Title: 2nd Iranian IBRO/APRC Associate School of Cognitive Neuroscience for Addiction Prevention and Treatment Development: From Animal Study to Human Brain Mapping

Type: Associate School

Date: 22-29 September 2023

Online Application: May 01-31, 2023

Place: National Brain Mapping Lab, Tehran, Iran

Honorary Director: Prof. Mohammad-Reza Zarrindast, PhD, Tehran University of Medical Sciences, Tehran, Iran

Director: Prof. Hamid Soltanian-Zadeh, PhD, University of Tehran, Tehran, Iran

Scientific Secretary: Prof. Afarin Rahimi-Movaghar, MD, Iranian National Center for Addiction Studies, Tehran, Iran
Dr. Hamed Ekhtiari, MD PhD, University of Minnesota, Minneapolis, MN, USA

Executive Secretary: Prof. Abbas Haghparast, PhD, Shahid Beheshti University of Medical Sciences, Tehran, Iran

Deputy Scientific Secretaries: Prof. Ameneh Rezayof, PhD, University of Tehran, Tehran, Iran
Dr. Tara Rezapour, PhD, Institute for Cognitive Science Studies, Pardis, Iran

Deputy Executive Secretary: Dr. Seyed Amir Hossein Batouli, PhD, Tehran University of Medical Sciences, Tehran, Iran
Dr. Reza Khosrowabadi, PhD, Shahid Beheshti University, Tehran, Iran

Scientific Committee Members: Mohammad Taghi Joghataei, PhD; Mohammad Reza Ay, PhD; Gholamali Hossein-Zadeh, PhD; Alireza Zali, MD; Mohammad Ali Oghabian, PhD; Abbas Haghparast, PhD; Majid Nili Ahmadabadi, PhD; Saeed Semnanian, MD PhD; Seyed Amir Hossein Batouli, PhD; Reza Khosrowabadi, PhD; Ali Khatibi, PhD

Executive Committee Members: Hossein Ghadiri, PhD; Mahdieh Karami, PhD; Milad Rahimzadegan, PhD; Tara Rezapour, PhD; Ali Shahbazi, PhD

Host Institutes: Iranian Neuroscience Society, National Brain Mapping Lab, University of Tehran, Iranian National Center for Addiction Studies, Shahid Beheshti University of Medical Sciences, Tehran University of Medical Sciences, Iran University of Medical Sciences, Shahid Beheshti University, Shohada Tajrish Comprehensive Neurosurgical Center of Excellence, and Institute for Cognitive Science Studies

Sponsors: International Brain Research Organization, Iranian Neuroscience Society, National Brain Mapping Lab, Cognitive Sciences and Technologies Council of Iran, National Institute for Medical Research Development, and Iran National Science Foundation

Themes: Addiction Neuroscience (i) Cellular and Behavioural Neuroscience (ii) Cognitive Neuroscience (iii) Computational Neuroscience

Audience: Junior Faculty (MD/PhD), Postdocs and Senior PhD Students in Related Disciplines

Expected numbers of international and domestic students: 24 Students (12 Iranian and 12 International Students)

Financial Grant: Fully funded; Covering the round-trip ticket, accommodation and meals

Age-limit of the Audiences: ≤35 YO

Opening Ceremony & Registration: Friday, 22nd September, 2023

Past Experiences:
1st Iranian IBRO/APRC School of Cognitive Neuroscience on Human Brain Mapping (23 September - 4 October, 2016)
1st IBRO/APRC Iranian Associate School of Cognitive Neuroscience on Functional Human Brain Mapping (May 22-28, 2015)

- Program

Registration and Opening Ceremony (Friday; 22 Sep 2023)									

Two-days Symposium (23-24 Sep 2023)									
Time \ Day	8:30-10:00		10:00-10:30	10:30-12:00		12:00-14:00	14:00-15:30		15:30-16:00	16:00-17:30
Saturday	Lecture 1	Lecture 2	Break	Lecture 3	Lecture 4	Lunch	Lecture 5	Lecture 6	Break	Lecture 7	Lecture 8
Sunday	Lecture 9	Lecture 10		Lecture 11	Lecture 12		Lecture 13	Lecture 14		Lecture 15	Lecture 16

Techniques Training and Execution Day (25-28 Sep 2023)			
Themes \ Day	Cellular & Behavioral Neuroscience	Cognitive Neuroscience	Computational Neuroscience
Monday	Deep Brain Stimulation and Stereotaxic Surgery	sMRI/fMRI/DTI	BCI
Tuesday	Local Field Potential (LFP) Recording in freely moving animals	Cognitive Tasks/Interventions	Machine Learning/AI
Wednesday	Cultural Visits in Tehran		
Thursday	Optogenetics (fNIRS, Laser-based)	TMS/tES/tFUS	Cognitive Modeling

Proposal Presentation and Closing Ceremony (Friday; 29 Sep 2023)			

* All lectures would be open to all in-person and virtual participants.

** The hands-on sessions, presentations, and discussions with speakers would be exclusively for the school awardees.

Theme		Techniques	Place	Duration	Suggested Instructors
Cellular & Behavioral Neuroscience		Local Field Potential (LFP) Recording in freely moving animals	- Neuroscience Research Center, Shahid Beheshti University of Medical Sciences - Iranian National Center for Addiction Studies (INCAS)	1 day	Abbas Haghparast, PhD Saeed Semnanian, MD PhD Abdolrahman Sarihi, PhD Hamid Latifi, PhD Hamed Ekhtiari, MD PhD Tifei Yuan, PhD
		Deep Brain Stimulation and Stereotaxic surgery	- Neuroscience Research Center, Shahid Beheshti University of Medical Sciences - Laser and Plasma Research Institute	1 day	
		Optogenetics (fNIRS, Laser-based)	Laser and Plasma Research Institute	1 day	
Cognitive Neuroscience		sMRI/fMRI/ DTI	National Brain Mapping Lab	1 day	Seyed Amir Hossein Batouli, PhD Mohammad Ali Oghabian, PhD
		TMS/tES/tFUS	- National Brain Mapping Lab - Iranian National Center for Addiction Studies (INCAS)	1 day	Hamed Ekhtiari, MD, PhD Til Ole Bergmann, PhD Neil G. Muggleton, PhD
		Cognitive Tasks/Interventions	- INCAS Neurocognitive Lab, - Institute for Cognitive Science Studies (ICSS)	1 day	Hamed Ekhtiari, MD, PhD Tara Rezapour, PhD Yonghui Li, PhD Antonio Verdejo-Garcia, PhD
Computational Neuroscience		BCI	Institute for Cognitive and Brain Sciences, Shahid Beheshti University	1 day	Reza Khosrowabadi, PhD Amir Masoud Sodagar, PhD Muhammad Adeel Parvaz, PhD Kai Keng Ang, PhD
		Cognitive Modeling	School of Electrical and Computer Engineering, University of Tehran	1 day	Reza Khosrowabadi, PhD Michael X Cohen, PhD
		Machine Learning/AI	School of Electrical and Computer Engineering, University of Tehran	1 day	Hamid Soltanian-Zadeh, PhD