

5 November 2018

8:45 – 8:55

Opening remark

Kiyotaka Morisako (President of Kyoto Institute of Technology, Japan)

1A-1 8:55 – 9:15

Introduction of research network for natural physiologically active substances by the fusion of natural product chemistry and insect biomedical research

Kaeko Kamei (Kyoto Institute of Technology)

Chair: Yoshihiro H. Inoue (Kyoto Inst. Tech.), Nguyen Trong Tue (Hanoi Med. Univ.)

1A-2 9:20 – 9:40

Challenging the rare intractable neurological diseases such as ALS and CMT by *Drosophila* models

Masamitsu Yamaguchi (Kyoto Institute of Technology, Japan)

1A-3 9:40 – 10:00

Effect of *Drosophila* ubiquitin carboxyl-terminal hydrolase on *Drosophila melanogaster* eye differentiation

Cao Thi Thuy Trang, *Dang Thi Phuong Thao (University of Science, VNU - HCM, Vietnam)

1A-4 10:00 – 10:20

Diplazium esculentum (Retz.) Sw. extract inhibits key enzymes involved in Alzheimer's disease, both *in vitro* and in *Drosophila* modelsThanit Kunkeaw¹, Uthaiwan Suttisansanee¹, Dunyaporn Trachootham¹, Pornsiri Pitchakarn² and*Piya Temviriyankul¹ (¹Mahidol University, Thailand, ²Chiang Mai University, Thailand)

10:20 – 10:35

Coffee break

Chair: Masamitsu Yamaguchi (Kyoto Inst. Tech.), Piya Temviriyankul (Mahidol Univ.)

1A-5 10:35 – 10:55

Beneficial effects of *Ilex kudingcha* extract on symptoms of Alzheimer's disease inducing by APP in *Drosophila* model*Nguyen Trong Tue¹, Phi Thi Xuyen², Tran Nguyen Hong², Nguyen Minh Khoi², SalineeJantrapirom³, Masamitsu Yamaguchi³, Kinzo Matsumoto⁴, William R. Folk⁵, Pham Thi NguyetHang^{2,*} (¹Hanoi Medical University, Vietnam, ²National Institute of Medicinal Materials,Vietnam, ³Kyoto Institute of Technology, Japan, ⁴University of Toyama, Japan,⁵University of Missouri, USA)

1A-6 10:55 – 11:15

Identification of chemical compounds having anti-aging effects and elucidation of the molecular mechanisms underlying their effects using *Drosophila* models

Suzuta, S., Tuan Dat Le, and *Inoue, Y. H. (Kyoto Institute of Technology, Japan)

1A-7 11:15 – 11:35

Negative regulations of Yorkie protein expression through its 3'UTR
Hideki Yoshida (Kyoto Institute of Technology, Japan)

1A-8 11:35 – 11:55

Nutritional regulation of stage specific follicle growth is conserved in different types of insect ovary
Keiko Takaki (Kyoto Institute of Technology, Japan)

12:00 – 13:20 Lunch

Chair: Dang Thi Phuong Thao (Univ. Sci., VNU - HCM), Kaeko Kamei (Kyoto Inst. Tech.)

1A-9 13:50 – 14:50

Invited talk: Prostaglandin E receptor type 4 signaling in chronic inflammation and metabolic disorders
Manabu Minami (Kyoto University, Japan)

1A-10 14:50 – 15:10

Design of antigen-loaded peptide nanofibers for efficient antigen delivery
Tomonori Waku (Kyoto Institute of Technology, Japan)

15:10 – 15:25 Coffee break

Chair: Chansorphea Srey (Royal Univ. Phnom Penh), Keiko Takaki (Kyoto Inst. Tech.)

1A-11 15:25 – 15:45

Effect of *Anoectochilus burmannicus* extract against obesity and inflammation-induced insulin resistance
*Pornsiri Pitchakarn¹, Phatcharaporn Budluang¹, Jirarat Karinchai¹, Pisamai Ting²,
Piya Temviriyankul², Ariyaphong Wongnoppawich¹, Arisa Bonness¹
(¹Chiang Mai University, Thailand, ²Mahidol University, Thailand)

1A-12 15:45 – 16:05

Anticancer bioactivity of *E. mollis* extracts in several human cancer lines
Truong Thi Bich Ngoc, Nguyen Thi Hoai Nga, *Nguyen Thi My Trinh, Dang Thi Phuong Thao
(University of Science, VNU - HCM, Vietnam)

1A-13 16:05 – 16:25

Immuno-cell base for cancer therapy
Prof. Ta Thanh Van (Hanoi Medical University)

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Chair: Cho Cho Lwin (Yangon Techn. Univ.), Kaeko Kamei (Kyoto Insti. Tech.)

2A-1 9:00 – 10:00

Invited talk: Non-traditional therapeutics for infectious diseases

Akihiro Kondo (Hiyoshi Corporation)

2A-2 10:00 – 10:20

Xanthine oxidase inhibitory activity of Vietnamese medicinal plants and their active constituents

Mai Thanh Thi Nguyen (University of Science, VNU - HCM, Vietnam)

10:20 – 10:35 Coffee break

Chair: Le Viet Dung (Can Tho Univ.), Hideki Yoshida (Kyoto Insti. Tech.)

2A-3 10:35 – 10:55

Effect of *Mangifera indica* L. on hyperglycemia, hyperlipidemia and atherogenicity in diabetic mice

Nguyen Thi Ai Lan, *Dai Thi Xuan Trang (Can Tho University, Vietnam)

2A-4 10:55 – 11:15

Research Activities in Myanmar

Cho Cho Lwin (Yangon Technological University, Myanmar)

2A-5 11:15 – 11:35

Medicinal plant diversity assessment for conservation and sustainable development in reference to the promotion of public health in Cambodia

Chansorphea Srey (Royal University of Phnom Penh, Cambodia)

2A-6 11:35 – 11:55

Marker-assisted selection (MAS) and its application to the stresses in rice

Le Viet Dung (Can Tho University, Vietnam)

12:05 – 12:15

Closing remark

Giuseppe Pezzotti (Director of International Center, Kyoto Institute of Technology)

5 November 2018

8:45 – 8:55 (room A)

Opening remark

Kiyotaka Morisako (President of Kyoto Institute of Technology, Japan)

1A-1 8:55 – 9:15 (room A)

Introduction of research network for natural physiologically active substances by the fusion of natural product chemistry and insect biomedical research

Kaeko Kamei (Kyoto Institute of Technology)

Chair: Daisuke Iba (Kyoto Inst. Tech.), Nguyen Chi Hung (Hanoi Univ. Sci. Tech.)

1B-1 9:20 – 9:40

Introduction of researches in our Laboratory

Akira Sone (Kyoto Institute of Technology, Japan)

1B-2 9:40 – 10:00

Influence of solar wing to the dynamic resistance of a Solar Autonomous Underwater Vehicle

Nguyen Van Tuan, *Nguyen Chi Hung, Dinh Van Phong

(Hanoi University of Science and Technology, Vietnam)

1B-3 10:00 – 10:20

Development of smart gear system by conductive-ink print with 4-axis laser sintering machine

Daisuke Iba (Kyoto Institute of Technology, Japan)

10:20 – 10:35 Coffee break

Chair: Huu-Hoa Nguyen (Can Tho Univ.), Hiroki Nomiya (Kyoto Inst. Tech.)

1B-4 10:35 – 10:55

Parallel Bag-SVM-SGD for classifying very high-dimensional and large-scale multi-class datasets

*Huu-Hoa Nguyen, The-Phi Pham, Thanh-Nghi Do (Can Tho University, Vietnam)

1B-5 10:55 – 11:15

Recognition and intensity estimation of facial expressions

Hiroki Nomiya (Kyoto Institute of Technology, Japan)

1B-6 11:15 – 11:35

Approach to development of advanced computational intelligence technologies

Hitoshi Iima (Kyoto Institute of Technology, Japan)

1B-7 11:35 – 11:55

Predicting faults by mining large software repositories

Osamu Mizuno (Kyoto Institute of Technology, Japan)

12:00 – 13:20 Lunch

Chair: Nguyen Trung Dung (HUST, Vietnam), Masayuki Fukuzawa (Kyoto Inst. Tech.)

1B-8 13:50 – 14:10

The role of the university in Vietnam Start-up Ecosystem and BK-Holdings model in Hanoi
University of Science and Technology (HUST)

Nguyen Trung Dung (Hanoi University of Science and Technology, Vietnam)

1B-9 14:10 – 14:30

Academia-industry cooperation of computational imaging for industrial and medical applications

Masayuki Fukuzawa (Kyoto Institute of Technology, Japan)

1B-10 14:30 – 14:50

Reduced wiring technology for controller area network

Daisuke Umehara (Kyoto Institute of Technology, Japan)

1B-11 14:50 – 15:05

A similarity measure for human body movements based on 3D chain code

Pham Truong Hong Ngan (Kyoto Institute of Technology, Japan)

15:05 – 15:25 Coffee break

Chair: Ly Quoc Ngoc (Univ. Sci., VNU - HCM), Atsushi Nunome (Kyoto Inst. Tech.)

1B-12 15:25 – 15:45

A new framework for crowded scene counting based on weighted sum of regressors and
human classifier

*Ly Quoc Ngoc, Do Phuc Thinh (University of Science, VNU - HCM, Vietnam)

1B-13 15:45 – 16:05

Dynamic adaptation and optimization of distributed storage system

Atsushi Nunome (Kyoto Institute of Technology, Japan)

1B-14 16:05 – 16:20

Non-destructive measurement of sugar content in apple with a low-cost multi-spectral sensor

Tran Nhut Thanh (Kyoto Institute of Technology, Japan)

1B-15 16:20 – 16:35

A study on camera motion detection from cystoscope movies

Ngo Dinh Thuong (Kyoto Institute of Technology, Japan)

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Chair: Wataru Sakai (Kyoto Inst. Tech.), Hang T. Mai (Univ. Sci., VNU – HCM)

2B-1 9:00 – 9:20

Preparation of polyurethane coating from rubber seed oil

*Cuong N Hoang, Hang T Mai (University of Science, VNU - HCM, Vietnam)

2B-2 9:20 – 9:40

Visualization of local strains of polymer composites under uniaxial deformation studied by X-ray CT
Yukihiro Nishikawa and *Jun Wu (Kyoto Institute of Technology, Japan)

2B-3 9:40 – 10:00

Surface modification of TiO₂ to improve the photovoltaic performance of dye-sensitized solar cells
(DSCS)

Phuong Tuyet Nguyen (University of Science, VNU - HCM, Vietnam)

2B-4 10:00 – 10:20

Pressure effects on food processing and sterilization of bacterial cells studied by NMR spectroscopy
Kenji Kanaori (Kyoto Institute of Technology, Japan)

10:20 – 10:35 Coffee break

Chair: Kenji Kanaori (Kyoto Inst. Tech.), Congtranh Nguyen (Univ. Sci., VNU-HCM)

2B-5 10:35 – 10:55

Flame retardancy behavior of ammonium organophosphonate on highly flammable resins and
waterborne coatings

Nguyen Kim Hung, *Congtranh Nguyen (University of Science, VNU - HCM, Vietnam)

2B-6 10:55 – 11:15

Effect of polymer concentration on the morphology and properties of centrifugally spun recycled
poly(ethylene terephthalate) fibers

*Hoan N. Doan, K. Kinashi, W. Sakai, N. Tsutsumi (Kyoto Institute of Technology, Japan)

2B-7 11:15 – 11:35

Chemical constituents and their cytotoxicity activity against PANC-1 cell line of propolis of
stingless bee (TRIGONA MINOR)

Nhan Trung Nguyen (University of Science, VNU - HCM, Vietnam)

2B-8 11:35 – 11:55

Spin-trapping analysis and characterization of thermal degradation of polymer materials

*Wataru Sakai, Kenji Kinashi, Naoto Tsutsumi (Kyoto Institute of Technology, Japan)

12:05 – 12:15 (room A)

Closing remark

Giuseppe Pezzotti (Director of International Center, Kyoto Institute of Technology)