

Agenda for the 29th East Asia Joint Symposium

2023.10.16

□ SIMS EAJS organizing committee

- Title : The 29th East Asia Joint Symposium(EAJS)
- Date : 2023.10.24.(Tue) ~ 27(Fri)
- Organized by Soonchunhyang Institute of Medi-bio Science (SIMS)
- Location : Ramada Encore by Wyndham Cheonan
(12 Chadoldeul-gil, Seobuk-gu, Cheonan-si, Chungcheongnam-do, Korea)
<http://ramada-encore.co.kr/>
- Attendance : President 1, Principal Investigator 4, Young Scientist 4, total 9 per Institute
- Schedule summary
 - Day1(Tue): Arriving, Registration, Session(afternoon), Welcoming Reception
 - Day2(Wed): Session(morning), Lunch, Session(afternoon), Ken-Ichi Arai Award and Lecture, Dinner
 - Day3(Thu): Session(morning), Lunch, Session(afternoon), SIMS tour, Poster Session, Banquet at SIMS(Dinner hosted by Dr. Kyoil Suh, Chairperson of Dongeun Education Foundation)
 - Day4(Fri): Director's meeting(breakfast), Move to Seoul, Seoul city tour, Move to airport

■ Update

Please note the following updates:

- The presentation order has been modified, particularly the YS sections. If your presentation time is changed, please understand and let us know if you have any concerns about the schedule.

- The dates for the Ke-Ichi Arai award section and Poster section have been changed.

- The pickup bus schedule at ICN airport has been updated. Both buses will be assigned at 13:00 and 13:30, as most participants will be arriving around that time and one bus is insufficient for seating (There is no change at GMP). We will send a guide with the location of the buses around the airport and contact information of the SIMS volunteer students or staff who will be with the buses later this week.

We beg your understanding as to who will arrive in the late afternoon of 10/24 and we will send a separate travel guide on how to arrive at the Venue.

- PI speakers may vote for the Young Scientist Awards. Please send your picks of 2 young scientists to sims@sch.ac.kr by 18:30 on the 26th. We plan to present to 8 YSs with souvenirs.

- The location for the city tour on 10/27 has changed to Changdeokgung Palace, which offers a better view in the autumn.

- During the tour, the buses will wait until the tour is done with your luggage. Once done, we will move to Seoul station and break up there. You can transfer to the airport train directly at Seoul station and minimize wandering in the city. Of course, if you prefer to have your own schedule, you can leave anytime before or after the palace tour.

■ Schedule

Day1. October 24th(Tue)

Airport Pickup bus: Incheon T1- 13:00, 13:30 / Gimpo- 13:30

14:00-	Registration
15:45-16:30	Session I PI-1~3 (3 PIs, 15 min presentation for each PI)
16:30-17:00	Break
17:00-18:20	YS session I 1~8 (8 YSs, 10 min presentation for each YS)
18:20-18:30	Break
18:30-	Opening Remarks
	Welcoming Reception

Day2. October 25th(Wed)

08:00-	Registration
09:00-10:15	Session II PI-4~8 (5 PIs)
10:15-10:45	Break
10:45-11:45	Session III PI-9~12 (4 PIs)
11:45-12:00	Break
12:00-13:00	Lunch (Lunch Box)
13:00-15:00	YS Session II YS-9~20 (12 YSs)
15:00-15:30	Break
15:30-16:30	Session IV PI-13~16 (4 PIs)
16:30-17:00	Break
17:00-17:50	Ken-Ichi Arai Award Lecture
17:50-18:00	Ken-Ichi Arai Award Ceremony
18:30-	Dinner

Day3. October 26th(Thu)

09:00-10:00	Session V PI-17~20 (4 PIs)
10:00-10:30	Break
10:30-11:45	Session VI PI-21~25 (5 PIs)
11:45-12:00	Break
12:00-13:00	Lunch (Lunch Box)
13:00-14:40	YS Session III YS-21~30 (10 YSs)
14:40-15:00	Break
15:00-16:00	Session VII PI-26~29 (4 PIs)
16:00-17:00	Move to SIMS, SIMS Tour
17:00-18:00	Poster Session at SIMS
18:00-18:30	Closing Remarks (Comment by NTU / Lifetime award for Prof. Jeongbin Yim)
18:30-	Banquet at SIMS (Chairperson's Dinner)
	Friendly beer party for YS / YS awards
	Move to Hotel

Day4. October 27th(Fri)

07:00-	Directors' Meeting over breakfast
08:30-10:00	Move to Seoul
10:00-12:00	Seoul City Tour - Changdeokgung Palace
12:00-	Move to Seoul station by bus (Light meal will be provided in bus for lunch)
	Break up at Seoul station
	Head to airport individually (Instruction for train will be provided)

■ Program

PI Session 1: Metabolism and disease

(Chair: Prof. Jongkyeong Chung, Director [SNU/IBMG])

1. Lee, Myung-Shik (SCH/SIMS)

ER-to-lysosome Ca^{2+} refilling followed by K^{+} efflux-coupled store-operated Ca^{2+} entry in inflammasome activation and metabolic inflammation

2. Sung-Yon Kim (SNU/IBMG)

How do we turn on the heat when it is cold?

3. Hwang, Yongsung (SCH/SIMS)

Understanding the forces that control cell fate and disease progression

PI Session 2: Molecular and cell biology

(Chair: Prof. Hiroshi Kawamoto, Director [LiMe])

4. Toshifumi, INADA (IMSUT)

Molecular mechanism and physiological function of translational quality control RQC

5. An ZENG (SIBCB)

Maintenance and regulation of adult pluripotency during planarian regeneration

6. Vincent LAUDET (OIST)

Clownfish and giant sea anemones: Molecular dissection of a symbiosis

7. Kei, SATO (IMSUT)

Evolution of SARS-CoV-2

8. Bo ZHOU (SIBCB)

Dissect the heterogeneity of hematopoietic stem cells

PI Session 3: Biochemistry and proteomics

(Chair: Prof. JianFeng Chen, Director [SIBCB])

9. Hirofumi Shintaku (LIME)

Micro- and nanoscale electroporation for single-cell multiomics

10. Gaofeng Fan (SIAIS)

THEMIS is a novel substrate and allosteric activator of SHP1, playing dual roles during T cell development

11. Ming-Jiun Yu (NTUCM/IBMB)

Proteomics Deciphering Vasopressin-Induced Aquaporin-2 Trafficking Mechanism

12. Takashi Okada (LIME)

Determining regulations of biochemical reaction systems from network topology

PI Session 4: Cancer

(Chair: Prof. Makoto NAKANISHI, Director [IMSUT])

13. Dong GAO (SIBCB)

Lineage fidelity and plasticity in prostate cancer initiation and castration resistance

14. Hiroshi, YASUI (IMSUT)

Toward translational cancer research for refractory hematological malignancies

15. Ping-Hung Chen (NTUCM/IBMB)

Soluble TREM2 (sTREM2) augments macrophage/cancer cell crosstalk to promote NSCLC malignancy

16. Jin-Hong Kim (SNU/IBMG)

Characterizing targetable vulnerabilities in highly resistant sarcomas

PI Session 5: Neuroscience

(Chair: Prof. Jia LIU, Representative professor [SIAIS])

17. Hyoung F. Kim (SNU/IBMG)

Your finger knows which one is good: Primate finger touch-induced value memory in the basal ganglia system

18. Suwen Zhao (SIAIS)

Annotation and Classification of Chordata Olfactory Receptors

19. Junho Lee (SNU/IBMG)

Evo-Devo plasticity of the nervous system: from hitchhiking behavior to population genetics and connectomics

20. Jian Zhao (SIAIS)

Synchrotron radiation infrared spectroscopy of human induced neural stem cells

PI Session 6: Signal transduction and drug discovery

(Chair: Prof. Ming-Shyue Lee, Director [NTUCM/IBMB])

21. Nei-Li Chen (NTUCM/IBMB)

Structural basis for the assembly of the DNA cleavage-religation center of type IIA topoisomerase and its encounter with DNA-tracking machineries

22. Makoto, NAKANISHI (IMSUT)

Targeting senescence to improve age-related diseases

23. Tadashi Yamamoto (OIST)

Modalities of gene regulation mediated by the CCR4-NOT deadenylase complex

24. Jianjun Cheng (SIAIS)

GPCR structure- and function-based drug discovery for the treatment of mental disorders

25. Helene Minyi Liu (NTUCM/IBMB)

The spatial and temporal regulations of cytosolic RNA sensors by the 14-3-3 chaperon family

PI Session 7: Stem cell and regeneration

(Chair: Prof. Tadashi Yamamoto, Representative professor [OIST])

26. Shinichiro Chuma (LIME)

Genome Integrity in the Germline Stem Cell Cycle

27. Lijian HUI (SIBCB)

Cell Identity Conversion and Liver Regeneration

28. Nayoung Suh (SCH)

MicroRNA-mediated regulatory circuits in human mesenchymal stem cells

29. Mayumi Yamada (LIME)

Analysis of regulatory mechanism of neural stem cells by optical manipulation of bHLH transcription factor expressions

Ken-Ichi Arai Award and Lecture

Moon, Jong-seok (SCH/SIMS)

The alteration of astrocytes during Alzheimer's diseases

Young Scientists Session 1

(Chair: Juyeon Kim, Graduated student [SCH/SIMS])

Tania Setiawan, Graduated student [SCH/SIMS])

1. Eunjee Kim (SNU/IBMG)

Creation of forebrain assembloids mimicking dynamic cellular interactions during the development of the human schizophrenia brain

2. Hiroyuki, MATSUMURA (IMSUT)

Stem cell competitive dynamics orchestrate skin homeostasis, aging and carcinogenesis

3. Chunye LIU (SIBCB)

Niche inflammatory signal regulates periodical mammary regeneration and safeguards stem cell survival under cytotoxic stress

4. Ryo Ichijo (LIME)

Vasculature atrophy causes a stiffened microenvironment that augments epidermal stem cell differentiation in aged skin

5. Hsin-Hsien Lin (NTUCM/IBMB)

Spint1 depletion in mouse pancreas cause glucose intolerance, β cell mass reduction and insulin production impairment via HEPsin/GLP1R/MafA signaling

6. Daewon Lee (SNU/IBMG)

UCHL1 controls neuronal insulin resistance and diabetic neuropathy

7. Virginia Juwono (SCH/SIMS)

The role of Tgf- β in serotonin neurons differentiation based on human embryonic stem cells (hESC) system

8. Yan Gao (SIAIS)

Structural Studies on Mycobacterial Oxidative Phosphorylation System

Young Scientists Session 2

(Chair: Virginia Juwono, Graduated student [SCH/SIMS],

Rehna Paula, Graduated student [SCH/SIMS])

9. Heqiao Zhang (SIAIS)

Structure of the class I histone deacetylase complex

10. Sihan, LI (IMSUT)

Molecular mechanism and physiological function of stalling-induced elimination of functional ribosomal subunits

11. Yukiko Muramoto (LIME)

Study on the temperature sensitivity of SARS-CoV-2 replication

12. Heng FENG (SIBCB)

Tendon-derived cathepsin K-expressing progenitor cells activate Hedgehog signaling to drive heterotopic ossification

13. Ye Young Kim (SNU/IBMG)

Roles of Cryptochrome 1 (CRY1) in the regulation of energy metabolism in peripheral tissue

14. Choijamts Munkhzul (SCH/SIMS)

H19X-encoded microRNAs induced by IL-4 in adipocyte precursors regulate proliferation to facilitate differentiation

15. Ko-Ting, Liu (NTUCM/IBMB)

Structural Basis for the Assembly of Type IIA Topoisomerase DNA Cleavage/Religation Center

16. Wei-Chieh, Jerry, Chiang (OIST)

Loss of functional ER membrane protein complex disrupts ER proteostasis and induces proteotoxicity in retinal degeneration

17. Tatsuaki Mizutani (LIME)

Neutrophil S100A9 dictates the M2 polarization of macrophage niche in the deep granulomas

18. Yusuke, KOSUGI (IMSUT)

Determination of the factor responsible for the host tropism of SARS-CoV-2 related bat coronaviruses

19. Yi-Shiang Wang (NTUCM/IBMB)

Structural and Biophysical Studies of Human Transthyretin A97S Variant

20. Yiming Liam LIU (SIBCB)

Tracing the skeletal progenitor transition after bone fracture

Young Scientists Session 3

(Chair: Choijamts Munkhzul, Graduated student (SCH/SIMS),

Junhyung Kim, Graduated student [SCH/SIMS])

21. Wenwen Zhao (SIAIS)

Prime editor-mediated functional reshaping of ACE2 prevents the entry of multiple human coronaviruses, including SARS-CoV-2 variants

22. Bo-Shih Huang (NTUCM/IBMB)

miR-21 Targets ASPP2 to Inhibit Apoptosis via CHOP-Mediated Signaling in *Helicobacter pylori*-Infected Gastric Cancer Cells

23. Keiya, URIU (IMSUT)

Immune resistance of newly emerging SARS-CoV-2 Omicron variants

24. Riyo Konishi (LIME)

Cancer-dependent disruption of liver zonation in mice

25. Rehna Paula (SCH/SIMS)

Atf4 Mediates Cold-induced Adipose Tissue Browning by Regulating Mthfd2 Expression

26. Lin ZHENG (SIBCB)

Cholesterol metabolism in antitumor immunity

27. Huiyu Chen (SIAIS)

Alternative Z-genome biosynthesis pathway reveals the evolution of key enzyme from Archaea to phages

28. Hyunmin Kim (SNU/IBMG)

A structural vista of phosphatidylcholine-like PhLP2A-chaperonin TRiC cooperation during the ATP-driven folding cycle

29. Juyeon Kim (SCH/SIMS)

Elucidating the role of cell surface free thiol groups in myogenic differentiation of skeletal muscle progenitor cells

30. Yoshiki Ochiai (OIST)

SUPREM: an engineered non-site-specific m6A RNA methyltransferase with highly improved efficiency