

ICNB2024 & TNS27

International Conference on Neuroscience and Brain Health2024 & 27th Annual Conference of Thai Neuroscience Society

Program

| 8 May 2024 Wednesday | | | |
|----------------------|---|--|---|
| | Entrance Hall | Main Conference Hall (Ballroom 2) | Ballroom 1 |
| 10:30-17:00 | Registration/ Exhibition | | All Poster Put Up/ Poster Presentation |
| 10:30-11:00 | | Break | |
| 11:00-12:30 | | <p>TNS Neuro Quiz (Thai Neuroscience Society Neuro Quiz) <i>National Final Round</i></p> <p>Assoc Prof Chailerd Pichitpornchai, MD, PhD <i>Faculty of Medicine Siriraj Hospital, Institute for Innovative Learning, Mahidol University, Thailand</i></p> <p>Assoc Prof Nopporn Jongkamonwivat, PhD <i>Faculty of Science, Mahidol University, Thailand</i></p> <p>Assoc Prof Akkradate Siriphorn, PhD <i>Faculty of Allied Health Sciences, Chulalongkorn University, Thailand</i></p> | |
| 12:30-13:30 | | Lunch (at Mosaic) | Poster Presentation (1-10) |
| 13:30-14:00 | | <p>Opening Ceremony Opening Remarks by President of Mahidol University Honorary Member Recognition TNS Neuro Quiz Award Presentation</p> | |
| 14:00-14:30 | | <p>Plenary Lecture 1: Prof Apiwat Mutirangura, MD, PhD <i>Center of Excellence in Molecular Genetics of Cancer and Human Disease, Faculty of Medicine, Chulalongkorn University, Thailand</i></p> <p><i>Healing Brain Damage by DNA Protection Role of HMGB1-Produced DNA Gap</i></p> | |
| 14:30-15:00 | Innovative Learning Demonstration: MUIL Team (14:30-16:30) | <p>Professor Dr Prasop Ratanakorn's Lecture: Prof Ingrid Liu, PhD <i>Institute of Medical Sciences, Tzu Chi University, Taiwan</i></p> <p><i>TCU Education of Loving Kindness, Compassion, Altruistic Joy, and Selfless Giving- Neuroscience Perspective</i></p> | |
| 15:00-15:10 | | Break | Poster Presentation (11-15) |
| 15:10-15:40 | | <p>Plenary Lecture 2: (VDO) Prof Gavin P Reynolds, PhD <i>Biomolecular Sciences Research Centre, Sheffield Hallam University, Sheffield, UK</i></p> <p><i>Psychiatric Disorders, Primarily Schizophrenia, and Mechanisms</i></p> | |
| 15:40-16:10 | | <p>Innovation and Technology Briefing: Dr. Vasilii S Kolmogorov, PhD <i>Research Laboratory of Biophysics, National University of Science and Technology "MISIS", Moscow, Russian Federation</i> <i>Lomonosov Moscow State University, Russian Federation</i></p> <p><i>β-Amyloid Aggregates Effect on the Mechanical Properties of Neuronal Cells</i></p> | |
| 16:10-16:30 | | <p>Dr Yuki Fujita, PhD <i>Graduate School of Medical Research, Shimane University, Japan</i></p> <p><i>Spatial Chromatin Organization in Neural Circuit Formation</i></p> | |
| 16:30-17:30 | | Thai Neuroscience Society Business Meeting | Poster Presentation (16-25) |

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| 9 May 2024 Thursday | | | |
|---------------------|-----------------------------|--|--------------------------------|
| | Entrance Hall | Main Conference Hall (Ballroom 2) | Ballroom 1 |
| 08:30-09:00 | Registration/ Exhibition | Plenary Lecture 3: Prof Jerome Sanes, PhD <i>Robert J. & Nancy D. Carney Institute for Brain Science Brown University, Rhode Island, USA</i> <i>Human Prefrontal Cortical Representations of Light Intensity in Health and Depression</i> | |
| 09:00-10:30 | Registration/ Exhibition | I: Neuroinflammation and Glial Activation | |
| 09:00-09:30 | | Special Lecture 1: Prof Long-Jun Wu, PhD <i>Center for Neuroimmunology and Glial Biology, Institute of Molecular Medicine, University of Texas Health Science Center, Houston, USA</i> <i>Microglia Sense and Regulate Neuronal Activity via Norepinephrine Signaling</i> | |
| 09:30-09:50 | | Prof Supin Chompoopong, PhD <i>Faculty of Medicine Siriraj Hospital, Mahidol University, Thailand</i> <i>Microglial Activities in Neurogenesis and Neurodegeneration</i> | |
| 09:50-10:10 | | Assoc Prof Sujira Mukda, PhD <i>Research Center for Neuroscience, Institute of Molecular Biosciences, Mahidol University, Thailand</i> <i>Toll-Like Receptors in Astrocytes and Their Roles in Ischemia-Reperfusion</i> | |
| 10:10-10:30 | | Assist Prof Rubina Shakya, PhD <i>School of Medical Sciences, Kathmandu University, Nepal</i> <i>17β-Estradiol Mitigates the Inflammatory Inhibition of Neurogenesis via the Canonical WNT Signaling Pathway in the SH-SY5Y Cell Line</i> | |
| 10:30-11:00 | Registration/ Exhibition | Break | Poster Presentation (26-35) |
| 11:00-12:30 | | II: Aging, Cognitive and Brain Function | |
| 11:00-11:30 | | Special Lecture 2: Prof Ong Wei Yi, BDS, PhD <i>Faculty of Medicine, National University of Singapore, Singapore</i> <i>Effect of Ergothioneine on Cell and Animal Models of Neurovascular and Neurodegenerative Diseases</i> | |
| 11:30-11:50 | | Assoc Prof Narawut Pakaprot, MD, PhD <i>Faculty of Medicine Siriraj Hospital, Mahidol University, Thailand</i> <i>Effect of Herbal Medicine on Learning and Memory and Depression</i> | |
| 11:50-12:10 | | Assoc Prof Krai Meemon, PhD <i>Faculty of Science, Mahidol University, Thailand</i> <i>Unlocking Nature's Power: Sea Cucumber Extracts for Anti-Aging and Neuronal Health</i> | |
| 12:10-12:30 | | Dr Eve Mon Oo, MD, PhD <i>Department of Anatomy, University of Medicine 1, Myanmar</i> <i>Guardians of Well-being: Germinated Brown Rice (GBR) Unveiling Potent Anti- Apoptotic Effects for Neuroprotection on Cognitive Health</i> | |
| 12:30-13:30 | Registration/ Exhibition | Lunch (at Mosaic) | Poster Presentation (36-45) |

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| | Entrance Hall | Main Conference Hall (Ballroom 2) | Ballroom 1 |
| 13:30-14:20 | | III: Brain Development and Cognitive Stem Cells | |
| 13:30-14:00 | | <p>Special Lecture 3: Assoc Prof Michael KH Ling, PhD <i>Malaysian Research Institute on Aging, Universiti Putra Malaysia, Malaysia</i></p> <p><i>REST-Less and Neurodevelopmental Aberrations in hiPSC-Derived Alzheimer's Disease Neural Model</i></p> | |
| 14:00-14:20 | | <p>Dr Benjamin Ongnok, PhD <i>Faculty of Science, Mahidol University, Thailand</i></p> <p><i>Effects of Parasympathetic Enhancement on Long-Term Cognitive Function and Programmed Cell Death in Rats with Doxorubicin</i></p> | |
| 14:20-15:50 | | IV: Neurodegeneration and Brain Disorders | |
| 14:20-15:10 | | <p>Special Lecture 4: Assoc Prof Pike See Cheah, PhD <i>Faculty of Medicine & Health Sciences, Universiti Putra Malaysia, Malaysia</i></p> <p><i>AAV-Mediated Gene Therapy for Neurofibromatosis: Human Perspective & Mouse Model</i></p> | |
| 15:10-15:30 | | <p>Assoc Prof Kulathida Chaithirayanon, PhD <i>Faculty of Science, Mahidol University, Thailand</i></p> <p><i>Andrographolide Exhibits Neuroprotective Properties by Mitigating MPP+-Induced Apoptosis in SH-SY5Y Cells through the Activation of Mitophagy, Autophagy, and Antioxidant Pathways</i></p> | |
| 15:30-15:50 | | <p>Assoc Prof Siriporn Chamniansawat, PhD <i>Faculty of Allied Health Sciences, Burapha University, Thailand</i></p> <p><i>Brain-Derived Estrogen - A Key Neuromodulator in Hippocampal Synaptic Plasticity and Memory Formation</i></p> | |
| 15:50-16:00 | Registration/ Exhibition | Break | Poster Presentation (46-50) |
| 16:00-17:30 | Registration/ Exhibition | V: Innovative Learning, Exercise and Behavioral Neuroscience | |
| 16:00-16:30 | | <p>Special Lecture 5: Assoc Prof Chailerd Pichitpornchai, MD, PhD <i>Faculty of Medicine Siriraj Hospital, Institute for Innovative Learning, Mahidol University, Thailand</i></p> <p><i>Innovative Learning using AI ChatBot</i></p> | |
| 16:30-16:50 | | <p>Assist Prof Tewarit Sarachana, PhD <i>Faculty of Allied Health Sciences, Chulalongkorn University, Thailand</i></p> <p><i>Sex Differences in the Effects of Prenatal BPA Exposure on the Brain and Behaviors of Offspring</i></p> | |
| 16:50-17:10 | | <p>Dr Adisorn Ratanayotha, MD, PhD <i>Faculty of Medicine Siriraj Hospital, Mahidol University, Thailand</i></p> <p><i>Voltage-Sensing Phosphatase (VSP) as a Regulator of Endocytosis in Absorptive Epithelial Cells: A Bridge between Neuroscience and Non-Neuronal Cell Function</i></p> | |

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| 10 May 2024 Friday | | | |
|--------------------|-----------------------------|--|------------|
| | Entrance Hall | Main Conference Hall (Ballroom 2) | Ballroom 1 |
| 08:30-12:10 | Registration/ Exhibition | | |
| 08:30-09:00 | | Professor Dr. Roongtam Ladpli's Lecture Prof Piyarat Govitrapong, PhD <i>Chulabhorn Graduate Institute, Thailand</i> <i>Melatonin Inhibits Amyloid Beta-Induced NLRP3 Inflammasome Activation as a Signaling Target for Alzheimer's Disease Therapeutic Intervention</i> | |
| 09:00-09:40 | | VI: Addiction and Psychiatric Disorder | |
| 09:00-09:20 | | Special Lecture 6: Assoc Prof Thongchai Sooksawate, PhD <i>Faculty of Pharmaceutical Sciences, Chulalongkorn University, Thailand</i> <i>Kratom, Mitragyna speciosa, a Potential Use as an Analgesic and a Replacement Therapy for Drug Addiction</i> | |
| 09:20-09:40 | | Prof Sutisa Thanoi, PhD <i>Faculty of Medical Science, Naresuan University, Thailand</i> <i>Genetic Variation in Glutamatergic Genes: Associations with Vulnerability to Methamphetamine Dependence and Psychosis</i> | |
| 09:40-10:10 | | Break | |
| 10:10-11:00 | | VII: Cellular and Molecular Neuroscience: Mechanisms of Neural Function and Plasticity | |
| 10:10-10:30 | | Special Lecture 7: Assist Prof Jai Polepalli, PhD <i>National University of Singapore, Singapore</i> <i>Molecular Architecture of Remote Memory Recall</i> | |
| 10:30-10:50 | | Dr. Arnaud Monteil, PhD <i>Institutde Génomique Fonctionnelle, University of Montpellier, France</i> <i>New Insights on the Sodium Leak Channel NALCN Channelosome in Physiology and Disease</i> | |
| 10:50-11:10 | | Dr Kuo-Sheng Lee, PhD <i>Department of Fundamental Neuroscience, University of Geneva, Switzerland</i> <i>Brain-Body Optogenetics: Neural Coding for Vibrotactile Sensation</i> | |
| 11:10-11:30 | | Dr Luca Lo Piccolo, PhD <i>Center of Multidisciplinary Technology for Advanced Medicine, Chiang Mai University, Thailand</i> <i>The Histone Crotonylation Reader YEATS2 Regulates Dopaminergic Synaptic Integrity in the Model Organism Drosophila melanogaster</i> | |
| 11:30-11:40 | | IBRO Presentation Prof Sukumal Chongthammakun, PhD <i>Faculty of Science, Mahidol University, Thailand</i> Prof Yokiko Goda, PhD <i>Okinawa Institute of Science and Technology, Japan</i> <i>IBRO Asia Pacific Regional Committee Chair, 2024-2026</i> <i>Exploring the Brain: IBRO-APRC's Mission to Share Neuroscience</i> | |
| 11:40-11:50 | | Award Presentation Assoc Prof Chailerd Pichitpornchai, MD, PhD/ Prof Supin Chompoopong, PhD | |

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| 11:50-12:00 | | Closing Ceremony Prof Sukumal Chongthammakun, PhD <i>President of Thai Neuroscience Society</i> <i>Faculty of Science, Mahidol University, Thailand</i> | |
| 12:00-13:00 | | Lunch (at Mosaic) | |
| | | End of ICNB2024 & TNS27 | |