



# 3rd Seasonal Symposium

22 September 2019

At a glance

8:30 - 9

**Welcome**

9 - 10:30

**Short Talks**

10:30 – 10:45

Coffee Break

10:45 - 12:15

**Poster Session**

12:15 – 13

**Keynote Speaker**

13-14

Lunch



Institute for Research in  
Fundamental Sciences



## **KEYNOTE SPEAKER**

**12:15 am – 1 pm**

### **Estimation and Application of Brain Connectivity in Health and Disease**

Dr. Hamid Soltanian-Zadeh

## **SHORT TALKS**

**9 am – 10:30 am**

### **PFC-IT Coupling Underlies Object Working Memory**

Ehsan Rezayat

### **The Process of Decision Making while Information or Decisions are Separated with Temporal Gaps**

Sajjad Zabbah

### **Neural Representation of Social Categories of Familiar Faces in Human Brain**

Neda Afzalian

### **Neural Decoding of Dual Task Interference**

Mojtaba Abbaszadeh

### **Facilities in the Psychophysics and EEG Lab at IPM**

Dr. Narges Radman / Karim Rajaei

**POSTER SESSION**  
**10:45 am – 12:15 am**

**Recovery of Missing Data in Partial Geometry PET Scanners**

Dr. Samaneh Shojaei

**A Fully Automated Spike Sorting Algorithm using t-Distributed Neighbor Embedding and Density Based Clustering**

Dr. Mohammad Hossein Nadian

**Investigating the Role of Saliency in Visual Short-Term Memory and Multiple Object Tracking**

Shiva Kamkar

**Risk and Value Have Distinct Signatures on Single Cell Activity and Network Connectivity in Areas dIPFC and 7a**

Dr. Bahareh Taghizadeh

**Brain Decoding of Observed Human Actions using fMRI Data**

Dr. Elaheh Yargholi

**Routing Information Flow by using Distinct Neural Synchrony Frequencies: 'Functional Labeled Line' in Higher Primate Cortex**

Mohammad Bagher Khamechian

**Judging between Excitation and Inhibition: Identifying Local Network Architecture Using an Analytic Input-Output Relation**

Dr. Safura Rashid Shomali

**POSTER SESSION**  
**10:45 am – 12:15 am**

**Control of System Dynamics by Applying Identical Time-Lagged Stochastic Inputs**

Dr. Ehsan Bolhasani

**Neural Basis of Value-Based Memory in Humans**

Sepideh Farmani

**Major Thought Restructuring: The Brain Network Dynamics**

Dr. Shima Seyed-Allaei

**People Try to Equalize the Probability of Possible Outcomes in Decision Making under Ambiguity**

Dr. Atiye Sarabi-Jamab

**Effects of Stimulus Similarity on Attentional Modulations in the Human Brain**

Narges Doostani

**Brain Mapping for Pre-surgical Planning Using Seed-based Resting-State fMRI Approach**

Dr. Vahid Malekian

**Smell Detection Could Be Traced in the fNIRS Signals Recorded from Subject's Forehead**

Dr. Shima Talehy Moineddin

**The modulation of Motor Thalamus by Substantia Nigra in Rat**

Mojtaba Alavi