



INTERNATIONAL BRAIN  
**IBRO**  
RESEARCH ORGANIZATION

**pasban**  
Pakistan Society  
of Basic & Applied  
Neuroscience

**11ANC**  
11TH ANNUAL  
NEUROSCIENCE  
CONFERENCE

**pasban** Pakistan Society  
of Basic & Applied  
Neuroscience



# 11<sup>TH</sup> ANNUAL NEUROSCIENCE CONFERENCE SEPTEMBER 24, 2025

Atta-ur-Rahman School of Applied Biosciences  
National University of Sciences & Technology (NUST), Islamabad

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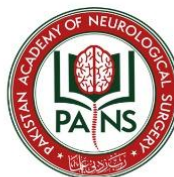
REGISTER NOW!

**CALL FOR ABSTRACTS**  
**Registration & Abstract Submission**  
**Deadline: August 15, 2025**

**CONFERENCE SECRETARIAT**  
Atta-ur-Rahman School of Applied Biosciences, NUST  
Phone: +92-51-90856166  
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For details, visit: [www.pakistan-neuroscience.org](http://www.pakistan-neuroscience.org)



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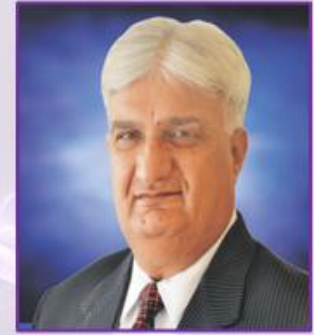
**Prof. Dr. Syed Ather Enam**  
Founding President, PASBAN,  
Professor of Neurosurgery,  
Aga Khan University



**Dr. Sadaf Ahmed**  
President-Elect,  
PASBAN



**Prof. Dr. Anawar-ul-Hassan Gilani**  
Chief Guest  
Vice Chancellor,  
The University of  
Haripur  
Consultant HEC



**Prof. Dr. Muhammad Mukhtar**  
Guest of Honour  
Vice Chancellor,  
National Skills  
University, Islamabad



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# 11<sup>th</sup> ANC

## Organizing Team



**Chair Organizing Committee**  
**Prof. Dr. Touqeer Ahmed**  
Atta-ur-Rahman School of Applied  
Biosciences, NUST



**Co-Chair Organizing Committee**  
**Prof. Dr. Saadia Zahid**  
Atta-ur-Rahman School of Applied  
Biosciences, NUST



**Co-Chair Organizing Committee**  
**Dr. Hussain Mustatab Wahedi**  
Atta-ur-Rahman School of Applied  
Biosciences, NUST

<b>Organizing Committee</b>	Dr. Ghulam Haider (HoD AST) Dr. Fazal Adnan (HoD MBT) Prof. Dr. Naila Naz Prof. Dr. Muhammed Tahir Dr. Tahir Ahmed Baig Dr. Rumeza Hanif
<b>Scientific Committee</b>	Prof. Dr. Touqeer Ahmed Prof. Dr. Saadia Zahid Prof. Dr. Naila Naz
<b>Poster Evaluation Committee</b>	Dr. Aneela Javed (Chair Poster Evaluation Committee) Dr. Shahruxh Abbas Dr. Maria Shabbir Dr. Yasmin Badshah Dr. Maryam Wahab Dr. Rashid Khan Dr. Muhammad Hassan Safdar



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## Distinguished Speakers

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**Dr. Tariq Zaman, PhD**  
School of Medicine  
Michigan State University  
USA



**Dr. Takaaki Ozawa, PhD**  
Institute for Protein Research  
Osaka University, Japan



**Dr. Seung-Eon Roh, PhD**  
Department of Neurology  
John Hopkins School of  
Medicine, USA



**Dr. Arslan Yousuf, PhD**  
Sydney Pharmacy School  
University of Sydney



**Dr. Kaleem Safdar**  
CMH, Rawalpindi



**Prof. Engr. Dr. Zia Mohy Ud Din**  
Chair, Biomedical Engineering,  
Air University, Islamabad



**Dr. Imran Ch**  
Chairman, Department of  
Pharmacology, Bahauddin  
Zakariya University, Multan,  
Pakistan



**Nauman Arshad**  
Tufts University USA





# 11<sup>th</sup> ANC PROGRAM

**24<sup>th</sup> September 2025**

**Session I: Inaugural Ceremony**

**Time: 09:30 am to 11:00 am (Pakistan Time; GMT +5)**

**Venue: ASAB Auditorium**

Time	Duration	Speaker	Title
09:30 am-09:35 am	5 mins	Recitation of the Holy Quran	
09:35 am-09:50 am	15 mins	<b>Dr. Sadaf Ahmed</b> President PASBAN	About PASBAN & 11 <sup>th</sup> ANC
09:50 am-10:10 am	20 mins	<i>Inaugural Address/Plenary talk</i> <b>Chief Guest: Prof. Dr. Anwar Gilani (VC University of Haripur and Consultant HEC)</b>	
10:10 am-10:25 am	15 mins	<b>Conference Chair: Prof. Dr. Touqeer Ahmed</b> Principal and Dean ASAB, NUST	Journey towards the impactful contribution of neurosciences in Pakistan
10:25 am-10:35 am	10 mins	<i>Remarks By the Guest of Honour</i> <b>Guest of Honor: Professor Dr. Muhammad Mukhtar (VC Skills University)</b>	
10:35 am-10:45 am	10 mins	<i>Book launch</i> <b>Prof. Dr. Syed Ather Enam</b> Book Name: Essentials of Neuroscience	

*Photo Session – Ground floor in front of ASAB Reception*

**Tea-Break and Young Scientist Poster Presentations**

**Time: 11:00 am to 11:30 am (Pakistan Time; GMT +5)**

**Venue: Ground floor ASAB**

**Session II - Scientific Talks**

**Chair: Prof. Dr. Peter John | Co-Chair: Prof. Dr. Attya Bhatti**

**Time: 11:30 am to 01:00 pm (Pakistan Time; GMT +5)**

**Venue: ASAB Auditorium**

Time	Duration	Speaker	Title
11:30 am-11:45 am	15 mins	<b>Dr. Kaleem Safdar</b> CMH Rawalpindi	Intraoperative Neurophysiological Monitoring in Brain and Spine Surgery
11:45 am-12:00 pm	15 mins	<b>Professor Dr. Tariq Zaman, PhD</b> School of Medicine, Michigan State University, USA	Unlocking Silent Memory and Seizure Regulators with Transgenic Tools
12:00 pm- 12:15 pm	15 mins	<b>Prof. Engr. Dr. Zia Mohy Ud Din</b> Chair, Biomedical Engineering, Air University, Islamabad	From Brain Science to Biomedical Innovation: Devices Shaping Human Health
12:15 pm-12:30 pm	15 mins	<b>Dr. Arsalan Yousuf, PhD</b> Sydney Pharmacy School, University of Sydney	GABA B receptor modulation of ion channels and membrane excitability in human pluripotent stem cell-derived sensory neurons (hPSCs).
12:30 pm-12:45 pm	15 mins	<b>Prof. Dr. Imran Ch.</b> Chairman, Department of Pharmacology, Bahauddin Zakariya University, Multan, Pakistan	Tiagabine and Brivaracetam combination rewire epileptic activity in kainic acid-induced temporal lobe epilepsy model: Multimodal



			analysis of EEG spectra, behavior and neuroinflammatory modulation
12:45 pm-01:00 pm	15 mins	<b>Prof. Dr. Muhammad Zaman Khan</b> University of Aberdeen, UK	Engineering the Brain–Body Immune Axis: Human induced pluripotent stem cell derived 3D Choroid Plexus Assembloids for Modelling Neuroinflammation

**Lunch and Prayer Break**  
**Time: 01:00 pm to 02:00 pm (Pakistan Time; GMT +5)**  
**Venue: NUST Jinnah Mess**

**Session III: Scientific Talks**  
**Chair: Prof. Dr. Hussnain Ahmed Janjua | Co-Chair: Prof. Dr. Sobia Manzoor**  
**Time: 02:00 pm to 03:00 pm (Pakistan Time; GMT +5)**  
**Venue: ASAB Auditorium**

Time	Duration	Speaker	Title
02:00 pm-02:10 pm	10 mins	<b>Dr. Ghulam Hussain</b> Government College University, Faisalabad	<i>Calotropis procera</i> (methanolic extract) modulates S100 $\beta$ levels to enhance muscle function restoration following sciatic nerve injury in a mouse model
02:10 pm-02:25 pm	15 mins	<b>Dr. Takaaki Ozawa, PhD</b> Institute for Protein Research Osaka University, Japan	Brain region-specific dopamine dynamics during fear learning in mice
02:25 pm-02:35 pm	10 mins	<b>Prof. Dr. Syna Pervaiz</b> Isra University Hyderabad	Evaluation of p21 expression and related autism-like behavior in Bisphenol-A exposed offspring of Wistar albino rats
02:35 pm-02:45 pm	10 mins	<b>Prof. Dr. Saman Shahid</b> National University of Computer and Emerging Sciences (NUCES), Lahore	AI-based imaging to detect grade-I cerebral small vessel disease (cSVD)
02:45 pm-03:00 pm	15 mins	<b>Dr. Seung-Eon Roh</b> Department of Neurology, Johns Hopkins School of Medicine, USA	Psychedelics and Neural Plasticity - Molecular and Circuit Mechanisms

**Parallel Session III: Young Scientist Poster Presentations**  
**Time: 02:00 pm to 03:00 pm (Pakistan Time; GMT +5)**

**Tea Break for the Participants**  
**Time: 03:00 pm to 03:30 pm (Pakistan Time; GMT +5)**  
**Venue: ASAB Ground Floor.**

**Annual General Body Meeting-PASBAN**  
**Time: 03:00 pm to 03:30 pm (Pakistan Time; GMT +5)**  
**Venue: Conference Room 01 (ASAB, NUST)**

**Session IV: Young Scientist Oral Presentations**  
**Chair: Prof. Dr. Saadia Andleeb | Co-Chair: Prof. Dr. M Qasim Hayat**  
**Time: 03:40 pm to 04:40 pm (Pakistan Time; GMT +5)**  
**Venue: ASAB Auditorium**



Time	Duration	Speaker	Title
03:40 pm- 03:47 pm	7mins	<b>Dr. Sidra Shahid</b> Bahria University, Islamabad	Precision Medicine in Alzheimer's Disease: Biomarker-Guided Diagnosis, Prognosis, and Therapy
03:48 pm-03:54 pm	7mins	<b>Aymen Tahir</b> International Islamic University Islamabad	Beyond the Virus: Blood Biomarkers as Predictors of Post-Traumatic Stress Disorder in COVID-19 Survivors
03:55 pm-04:01 pm	7mins	<b>Dr. Nauman Arshad</b> Tufts University USA	Rescuing GABA-mediated hyperpolarization during development alleviates long-term deficits in Cyclin-dependent kinase-like 5 (Cdkl5) deficient mice.
04:02 pm-04:08 pm	7mins	<b>Dr. Maria</b> Gomal Centre of Pharmaceutical Sciences (GCPs)	Synthesis, Characterization, Molecular Dynamic Simulation and Neuroprotective Effects of Synthetic Isoxazolone Derivatives in Ethanol- Induced Neurodegeneration
04:09 pm-04:15 pm	7mins	<b>Dr Ahsan Ibrahim</b> Shifa Tameer e Millat University	Development of Phage therapy for Bacterial Meningitis caused by <i>Streptococcus pneumoniae</i>
04:16 pm-04:22 pm	7mins	<b>Raghabendra Kumar Mahato</b> Gandaki Medical College Teaching Hospital and Research Center, Pokhara, Nepal	Evaluation of Diagnostic Utility of EEG-Based Biomarkers for Early Detection of Alzheimer's Disease
04:23 pm-04:30 pm	7mins	<b>Khansa Furqan</b> Foundation University Islamabad	Effect of Experimentally Induced Multisensory False Memory on Episodic and Semantic Memory and Amnesia in Patients with Acute Hippocampal Damage
04:31 pm-04:37 pm	7mins	<b>Muhammad Ibrahim Shahid</b> Northumbria University UK	Spatial Positioning of Time – Revealing Cognitive Architecture

### Parallel Session IV: Young Scientist Oral Presentations

Chair: Pro. Dr. Sonia Siddiqui | Co-Chair: Dr. Rumeza Hanif

Time: 03:40 pm to 04:30 pm (Pakistan Time; GMT +5)

Venue: Classroom Room 09

Time	Duration	Speaker	Title
03:40 pm- 03:47 pm	7mins	<b>Sobia Shehzad</b> University of Veterinary and Animal Sciences, Lahore	Neuroprotective Role of Troxerutin against Cypermethrin-Induced Redox and Behavior Impairments in Mice
03:48 pm-03:54 pm	7mins	<b>Ammara Bakht</b> International Islamic University	ASD Associated Genetic Networks through Integrated Bioinformatic Analysis
03:55 pm-04:01 pm	7mins	<b>Muhammad Imran Khan</b> Women Institute of Learning, Abbottabad	Smoothing the Way from Raw Video to Real Insight is Just a Few Clicks Away: A Python–R Shiny Framework for Automated Locomotory and Anxiety-like Behavioral Analyses in Albino Mice
04:02 pm-04:08 pm	7mins	<b>Amrendra kumar Mahato</b> Nobel Medical College Teaching Hospital, Biratnagar, Nepal	From Brain Stimulation to Functional Restoration: Evaluating rTMS and tDCS in Post-Stroke Motor Recovery Trajectories
04:09 pm-04:15 pm	7mins	<b>Dr Syed Zaryab Ahmed</b> Ziauddin Medical College, Ziauddin University	Neurocognitive screening approaches in HIV: Tools, applications and limitations
04:16 pm-04:22 pm	7mins	<b>Prof. Dr. Rabia Khawar</b> Government College University Faisalabad	Exploring the role of cognitive affective intelligence in predicting internalizing-externalizing behavior in offspring of parents with mental illness





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### **CLOSING CEREMONY**

- Concluding Remarks by PASBAN Founding President Prof. Dr. Syed Ather Enam
- **Certificates Distribution**