

[Programme]

The 43<sup>rd</sup> Annual Conference of the Anatomy Association of Thailand (AAT43)

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

May 5<sup>th</sup> – 7<sup>th</sup>, 2021

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

12.00 – 13.00	Lunch
13.00 – 13.30	<b>Technical Seminar:</b> Prime Medical Co.,Ltd.
13.30 – 15.30	<p><b>Special Lecture II, III, IV (English Language)</b>  Chairperson : Prof. Dr. Samur Thanoi  Assoc. Prof. Dr. Sitthichai Iamsaard</p>
13.30 – 14.10	<p><b>Special Lecture II</b>  “What makes a sperm a sperm?”  Prof. Dr. Allan Pacey  Department of Oncology and Metabolism, University of Sheffield, UK  Q&amp;A (LIVE)</p>
14.10 – 14.50	<p><b>Special Lecture III</b>  “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&amp;A (LIVE)</p>
14.50 – 15.30	<p><b>Special Lecture IV</b>  "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&amp;A (LIVE)</p>
15:30 – 17:00	<p><b>Oral Presentation Session I (VDO presentation – online Q&amp;A session) (Thai or English Language)</b>  Chairperson : Assoc. Prof. Dr. Wisuit Pradidarcheep  Asst. Prof. Dr. Somsuda Somintara</p>
15.30 - 15.45	<p><b>O-01 “The Neuroprotective Effect of Caffeic Acid against Hippocampal Neurogenesis and Memory Deficits in Adult Rats Induced by L- Methionine”</b>  Oabnithi Dornlakorn, Auras Saenno, Tanaporn Anosri, Soraya Kaewngam, Nataya Sritawan, Kornrawee Suwannakot, Apiwat Sirichoat, Wanassanan Pannangrong, Jariya Umka Welbat  Q&amp;A (LIVE)</p>
15.45 - 16.00	<p><b>O-02 “The Protective Effect of Caffeic Acid on Impairments of Memory and Hippocampal Neurogenesis in Aging Rat Induced by D-galactose”</b>  Auras Saenno, Oabnithi Dornlakorn, Tanaporn Anosri, Soraya Kaewngam, Nataya Sritawan, Kornrawee Suwannakot, Apiwat Sirichoat, Wanassanan Pannangrong, Jariya Umka Welbat  Q&amp;A (LIVE)</p>
16.00 - 16.15	<p><b>O-03 “Red Seaweed Extracts, <i>Halymenia durvillei</i> against Tumor Necrosis Factor-alpha-mediated HT-22 Cell Death”</b>  Rungsarit Sunan, Darunee Rodma, Chairat Turbpaiboon, Morakot Sroyraya, Krai Meemon, Prasert Sobhon, Supin Chompoopong  Q&amp;A (LIVE)</p>
16.15 - 16.30	<p><b>O-04 “Effect of Hypothermic Solution on the Stemness of Canine Adipose-derived Stem Cells”</b>  Pongsatom Horcharoensuk, Sunantha Yang-en, Ruttachuk Rungsiwut  Q&amp;A (LIVE)</p>
16.30 - 16.45	<p><b>O-05 “SRPK1 Inhibitor Regulated Alternative VEGF-A splicing Switch in Cholangiocarcinoma Cells</b></p>

16.45 - 17.00	<p>and Attenuated Endothelial Cells Proliferation, Migration and Tube Formation” Kittiya Supradit, David O Bates, Kanokpan Wongprasert <a href="#">Q&amp;A (LIVE)</a></p> <p>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 <a href="#">Q&amp;A (LIVE)</a></p>
17.00 – 18.00	<p>2021 Annual General Meeting of the Anatomy Association of Thailand <a href="#">Via Zoom Meeting</a></p>
<p><b>Thursday May 6<sup>th</sup>, 2021</b></p>	
08.30 – 09.00	<p>Virtual door open for registration <a href="#">Via Zoom Meeting</a></p>
9.00 - 10.00	<p>Symposium II : Clinical Anatomy (Thai Language) Chairperson : Assoc. Prof. Dr. Wattana Weerachatanukul Asst. Prof. Wilaiwan Mothong</p>
9.00 - 9.15	<p>“Surgical anatomy in oral and maxillofacial surgery” <a href="#">Asst. Prof. Dr. Angkana Klangthong</a> Department of Oral and Maxillofacial Surgery, Faculty of Dentistry, Khon Kaen University</p>
9.15 - 9.30	<p>“Trigeminal neuralgia and location of surgical treatment” <a href="#">Asst. Prof. Dr. Amnat Kitkhuandee</a> Department of Surgery, Faculty of Medicine, Khon Kaen University</p>
9.30 - 9.45	<p>“Clinical anatomy related to orthopaedic research” <a href="#">Asst. Prof. Dr. Permsak Paholpak</a> Department of Orthopedics, Faculty of Medicine, Khon Kaen University</p>
9.45 - 10.00	<p><a href="#">Q&amp;A (LIVE)</a></p>
10:00 - 11:00	<p>Panel Discussion: The development of online anatomy courses for promoting knowledgeable society (Thai Language) Moderator : Emeritus Prof. Dr. Sukumal Chongthammakun  <a href="#">Emeritus Prof. Dr. Sukumal Chongthammakun</a> Department of Anatomy, Faculty of Science, Mahidol University <a href="#">Assoc. Prof. Dr. Wattana Weerachatanukul</a> Department of Anatomy, Faculty of Science, Mahidol University <a href="#">Asst. Prof. Dr. Amornpun Sereemasun</a> Department of Anatomy, Faculty of Medicine, Chulalongkorn University <a href="#">Dr. Pisit Poltana</a> Boromarajonani College of Nursing, Suphanburi  <a href="#">Discussion (Live)</a></p>

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

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

#### Poster Presentation

- P01 “Effect of *Aquilaria crassna* Leaf Extract on Locus coeruleus in STZ - Induced Diabetic Rats”**  
Thanaphon Kaewsawat, Chayanon Tubngoan, 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, Ratirath samon, Yupa Srithongchai, Phattarapon 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 Signaling Protein Profile in Hippocampal Depressive Rats after  $\gamma$ -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”**  
Plaiyaph 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 lamjan, 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 Phramongkutkloa 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