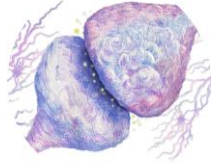




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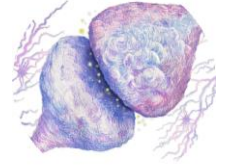


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IBRO-APRC SCHOOL PROGRAM

IBRO-APRC Neuroscience School

Integrating Neuroscience in Public Health; An Outlook on Neurobiological/Neurotherapeutical Aspects of Human Health at Malir University of Science and Technology August 7 – 12, 2023

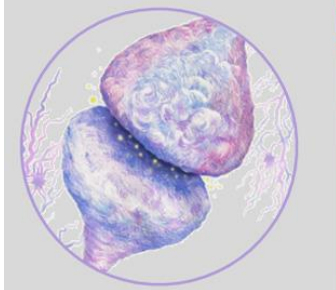
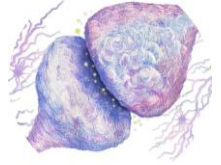
DAY & THEME	09.00-09.45 AM			09.45-10.30 AM	10.30-11.15 AM	11.15-1.30 PM	Lunch Break	2.30-5.00 PM	5 PM Onwards	
1: The Brain as a Predictor of Health; Thinking Bigger About the Brain	Welcome Address by Chancellor	Address of Chair of IBRO-APRC	Message by President PASBAN	PLENARY TALK Prof. Dr. Syed Ather Enam Aga Khan University Pakistan	KEYNOTE LECTURE 1 Prof. Dr. Naweed I Syed University of Calgary Canada	SCIENTIFIC TALK 1 Prof. Dr. Saad Khan Sharif Medical & Dental College Pakistan			Hands-on training for detection and synchronization of neuro-physiological health correlates using data acquisition systems Faisal Khan Brain Annova	Theatre Play at Arts Council Karachi based on brain illness stories (Haseeb & Faisal)
2: Psychological and Neurological Disorders Leading Towards Health Burdens	KEYNOTE LECTURE 2 Prof. Dr. Raza Ur Rehman Dow University of Health Science Pakistan			SCIENTIFIC TALK 2 Dr. Saima Gul Shifa Medical University Pakistan	SCIENTIFIC TALK 3 Prof. Dr. Syed A. Aziz University of Ottawa Canada	WORKSHOP: The Design of Experiments in Neuroscience Dr. Shamoos Noushad Malir University of Science & Technology Pakistan			Hands-on training noninvasive neurobiological correlates of health Dr. Faizan Mirza University of Karachi	Visit to village and farms around University
3: Role of Neuroscience in Tackling Needs and Challenges by Community Health Leaders	KEYNOTE LECTURE 3 Prof. Dr. Wael Mohamed International Islamic University Malaysia			SCIENTIFIC TALK 4 Prof. Dr. Yeong Yeh Lee Universiti Sains Malaysia Malaysia	SCIENTIFIC TALK 5 Dr. Sadaf Ahmed University of Karachi Pakistan	WORKSHOP: Neurological Disorders and Solutions Through it Dr. Pir Asad Aziz Liaquat University Hospital Pakistan			Hands-on training invasive neurobiological correlates of health Dr. Meha Fatima Dow University of Health Science	A high tea with local community health workers from different regions of Pakistan
4: Protection and Prevention; Interventions for Mental and Neurological Disorders	KEYNOTE LECTURE 4 Dr. Fadwa Al Mughairbi College of Medicine & Health Sciences United Arab Emirates University UAE			SCIENTIFIC TALK 6 Dr. Shazia Shakoor Bahria University Medical and Dental College Pakistan	SCIENTIFIC TALK 7 Dr. Emmeline Edward National Institutes of Health United States	WORKSHOP Weathering the Storm – Cultivating Resilience and Managing Stress World Women in Neuroscience United States			Hands-on training neurofeedback, biofeedback and other alternative interventions Dr. Sonya Arshad Liaquat National Hospital and Medical College	A visit to Karachi monuments and historic places
5: Research Methods and Designs for Research on Neurobiological/ Neurotherapeutical Aspects of Human Health	KEYNOTE LECTURE 5 Prof. Dr. Moin Ahmed Ansari Liaquat University of Medical and Health Sciences Pakistan			SCIENTIFIC TALK 8 Prof. Dr. Obaid Ali Malir University of Science and Technology Pakistan	SCIENTIFIC TALK 9 Prof. Dr. Nasir Raza Awan Sharif Medical & Dental College Pakistan	Focus Group Discussions: Multimodal Therapies for Brain Disorders Dr. Aatif Rajput Liaquat University Hospital Pakistan			Hands-on training virtual simulation technology for human anatomy education Prof. Dr. Tipu Sultan Malir University of Science & Technology	Sufi musical night and dinner
6: Integrating Neuroscience in Public Health/Allied Health Curriculum; FGDs on Contents, Fieldwork, Policies and Implementation Programs	POSTER & ORAL PRESENTATIONS AT 9TH ANNUAL NEUROSCIENCE CONFERENCE								TAKE HOME MESSAGE, CLOSING REMARKS & VOTE OF THANKS	



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9th Annual Neuroscience Conference



Chief Guest Prof. Dr. Atta-ur-Rahman

FRS, N.I., H.L., S.I., T.I.,
Khwarizmi Laureate
UNESCO Science Laureate
UNESCO Science Laureate

Co-Chairman UN Committee on Science, Technology and Innovation (UNESCAP)
President Network of Academies of Science of Islamic Countries (NASIC)
Former Federal Minister of Science & Technology/Chairman HEC
Professor Emeritus, International Centre for Chemical and Biological Science

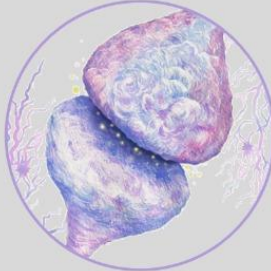
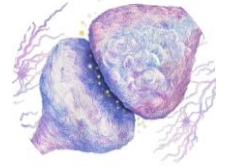


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9th Annual Neuroscience Conference Distinguished Speakers



Prof. Dr. Yeong Y. Lee
Professor of Medicine,
University Sains, Malaysia



Dr. Dimitri Kullman
UCL Queen Square Institute of
Neurology University College
London, Gower Street, London



Prof. Dr. Naweed Syed
Cumming School of Medicine
Hotchkiss Brain Institute
University of Calgary, Canada



**Prof. Dr. Emmeline
Edwards**
National Center for Comple-
mentary and Integrative Health,



Dr. Preeti Jethwa
School of Biosciences,
University of Nottingham
United Kingdom



Prof. Dr. Wael Mohamed
Kulliyah of Medicine
International Islamic University
Malaysia



Prof. Dr. Jean King
Dean of Arts & Sciences,
Worcester Polytechnic
Institute, USA



**Prof. Dr. Deborah
Suchecki**
Department of Psychobiology
UNIFESP- Brazil



Prof. Dr. Syed. A Aziz
University of Ottawa,
& Health Canada
Canada



Prof. Dr. Obaid Ali
ORIC, Malir University of
Science & Technology,
Karachi - Pakistan



Prof. Dr. Mushtaq Hussain
Dow College of Biotechnology,
Dow University of Health
Sciences, Pakistan



Prof. Dr. Moin Ahmed
Dept. of Psychiatry
Liaquat University of Medical
& Health Science, Hyderabad



Prof. Dr. Intekhab Ulfat
Dept. of Physics
University of Karachi,
Karachi, Pakistan



Dr. Saad Khan
Dadabhoj Institute of Higher
Education,
Karachi, Pakistan



Annie Robinson
NYU Grossman School of
Medicine, NYU Langone
Health, New York USA



Dr. Pir Asad Aziz
Dept. of Neurosurgery
Liaquat University of Medical
& Health Science, Hyderabad



Dr. Faizan Mirza
Dept. of Physiology
University of Karachi,
Karachi, Pakistan



Dr. Meha Fatima
Dow Institute of Medical Tech
Dow University of Health



Dr. Saima Gul
Associate Professor,
Shifa Tameer-Millat
University, Islamabad-Pakistan



Dr. Aatir Rajput
Liaquat University of Medical
& Health Science, Hyderabad

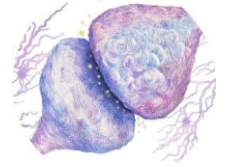


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&
Organizing Committee ANC



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Vice Chancellor
University of Karachi



Advisor

Prof. Dr. S. Ather Enam
Founding President PASBAN
Prof Neurosurgery, AKUH



Advisor

Dr. Pike See Cheah
Chair (IBRO-APRC),
University Putra Malaysia



Advisor

Prof. Dr. Bilqees Gul
Director, ORIC
University of Karachi



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University of Karachi



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HoD, Dept of Neuroscience,
Baqai Medical University



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HoD, Dept of Neuroscience,
Sharif Medical & Dental College



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Prof. Dr. Nikhat Siddiqui
Meritorious Professor
University of Karachi



Member

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Professor, National University
of Science & Technology



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Associate Professor, Dow
University of Health Science



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Advisor

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Organizer

Prof. Dr. Sadaf Akber
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Education & Sports Sciences,
University of Karachi



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Chairperson, Criminology,
University of Karachi



Organizer

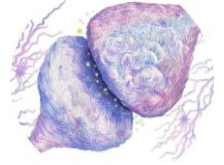
Prof. Dr. Tanveer Abbas
Chairperson, Microbiology,
University of Karachi



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ANC PROGRAM

12th August 2023, Day 1

Session I: Inaugural Ceremony

Moderator: Dr. Faizan Mirza

Time: 09:00am to 10:05am (Pakistan Time; GMT +5)

Time	Duration	Speaker	Title
09:00 am – 09:05 am	05 mins	Prof. Dr. Farhat Batool Chairperson Biochemistry	Introduction to the Conference
09:05 am – 09:10 am	05 mins	Dr. Sadaf Ahmed President PASBAN	About PASBAN
09:10am – 09:20am	10 mins	<i>Inaugural Address</i> Prof. Dr. Khalid Mehmood Iraqi, Ph.D. Vice Chancellor University of Karachi, Karachi	
09:20am – 09:30am	10 mins	<i>Patron Address</i> Prof. Dr. Atta-ur-Rehman, FRS NI HI SI TI UNESCO Science Laureate Professor Emeritus, International Centre for Chemical & Biological Sciences, University of Karachi, Karachi	
09:30am – 10:00am	30 mins	<i>Plenary Talk</i> Evolution of Consciousness Prof. Dr. Syed Ather Enam, SI MD, PhD, FRCSI, FRCS, FRCSG, FACS Professor of Neurosurgery Sakarkhanum & Hussain Ebrahim Family Chair Scientific Director, Juma Research Laboratories, AKUH Founding President PASBAN	
10:00am – 10:05am	05 mins	Prof. Dr. Bilquees A. Gul, Ph.D. Director, ORIC University of Karachi Co-Founder & Former Director Dr. Muhammad Ajmal Khan Institute of Sustainable Halophyte Utilization Lingnan Professor Chair UNESCO Chairholder-ex	

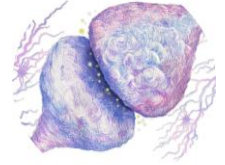
Souvenir Distribution

August 12, 2023 Day 01

Tea-Break and Poster Session

Chair: Prof. Dr. Shamim Qureshi | Co-Chair: Dr. Sonia Siddiqui

Time: 10.05 am to 11:00 am (Pakistan Time; GMT +5)



Moderator: Rabeet Laeque

August 12, 2023 Day 01

Session II - Scientific Talks

Chair: Prof. Dr. Syed Ather Enam | Co-Chair: Prof. Dr. Farhat Batool

Moderator: Sonia Ahmed

Time: 11:00 am to 12:20 am (Pakistan Time; GMT +5)

Time	Duration	Speaker	Title
11:00 am - 11:20 am	20 mins	Prof. Dr. Mushtaq Hussain Dow College of Biotechnology, Dow University of Health Sciences, Karachi	The Grain Brain of Fruit Fly
11:20 am - 11:40 am	20 mins	Dr Fazal Manzoor Arain Department of Biological and Biomedical Sciences, Medical College, The Aga Khan University, Karachi	What makes the human brain unique?
11:40 am - 12:00 Noon	20 mins	Prof. Dr. Nasir Raza Awan Chair Neurosciences Sharif Medical College, Lahore	Virtual Alternative Percept of Reality - Virtual Reality 1.0
12:00 Noon - 12:20 pm	20 mins	Dr. Touqeer Ahmed Department of Healthcare Biotechnology, NUST, Islamabad	Metals neurotoxicity; cellular, molecular, network and behavioral effects

August 12, 2023 Day 01

Session III- Oral Presentations

Chair: Prof. Dr. Touqeer Ahmed | Co-Chair: Dr. Shaista Emad

Moderator: Yusra Saleem

Time: 12:20 pm to 01:00 pm (Pakistan Time; GMT +5)

Time	Duration	Speaker	Title
12:20 pm - 12:30 pm	10 mins	Shafea Saad Dow International Dental College (DUHS), Karachi	Modulation Of Apoptotic and Akt/Pi3k/Mtor Signaling Pathways In Glioblastoma Cells Using Novel Compound 16(R And S)-Phenylamino-Cleroda3,13(14) Z-Diene-15,16 Olide (Pgea-An)
12:30 pm - 12:40 pm	10 mins	Syeda Mehpara Farhat National University of Medical Sciences (NUMS), Rawalpindi	Effect of Aluminum Neurotoxicity on Cholinergic System
12:40 pm - 12:50 pm	10 mins	Ayesha Aslam Dow University of Health Sciences, Karachi	Variations in Neuroanatomy and Learning Behavior between Indigenously Developed Wildtype and Mutant Lines of Drosophila melanogaster

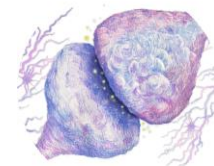


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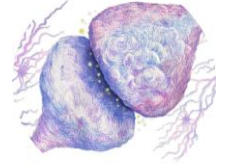
12:50 pm - 01:00 pm	10 mins	Rabeet Laeeque University of Karachi, Karachi	Attenuation of Antipsychotics-Induced Motor Impairments in Rats Supplemented with Sea Buckthorn for Four-Weeks
LUNCH BREAK			
August 12, 2023 Day 01 Session IV: Scientific Talks Chair: Prof. Dr. Nasir Raza Awan Co-Chair: Dr. Sonia Siddiqui Moderator: Rana Faisal Iqbal Time: 02:00 pm to 02:40 pm (Pakistan Time; GMT +5)			
Time	Duration	Speaker	Title
02:00 pm - 02:20 pm	20 mins	Prof. Dr. Farhat Batool Chairperson Biochemistry, University of Karachi, Karachi	Central and Peripheral Actions of Fgf21 and Hypothalamic Tanycytes in Metabolic Game Linked with Schizophrenia
02:20 pm - 02:40 pm	20 mins	Dr. Shamooun Noushad Director Quality Enhancement Cell, Associate Professor Department of Psychology, Malir University, Karachi.	From Trauma to Triumph: The Power of Nature-Based Interventions in Post-Traumatic Growth
August 12, 2023 Day 01 Session V: Oral Presentations Chair: Prof. Dr. Tanveer Abbas Co-Chair: Dr. Huma Ikram Moderator: Anna Askari Time: 02:40 pm to 04.00 pm (Pakistan Time; GMT +5)			
02:40 pm - 02:50 pm	10 mins	Muhammad Wasim The Aga Khan University, Karachi	Unleashing Nature's Potential: Herbal Extracts as a Promising Therapy for Drug-Resistant Epilepsy
02:50 pm - 03:00pm	10 mins	Amima Asif Ghouri Department of Pharmacognosy, Faculty of Pharmacy & Pharmaceutical Sciences, University of Karachi, Karachi	Water Chestnut-Fruit Peels Against Anxiety
03:00 pm - 03:10 pm	10 mins	Iqra Yasin University of Karachi, Karachi	Outcome of Endoscopic Third Ventriculostomy (ETV), Our Early Experience
03:10 pm - 03:20 pm	10 mins	Muneeza Lodhi Department of Pharmacology, Faculty of Pharmacy, Ziauddin University, Karachi	D-pinitol Ameliorates LPS-induced Neuroinflammation via NF- κ B Suppression



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03:20 pm - 03:30 pm	10 mins	Quratulain Dow University of Health Sciences, Karachi	Single Nucleotide Polymorphism in Iodothyronine Deiodinase 2 Gene and their Association with Thyroid Hormone Levels in Schizophrenia Patients in Pakistani Population
03:30 pm - 03:40 pm	10 mins	Ifrah Fahim University of Karachi, Karachi	Role of Transcription Regulators for Differentiation of Mesenchymal Stem Cells into Oligodendrocyte-like Cells
03:40 pm - 03:50 pm	10 mins	Aisha Ishaque University of Karachi, Karachi	Preconditioned Bone Marrow Derived Mesenchymal Stem Cells Reverse Ischemia Induced Neuronal Degeneration
03:50 pm - 04:00 pm	10 mins	Syeda Farah Batool Malir University of Science and Technology, Karachi	A Study Using Psychophysiological Biomarkers to Evaluate the Effectiveness of Cat-Cow Yoga Exercise to Reduce Chronic Musculoskeletal Low Back Pain
04:00 pm - 04:10 pm	10 mins	Beena Hasan University of Karachi, Karachi	Inferring protein expression alteration instigated by AlCl ₃ /D-galactose induced oxidative stress
04:10 pm - 04:20 pm	10 mins	Tehreem Iman Government College University, Faisalabad	Chitosan Coated Nanoparticles of Calotropis Procera is effective for early functional recovery in a mouse model of peripheral nerve injury

August 13, 2023 Day 02

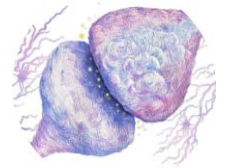
Session VI - Scientific Talks

Chair: Prof. Dr. Nasir Raza Awan | Co-Chair: Prof. Dr. Farhat Batool

Moderator: Ana Askari

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

Time	Duration	Speaker	Title
09:00 am - 09:40 am	40 mins	Dr. Dimitri Kullman Department of Psychiatry and Anatomy & Neurobiology University of Puerto Rico School of Medicine, USA	Approach-avoidance conflicts: Decisions, decisions.
09:40 am - 10:00 am	20 mins	Dr. Preeti Jethwa School of Biosciences, University of Nottingham, Loughborough UK.	Exploring the roles of the neuroendocrine peptide VGF (non-acronymic)
10:00 am - 10:20 am	20 mins	Prof. Dr. Nikhat Siddiqui	Evolving Relevance of Redox-Proteomics in Early Diagnosis of AD: New Challenges and Future Perspectives in Neurodegeneration



		Co-Lead PPIE Group/Ziauddin University	
10:20 am - 10:40 am	20 mins	Prof. Dr. Obaid Ali Director ORIC, Malir University of Science and Technology.	Track, Trace & Understand Science of Life from Real World Evidence
10:40 am - 11:00 am	20 mins	Prof. Dr Intekhab Ulfat Professor of Physics, University of Karachi, Karachi	Advancing Neuro-physics with Synchrotron Radiation

Tea break

August 13, 2023 Day 02

Session VII Scientific Talks

Chair: Dr. Saad Khan | Co-Chair: Dr. Sonia Siddiqui

Moderator: Iqra Sangi

Time: 11:30 am to 01:05 pm (Pakistan Time; GMT +5)

11:30 am - 11:50 am	20 mins	Prof. Dr. Arif Herekar Chair Neurosciences, Baqai Medical University VP PASBAN	Types of Childhood Onset Headaches in Patients Reporting to a Neurology Centre in Karachi (A Descriptive Study)
11:50 am - 12:10 pm	20 mins	Dr. Sadaf Ahmed Asst. Prof. University of Karachi, President PASBAN	Fetal Brain Vulnerability: A Closer look at Maternal Stress and its consequences
12:10 pm - 12:25 pm	15 mins	Dr. Furhan Iqbal Bahauddin Zakariya University, Multan	Effect of variable doses of Nickel oxide nanoparticles on behavior, blood biochemistry and antioxidants from vital organs of albino mice in a sex specific manner
12:25 pm - 12:35 pm	10 mins	Dr. Huma Ikram Department of Biochemistry, University of Karachi, Karachi	Antiaddictive profile of fluoxetine in rats treated with midazolam
12:35 pm - 12:45 pm	10 mins	Dr. Fatima Abid, Jinnah Sindh Medical University, Karachi	Relationship between Genetic Variant of OXTR (rs53576) and MTNR1B (rs1387153) and Symptoms of Psychological Stress in Females with Gestational Diabetes Mellitus
12:45 pm - 12:55 pm	10 mins	Dr. Saima Gul Shifa International Medical University, Islamabad	Comparison of Pharmacological, Electrophysiological & Rehabilitation Management for the Treatment of Spasticity in Traumatic Spinal Cord Injury
12:55 pm - 01-05 pm	10 min	Dr. Sara Rafique, Jinnah Medical & Dental College, Karachi	Comparison of Vitamin D with Anxiety, Depression and Periodontitis; A study on salivary biomarkers

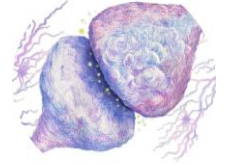
LUNCH BREAK



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August 13, 2023 Day 02

Session VIII - Scientific Talks

Chair: Prof. Dr. Basit Ansari | Co-Chair: Prof. Dr. Syeda Sadaf Akber

Moderator: Ana Askari

Time: 02:00 pm to 04:20 pm (Pakistan Time; GMT +5)

02:00 pm - 2:10 pm	10 mins	Yusra Saleem University of Karachi, Karachi	Effects of Sphinx Pose (Salamba Bhujangasana) Yoga on chronic low back pain
02:10 pm - 02:20 pm	10 mins	Ujala Sajid Malir University of Science and Technology, Karachi	The impact of Angioplasty or Percutaneous Coronary Intervention on the mental wellbeing and Quality of Life of patients with coronary artery disease
02:20 pm - 02:40 pm	10 mins	Amna Iqbal Dow University of Health Sciences, Karachi, Pakistan	Efficacy and Safety of Efgartigimod in Treating Myasthenia Gravis -A Systematic Review and thematic analysis
02:40 pm - 02:50 pm	10 mins	Dr. Saima Gul Shifa International Medical University, Islamabad	Effect of Virtual Reality Combined with Modified Constraint-Induced Movement Therapy on Chronic Stroke Survivors
02:50 pm - 03:00 pm	10 mins	Sami Karedia Dow University of Health Sciences, Karachi	Transition of Innate Behavior during Development in Drosophila Melanogaster
03:00 pm - 03:10 pm	10 mins	Rida Nisar University of Karachi, Karachi	Electric foot-shock induces neurobehavioral aberrations due to imbalance in oxidative status, stress hormone, neurochemical profile, and irregular cortical-beta wave pattern in rats: A validated animal model of anxiety
03:10 pm - 03:20 pm	10 mins	Insa Binte Anwar Liaquat National Medical College, Karachi	Review: What is the role and future implication of deep brain stimulation in the treatment of Parkinson's disease?
03:20 pm - 03:30 pm	10 mins	Zainab, Lahore University of Management Sciences, Lahore	Exploring Missed Cases of Anxiety and Depression due to Somatization and Language Use in a Tertiary Care Hospital in Lahore, Pakistan
03:30 pm - 03:40 pm	10 mins	Samina Malik The University of Lahore, Lahore	Gender Differences in Depression, Anxiety and Stress across the Academic Years of Medical Curriculum: A Concurrent Mixed Method Study
03:40 pm - 03:50 pm	10 mins	Rabeet Tariq Aga Khan University Hospital, Karachi	Intraoperative Mapping and Preservation of Executive Functions in Awake Craniotomy: A Systematic Review

Closing Ceremony