Ⅲ　国際シンポジウム

The 26th Hot Spring Harbor International Symposium

Trans-omics: New Approaches in Biology and Medicine 2016

November 2nd and 3rd, 2016

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）

主催：九州大学生体防御医学研究所
共催：トランスオミクス医学研究拠点ネットワーク形成事業（文部科学省）

Invited Speakers

Uwe Sauer (ETH Zurich, Switzerland)
Timothy J. Stasevich (Colorado State University, USA)
Marie Evangelista (Genentech, USA)
Yong Hou (Beijing Genomics Institute, China)
Naoki Irie (University of Tokyo)
Tatsuhiko Tsunoda (Tokyo Medical and Dental University)
Mariko Okada (RIKEN)
Jun Koseki (Osaka University)
Hisao Moriya (Okayama University)
Yoshiyuki Minegishi (Tokushima University)
Akira Nakamura (Kumamoto University)
Yasuyuki Ohkawa (Kyushu University)
Hiroyuki Kubota (Kyushu University)
Keiichi Nakayama (Kyushu University)
Hiroyuki Sasaki (Kyushu University)

Sessions

Nov. 2 (Wed) 10:00-18:00
- Signaling Networks
- Transcription, Translation and Robustness
- Short-talks by young scientists
- Development and Differentiation

Nov. 3 (Thu) 10:00-15:00
- Disease I
- Disease II

Program

プログラムはこちらをご覧ください。
http://www.bioreg.kyushu-u.ac.jp/labo/epigenome/HSS2016/

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
JR：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
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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The 26th Hot Spring Harbor International Symposium

−Trans-Omics: New Approaches in Biology and Medicine−

Medical Institute of Bioregulation, Kyushu University

November 2-3, 2016

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

Wednesday, November 2, 2016

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

Session 1: Signaling Networks Chair: **Takeshi Bamba**

10:05-10:30 S-01: **Mariko Okada** (Osaka University, Japan)

Multiple-scale cooperativity in signal-transcription network for cellular commitment

10:30-10:55 S-02: **Hiroyuki Kubota** (Kyushu University, Japan)

Trans-omic analysis of insulin action-toward in vivo trans-omic analysis-

10:55-11:30 S-03: **Uwe Sauer** (ETH Zurich, Switzerland)

Coordination of metabolism through metabolite-protein interactions

11:30-11:40 Group Photos

11:40-13:00 Lunch (Transomics meeting by invitation only)

Session 2: Transcription, Translation and Robustness Chair: **Mikita Suyama**

13:00-13:25 S-04: **Hisao Moriya** (Okayama University, Japan)

Consequences of protein overexpression

13:25-13:50 S-05: **Yasuyuki Ohkawa** (Kyushu University, Japan)

The baseline of transcription level is determined by selective incorporation of histone H3 variants

13:50-14:25 S-06: **Timothy J. Stasevich** (Colorado State University, USA)

Real-time imaging of single mRNA translation dynamics in living cells

14:25-14:45 Coffee break

Session 3: Short Talks by Young Scientists Chair: **Tohru Ishitani**

14:45-16:45 Short talks of 12 minutes each (see p.4 for details)

16:45-17:05 Coffee break

Session 4: Development and Differentiation Chair: **Atsushi Suzuki**

17:05-17:30 S-07: **Hiroyuki Sasaki** (Kyushu University, Japan)

Multiple functions of the epigenetic regulator UHRF1 in mouse oocytes revealed by trans-omics approaches

17:30-17:55 S-08: **Akira Nakamura** (Kumamoto University, Japan)

Search for new factors that direct germ cell formation in the Drosophila embryo

17:55-18:20 S-9: **Naoki Irie** (University of Tokyo, Japan)

Why are vertebrates' organogenesis stages evolutionarily conservative?

19:00- Dinner party (by invitation only)

Thursday, November 3, 2016

Session 5: **Disease_I** Chair: **Hiroki Shibata**

10:30-10:55 S-10: **Tatsuhiko Tsunoda** (Tokyo Medical and Dental University, Japan)

Trans-omic analysis strategy for precision medicine

10:55-11:20 S-11: **Yoshiyuki Minegishi** (Tokushima University, Japan)

Identification of the molecular pathogenesis of hyper-IgE syndrome

11:20-11:55 S-12: **Yong Hou** (Beijing Genomics Institute, China)

Efforts to push single cell trans-omics for cancer research

11:55-13:30 Lunch

Session 6: **Disease_I I** Chair: **Yoshihiro Yamanishi**

13:30-13:55 S-13: **Keiichi Nakayama** (Kyushu University, Japan)

Next-generation proteomics unveils a global landscape of cancer metabolism

13:55-14:20 S-14: **Jun Koseki** (Osaka University, Japan)

Trans-omics analysis shows novel functional change in the ornithine metabolic pathway between cancer stem cells and non-cancer stem cells

14:20-14:55 S-15: **Marie Evangelista** (Genentech, USA)

Lessons from targeting metabolic dependencies in PDAC

14:55-15:00 Closing Remarks: **Hiroyuki Sasaki** (Kyushu University, Japan)

Session3: Short-Talk Session for Young Scientists

Chair: **Tohru Ishitani**

Wednesday, November, 2 2016

14:45-16:45 Short talks of 12 minutes each

Y-01: **Shinjiro Hino** (Kumamoto University, Japan)

Regulation of cellular metabolism by histone demethylase LSD1

Y-02: **Kou Motani** (Tokushima University, Japan)

Identification of STING-dependent secreted proteins using quantitative proteomic analysis

Y-03: **Kenji Shimazu** (Tokushima University, Japan)

Characterization of target genes for inhibitory co-receptor PD-1 by CAGE

Y-04: **Yuki Kawasaki** (Tokyo Medical and Dental University, Japan)

Development of the novel method “EnIGMA” for simultaneous identification of methylcytosine and hydroxymethylcytosine

Y-05: **Yuki Akieda** (Kyushu University, Japan)

Apoptosis-mediated elimination of "Wnt/β-catenin signaling noise" supports precise embryonic patterning

Y-06: **Yuta Katayama** (Kyushu University, Japan)

CHD8 haploinsufficiency results in autistic-like phenotypes in mice

Y-07: **Ryusuke Sawada** (Kyushu University, Japan)

Transomics-based drug repositioning for a wide range of diseases

Y-08: **Kai Inui** (Kyushu University, Japan)

Analysis of nonsense-mediated mRNA decay (NMD) using genomic and transcriptomic data

Y-09: **Yuuta Imoto** (Kyushu University, Japan)

Post-genomic analysis of supramolecular nanomachinery for membrane-bounded organelle division

Y-10: **Yuki Sohma** (Kyushu University, Japan)

Metabolomics on designed metabolic dynamics by synthetic genetic circuits

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Date: November 2-3, 2016

Venue: Collabostation I, 2F Hall Kyushu University.