

## [032]九州大学生体防御医学研究所年報 : 2017年

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### Ⅲ 国際シンポジウム



# The 27<sup>th</sup> Hot Spring Harbor International Symposium 2017



# Frontiers in Stem Cell Research and Reprogramming

**October 31** 10:00 – 18:20 [Tue] Short-Talk Session for Young Scientists 14:45 – 16:35  
**November 1** 10:00 – 15:00 [Wed]

2F Collaborative Research Station-I, Hospital Campus, Kyushu University  
病院キャンパス コラボステーション I 2F 視聴覚ホール

## Invited Speakers

### Nick Barker

A\*STAR Institute of Medical Biology  
Singapore

### Han Li

Institut Pasteur  
France

### Yusuke Torisawa

Kyoto University  
Japan

### Katsuhiko Hayashi

Kyushu University  
Japan

### Seiji Okada

Kyushu University  
Japan

### Ludovic Vallier

University of Cambridge  
UK

### Masaki Ieda

Keio University  
Japan

### Atsushi Suzuki

Kyushu University  
Japan

### Marius Wernig

Stanford University School of Medicine  
USA

### Tomoya Kitajima

RIKEN CDB  
Japan

### Takanori Takebe

Yokohama City University  
Japan

### Tomoyuki Yamaguchi

University of Tokyo  
Japan

### Frédéric Lemaigre

Université catholique de Louvain  
Belgium

### Keiyo Takubo

National Center for Global  
Health and Medicine  
Japan

### Satoshi Yamazaki

University of Tokyo  
Japan

## Access

空 路：福岡空港 → (地下鉄空港線) → 「中洲川端駅」、貝塚方面へ乗換 → (地下鉄箱崎線) → 「馬出九大病院前駅」で下車  
J R：「JR 博多駅」 → (地下鉄空港線) → 「中洲川端駅」、貝塚方面へ乗換 → (地下鉄箱崎線) → 「馬出九大病院前駅」で下車  
「JR 博多駅」 → 「JR 吉塚駅」で下車  
西 鉄：西鉄福岡駅 → (地下鉄) → 馬出九大病院前駅で下車  
高速バス：天神バスセンター下車 → (地下鉄) → 「馬出九大病院前駅」で下車

## Contact

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九州大学病院建物配置図

<http://www.hosp.kyushu-u.ac.jp/info/haichizu/index.html>

## Program

<http://www.bioreg.kyushu-u.ac.jp/labo/orgreg/HSS2017.pdf>



主催：九州大学 生体防御医学研究所

共催：共同利用・共同研究拠点 多階層生体防御システム研究拠点  
共同利用・共同研究拠点 トランスオミクス医学研究拠点ネットワーク形成事業

The 27th Hot Spring Harbor International Symposium  
**Frontiers in Stem Cell Research and Reprogramming**  
Medical Institute of Bioregulation, Kyushu University

**October 31 - November 1, 2017**

Collaborative Research Station-I, Hospital Campus, Kyushu University, Fukuoka, JAPAN

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**Tuesday, October 31, 2017**

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10:00 - 10:05    Opening Remarks:  
                  **Yusaku Nakabeppu** (Director of Medical Institute of Bioregulation)

**Session 1:            Pluripotent stem cell and differentiation**

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Chair: **Hiroyuki Sasaki**

10:05-10:40    S-01 : **Ludovic Vallier** (University of Cambridge, UK)  
                  Modeling Metabolic disorders using human Pluripotent Stem Cells

10:40-11:05    S-02 : **Takanori Takebe** (Yokohama City University, Japan)  
                  Organoid Models of Human Liver Development towards Therapy

11:05-11:30    S-03 : **Katsuhiko Hayashi** (Kyushu University, Japan)  
                  Stem cell-based in vitro gametogenesis for a better understanding of oocyte differentiation

11:30-11:40    Group Photos

11:40-13:00    Lunch (meeting invited speakers only)

**Session 2:            Stem cell and development**

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Chair: **Yoshihiro Baba**

13:00-13:35    S-04 : **Frédéric Lemaigre** (Université catholique de Louvain, Belgium)  
                  Dynamics of gene regulatory networks in hepatocyte differentiation

13:35-14:00    S-05 : **Tomoya Kitajima** (RIKEN CDB, Japan)  
                  Roles of large cytoplasmic size of eggs

14:00-14:25    S-06 : **Satoshi Yamazaki** (University of Tokyo, Japan)  
                  Understanding of bone marrow environment and control of hematopoietic stem cells

14:25-14:45    Coffee break

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**Session 3: Short Talks by Young Scientists**

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Chair: **Hiroki Shibata**

- 14:45-16:35 Short talks of 11 minutes each (see p.3 for details)  
16:35-16:55 Coffee break

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**Session 4: Direct reprogramming**

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Chair: **Takeshi Bamba**

- 16:55-17:30 S-07 : **Marius Wernig** (Stanford University School of Medicine, USA)  
How to make a neuron
- 17:30-17:55 S-08 : **Masaki Ieda** (Keio University, Japan)  
Direct Cardiac Reprogramming, Cell Fate Decision, and Heart Regeneration
- 17:55-18:20 S-09 : **Atsushi Suzuki** (Kyushu University, Japan)  
Direct reprogramming to hepatic and intestinal lineages
- 19:30- **Dinner party** (by invitation only)

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**Wednesday, November 1, 2017**

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**Session 5: Stem cell and disease**

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Chair: **Keiichi Nakayama**

- 10:00-10:35 S-10 : **Nick Barker** (A\*STAR Institute of Medical Biology, Singapore)  
Lgr5+ Stem Cells in Epithelial Homeostasis, Regeneration and Cancer
- 10:35-11:00 S-11 : **Tomoyuki Yamaguchi** (University of Tokyo, Japan)  
Interspecies organogenesis generates autologous functional islets
- 11:00-11:25 S-12 : **Seiji Okada** (Kyushu University, Japan)  
Spinal cord regeneration and astrogliosis
- 11:25-13:30 Lunch (meeting invited speakers only)

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**Session 6: Stem cell aging and technology**

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Chair: **Yasuyuki Ohkawa**

- 13:30-14:05 S-13 : **Han Li** (Institut Pasteur, France)  
Cellular senescence promotes cellular plasticity in muscle reprogramming and regeneration
- 14:05-14:30 S-14 : **Keiyo Takubo** (National Center for Global Health and Medicine, Japan)  
Metabolic regulation and hematopoietic stem cell aging
- 14:30-14:55 S-15 : **Yusuke Torisawa** (Kyoto University, Japan)  
Cell-generated niches for organ-on-a-chip microdevices
- 14:55-15:00 Closing Remarks: **Atsushi Suzuki** (Kyushu University, Japan)

**Session 3: Short Talks by Young Scientists**

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Chair: **Hiroki Shibata**

Tuesday, October 31, 2017

14:45-16:45 Short talks of 11 minutes each

Y-01: **Kosuke Aoki** (Kyushu University, Japan)

Genetic analysis of rippling muscle disease (RMD) using Linkage-Assisted Exome Sequencing

Y-02: **Naoki Haruyama** (Kyushu University, Japan)

Accumulation of 8-oxoguanine in the nuclei of newly-generated GABAergic neurons in the nucleus accumbens and islands of Calleja contributes to locomotor hyperactivity in aged mice

Y-03: **Kentaro Hosokawa** (Kyushu University, Japan)

Foxp2 is essential for the quiescent state and self-renewal capacity of hematopoietic stem cells

Y-04: **Takashi Ishiuchi** (Kyushu University, Japan)

Epigenetic barrier screen identifies a regulator for extraembryonic development

Y-05: **Tetsuro Komatsu** (Kyushu University, Japan)

Novel histone H3.3 sub-variants are required for skeletal muscle regeneration

Y-06: **Naoto Kubota** (Kyushu University, Japan)

Identification of *DMRT3* gene enhancer involved in the pathogenesis of spastic cerebral palsy

Y-07: **Taito Matsuda** (Kyushu University, Japan)

Pioneer factor NeuroD1 rearranges transcriptional and epigenetic architecture in microglia to execute neuronal reprogramming

Y-08: **Akinobu Matsumoto** (Kyushu University, Japan)

Functional polypeptides encoded by putative long non-coding RNAs

Y-09: **Yuki Soma** (Kyushu University, Japan)

Reprogramming of Collective Microbial Cell Behavior

Y-10: **Junpei Yamamoto** (Kyushu University, Japan)

Hepatic maturation of iHep cells in cell aggregation culture



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Date: October 31 - November 1, 2017

Venue: Collaboration I, 2F Hall Kyushu University.