

# Detailed Program of the Congress

## 9<sup>th</sup> Basic and Clinical Neuroscience Congress

BCNC 2020

1<sup>st</sup> day, Wednesday, December 9<sup>th</sup>, 2020

8:15-9:45 (IRST) Hall 1	<b>P1: Brain Technologies</b>	
	Large-Scale Recordings of Brain and Peripheral Organ Signals from Freely Moving Rodents	Takuya Sasaki
	Pulsed and Discontinuous Electromagnetic Field Exposure Decreases Temozolomide Resistance in Glioblastoma	Meysan Ahmadi
	The Importance of Zebrafish in Neuroscience Researches	Hadi Aligholi
8:15-9:45 (IRST) Hall 2	<b>P2: Brain Mapping</b>	
	Brain Mapping in Awake Craniotomy	Alireza Tabibkhouei
	Brain Function in Glioma Surgery	Guive Sharifi
	Pseudoresults in Neuromonitoring	Siamak Alizadeh
	Brain Tumor Radiotherapy Planning Supported by Brain Mapping	Masoumeh Najafi
9:45-10:00 (IRST)	<b>Break</b>	
10:00-11:00 (IRST) Hall 1	<b>Opening Ceremony</b>	
	President of Congress	Mohammad Taghi Joghataei
	Clinical Scientific Secretary	Amin Jahanbakhshi
	Senior Researcher - Member of Iranian Academy of Medical Sciences	Reza Malekzadeh
	Advisor of Vice President for Science and Technology in Cognitive Science Field	Kamal Kharrazi
11:00-11:15 (IRST)	<b>Break</b>	
11:15-12:15 (IRST) Hall 1	<b>Keynote Talk</b>	
	<b>The Interaction of Brain and Environment: A Glance to Modern Neuroscience</b>	<b>Azarakhsh Mokri</b>
12:15-12:30 (IRST)	<b>Break</b>	
12:30-14:00 (IRST) Hall 1	<b>P3: Targeted Surgery for Brain Tumor</b>	
	Impact of Using Fluorescein on Outcome of Glioma Surgery	Davide Nasi
	Advanced 3D Imaging Assisted Surgery	Anna Elisabetta Vaudano
	Intraoperative Monitoring in Brain Surgery	Giacomo Pavesi
	A novel CAR-T For Glioblastoma	Massimo Dominici
12:30-14:00 (IRST) Hall 2	<b>P4: REM Sleep and Neuroscience</b>	
	Neurobiology of REM Sleep	Fatemeh Kashani
	REM Sleep and Its Function	Mirfarhad Ghalebani
	REM Sleep and the Dream	Mohammadreza Khodaei
14:00-14:15 (IRST)	<b>Break</b>	
14:15-15:15 (IRST) Hall 1	<b>Keynote Talk</b>	
	<b>Extracellular Electrophysiological Characterization of Neurons and Networks at Subcellular Resolution</b>	<b>Andreas Hierlemann</b>
15:15-15:30 (IRST)	<b>Break</b>	
15:30-17:00 (IRST) Hall 1	<b>P5: Residency Panel</b>	
	Retrieval of the functional loss by Brain Remapping and Organized Neuroplasticity	Matineh Heidari
	The Addicted Brain: the Brain disease model of Addiction and its limitation	Alaleh Bahramian
	How does Neuroscience give us new insights into Psychiatric disorders?	Reza Panahi
	Towards an understanding of Brain Ageing	Tara Khoeni
	Neurosurgery based on Neuroscience: off-center language areas preservation	Jaber Hatam
15:30-17:00 (IRST) Hall 2	<b>P6: Maternal Separation, Friend or Foe?</b>	
	Introduction to Maternal separation	Vahid Sheibani
	Maternal Separation Impacts on Long-Term Synaptic Potentiation.	Khadijeh Esmaeilpour
	Intergenerational Effects of Maternal Separation on Cognitive Abilities	Sara Joushi
	Maternal Separation: Consequences of Adolescent Methylphenidate Exposure	Fatemeh Mohtashami Borzadaran
	TREK-1 and 5HT1A Modulates Behavior and Synaptic Plasticity in the Maternal Separation Model	Jose Francis-oliveira
17:00-17:15 (IRST)	<b>Break</b>	
17:15-18:15 (IRST) Hall 1	<b>Keynote Talk</b>	
	<b>Neurobiology of Why It Can Be So Hard to Stop Thinking About Using Addictive Drugs</b>	<b>Peter Kalivas</b>
18:30-20:00 (IRST) Hall 1	<b>P7: Neural Engineering</b>	
	How Fast Is Too Fast? Boundaries to the perception of Electrical Stimulation of Peripheral Nerves	Kianoush Nazarpour
	Neuromodulation through Spinal Stimulation for Functional Restoration after SCI	Soshi Samejima
	Toward High Density Neurochemical Mapping of the Brain	Elisa Castagnola
	Brain Control of Spinal Cord Stimulation for Movement Restoration	Abd Khorasani

18:30-20:00 (IRST) Hall 2	<b>P8: Understanding Pain: From Labs to Practice</b>	
	Contribution of Descending Modulation to Load-Dependent Reduction of Pain by Working Memory	Zoha Deldar
	Cerebrospinal Correlates of Vicarious Pain Modulation	Ali Khatibi
	Chiropractic Care Influences Inflammatory Cytokines Levels in Urine Samples of Chronic Low Back Pain Patients	Carlos Gevers
20:15-21:45 (IRST) Hall 1	<b>P9: Neurodegenerative Disorders</b>	
	The Effects of Ramosetron (a 5-HT3 Receptors Antagonist) into the Entorhinal Cortex on Memory Impairments in the Electrical Amygdala Kindled Rats	Abdolrahman Sarihi
	Cell Injury and Receptor Expression in the Epileptic Human Amygdala	Maryam Jafarian
	Intraneuronal PH Acidification May Trigger Degenerative Consequences: A Closer Look at Its Mechanisms	Javad Mahmoudi
	Evaluation of Combinational Treatment of Epicatechine and Edaravone in Parkinson Model Induced by 6 -Hydroxydopamine in Male Rats	Ramin Ataee
Phospholipase C $\beta$ 3 in the Hippocampus May Mediate Impairment of Memory by Long-Term Blockade of Orexin-1 Receptors Assessed by the Morris Water Maze	Masoumeh Kourosh Arami	
20:15-21:45 (IRST) Hall 2	<b>P10: System Neuroscience</b>	
	Brain Coordination Dynamics: How Is Holism Combined with Localism?	Mohammadreza Abolghasemi
	Working Memory within Cortical Areas under Top-Down Signals from Prefrontal Cortex	Ehsan Rezayat
	Reward Processing in Non-Human Primates' fronto-parietal Network	Mohsen Parto
	Phase Dependent Coding in Macaque Inferior Temporal Cortex	Bahareh Taghizadeh
Spatial Heterogeneity in Receptive Field of the Macaque Inferior Temporal Cortex	Farideh Shakerian	

## 2<sup>nd</sup> day, Thursday, December 10<sup>th</sup>, 2020

8:15-9:45 (IRST) Hall 1	<b>P11: Sensory Decision Making in Rodents</b>	
	Predictive Coding; A Framework for Studying Sensory Decisions	Matthew Tang
	Bilateral Integration of Sensory Information in Mice	Taylor Singh
	Temporal Order Judgment of Audiovisual Stimuli	Fatemeh Mafi
	Behavioral Measures of Confidence in Sensory Decision	Faezeh Shafiei
	Spatial Attention in Mice	Guthrie Dyce
State-modulation of Neuronal Activity and behavior	Conrad Lee	
8:15-9:45 (IRST) Hall 2	<b>P12: Technology &amp; Industry</b>	
	An Introduction to FNIRS	Javad Safaie
	Multi-Dimensional Neuromodulation Platform	Masoud Nosratabadi
	Multi Electrode Arrays for Intracortical Recording	Mostafe Saadati
Commercialization of Neural Orthoses in Iran; Challenges and Solutions	Nima Jamshidi	
9:45-10:00 (IRST)	<b>Break</b>	
10:00-11:00 (IRST) Hall 1	<b>Keynote Talk</b>	
	<b>Emergence of Abstract Rules in the Primate Brain</b>	<b>Farshad Alizadeh Mansouri</b>
11:00-11:15 (IRST)	<b>Break</b>	
11:15-12:15 (IRST) Hall 1	<b>Presentation of the Selected Projects (COGC)</b>	
11:15-12:15 (IRST) Hall 2	<b>P14: Clinical Report of Stem Cell Therapy in Iranian Neurologic Patients</b>	
	Introduction to Cell Therapy and Gene Therapy	Amir Ali Hamidieh
	Stem Cell Therapy in CP Cases	Mahmoudreza Ashrafi
	Adipose Tissue Derived Mesenchymal Stem Cells Efficacy in Comparison to Umbilical Cord Derived	Bitra Shalbafan
	Stem Cell Therapy in Friedrich Ataxia Cases	Kianoosh Naghibzadeh
Stem Cell Therapy in Multiple Sclerosis	Mandana Mohyeddin Bonab	
12:15-12:30 (IRST)	<b>Break</b>	
12:30-14:00 (IRST) Hall 1	<b>P15: Neuro-business and Neuro-marketing</b>	
	Neuro Advertisement / Neuro Branding	Ali Bonyadi naeini
	Comparison of the Physiology of the Effects of Touching, Seeing, and Hearing Product Advertising on Neural Network Decisions to Purchase Goods	Mohammad Reza Bigdeli
	Brief Explanation of Neuro Design	Parya Abravani
How Does Neuroscience Predict Consumer Behavior?	Mohammad Ali Nazari	
12:30-14:00 (IRST) Hall 2	<b>P16: Schizophrenia and Cognitive Deficits</b>	
	Electrophysiological Brain Responses to Unilateral and Bilateral Auditory Stimuli in Schizophrenia	Shahzad Mazhari
	Auditory Spatial Processing in Schizophrenia: Behavioral Evidence of Abnormal Hemispheric Laterality	Sara Sardari
	Is Cognitive Function Linked to Serum Copper Levels in Schizophrenia?	Shokooh Arjomand
Instantaneous Phase Synchrony of fMRI Reflects Large-Scale Disconnection in schizophrenia	Tahereh Sadat Zarghami	
14:00-14:15 (IRST)	<b>Break</b>	
14:15-15:15 (IRST) Hall 1	<b>Keynote Talk</b>	
	<b>Cannabinoids and Cannabis in Health and Disease</b>	<b>Olivier Manzoni</b>
15:15-15:30 (IRST)	<b>Break</b>	

15:30- 17:00 (IRST) Hall 1	<b>P17: Developmental Disorders</b>	
	Effects of CBD-Enriched Cannabis Sativa Extract on Autism Spectrum Disorder Symptoms	Renato Malcher
	Age Matters: Vulnerable Periods of Brain Development in Ion Channelopathies	Dirk Isbrandt
	When Size Matters: Anatomical and Electrophysiological Correlates in Congenital Zika Virus Syndrome	Claudio Marcos Queiroz
15:30- 17:00 (IRST) Hall 2	<b>P18: Development of Antisocial Personality Disorder/Psychopathy</b>	
	From Conduct to Antisocial Personality Disorder, Social Neuroscience View	Fatemeh Sadat Mirfazeli
	From Conduct to Antisocial Personality Disorder, Family and Society Dynamics	Amir Hossein Jalali
	Neural Imaging Changes from Conduct Disorder to Antisocial Personality Disorder	Abdolalizadeh
17:00- 17:15 (IRST)	<b>Break</b>	
17:15- 18:15 (IRST) Hall 1	<b>Unraveling Brain Circuits for Drug Demand: A Central Role for Orexin in Addiction</b>	<b>Gary Aston-Jones</b>
18:30-20:00 (IRST) Hall 1	<b>P19: Machine Learning in Neuroscience: Methods and Applications</b>	
	Interpretable Machine Learning: Applications in Basic and Clinical Neuroscience	Reza Abbasi-Asl
	Dynamics of Information Flow for Familiar Face Perception under Perceptual Uncertainty	Hamid Karimi
	Decoding Selective Attention and Cognitive Control Processing Through the Stroop Interference Effect: An Event-Related Electroencephalography-Derived Study	Razieh Kamali
18:30-20:00 (IRST) Hall 2	Dual-Task Interference Disturbs Information in Superior Parietal Lobe in a Simulated Driving Task	Mojtaba AbbasZadeh
18:30-20:00 (IRST) Hall 2	<b>P20: Inclusive Brain Health and Integrative Neuroscience</b>	
	Affective Neuroscience: What We Are Up To?	Corey Emerick
	BBC - Brain, Body & Consciousness Interface Through Brain-Based Geometric Meditation	Farshad Nazaraghaei
	The Inclusive Brain Health (IBH) And Integrative Neuroscience Perspectives	Shima Sazegari
20:15-21:45 (IRST) Hall 1	IBH-cementing the Links within the Context of Cognitive Neuromedicine	Mohammad Nami
20:15-21:45 (IRST) Hall 1	<b>P21: Covid-19</b>	
	COVID-19 Increases the Mortality Rate of Stroke: Is It True and What Are the Predictors?	Mostafa Almasi Dooghaee
	Neurological Manifestation in Patients Diagnosed with COVID19 in an Out-patient Setting	Paria Akbari
	Comparison of Psychological Characteristics (Stress, Anxiety, and Depression) in the Medical Staff Working in COVID-19, Patients with the Medical Staff of Other Centers	Nasrin Abdoli
	Neuropsychiatric Manifestations of Hospitalized Patients with COVID-19: A Cross-Sectional study in Iranian patients	Mojtaba Sharafkhah
	A Review on the Neurological Manifestations of COVID-19 Infection: A Mechanistic View	Tahereh Ghadiri
20:15-21:45 (IRST) Hall 2	Effectiveness of Coronavirus Pandemic on Cognitive Ability Training Related to Fundamental Math Skills in Daily Mental Rehabilitation Centers Under 14	Abbas Ebrahimi kalan
20:15-21:45 (IRST) Hall 2	<b>P22: Potentials for Virtual Collaborative Networks (ViCoNs) in Promoting Global Neuroscience</b>	
	Call for Virtual Collaboration Networks in Promoting Global Neuroscience	Hamed Ekhtiari
	Introduction To ISAM-NIG: Neuroscience Interest Group of the International Society of Addiction Medicine	Parnian Rafei
	Introduction To INTAM: International Network of Tes/TMS Trials for Addiction Medicine	Hosna Tavakoli
	Introduction to INTF: International Network of Tes-Fmri	Peyman Ghobadi
	Introduction to ENIGMA-ACRI	Mehran Zare
	Challenges and Recommendations for Vicons	Alireza Valyan
<b>3<sup>rd</sup> day, Friday, December 11<sup>th</sup> , 2020</b>		
8:15-9:45 (IRST) Hall 1	<b>P23: Computational Neuroscience</b>	
	Structural and Dynamical Criticality in the Brain	Saman Moghimi Araghi
	Unstable Oscillations in the Inhibitory Networks: Stability of Instability	Alireza Valizadeh
	Synchronization, Criticality, and Self-organization in a Network Model of Cortical Neurons	Afshin Montakhab
8:15-9:45 (IRST) Hall 1	<b>INSS General Assembly</b>	
9:45-10:00 (IRST)	<b>Break</b>	
10:00-11:00 (IRST) Hall 1	<b>Cellular and Circuit Mechanisms Underlying Binocular Vision</b>	<b>Greg Stuart</b>
11:00-11:15 (IRST)	<b>Break</b>	
11:15-12:15 (IRST) Hall 1	<b>P25: Impact of Microbiota on Central Nervous System</b>	
	Microbiota and Gut-Brain-Skin Axis	Seyed Davar Siadat
	Gut-Brain-Microbiota Axis	Mohammad Nasehi
	Neurological Injury in Covid-19 Patients	Hakimeh zali
11:15-12:15 (IRST) Hall 2	Microbiota in Neurodegenerative Disorders	Morteza Alisharafi
11:15-12:15 (IRST) Hall 2	<b>P26: Applications of Brain Mapping Methods in Functional Neurological Disorders</b>	
	Attitudinal Shifts Toward Functional Neurological Disorders (FNDs) Based on the Brian Mapping Evidence	Mohammad Arbabi
	Differences of Neuroimaging Findings in Functional and Structural Neurological Disorders	Fahimeh Haji Akhouni
	New Approaches of Psychotherapy in Functional Neurological Disorders	Saeedeh Zomorodi
	Novel Neuroimaging-based Evidence in Functional Neurological Disorders	Lida Shafaghi



12:30-14:00 (IRST) Hall 1	<b>P27: Neurology of Parkinson's Disease</b>	
	Pathophysiology of Parkinson's Disease	Ahmad Chitsaz
	Mechanism of Deep Brain Stimulation	Maziar Emamikhah
	Recent Advances in DBS	Mohammad Rohani
12:30-14:00 (IRST) Hall 2	<b>P28: Neuropsychiatry</b>	
	Abnormal Sleep Signals Vulnerability to Chronic Social Defeat Stress	Dipesh Chaudhary
	Function of Hippocampus in Memory Retrieval	Jian Liang
	The Role of Virtual Reality in Assessment and Intervention of Addiction in Human Studies	Yonghui Li
14:00-14:15 (IRST)	<b>Break</b>	
14:15-15:15 (IRST) Hall 1	<b>Keynote Talk</b>	
	<b>The Hard Problem of Consciousness</b>	<b>Mark Solms</b>
15:15-15:30 (IRST)	<b>Break</b>	
15:30-17:00 (IRST) Hall 1	<b>P29: Evaluation of Effects of Estrogen, MicroRNAs (miRNAs), and Exercise in Diffuse TBI</b>	
	The Curative and Preventive Effect of Exercise in Traumatic Brain Injury	Zahra Soltani
	The Hepatoprotective Mechanisms of 17 $\beta$ -Estradiol after Traumatic Brain Injury in Male Rats: Classical and Non-Classical Estrogen Receptors	Sedigheh Amiresmaili
	Evolution of TLR4 Role in Mediating the Hepatoprotective Effects of Estradiol after Traumatic Brain Injury in Male Rats	Mohammad Khaksari
	BSA and G1 Exert Neuroprotective Effects and Improve Behavioral Abnormalities following Traumatic Brain Injury: The Role of Classic and Non-Classic Estrogen Receptors	Ladan Amirkhosravi
	The Effect of Female Steroids on Gastrointestinal System in Traumatic Brain Injury	Zakieh Keshavarzi
15:30-17:00 (IRST) Hall 2	<b>P30: Neurobiology of psychotherapy</b>	
	Neuropsychanalytic Interpretation of Ego and Unconscious	Ali Firoozabadi
	Overlapping Neurobiological Mechanisms of Psychotherapies of Fear and Anxiety	Arash Javanbakht
	Which Freud is Useful for Our Time?	Amirhosein Jalali Nadooshan
17:00-17:15 (IRST)	<b>Break</b>	
17:15-18:15 (IRST) Hall 1	<b>Keynote Talk</b>	
	<b>Ways to Think About the Brain</b>	<b>György Buzsáki</b>
18:30-20:00 (IRST) Hall 1	<b>P31: Epilepsy Surgery</b>	
	Advanced Imaging in Presurgical Evaluation for Epilepsy Surgery	Taha Gholipour
	Presurgical Evaluation in Epilepsy Surgery	Abbas Tafakhori
18:30-20:00 (IRST) Hall 2	<b>P32: System Neuroscience</b>	
	Neural Representation of Expectation Violations During Visual Behavior	Farzaneh Najafi
	High Frequency Stimulation of the Subthalamic Nucleus: Linking Mood and Motor Effects at the Level of the Basal Ganglia and 5-HT System	Ali Jahanshahi
	The Process of Decision Making in Discrete Environment	Zahra Azizi
20:15-21:45 (IRST) Hall 1	<b>Closing Ceremony</b>	
	Basic Scientific Secretary	Vahid Sheibani
	Secretary of Ahwazi Award	Ali Shahbazi
	Awards Announcement and Introducing the Winners	