

## [037]九州大学生体防御医学研究所年報 : 2022年

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### Ⅲ 国際シンポジウム



The 31st Hot Spring Harbor International Symposium  
The kick-off meeting of the Medical Research Center  
Initiative for High Depth Omics



# Expanding views on Systems biology and Immunology

November 16 [Wed] - 17 [Thu] on line

10:00 - 18:00 9:30 - 17:40

## Invited Speakers

### Alexander Hoffmann

University of California, Los Angeles  
America

### Naoki Honda

Hiroshima University  
Japan

### Satoshi Sawai

University of Tokyo  
Japan

### Yuichi Wakamoto

University of Tokyo  
Japan

### Hiroyuki Kubota

Kyushu University  
Japan

### David James

The University of Sydney  
Australia

### Yusuke Ono

Kumamoto University  
Japan

### Tatsuya Takemoto

Tokushima University  
Japan

### Yuta Kochi

Tokyo Medical and Dental University  
Japan

### Yasuyuki Ohkawa

Kyushu University  
Japan

### Ken Ishii

University of Tokyo  
Japan

### Yoshimasa Takahashi

National Institute of Infectious Diseases  
Japan

### Laura Mackay

University of Melbourne  
Australia

### Yoshihiro Baba

Kyushu University  
Japan

### Hiroyoshi Nishikawa

National Cancer Center  
Japan

### Axel Kallies

University of Melbourne  
Australia

### Takashi Satoh

Tokyo Medical and Dental University  
Japan

### Ichiro Manabe

Chiba University  
Japan

### Florent Ginhoux

Singapore Immunology Network  
Singapore

## お問い合わせ/Inquiry

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## ご登録/Registration (↓クリック/Click)

<https://reg26.smp.ne.jp/regist/is?SMPFORM=qam-pdsdn-5ff2c839515d87f416e6368fd478a2c1>

主催:九州大学生体防御医学研究所

共催:共同利用・共同拠点 高深度オミクス医学研究拠点整備事業

The 31th Hot Spring Harbor International Symposium  
**Expanding views on Systems biology and Immunology**  
Medical Institute of Bioregulation, Kyushu University

**November 16 - November 17, 2022 on line**  
(10:00 – 18:00) (9:30 – 17:40)

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**Wednesday, November 16, 2022**

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10:00 - 10:05 Opening Remarks:  
**Yoshinori Fukui** (Director of Medical Institute of Bioregulation)

**Session 1: Mathematical analysis**

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Chair: **Mikita Suyama**

10:05-10:40 S-01 : **Alexander Hoffmann**  
(University of California, Los Angeles, America)  
Epigenetic remodeling by dynamic NF $\kappa$ B

10:40-11:05 S-02 : **Naoki Honda** (Hiroshima University, Japan)  
Multi-modal Data Integration for Predicting Spatial Transcriptome

11:05-11:30 S-03 : **Satoshi Sawai** (University of Tokyo, Japan)  
Feature extraction and testing of migrating cell morphology based on  
'idea-cell model'

11:30-11:45 Meet the speaker

11:45-12:50 Lunch Break

**Session 2: Multi-omics analysis**

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Chair: **Takeshi Bamba**

12:50-13:15 S-04 : **Yuichi Wakamoto** (University of Tokyo, Japan)  
Stoichiometry Conservation Global Constraints  
in Cells Enable Raman-Spectroscopic Omics Profiling

13:15-13:40 S-05 : **Hiroyuki Kubota** (Kyushu University, Japan)  
Trans-omic analysis revealed time-dependent regulation of obesity  
progression across multiple omic layer

13:40-14:15 S-06 : **David James** (The university of Sydney, Australia)  
Tracking Insulin Resistance using Integrated Multi-Omics

14:15-14:30 Meet the speaker

14:30-14:45 Break

14:45-15:50 short talk 5 people Chair: Hiroki Shibata

15:50-16:05 Break

**Session 3: High depth omics analysis**

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Chair: **Daisuke Kohda**

16:05-16:30 S-07 : **Yusuke Ono** (Kumamoto University, Japan)  
Dll4-Notch2 axis: an emerging therapeutic target for muscle wasting diseases

16:30-16:55 S-08 : **Tatsuya Takemoto** (Tokushima University, Japan)  
The nephric mesenchyme lineage of intermediate mesoderm is derived from Tbx6-expressing derivatives of neuro-mesodermal progenitors via BMP-dependent Osr1 function

16:55-17:20 S-09 : **Yuta Kochi** (Tokyo Medical and Dental University, Japan)  
Dissecting pathomechanisms of complex diseases through transcript isoform diversity

17:20-17:45 S-10 : **Yasuyuki Ohkawa**(Kyushu University, Japan)  
Spatial multi-omics for understanding gene expression regulated by cell-cell interaction

17:45-18:00 Meet the speaker

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**Thursday, November 17, 2022**

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**Session 4: Immune Responses in Health and Disease**

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Chair: **Yoshinori Fukui**

- 9:30- 9:55 S-11 : **Ken Ishii** (University of Tokyo, Japan)  
Immuno-prophylaxis by innate and adaptive memory against infection and cancer
- 9:55-10:20 S-12 : **Yoshimasa Takahashi** (National Institute of Infectious Diseases, Japan)  
Profiling of humoral immunity against SARS-CoV-2 and its variants.
- 10:20-10:55 S-13 : **Laura K. Mackay** (University of Melbourne, Australia)  
Inter-organ diversity of tissue-resident lymphocytes
- 10:55-11:10 Meet the speaker
- 11:10-11:25 Break
- 11:25-12:04 short talk 3 people Chair: Minako Ito
- 12:04-13:05 Lunch Break

**Session 5: Lymphocyte Activation and Immune Regulation**

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Chair: **Shinichiro Sawa**

- 13:05-13:30 S-14 : **Yoshihiro Baba** (Kyushu University, Japan)  
B cell dysfunction in self-tolerance and autoimmune disease
- 13:30-13:55 S-15 : **Hiroyoshi Nishikawa** (National Cancer Center, Japan)  
Immune-genome precision medicine targeting regulatory (Treg) T cells
- 13:55-14:30 S-16 : **Axel Kallies** (University of Melbourne, Australia)  
Molecular regulation of exhausted T cell differentiation and function
- 14:30-14:45 Meet the speaker
- 14:45-15:00 Break
- 15:00-15:40 short talk 3 people Chair: Takayuki Nojima
- 15:40-15:55 Break

**Session 6:      **Function and Ontogeny of Innate Immune Cells****

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Chair: **Atsushi Suzuki**

- 15:55-16:20      S-17 : **Takashi Satoh** (Tokyo Medical and Dental University, Japan)  
Towards understanding the mechanism of fibrosis onset
- 16:20-16:45      S-18 : **Ichiro Manabe** (Chiba University, Japan)  
Macrophages in cardiac homeostasis and organ crosstalk
- 16:45-17:20      S-19 : **Florent Ginhoux** (Singapore Immunology Network, Singapore)  
Understanding Macrophage Heterogeneity at the Single Cell Level
- 17:20-17:35      Meet the speaker
- 17:35-17:40      Closing Remarks



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Date: November 16 - 17, 2022

Venue: on line (Zoom)