# TUESDAY, SEPTEMBER 15, 2015

- 15:00-17:00 Registration
- 17:10–17:20 Opening Remarks: Minoru YOSHIDA
- 17:20–18:20 Plenary Lecture 1 Chair: Minoru YOSHIDA Establishment & maintenance of mammalian heterochromatin ......24 Thomas JENUWEIN (Department of Epigenetics, Max Planck Institute of Immunchiology and Epigenetics)

(Department of Epigenetics, Max Planck Institute of Immunobiology and Epigenetics, Germany)

18:20–19:20 Plenary Lecture 2 Chair: Minoru YOSHIDA

 The Cancer Epigenome
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 Peter A. JONES
 (Van Andel Research Institute, USA)

19:30–21:00 Welcome Reception

# WEDNESDAY, SEPTEMBER 16, 2015

9:00-12:15 Session A

#### **Basic Mechanisms**

Chairs: Robert A. MARTIENSSEN Yota MURAKAMI

9:00-9:30 [A-1]

A jmjC-domain containing putative histone demethylase, Epe1 protects epigenome against aberrant heterochromatin formation in euchromatin Yota MURAKAMI (Faculty of Science, Hokkaido University, Japan)

9:30-10:00 [A-2]

10:00-10:30 [A-3]

PIWI-interacting RNA: its biogenesis and function in Drosophila ···32

(Graduate School of Science, The University of Tokyo, Japan)

10:30-11:00 Coffee Break

11:00–11:30 [A-4] RNAi promotes heterochromatic silencing through replication- coupled release of RNA polymerase II ··································
11:30–12:00 [A-5] From Histone Code to Higher Order Chromatin Structure on Inactive X Chromosome Chikashi OBUSE (Graduate School of Life Science, Hokkaido University, Japan)
12:00–12:15 [A-6 (PS No. 7)] Piwi-piRNA promotes epigenetic silencing by regulating association of linker histone H1 with target transposon loci

(Keio University School of Medicine, Japan)

### 12:15-14:00 Lunch

#### 14:00-17:45 Session B

#### **Development and Reprogramming**

Chairs: Yi ZHANG Hiroyuki SASAKI

#### 14:00-14:30 [B-1]

Genomic imprinting, DNA methylation and small RNA in mouse germ cells Hiroyuki SASAKI

(Medical Institute of Bioregulation, Kyushu University, Japan)

#### 14:30-15:00 [B-2]

Mechanism and reconstitution in vitro of mammalian germ cell development ······40 Mitinori SAITOU

(Graduate School of Medicine, Kyoto University/JST, ERATO, Japan)

#### 15:00-15:30 [B-3]

Identifying and overcoming an epigenetic barrier of somatic cell nuclear transfer (SCNT)-mediated reprogramming ......42 Yi ZHANG

(Harvard Medical School and Boston Children's Hospital, USA)

# 15:30-16:00 Coffee Break

### 16:00-16:30 [B-4]

Dissecting the cancer epigenome with iPS cell technology ......44 Yasuhiro YAMADA (Center for iPS Cell Research and Application (CiRA), Kyoto University, Japan)

#### 16:30-17:00 [B-5]

# N-alpha-acetyltransferase 10 protein regulates embryonic development and genomic imprinting ......46 Li-Jung JUAN

(Genomics Research Center, Academia Sinica, Taiwan)

17:00–17:15 [B-6 (PS No. 5)] Histone H3R17me2a Mark Recruits Tet3 to Initiate Active DNA Demethylation in Zygotes Yuki HATANAKA (RIKEN BioResource Center, Japan)

- 17:15–17:45 Flash Talk (Poster Numbers: 1, 3, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59)
- 17:45-19:30 Dinner
- 19:30–21:30 Poster Session [I]: Odd Numbers

# THURSDAY, SEPTEMBER 17, 2015

9:00–12:30	Session C Environment, Nutrition and Stress Chairs: Eric VERDIN Yoichi SHINKAI			
	9:00–9:30	[C-1]         Epigenetics and metabolic regulation         Eric VERDIN         (Gladstone Institutes, University of California, San Francisco, USA)		
	9:30–10:00	[C-2]         Epigenome changes induced by environmental factors and their in- heritance         Shunsuke ISHII         (Laboratory of Molecular Genetics, RIKEN, Japan)		
	10:00–10:30	[C-3] Selection and function of macrophage enhancers		
	10:30–11:00	Coffee Break		
	11:00–11:30 11:30–12:00	DNA methylation-dependent hepatic lipid metabolismin early life54Yoshihiro OGAWA(Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University, Japan)		

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 A crucial role for Kullisa/Jinju a/Jinju a/Jinj

# 12:30-14:00 Lunch

# 14:00-18:00 Session D

### Diseases

Chairs: Jean-Pierre ISSA Toshikazu USHIJIMA

#### 14:00-14:30 [D-1]

(Division of Epigenomics, National Cancer Center Research Institute, Japan)

# 14:30-15:00 [D-2]

(Harvard School of Public Health and Dana-Farber Cancer Institute, USA)

# 15:00-15:30 [D-3]

Interaction between Microenvironment and Epigenome in Gliomagenesis 62 Yutaka KONDO

(Nagoya City University Graduate School of Medical Sciences, Japan)

### 15:30-16:00 Coffee Break

#### 16:00-16:30 [D-4]

(Graduate School of Medical Sciences, Kyushu University, Japan)

### 16:30-17:00 [D-5]

(Institute of Molecular Embryology and Genetics, Kumamoto University, Japan) 17:00-17:30 [D-6]

30 [D-0]				
	Epigenetic drift			
	Jean-Pierre ISSA			
	(Fels Institute for C	Cancer Research and Molecular Biology,		
	Temple University	(, USA)		

- 17:30–18:00 Flash Talk (Poster Numbers: 2, 4, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60)
- 18:00-19:30 Dinner
- 19:30–21:30 Poster Session [II]: Even Numbers

# FRIDAY, SEPTEMBER 18, 2015

9:00–12:00	Session E Chemical Epigenetics Chairs: Cheryl H. ARROWSMITH Minoru YOSHIDA		
	9:00–9:30	[E-1] A novel functional role of histone deacetylases in protein acylation and metabolisms Minoru YOSHIDA (Chemical Genetics Laboratory, RIKEN, Japan)	
	9:30–10:00	[E-2] CoREST in Peace: Dual Action Inhibitors of Histone Deacetylase and Demethylase Philip A. COLE (The Johns Hopkins University School of Medicine, USA)	
	10:00–10:30	D [E-3] Chemical Control of Epigenetics ~ Discovery of lysine demethy- lase inhibitors ~	
	10:30–11:00	) Coffee Break	
	11:00–11:30	) [E-4] Organic chemistry for epigenetic studies	

11:30-12:00 [E-5]

 Open Access Chemical Probes of Chromatin Regulators
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 Cheryl H. ARROWSMITH
 (Structural Genomics Consortium, University of Toronto, Canada)

# 12:00–12:15 Announcement of Grant Recipients

12:15–12:20 Closing Remarks: Hiroyuki SASAKI

12:20-13:20 Lunch