

# The 9<sup>th</sup> Nikko International Symposium 2012

## Understanding Complex Network Systems in Disease Biology

Date: Friday October 12, 2012

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

### Novel therapeutics

*Chairperson: Hiroaki Okamoto*

10:10~10:35

**Tumor targeting using chimeric antigen receptor technology for gene therapy of malignant lymphoma**

**Tomonori Tsukahara and Keiya Ozawa**

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

10:35~11:00

**Development of novel strategies for prevention of inhibitor formation in hemophilia**

**Seiji Madoiwa**

Research Division of Cell and Molecular Medicine, Center for Molecular Medicine  
Jichi Medical University, Tochigi, Japan

### Stem cell systems

*Chairperson: Kiyoshi Kawakami*

11:00~11:25

**Pluripotent stem cells: Naïve and primed**

**Yutaka Hanazono**

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

11:25~11:55

**The adipo-osteogenic progenitors function as niches for hematopoietic stem and progenitor cells in the marrow**

**Takashi Nagasawa**

Department of Immunobiology and Hematology, Institute for Frontier Medical Sciences  
Kyoto University, Kyoto, Japan



12:00~13:00

**Lunch Time**



***Chronic inflammation as a new research field of life science***

**Chairperson: Shin-ichi Momomura**

13:00~13:30

**Chronic inflammation in cardiovascular remodeling, metabolic disorders and cardiorenal syndrome**

**Ryozo Nagai**

President, Jichi Medical University, Tochigi, Japan

***Systemic regulation of metabolism***

**Chairperson: Shun Ishibashi**

13:30~13:55

**Ghrelin-insulin interplay mediates intra- and inter-organ network regulating glucose metabolism and feeding**

**Katsuya Dezaki and Toshihiko Yada**

Division of Integrative Physiology, Department of Physiology  
Jichi Medical University, Tochigi, Japan

13:55~14:25

**Neuronal information highways for systemic regulation of glucose and energy metabolism**

**Hideki Katagiri**

Department of Metabolic Diseases, Center for Metabolic Diseases  
Tohoku University Graduate School of Medicine, Miyagi, Japan

***Inflammatory pathways in chronic disorders***

**Chairperson: Toshiro Niki**

14:25~14:50

**The inflammasome and cardiovascular disease**

**Masafumi Takahashi**

Division of Bioimaging Sciences, Center for Molecular Medicine  
Jichi Medical University, Tochigi, Japan

14:50~15:30

**The NOD-like receptors attenuate colon inflammation and tumorigenesis**

**Thirumala-Devi Kanneganti**

Department of Immunology  
St. Jude Children's Research Hospital, Memphis, TN, USA



15:30~15:45

**Coffee Break**



**Cancer and therapeutic targets**

**Chairperson: Sadahiko Iwamoto**

15:45~16:10

**Multiple myeloma cells acquire anti-cancer drug resistance via interaction with bone marrow microenvironment**

**Yusuke Furukawa**

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

16:10~16:35

**Targeting essential growth drivers in human cancer**

**Hiroyuki Mano**

Division of Functional Genomics, Center for Molecular Medicine  
Jichi Medical University, Tochigi, Japan

**Chairperson: Toshihiko Yada**

16:35~17:05

**Role of Aggrus/podoplanin-induced platelet aggregation in tumor growth and metastasis formation**

**Naoya Fujita**

Division of Experimental Chemotherapy, Cancer Chemotherapy Center; Japanese Foundation for Cancer Research, Tokyo, Japan

17:05~17:45

**TGF- $\beta$  regulation of chemokine expression and metastasis: Therapeutic implications**

**Harold L. Moses**

Department of Cancer Biology, Vanderbilt University Medical Center, Nashville, TN, USA

**Closing Remarks**

17:45~17:50

**Kei-ichi Ichimura**

Vice-President, Jichi Medical University, Tochigi, Japan



18:00~19:30

**Buffet-style dinner party**



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**Sponsored by Center for Molecular Medicine, Jichi Medical University**

**【Secretariat】**

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