

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Regenerative Biology and Applications: Cell Differentiation, Tissue Organization and Biomedical Engineering (T3)

October 15-19, 2017 • University of Hong Kong • Pok Fu Lam, Hong Kong

Scientific Organizers: Paul K. Tam, Urban Lendahl and Freda D. Miller

Supported by the Directors' Fund

Abstract & Scholarship Deadline: / Abstract Deadline: / Discounted Registration Deadline:

SUNDAY, OCTOBER 15

Arrival and Registration

MONDAY, OCTOBER 16

Welcome and Keynote Address

Shinya Yamanaka[†], Center for iPS Cell Research and Application, Kyoto University, Gladstone Institutes, Japan
Reprogramming Stem Cells

Pluripotency and Differentiation of Stem Cells

Rickard Sandberg[†], Karolinska Institutet, Sweden
The Early Embryo at Single Cell Resolution

Speaker to be Announced

Huck-Hui Ng, Genome Institute of Singapore, Singapore
Systems Biology of Stem Cells

Short Talk(s) Chosen from Abstracts

Poster Session 1

Molecular Regulation of Stem Cells

Urban Lendahl, Karolinska Institute, Sweden
Notch Signaling and Stem Cell Regulation

Ana Martin-Villalba, DKFZ German Cancer Research Center, Germany
Stem Cell Driven Regeneration in the Adult Mammalian Brain

Michael Elowitz[†], California Institute of Technology, USA
Synthetic Genetic Circuits for Stem Cell Regulation

Short Talk Chosen from Abstracts

TUESDAY, OCTOBER 17

Tissue Organization (The Stem Cell Niche)

Speaker to be Announced

Michael A. Rudnicki, Ottawa Hospital Research Institute, Canada
Molecular Regulation of Muscle Stem Cell Function

Speaker to be Announced

Christopher S. Chen[†], Boston University, USA
Bioengineering Mechanobiological Niches for Stem Cell Differentiation

Short Talk(s) Chosen from Abstracts

Poster Session 2

Tissue Organization (Generating Tissue-Specific Cells)

Speaker to be Announced

Speaker to be Announced

Mahendra S. Rao[†], New York Stem Cell Foundation, USA
Generation of Clinical-Grade Pluripotent Stem Cells

Short Talk Chosen from Abstracts

WEDNESDAY, OCTOBER 18

Tissue Organization (Physiological and Pathophysiological Development of Organ Systems) I

Berthold Gottgens, Cambridge Institute for Medical Research, UK
Network Control of Normal and Leukemic Blood Stem Cells

Freda D. Miller, SickKids, Canada
Neural Stem Cells during Normal and Abnormal Mammalian Brain Development

Yukiko Gotoh[†], University of Tokyo, Japan
Epigenetic Control of Neural Precursor Cell Fate

Paul K. Tam, University of Hong Kong, Hong Kong
Neural Crest Stem Cells and Hirschsprung Disease

Short Talk(s) Chosen from Abstracts

Poster Session 3

Tissue Organization (Physiological and Pathophysiological Development of Organ Systems) II

Hongkui Deng, Peking University, China
Chemical Biology and Cell Differentiation

Joseph C. Wu, Stanford University School of Medicine, USA
Modeling Human Heart Degeneration

Valerie Horsley[†], Yale University, USA
Adipocyte Stem Cells

Short Talk Chosen from Abstracts

THURSDAY, OCTOBER 19

Keynote Address

Hans C. Clevers, Hubrecht Institute, Netherlands
Liver Organoids for Disease Modeling and Drug Discovery

Stem Cells for Biomedical Engineering

Lorenz Studer[†], Memorial Sloan Kettering Cancer Center, USA
Parkinson's Disease

Peter W. Zandstra[†], University of Toronto, Canada
Chemical Engineering of Microenvironment for Stem Cell Development

Molly Stevens[†], Imperial College London, UK
Biomaterials and Cell Differentiation

Short Talk(s) Chosen from Abstracts

Biomedical Engineering for Stem Cells

Luke P. Lee[†], University of California, Berkeley, USA
BioPOETS Bioinspired Photonics Optofluidics Electronics Technology and Science

Sangeeta N. Bhatia[†], Massachusetts Institute of Technology, USA
Multi-Scale Regenerative Technologies

Ali Khademhosseini[†], Massachusetts Institute of Technology, USA
Micro- and Nano-Scale Technologies for Engineered Organs

Meeting Wrap-Up: Outcomes and Future Directions (Organizers)

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FRIDAY, OCTOBER 20

Departure