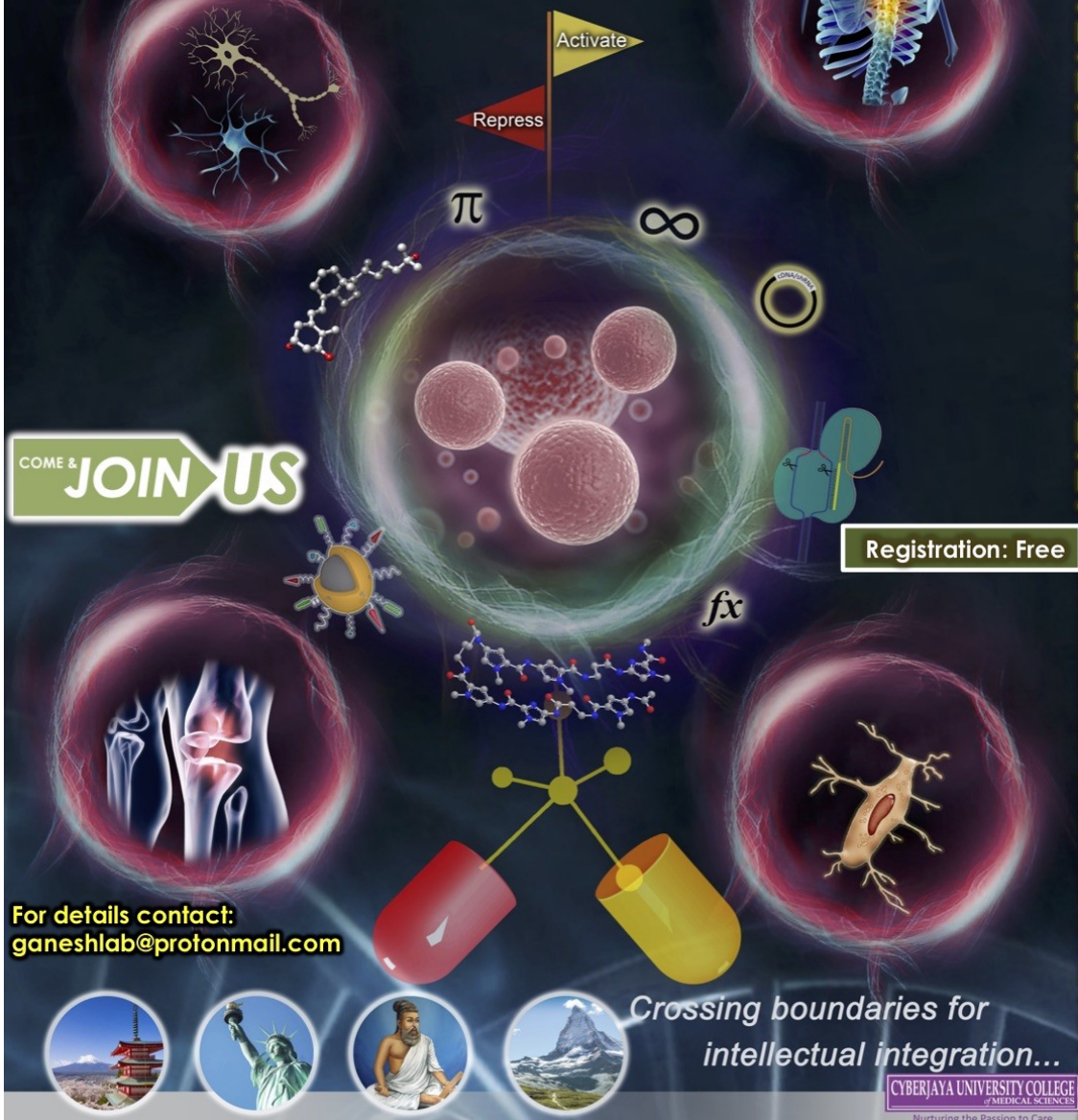


The SPIRITS International Symposium - 2019

Regulation of cell fate and disease treatment

January 28-29, 2019



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Registration: Free

For details contact:
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Crossing boundaries for
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CYBERJAYA UNIVERSITY COLLEGE
OF MEDICAL SCIENCES
Nurturing the Passion to Care



Institute for Integrated Cell Material Sciences,
Kyoto University, Japan
Venue: KUIAS/iCeMS Main Building, 2F Seminar Room



08:45 - 09:00: Registration
09:00 - 09:15: **OPENING REMARKS – SUSUMU KITAGAWA** (Director, iCeMS)

Jan 28, Monday

Session I: Elucidation of Cellular Mechanisms

09:15 - 09:45: **Jun Suzuki** (iCeMS, Kyoto University)
Mechanisms of phospholipid scrambling on the plasma membranes
09:45 - 10:15: **Ramanuj DasGupta** (A*STAR, Singapore)
Tumor evolution: through the looking glass of a single cell
10:15 - 10:45: **A.K. Munirajan** (University of Madras, India)
MicroRNAs regulate the cell fate and influences therapeutic response in oral squamous cell carcinoma

Session II: Neurological Disease Models

11:05 - 11:30: **Jae K. Lee** (University of Miami, USA)
Wound healing mechanisms after spinal cord injury
11:30 - 12:00: **Odity Mukherjee** (inStem, India)
APOE isoforms and regulation of mitochondrial dynamics in Alzheimer's patient-derived NPCs
KEYNOTE: Stem Cell-based Therapy for Parkinson's Disease
13:00 - 13:45: **Jun Takahashi** (CIRA, Kyoto University)
KEYNOTE: Chemical Biology of Nucleic Acids: DNA Origami and Artificial Genetic Switch
13:45 - 14:30: **Hiroshi Sugiyama** (Dept. of Chemistry/iCeMS, Kyoto University)

Session III: Disease Model and Drug Delivery

14:45 - 15:15: **Fuyuhiko Tamanoi** (iCeMS, Kyoto University)
Patient-derived chicken egg tumor model and tailor-made medicine
15:15 - 15:45: **Praveen Vemula** (inStem, India)
Microbial metabolite-mediated repair of gut barrier dysfunction
Special Lecture: 15:45 - 16:15: **Daniel Packwood** (iCeMS, Kyoto University)
Low-energy electron diffraction from organic monolayers: Time-domain simulations with non-self-consistent potentials

Session IV: Artificial Control of Cell Fate

16:30 - 17:00: **Jongpil Kim** (Dongguk University, South Korea)
Bioengineering approaches in cell reprogramming & gene editing for neurodegenerative disease therapy
17:00 - 17:30: **Motonori Uesugi** (iCeMS, Kyoto University)
Synthetic molecules that control energy metabolism

Session V: Neuroscience

09:00 - 09:30: **Dan Ohtan Wang** (iCeMS, Kyoto University)
Emerging Neuro-epitranscriptomics
09:30 - 10:00: **Mineko Kengaku** (iCeMS, Kyoto University)
Cytoskeletal control of neuronal migration in the developing brain
10:00 - 10:30: **Takahisa Furukawa** (Institute for Protein Research, Osaka University)
Molecular control of light-dark adaptation in the retina

Jan 29, Tuesday

Session VI: Cellular Dynamics and Signalling

10:45 - 11:15: **Ryoichiro Kageyama** (iCeMS, Kyoto University)
Mechanism of synchronized Hes7 oscillations in the somite segmentation clock
11:15 - 11:45: **Shravanti Rampalli Deshpande** (inStem, India)
Expanding roles of histone lysine methyltransferases beyond gene regulation in reprogramming & aging
11:45 - 12:15: **Arjun Guha** (inStem, India)
Regulation of mitotic arrest in stem/progenitor cells
KEYNOTE: Bio-Inspired Nanotechnology Approaches for Advanced Stem Cell Therapy
13:15 - 14:00: **KiBum Lee** (Rutgers University, USA)
KEYNOTE: MSCs and the Road to Translation
14:00 - 14:45: **Martin Stoddart** (AO Research Institute, Switzerland)

Session VII: Transcriptional Control of Stem Cells

Special Lecture: 14:45 - 15:05: **Angela Armiento** (AO Research Institute, Switzerland)
Tuning cell fate using synthetic transcriptional modulators
15:20 - 15:50: **Kouichi Hasegawa** (iCeMS, Kyoto University)
Chemical control of human pluripotent stem cell self-renewal
15:50 - 16:20: **Li Cai** (Rutgers University, USA)
Molecular and cellular mechanisms of neural regeneration
16:20 - 16:50: **Namasivayam Ganesh Pandian** (iCeMS, Kyoto University)
Biomimetic synthetic molecular codes for therapeutic gene modulation
16:50 - 17:00: **CLOSING REMARKS – MITSURU HASHIDA** (Administrative Director, iCeMS)

VENUE QR

