

The AI-Neuro Frontier: Advancing Neuroscience with Artificial Intelligence

Date: 9th April 2025

Venue: Avari Towers, KHI

Organized by: ANOG, PASNO, & PANS

Target Audience: Neuroscientists, Radiologists, Biomedical Engineers, AI Researchers, Medical Professionals, and Students

Symposium Overview

This one-day symposium will bring together leading experts from the fields of neuroscience and artificial intelligence to explore the transformative impact of AI in advancing research and clinical applications for neurological disorders. The event will offer a platform for in-depth discussions, knowledge exchange, and networking, with a focus on how AI is reshaping the future of neuroscience. With contributions from the national and international distinguished speakers, attendees will gain valuable insights into the latest developments, challenges, and opportunities in this rapidly evolving field

Symposium Agenda

9:00 AM - 9:30 AM	Registration	
9:30 AM - 09:40 AM	Welcome Address and Introduction to ViBCOT	Prof. Dr. Syed Ather Enam (The Aga Khan University)
9:40 AM - 10:10 AM	Keynote – <i>Relevance of AI research to LMICs</i>	Dr. Athar Osama (INNOventures Global Pvt Ltd)

Plenary Session 1

Session chair: Prof. Dr Fatima Mubarak

10:10 AM - 10:30 AM	<i>AI-Driven Multi-Omic Signatures for Advancing Precision Medicine in Neurological Diseases</i>	Dr. Saima Rathore (Emory University)
10:30 AM - 10:50 AM	<i>AI for Building Integrative Solutions to Improve Brain and Mental Health</i>	Dr. Sadia Shakil (The Chinese University of Hong Kong)
10:50 AM - 11:05 AM	Q&A	
11:05 AM – 11:20 AM	Tea Break	

Plenary Session 2

Session chair: Prof. Dr Ahmad Raza Shahid

11:20 AM - 11:40 AM	<i>Generative Modelling of Neurodegenerative Diseases</i>	Prof. Dr. Adeel Razi (Monash University)
11:40 AM – 12: 00 PM	<i>Deep learning applications for mental health illnesses</i>	Dr. Soyiba Jawed (NUST, Islamabad)
12:00 AM – 12:20 PM	<i>Curating Clinical Datasets for AI Research</i>	Dr. Timothy Rittman (University of Cambridge)
12:20 PM – 12:40PM	Q&A	

12:40 PM - 2:00 PM	Lunch Break	
Plenary Session 3 Session chair: Dr Nida Zahid		
2:00 PM – 02:20PM	<i>Explainable AI</i>	Prof. Dr. Rauf Shams Malick (GU Tech, Al Ghazali University)
2:20 PM - 02:40 PM	<i>Neuroethics in AI: Technology vs. Responsibility</i>	Dr. Tashfeen Ahmad (The Aga Khan University)
2:40 PM - 02:55 PM	Q&A	
2:55 PM – 3:10 PM	Tea Break	
3:10 PM – 4:10 PM	Panel Discussion: <i>Overcoming the Obstacles in AI-Based Research</i>	Panellists: Dr. Ahmed Raza Shahid (NUCES FAST Islamabad), Dr. Shahab Ansari (GIK institute of Engineering Science and Technology) , Dr. Reaz Uddin (ICCBS, University of Karachi) Dr. Zahra Hoodhboy (The Aga Khan University) Moderator: Dr. Kiran Aftab (University of Cambridge)

4:10 PM – 4:30 PM	Distribution of Souvenirs	
4:30 PM - 4:45 PM	Closing Remarks & Future Collaborations	