and treatment approaches, behavioral and cognitive neuroscience Chairs: Müge Yemişci Özkan, Nihan Çarçak
16.45–17.00	Closing Ceremony	1	1