

The 10th Nikko International Symposium 2013

Translational Epigenomics

Date: Thursday October 17, 2013

Venue: JMU Information and In-service Training Center

Opening Remarks

10:00~10:05

Ryozo Nagai

President, Jichi Medical University, Tochigi, Japan

Introduction

10:05~10:10

Keiya Ozawa

Director, Center for Molecular Medicine, Jichi Medical University, Tochigi, Japan

Recent research at JMU-CMM

Chairperson: Sadahiko Iwamoto

10:10~10:35

Toward the generation of sheep having human blood

Tomoyuki Abe and Yutaka Hanazono

Division of Regenerative Medicine, Center for Molecular Medicine

Jichi Medical University, Tochigi, Japan

10:35~11:00

Paxillin is an intrinsic negative regulator of platelet activation in mice

Asuka Sakata, Tsukasa Ohmori, Satoshi Nishimura, Hidenori Suzuki,

Seiji Madoiwa, Jun Mimuro, Kazuomi Kario, and Yoichi Sakata

Research Division of Cell and Molecular Medicine, Center for Molecular Medicine

Jichi Medical University, Tochigi, Japan

11:00~11:25

Toward the understanding of Na-pump disease

Kiyoshi Kawakami, Keiko Ikeda and Hiroki Sugimoto

Division of Biology, Center for Molecular Medicine

Jichi Medical University, Tochigi, Japan

Educational lecture

Chairperson: Masafumi Takahashi

11:25~11:55

Epigenetics – From bench to bedside

Yusuke Furukawa

Division of Stem Cell Regulation, Center for Molecular Medicine

Jichi Medical University, Tochigi, Japan



12:00~13:00

Lunch Time



Epigenetic regulation of normal and abnormal hematopoiesis

Chairperson: Satoshi Nishimura

13:00~13:25

The shortest isoform of histone demethylase LSD1 is implicated in leukemogenesis

Taeko Wada and Yusuke Furukawa

Division of Stem Cell Regulation, Center for Molecular Medicine
Jichi Medical University, Tochigi, Japan

13:25~13:55

Epigenetic regulation of hematopoietic stem cells

Atsushi Iwama

Department of Cellular and Molecular Medicine, Graduate School of Medicine,
Chiba University, Chiba, Japan

Molecular machineries for epigenomic regulation

Chairperson: Makoto Kuro-o

13:55~14:20

Chromatin regulator MRG15 is required for spermatogenesis in mice

Kaoru Tominaga

Division of Functional Biochemistry, Department of Biochemistry,
Jichi Medical University, Tochigi, Japan

14:20~14:50

Uhrf1-dependent ubiquitylation of histone H3 at lysine 23 couples maintenance DNA methylation and DNA replication

Makoto Nakanishi

Department of Cell Biology, Graduate School of Medical Sciences,
Nagoya City University, Nagoya, Japan



14:50~15:05

Coffee Break



Epigenetic origins of human cancers

Chairperson: Yutaka Hanazono

15:05~15:30

Chromosomal instability induced by demethylation alterations

Koichi Suzuki, Takaharu Kato, Hidenori Kamiyama, Yuta Muto, Masaaki Saito, Fumio Konishi and Toshiki Rikiyama

Department of Surgery, Saitama Medical Center,
Jichi Medical University, Saitama, Japan

15:30~16:00

Epigenetic field for cancerization, and its diagnostic and preventive applications

Toshikazu Ushijima

Division of Epigenomics, National Cancer Center Research Institute, Tokyo, Japan

16:00~16:40

ASXL1 mutations in the pathogenesis of myeloid malignancies

Omar Abdel-Wahab

Human Oncology and Pathogenesis Program and Leukemia Service, Dept. of Medicine,
Memorial Sloan-Kettering Cancer Center, New York, USA

Exploitation of versatile epigenome

Chairperson: Keiya Ozawa

16:40~17:05

Manipulating the genome of iPS cells with adeno-associated virus integration machinery

**Masashi Urabe, Satsuki Miyata, Tomonori Tsukahara, Hiroaki Mizukami,
Akihiro Kume, and Keiya Ozawa**

Division of Genetic Therapeutics, Center for Molecular Medicine
Jichi Medical University, Tochigi, Japan

17:05~17:45

Novel cancer therapies that target the epigenome

Ricky Johnstone

Cancer Therapeutics Program, Peter MacCallum Cancer Centre, East Melbourne, Australia

Closing Remarks

17:45~17:50

Kei-ichi Ichimura

Vice-President, Jichi Medical University, Tochigi, Japan



18:00~19:30 **Buffet-style dinner party**



Sponsored by Center for Molecular Medicine, Jichi Medical University

【Secretariat】

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