

National Tsing Hua University– Osaka University International Student Symposium 2019

Date: October 7th – 11th, 2019

Venue: Nambu Yoichiro Hall, Osaka University,
Toyonaka, Osaka, Japan

Organized by: Department of Biological Science,
Graduate School of Science, Osaka University

Co-organized by: College of Life Science, National Tsing Hua University

Agenda briefing

| | | 10/7 (Mon) | 10/8 (Tue) | 10/9 (Wed) | 10/10 (Thu) | 10/11 (Fri) |
|-------|---------|------------|-------------------|-------------------|------------------|-------------|
| AM | | | PI session 1 | PI session 3 | | |
| | | | Student session 1 | Student session 3 | | |
| | | | Lunch | Lunch | Day trip to Nara | |
| | | | Student session 2 | Student session 4 | | |
| PM | Arrival | | | | | Departure |
| | | | PI session 2 | PI session 4 | | |
| Night | | | Social gathering | | Party | |

Symposium Program

October 8th Tuesday

PI session 1

10:00 Kenji Matsuno

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10:30 Cell chirality is the link between molecular and body chirality

10:30 Wen-Ching Wang

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11:00 Cholesterol glucosylation of *Helicobacter pylori* modulates intracellular trafficking to escape macrophage clearance

11:00

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11:10

Short Break

Student session 1

11:10 Woei-Yaw Chee

|

11:25 The interconnection between β -catenin and Lipid Droplets in Naked Mole Rat: The Nexus for cellular metabolism and Senescence

11:25 Ruei-Ching

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11:40 Human hepcidin 25 induces reactive oxygen species production and triggers apoptosis in *Candida albicans*

11:40 Maki Sudo

|

11:55 Traveling waves regulate expansion of skin inflammation

11:55 Yongyu Chew

|

12:10 Functional characterization and cellular impact of outer membrane vesicle-associated virulence factors during *Helicobacter pylori* infection

12:10

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13:40

Lunch

Student session 2

13:40 Naoya Kamamoto

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13:55 The shortest-wall division rule and tip growth of an apical stem cell regulate cellular phyllotaxis

13:55 Hui-Fang Lung

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14:10 Functional Analysis of Arabidopsis Phosphate Transporter Traffic Facilitator 1

14:10 Hiroaki Imoto

|
14:25 Development of biological modeling platform BioMASS using Python

14:25 En-Chi Liao

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14:40 Secretomic analysis of metastatic biomarkers in oral Cancer

14:40 Naoyuki Kawase

|
14:55 The transmembrane glycoprotein CDCP1 controls HGF-dependent cancer cell invasion

14:55 Chia-Chan Hsu

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15:10 The N-terminal motif underlies autorepression of FoxM1 and serves as a cancer inhibitor

15:10

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16:00

Coffee Break

PI session 2

16:00 Tohru Ishitani

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16:30 Cell competition corrects noisy Wnt morphogen gradients to achieve robust patterning

16:30 Tzu-Yin Liu

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17:00 The role of autophagy in phosphate recycling in Arabidopsis

18:00

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Dinner

October 9th Wednesday

PI session 3

10:00 Sakiko Shiga

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10:30 Circa'bi'dian rhythm in the large black chafer *Holotrichia parallela*

10:30 Lee-Wei Yang

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11:00 Programmed Ribosomal Frameshifting is Facilitated by 30S Rolling and Evenly Distributed Unfolding Intermediates of Pseudoknots

Student session 3

11:00 Daisuke Yoshioka

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11:15 PI(4,5)P2-mediated positive feedback accumulates PTEN on the cell membrane and reinforces directed cell migration

11:15 Shi-Rong Hong

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11:30 Spatiotemporally decoding the roles of glutamylation in centrosomes

11:30 Yi-Ting Lai

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11:45 *Drosophila* AWP1 ortholog, Doctor No, regulates JAK/STAT signaling in left-right gut asymmetry by promoting the endocytic trafficking of Domeless receptor

11:45 Hsin-Yu Yang

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12:00 Investigation of structure, function, and encapsulated microparticle in interleukin-1

12:00

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Lunch

13:30

Student session 4

13:30 Koki Sakurai

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13:45 Molecular investigations on neuroinflammation and behavioral deficits seen in *Kpna4* knockout mice

13:45 Rui Han

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14:00 Roles of coordinated stabilizing and updating circuits in spatial orientation working memory

- 14:00 Kohta Mizutani
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14:15 Midbrain dopamine neurons drive reward-associated whisker movements
- 14:15 Fang-Liang Chu
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14:30 Effects of electrical stimulation on the remaining neural network of photoreceptor degenerated retinas for sub-retinal prosthesis
- 14:30 So Sakamura
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14:55 Mechanisms Underlying the Left-Right Asymmetry formation of *Drosophila* brain
- 14:45 Wei-Ling Huang
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15:00 The effect of nuclear-encoded OXPHOS genes on mitochondria in yeast cells

15:00

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15:30

Coffee Break

PI session 4

- 15:30 Toshimichi Fujiwara
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16:00 Solid-state NMR studies of protein structure and interaction
- 16:00 Ping-Chiang Lyu
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16:30 Untying a Protein Knot by Circular Permutation
- 16:30 Naotada Ishihara
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17:00 Dynamic regulation of mitochondrial membrane and genome in mammalian cells
- 17:00 Chuang-Rung Chang
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17:30 The role of autophagy in phosphate recycling in Arabidopsis