



Conference Program

International Virtual Conference on Fundamental and Applied Sciences 2020

Wednesday August 19th, 2020

Faculty of Science, Kasetsart University, THAILAND

(Master of Ceremony: Asst.Prof. Ekaphan Kraichak)

- 09.00 a.m. – 09.10 a.m. Welcome and Opening Ceremony
by Assoc.Prof. Apisit Songsasen
Dean, Faculty of Science, Kasetsart University
- 09.10 a.m. – 09.50 a.m. **Plenary Lecture:** Melatonin maintains homeostasis and potentiates the anti-inflammatory response in *Staphylococcus aureus*-induced mastitis
by Prof. Yang Zhangpin, Yangzhou University
- 09.50 a.m. – 10.20 a.m. **Keynote Lecture I:** The genetic engineering of crops: from lab to farm to table
by Prof. Suharsono, IPB University
- 10.20 a.m. – 10.50 a.m. **Keynote Lecture II:** Toxicity of phenylpropanoids from *Alpinia galanga* (Zingiberaceae) extracts against *Spodoptera exigua* Hübner (Lepidoptera: Noctuidae)
by Assoc. Prof. Vasakorn Bullangpoti, Kasetsart University
- 10.50 a.m. – 11.20 a.m. **Keynote Lecture III:** Current sensing development of surface plasmon resonance optical sensor
by Assoc. Prof. Yap Wing Fen, University Putra Malaysia
- 11.20 a.m. – 11.50 a.m. **Keynote Lecture IV:** OASIS Mission for the study of liquid crystals in space investigated on international space station
by Assist. Prof. Nattaporn Chattham, Kasetsart University
- 11.50 a.m. – 01.00 p.m. **Lunch Break**

Session Biological Science: Room A

(Moderators: Asst.Prof. Nopparat Srakaew and Asst.Prof. Ratre Wongpanya)

- 01.00 p.m. – 01.20 p.m. BS-1: Alleviating effect of alpha-mangostin-loaded nanostructured lipid carriers in mice with ischemia reperfusion-induced cerebral infarction
by Romgase Sakamula (KU)
- 01.20 p.m. – 01.40 p.m. BS-2: Comparative proteomics of different semen quality and freezability in Thai swamp buffalo (*Bubalus bubalis*) semen
by Thunchanok Wilasri (KU)

- 01.40 p.m. – 02.00 p.m. BS-3: Assessment on the morphological and molecular characteristic of *Erionota thrax hasdrubal* (Lepidoptera: Hesperidae) in Indonesia by Sri Yuliasih Wiyati (IPB)
- 02.00 p.m. – 02.20 p.m. BS-4: DNA barcoding of the genus *Platybaetis* (Ephemeroptera: Baetidae) in Thailand by Chanaporn Suttinun (KU)
- 02.20 p.m. – 02.40 p.m. BS-5: The comparison of crocodile oil (*Crocodylus siamensis*) and palm oil on cognition and marker of oxidative stress in middle-aged rats by Krittika Srisuksai (KU)
- 02.40 p.m. – 03.00 p.m. BS-6: Prevalence of echinostome cercarial trematode infecting freshwater snails in Bangkok, Thailand by Pichit Wiroonpan (KU)
- 03.00 p.m. – 03.20 p.m. BS-7: Construction of subunit TiLV vaccine against Tilapia lake virus (TiLV) in Nile tilapia (*Oreochromis niloticus*) by Pitakthai Chamtim (KU)
- 03.20 p.m. – 03.40 p.m. BS-8: The Potential of phage therapy In Indonesia to overcome antibiotic resistance and future plan for isolation of bacteriophages specific to *Escherichia coli* strain 275 by Nabila (IPB)
- 03.40 p.m. – 04.00 p.m. BS-9: Optimization of the synthesis and application of Novel Ca(II) Ion-Imprinted Polymer (IIP) using Taguchi method by Rafah JM Al-Maibd (UPM)

Session Biological Science: Room B

(Moderators: Dr. Anongpat Suttangkakul and Asst.Prof. Ornusa Khamsuk)

- 01.00 p.m. – 01.20 p.m. BS-10: Metabolic traits specific for *Lactobacillus reuteri* KUB-AC5 revealed by comparative genome analysis across *L. reuteri* strains by Theeraphol Jatuponwiphat (KU)
- 01.20 p.m. – 01.40 p.m. BS-11: Antifungal effect of tamarind (*Tamarindus Indica*) extracts against *Fusarium oxysporum* causing tomato fruit rot disease by Nur Baiti Abd Murad (UPM)
- 01.40 p.m. – 02.00 p.m. BS-12: Anti acne with *Xylocarpus granatum*'s Endophytic Actinobacteria: growth inhibition of *Propionibacterium acnes* by Hanifah Suci Masykuroh (IPB)
- 02.00 p.m. – 02.20 p.m. BS-13: The physiologies, growth, and yield of 'Tavee 60' chili at fruit setting stage under water limitation by Gadewara Matmarurat (KU)
- 02.20 p.m. – 02.40 p.m. BS-14: Screening and selection of *in vitro* salt tolerant line of Malaysian indica rice (*Oryza sativa* L.) cv. MARDI Siraj 297 by Noorhazira Sidek (UPM)
- 02.40 p.m. – 03.00 p.m. BS-15: The genus *Melinis* P. Beauv. (Poaceae) in Thailand by Paweena Wessapak (KU)

- 03.00 p.m. – 03.20 p.m. BS-16: Genetic diversity of Indonesian drumstick tree (*Moringa oleifera* Lam.)
by Ridwan Ridwan (IPB)
- 03.20 p.m. – 03.40 p.m. BS-17: Expression analysis of genes in ascorbic acid biosynthesis pathway and ascorbic acid content during rice and rice blast fungus infection
by Kanyanat Lamanchai (KU)
- 03.40 p.m. – 04.00 p.m. BS-18: Electrochemical biosensor for the detection of porcine DNA using ferrocenylnaphthalene diimide as redox indicator
by Norzila Kusnin (UPM)

Session Physical Science: Room C

(Moderators: Asst.Prof. Pakorn Wattana-amorn and Asst.Prof. Weekit Sisiraksoontorn)

- 01.00 p.m. – 01.20 p.m. PS-1: Microwave irradiation assisted nanohydroxyapatite synthesise using duck eggshells
by Angga Saputra (IPB)
- 01.20 p.m. – 01.40 p.m. PS-2: Understanding the mixed-metal cobaltite spinel (MCo_2O_4 ; $M = Zn, Ni$); the correlation between cationic occupancy and magnetic property
by Wanchai Deeloed (KU)
- 01.40 p.m. – 02.00 p.m. PS-3: Effect of TiO_2 nanoparticle addition on the structural, magnetic, electrical, and magneto-transport properties of $La_{0.67}Ca_{0.33}MnO_3$ composites
by Lik Nguong Lau (UPM)
- 02.00 p.m. – 02.20 p.m. PS-4: Titanium complexes supported by pyrrolylaldiminat ligands for the ring-opening polymerization of cyclic ester monomers
by Kanokon Upitak (KU)
- 02.20 p.m. – 02.40 p.m. PS-5: Nanocellulose-Based hydrogel from corncob and Acrylamide-Acrylic acid with gamma irradiation technique
by Nur Fadila (IPB)
- 02.40 p.m. – 03.00 p.m. PS-6: Analysis of silicon nitride optical waveguide gas sensors for agricultural applications
by Natnicha Koompai (KU)
- 03.00 p.m. – 03.20 p.m. PS-7: A spirooxazine-based fluorescent probe for highly selective and sensitive detection toward Cu^{2+} ion
by Weerapat Foytong (KU)
- 03.20 p.m. – 03.40 p.m. PS-8: Excipient selection of nanostructured lipid carrier loaded with docetaxel for cancer therapy
by Auni Hamimi Idris (UPM)
- 03.40 p.m. – 04.00 p.m. PS-9: Design, synthesis and evaluation of N^2, N^4 -quinazolinediamines as antimalarials
by Nattakarn Pobsuk (KU)

Session Physical Science: Room D

(Moderators: Asst.Prof. Pakpoom Reunchan, Asst.Prof. Adisak Boonchun and Dr. Wasinee Aswasereelert)

- 01.00 p.m. – 01.20 p.m. PS-10: Potential natural compounds as anti-COVID19 with the target of RdRp: In silico study
by Zahra Silmi Muscifa (IPB)
- 01.20 p.m. – 01.40 p.m. PS-11: Ultrafine Co or Ni-based Nanoparticle@Polyaniline-Derived N-doped mesoporous carbon to high-performance supercapacitor
by Chattrarat Ponghiransmith (KU)
- 01.40 p.m. – 02.00 p.m. PS-12: Carbon nanotube embedded zinc silicate ceramics with narrow bandgap properties for potential infrared detector
by Chan Kar Fei (UPM)
- 02.00 p.m. – 02.20 p.m. PS-13: On the value distribution of two dirichlet L -functions over sums of two zeros of the Riemann zeta-function
by Nattiwut Maugmai (KU)
- 02.20 p.m. – 02.40 p.m. PS-14: Enhancement thermal properties of Graphene-Lauric acid composite as phase change materials
by Sri Ambar Wulan (IPB)
- 02.40 p.m. – 03.00 p.m. PS-15: Theoretical study of the binding between lac dye on silk coated with chitosan
by Aunlika Chimprasit (KU)
- 03.00 p.m. – 03.20 p.m. PS-16: The roadside geotourism on the route 12 for geological perspective in Phetchabun province, Thailand
by Natapan Paungya (KU)
- 03.20 p.m. – 03.40 p.m. PS-17: Optimization and swelling study of smart hydrogel based on carboxymethyl sago starch
by Nur Fatima Al-Zahara Tuan Mohamood (UPM)
- 03.40 p.m. – 04.00 p.m. PS-18: Self-assembly of oxidized lipids in water
by Minchakarn Janlad (KU)