[Programme]

The 43rd Annual Conference of the Anatomy Association of Thailand (AAT43)

Khon Kaen University Library, Khon Kaen University, Khon Kaen, Thailand

May 5th – 7th, 2021

Wednesday May 5th, 2021	
08.30 – 09.00	Virtual door open for registration Via Zoom Meeting
09.00 – 09.30	<u>Opening Ceremony</u> **Welcome Address** - Assoc. Prof. Kowit Chaisiwamongkol President, Anatomy Association of Thailand **Report Address** - Asst. Prof. Amnart Chaichun Head of Anatomy Department, Faculty of Medicine, Khon Kaen University Chair of the AAT43 Organizing Committee **Opening Address** - Assoc. Prof. Dr. Chuchat Kamollerd Dean of Faculty of Veterinary Medicine, Khon Kaen University
9:30 – 10.00	**Special Lecture I (English Language)** **Chairperson : Prof. Dr. Supin Chompoopong** **Assoc. Prof. Dr. Parichat Prachaney** **"Emerging roles of microglia, a non-neuronal cell, in learning and memory"** Assoc. Prof. S Thameem DHEEN Department of Anatomy, Yong Loo Lin School of Medicine, NUS, Singapore Q&A (LIVE)
10.00 – 11.30	**Symposium I : Nutraceuticals and Neuroprotection (English Language)** **Chairperson : Emeritus Prof. Dr. Prasert Sobhon** **Assoc. Prof. Dr. Wiphawi Hipkaeo** **"Strategy for Neuroprotection and Anti-aging through Anti-inflammation and Anti-oxidation"** Emeritus Prof. Dr. Prasert Sobhon Department of Anatomy, Faculty of Science, Mahidol University **"Attenuating astrocytic gliosis and AQP4 polarization can enhance anti-neuroinflammatory process in neurodegenerative animal models"** Prof. Dr. Supin Chompoopong Department of Anatomy, Faculty of Medicine Siriraj Hospital, Mahidol University **"Proteomic profiles of GABA neurotransmission signaling in drug-induced neurotoxicity : focusing on a potential target mechanism for neuro-nutraceuticals"** Prof. Dr. Sutisa Thanoi Department of Anatomy, Faculty of Medical Science, Naresuan University **"Neuroprotective effects of bioactive compounds on neurogenesis related to memory"** Assoc. Prof. Dr. Jariya Umka Welbat Department of Anatomy, Faculty of Medicine, Khon Kaen University Q&A (LIVE)
11.30 – 12.00	**Technical Seminar:** Elsevier

12.00 – 13.00	Lunch
13.00 – 13.30	**Technical Seminar:** Anatomage Table Rojn Chaiyasith Product Manager - Medical Education Team, Prime Medical CO.,LTD
13.30 – 15.30	**Special Lecture II, III, IV (English Language)** **Chairperson : Prof. Dr. Samur Thanoi** **Assoc. Prof. Dr. Sitthichai Iamsaard**
13.30 – 14.10	**Special Lecture II** **"What makes a sperm a sperm?"** Prof. Dr. Allan Pacey Department of Oncology and Metabolism, University of Sheffield, UK Q&A (LIVE)
14.10 – 14.50	**Special Lecture III** **"How tears drain - Functional and clinical anatomy of the lacrimal pump and drainage system"** Prof. Dr. Friedrich Paulsen Institute of Functional and Clinical Anatomy, Friedrich-Alexander University, Germany Q&A (LIVE)
14.50 – 15.30	**Special Lecture IV** **"From facial features to Thiel traits"** Prof. Dr. Tracey Wilkinson Centre for Anatomy and Human Identification, School of Science and Engineering, University of Dundee, UK Q&A (LIVE)
15:30 – 17:00	**Oral Presentation Session I (VDO presentation – online Q&A session) (Thai or English Language)** **Chairperson : Assoc. Prof. Dr. Wisuit Pradidarcheep** **Asst. Prof. Dr. Somsuda Somintara**
15.30 - 15.45	**O-01 "The Neuroprotective Effect of Caffeic Acid against Hippocampal Neurogenesis and Memory Deficits in Adult Rats Induced by L- Methionine"** Oabnithi Dornlakorn, Aurasa Saenno, Tanaporn Anosri, Soraya Kaewngam, Nataya Sritawan, Kornrawee Suwannakot, Apiwat Sirichoat, Wanassanan Pannangrong, Jariya Umka Welbat Q&A (LIVE)
15.45 - 16.00	**O-02 "The Protective Effect of Caffeic Acid on Impairments of Memory and Hippocampal Neurogenesis in Aging Rat Induced by D-galactose"** Aurasa Saenno, Oabnithi Dornlakorn, Tanaporn Anosri, Soraya Kaewngam, Nataya Sritawan, Kornrawee Suwannakot, Apiwat Sirichoat, Wanassanan Pannangrong, Jariya Umka Welbat Q&A (LIVE)
16.00 - 16.15	**O-03 "Red Seaweed Extracts, *Halymenia durvillei* against Tumor Necrosis Factor-alpha-mediated HT-22 Cell Death"** Rungsarit Sunan, Darunee Rodma, Chairat Turbpaiboon, Morakot Sroyraya, Krai Meemon, Prasert Sobhon, Supin Chompoopong Q&A (LIVE)
16.15 - 16.30	**O-04 "Effect of Hypothermic Solution on the Stemness of Canine Adipose-derived Stem Cells"** Pongsatorn Horcharoensuk, Sunantha Yang-en, Ruttachuk Rungsiwiwut

	Q&A (LIVE)
16.30 - 16.45	**O-05 "SRPK1 Inhibitor Regulated Alternative VEGF-A splicing Switch in Cholangiocarcinoma Cells and Attenuated Endothelial Cells Proliferation, Migration and Tube Formation"** Kittiya Supradit, David O Bates, Kanokpan Wongprasert
	Q&A (LIVE)
16.45 - 17.00	**O-06 "Effects of Fucoxanthin on High-glucose Induced Lipid Accumulation, Oxidative Stress and Mitochondrial Dysfunction in HepG2 Cells"** Chantarawan Saengkhae, Kijyaporn Jantakarncharoen, Wanthanee Phetchengkao, Tanapan Siangcham
	Q&A (LIVE)
17.00 – 18.00	**2021 Annual General Meeting of the Anatomy Association of Thailand** Via Zoom Meeting
Thursday May 6th, 2021	
08.30 – 09.00	Virtual door open for registration Via Zoom Meeting
9.00 - 10.00	**Symposium II : Clinical Anatomy (Thai Language)** **Chairperson : Assoc. Prof. Dr. Wattana Weerachatyanukul** **Asst. Prof. Wilaiwan Mothong**
9.00 - 9.15	**"Surgical anatomy in oral and maxillofacial surgery"** Asst. Prof. Dr. Angkana Klangthong Department of Oral and Maxillofacial Surgery, Faculty of Dentistry, Khon Kaen University
9.15 - 9.30	**"Trigeminal neuralgia and location of surgical treatment"** Asst. Prof. Dr. Amnat Kitkhuandee Department of Surgery, Faculty of Medicine, Khon Kaen University
9.30 - 9.45	**"Clinical anatomy related to orthopaedic research"** Asst. Prof. Dr. Permsak Paholpak Department of Orthopedics, Faculty of Medicine, Khon Kaen University
9.45 - 10.00	Q&A (LIVE)
10:00 - 11:00	**Panel Discussion: The development of online anatomy courses for promoting knowledgeable society (Thai Language)** **Moderator : Emeritus Prof. Dr. Sukumal Chongthammakun** Emeritus Prof. Dr. Sukumal Chongthammakun Department of Anatomy, Faculty of Science, Mahidol University Assoc. Prof. Dr. Wattana Weerachatyanukul Department of Anatomy, Faculty of Science, Mahidol University Asst. Prof .Dr. Amornpun Sereemaspun Department of Anatomy, Faculty of Medicine, Chulalongkorn University Dr. Pisit Poltana Boromarajonani College of Nursing, Suphanburi Discussion (Live)

11.00 – 12:00	**Poster Presentation Session I** via Zoom Meeting P01-P12 **Chairperson : Assoc. Prof. Dr. Nisaudah Radenahmad** **Dr. Tawut Rudtanatip** Q&A (LIVE)
12.00 – 13.00	Lunch
13:00 – 14.00	**Symposium III : Anatomical knowledge and medical applications: Past, present and beyond (Thai Language)** **Chairperson : Dr. Pisit Poltana** **Asst. Prof. Dr. Tarinee Sawatpanich**
13:00 – 13.15	**"Applications of anatomical image modalities and musculoskeletal disease"** Dr. Adisak Kasemassawachanont Department of Anatomy, Faculty of Medicine Siriraj Hospital, Mahidol University
13:15 – 13.30	**"Applications of bone histomorphology and forensic human identification"** Dr. Napakorn Sangchay Department of Anatomy, Faculty of Medicine Siriraj Hospital, Mahidol University
13:30 – 13.45	**"Surgical anatomy of the craniometric points"** Asst. Prof. Dr. Nawaporn Techataweewan Department of Anatomy, Faculty of Medicine, Khon Kaen University
13.45 – 14.00	Q&A (LIVE)
14:00 – 14:45	**Oral Presentation II (VDO presentation – online Q&A session) (Thai or English Language)** **Chairperson : Asst. Prof. Dr. Natthiya Sakulsak** **Assoc. Prof. Dr. Wanassanun Pannangrong**
14:00 – 14.15	**O-07 "A Study of Topographic Anatomy of Neck and Related Structures at 5^{th} & 6^{th} Cervical Vertebral Levels: A Guidance for Botulinum Toxin Injection into Longus Colli Muscle"** S. Cheewadhanaraks, N. Sangchay Q&A (LIVE)
14:15 – 14.30	**O-08 "Etiology of Acrel's Pseudoganglion"** Pinthusorn Eiamratchanee, James Coey, Laphatrada Yurasakpong, Athikhun Suwannakhan Q&A (LIVE)
14:30 – 14.45	**O-09 "Application of Machine Learning in Evidence-Based Anatomy"** Athikhun Suwannakhan, Laphatrada Yurasakpong Q&A (LIVE)
14.45 – 15.45	Coffee break **Poster Presentation Session II** via Zoom Meeting P013-P23 **Chairperson : Asst. Prof. Dr. Worawit Suphamungmee** **Asst. Prof. Dr. Waraporn Sakaew** Q&A (LIVE)

16.00 – 17.00	<u>Award Winner Announcement</u> **Closing Address** - Asst. Prof. Amnart Chaichun Head of Anatomy Department, Faculty of Medicine, Khon Kaen University
Friday May 7th, 2021	
09.00 – 12.00	Poster Presentation
12.00 – 13.00	Lunch

Poster Presentation

P01 "Effect of *Aquilaria crassna* Leaf Extract on Locus coeruleus in STZ - Induced Diabetic Rats"
Thanaphon Kaewsawat, Chayanon Tubngoen, Ekarin Chulikorn, Narawadee Choompoo, Rachanee Chanasong

P02 "Mucins Expression Pattern in Human Large Intestine Tissues"
Yupa Srithongchai, Phattarapon Sonthi, Keerakarn Somsuan, Siripat Aluksanasuwan, Natthiya Sakulsak

P03 "Involvement of Mast cells and Fibrosis in Colorectal Cancer"
Wariya Mongkolwat, Lanlalit Pongsasakulchot, Yupa Srithongchai , Keerakarn Somsuan, Siripat Aluksanasuwan, Natthiya Sakulsak

P04 "Association Between Acrosome Morphology and the Gene Expression of GABA Receptors in Spermatozoa from Infertile Men"
Ratima Baroonphan, Paweena Kaewman, Sutisa Nudmamud-Thanoi, Samur Thanoi

P05 "Low Level of ARID1A Expression Associates with a Severity of Clinicopathology of Colorectal Cancer Patients in Thailand"
Phattarapon Sonthi, Keerakarn Somsuan, Yupa Srithongchai, Ratirath Samon, Siripat Aluksanasuwan, Natthiya Sakulsak

P06 "Targeting platelet-derived growth factor receptor (PDGFR) induces apoptosis in cholangiocarcinoma cells"
Jinchutha Duangdara, Pakpoom Thintharua, Boonyakorn Boonsri, Kanokpan Wongprasert

P07 "Concurrent Mutation Analysis of ARID1A and Its Prognostic Significance in Renal Cell Carcinomas"
Keerakarn Somsuan, Ratirat samon, Yupa Srithongchai, Pattarapon Sonthi, Siripat Aluksanasuwan, Natthiya Sakulsak

P08 "Efficiency of Gymnemic Acid on Retinal Glial Fibrillary Acidic Protein (GFAP) Expression in Rat Diabetic Retinopathy"
Huda Datu, Uraporn Vongvatcharanon, Wipapan Khimmaktong

P09 "Effect of Hemato Polyvalent Antivenom on Histological Changes of Liver received Envenomation from *Calloselasma rhodostoma* (Malayan pit viper) in Mice"
Nazmi Nuanyaem, Nissara Lorthong, Janeyuth Chaisakul, Wipapan Khimmaktong

P10 "Histopathological Changes of Kidney Following Malayan pit viper and King cobra in Variation Doses in the Rats"
Nissara Lorthong, Nazmi Nuanyaem, Janeyuth Chaisakul, Wipapan Khimmaktong

P11 "Molecular Weight Modification and Antioxidant Activity of Sulfated Galactans from *Gracilaria fisheri*"
Choowadee Pariwatthanakun, Tawut Rudtanatip, Somsuda Somintara, Waraporn Sakeaw, Kanokpan Wongprasert

P12 "Exposure to Extracellular Vesicles Derived from *Naegleria fowleri* Modulates an Immune Response of Neutrophils in Vitro"
Jinjuta Somkird, Sakaorat lertjuthaporn, Hathai Nochot, Chairat Turbpaiboon, Benjaporn Panichareon, Kovit Pattanapanyasat, Ladawan Khowawisetsut

P13 "Proteomic Analysis Reveals Signalling Protein Profile in Hippocampal Depressive Rats after γ-Oryzanol/Curcumin Combination Treatment"
Siripaporn Kesyou, Samur Thanoi, Waree Tiyaboonchai, Siriluk Veerasakul, Sittiruk Roytraku, Sutisa Nudmamud-Thanoi

P14 "Proteomic Analysis of Synaptic Signaling in Rat Frontal Cortex Treated with Pre-germinated Brown Rice After Chronic Dextromethorphan Administration"
Plaiyfah Janthueng, Siriluk Veerasakul, Sittiruk Roytrakul, Samur Thanoi, Sutisa Nudmamud-Thanoi

P15 "AMPA3 Glutamate Receptor Gene Polymorphism (rs502434) is not Associated with Major Depressive Disorder in the Thai Population"
Sri-arun Iamjan, Benjamard Thaweethee-Sukjai, Sirijit Suttajit, Samur Thanoi, Gavin P. Reynolds, Sutisa Nudmamud-Thanoi

P16 "Evaluation of Locomotor Activity and Anxiety-Related Behaviors in Long-Lasting Morphine Withdrawal in Mice"

Panumas Puechpon, Kamonthorn Jindalaong, Sirichai Suksai, Uraporn Vongvatcharanon, Dania Cheaha

P17 "The Femoral Arterial Wall Thickness in Cadaver"

Kaemisa Srisen, Tewarat Kumchantuek, Roongrut Chantapanit, Sureeporn Nak-Ung, Phisid Saenganantakarn, Kanchana Phetrod, Wachanya Suriyan, Suthat Daungchit, Phongpitak Putiwat

P18 "Sex Determination by Using Mandible in Thais"

Tewarat Kumchantuek, Kaemisa Srisen, Roongrut Chantapanit, Sureeporn Nak-ung, Phisid Saenganantakarn, Patumchart Kuasit, Suthat Daungchit, Phongpitak Putiwat

P19 "A Variant of Sciatic Nerve in Phramongkutklao College of Medicine Cadavers by in-Training Undergraduate and Postgraduate Medical Students"

Piyanee Sriya, Piyachat Chansela, Arkaphat Kosiyatrakul ,Tanongson Tienthavorn

P20 "Prevalence of Neck Pain among Preclinical Medical Students in Faculty of Medicine, Princess of Naradhiwas University"

Kolip Payanglee, Nattawut Tadsaichol, Kunlawat Khongchuay, Panyawut Duangtud, Sanyalak Thonglee

P21 "The Creation of Instructional Models for Embryology Using 3D Modelling, Printing and Augmented Reality"

Atthaboon Watthammawut, Monsicha Somrit

P22 "Switch from conventional light microscopic to web-based virtual microscopic classroom during covid-19 pandemic"

Pornsawan Duangsuwan, Warangkana Radchumrong, Supap Nualplub

P23 "The Carousel-Style Lesson: Effective Active Learning to Enhance Motivation and the Learning of Neuroanatomy for Dental Students"

Manaras Komolkriengkrai, Thanaporn Hengpratom, Wipapan Khimmaktong