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dated on: 2025/03/01

The Chinese University of Hong Kong
Department of Psychiatry
Schedule for March, 2025

Date	Time	Activity	Speaker(s)
Mar6		No Event	
Mar13		No Event	
Mar20	16:30-17:30	Medical Staff Forum (MUL)*# *Psychotherapy Long Case Discussion*	Dr. Marshall LEE
Mar27	14:30-16:00	Academic Lecture (MUL)* *Imaging guided Approaches towards personalized non-invasive brain stimulation protocols* Registration: https://bit.ly/3ESwR73	**Dr. Hanna LU** Assistant Professor Department of Psychiatry Faculty of Medicine The Chinese University of Hong Kong
	14:30-16:30	Quality Assurance Meeting (SH)# / (TPH)#	

Venue:	*Live video	#Closed meeting	@Non-CME Event	MUL	TPH	SH	1AL
				Seminar Room, Multi-centre, Tai Po Hospital, Tai Po, N.T.	Conference Room 1 G/F, Wing D Tai Po Hospital Tai Po, N.T.	Dining Room Ward 7AB Dept. of Psychiatry 7/F, Shatin Hospital Shatin, N.T.	Rm. 1005, Dining Room Ward 1AL, 1/F Tai Po Hospital Tai Po, N.T.

Please contact 2607-6025 two days before hand to arrange presentation equipment.

http://www.psychiatry.cuhk.edu.hk

香港中文大學
The Chinese University of Hong Kong

香港中文大學醫學院
Faculty of Medicine
The Chinese University of Hong Kong

ACADEMIC LECTURE

Dr. Hanna LU

Assistant Professor
Department of Psychiatry
Faculty of Medicine
The Chinese University of Hong Kong

27 MAR 2025 (THU)

14:30 - 16:00

Seminar Room, Multicentre, Tai Po Hospital & Zoom

Topic: Imaging guided approaches towards personalized non-invasive brain stimulation protocols

Abstract:

Non-invasive brain stimulation (NIBS) has received much attention in translational neurosciences. Individual heterogeneity hampers the evaluation of clinical effectiveness in NIBS. Neuroimaging-informed computational model serves a potential tool in the simulation of stimulation-induced intensity (i.e., dose) and focality (i.e., precision). These neuroengineering approach could help in planning NIBS protocols with predictive models at individual level.

In this talk, clinical applications of major NIBS modalities will be presented. (1) Transcranial current stimulation (tCS): montage settings and scalp-to-cortex distance (SCD)-dependent simulation of electric fields (E-fields); (2) Transcranial magnetic stimulation (TMS): morphometric and geometric features of treatment targets in predicting treatment responses and the SCD-dependent dose estimation in clinical trial. (3) Low-intensity transcranial ultrasound stimulation (TUS): simulation study hippocampus in human.

Biography:

Dr. LU Hanna works as Assistant Professor at the Department of Psychiatry, the Chinese University of Hong Kong (CUHK). Before joining in CUHK, Hanna was a registered Attending Psychiatrist in Guangzhou. From bedside to bench, Hanna was motivated by the strong research interests in neuroscience and started the journey of becoming a clinical neuroscientist. From 2018, Hanna kept receiving the comprehensive training of computational neuroscience and non-invasive brain stimulation (NIBS) from the Donders Institute and the Chinese Academy of Sciences.

Centred with the human brain, Hanna's research projects include: (1) to examine the safety and effectiveness of novel NIBS techniques in preclinical populations; (2) to construct imaging-informed computational model for guiding personalized interventions; (3) to develop AI-driven biomarkers in normal ageing and neurodegenerative diseases.

Registration is required. For enquiries, please contact pci-event-app@cuhk.edu.hk or 26076025.
Please display the registration name for joining the Zoom lecture.

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