

The 1st Day : Friday, May 26

B2F HALL	
8:00	
9:00	
10:00	<div style="border: 1px solid black; border-radius: 15px; padding: 10px; width: fit-content; margin: 0 auto;"> <p>9:30~11:30 3F 中教室</p> <p>幹細胞若手の会 (つくしの会)</p> </div>
11:00	
12:00	
13:00	<p>13:00~13:10 Opening Remarks</p> <p>13:10~14:15 Session 1 ▶P.3 Tissue Stem Cells (I) O-1~O-3 Chair : Fumio Arai</p>
14:00	<p>14:15~14:30 Coffee Break</p> <p>14:30~15:50 Session 2 ▶P.3 Reprogramming and Pluripotent Stem Cells O-4~O-7 Chair : Hitoshi Niwa Takumi Era</p>
15:00	
16:00	<p>15:50~16:05 Coffee Break</p> <p>16:05~17:35 Special Lecture ▶P.4 S-1 Takashi Shinohara S-2 Emi K. Nishimura S-3 Yasuyuki Fujita Chair : Atsushi Iwama</p>
17:00	
18:00	<p>17:35~17:50 General Meeting</p> <p>18:00~ Reception</p>
19:00	
20:00	

The 2nd Day : Saturday, May 27

B2F HALL	
8:00	
9:00	
10:00	<p>9:30~10:40 Session 3 ▶P.5 Pluripotent Stem Cells and Patient-derived iPSC O-8~O-11 Chair : Koji Eto</p>
11:00	<p>10:40~10:55 Coffee Break</p> <p>10:55~12:30 Session 4 ▶P.5 Cancer Stem Cells O-12~O-16 Chair : Issay Kitabayashi Noriko Gotoh</p>
12:00	
13:00	<p>12:30~14:00 Lunch Time / Poster Session</p>
14:00	<p>14:00~16:05 Session 5 ▶P.6 Tissue Stem Cells (II) O-17~O-22 Chair : Atsushi Hirao Kunimasa Ohta</p>
15:00	
16:00	<p>16:05~ Closing Remarks</p>
17:00	
18:00	
19:00	
20:00	

Friday, May 26. The 1st Day**Opening Remarks Organizer Atsushi Iwama 13:00~13:10**

(Department of Cellular and Molecular Medicine, Graduate School of Medicine, Chiba University)

Session 1: Tissue Stem Cells (I) 13:10~14:15**Chair Fumio Arai**

(Department of Stem Cell Biology and Medicine, Graduate School of Medical Sciences, Kyushu University)

O-1 Valine starving permits hematopoietic stem cell transplantation without chemoirradiative myeloablation

Satoshi Yamazaki

(Project Division of Advanced Regenerative Medicine, The Institute of Medical Science, the University of Tokyo)

O-2 Chromatin accessibility identifies CTCF as a gatekeeper of stemness functions in human hematopoietic development

Naoya Takayama^{1,2,6}, Alex Murison^{1,6}, Shin-ichiro Takayanagi¹, Sasan Zandi¹, Nadia Penrod¹, Amanda Mitchell¹, James Kennedy¹, Stanley Ng¹, Stephanie Xie¹, Mark Minden³, John E. Dick¹, and Mathieu Lupien^{1,4,5}

(¹Department of Molecular Genetics, Princess Margaret Cancer Centre, University Health Network, Toronto, ²Department of Innovation Therapy, Chiba University Graduate School of Medicine, Chiba, ³Department of Medicine, University of Toronto, ⁴Department of Medical Biophysics, University of Toronto, ⁵Ontario Institute for Cancer Research, Toronto, ⁶Authors equally contributed to this work)

O-3 27-hydroxycholesterol induces hematopoietic stem cell mobilization and extramedullary hematopoiesis during pregnancy

Hideyuki Oguro¹, Sean Morrison²

(¹Cellular Engineering, The Jackson Laboratory for Genomic Medicine, ²Children's Research Institute, Howard Hughes Medical Institute, University of Texas Southwestern Medical Center)

Coffee Break 14:15~14:30**Session 2: Reprogramming and Pluripotent Stem Cells 14:30~15:50****Chair Hitoshi Niwa**

(Institute of Molecular Embryology and Genetics, Kumamoto University)

Takumi Era

(Department of Cell Modulation, Institute of Molecular Embryology and Genetics, Kumamoto University)

O-4 In vitro reprogramming of mature hepatocytes to culturable liver progenitor cells using small molecules

Takeshi Katsuda, Masaki Kawamata, Keitaro Hagiwara,

Ryou-u Takahashi, Yusuke Yamamoto, Kazunori Hosaka, Takahiro Ochiya (National Cancer Center Research Institute)

O-5 Srf destabilizes cellular identity by suppressing cell-type-specific gene expression programs

Shinji Masui, Takashi Ikeda, Akitsu Hotta
(Department of Life Science Frontiers, CiRA, Kyoto University)

O-6 Generation of adult-like cardiomyocytes from pluripotent stem cells *in vivo*

Hideki Uosaki¹, Nawin Chanthra¹, Yasumitsu Nagao¹, Gunsik Cho²,
Chulan Kwon², Yutaka Hanazono¹
(¹Jichi Medical University, ²Johns Hopkins University)

O-7 Creation of eggs in a dish as a model and a resource

Katsuhiko Hayashi
(Department of Stem Cell Biology and Medicine, Graduate School of Medical Sciences, Kyushu University)

Coffee Break

15:50~16:05

Special Lecture

16:05~17:35

Chair Atsushi Iwama

(Department of Cellular and Molecular Medicine, Graduate School of Medicine, Chiba University)

S-1 Myc/Mycn-mediated glycolysis enhances mouse spermatogonial stem cell self-renewal

Takashi Shinohara
(Kyoto University)

S-2 Stem cells orchestrates hair follicle aging program

Emi K. Nishimura
(Dept. Stem Cell Biology, Medical Research Institute, Tokyo Medical and Dental University)

S-3 Cell competition between normal and transformed epithelial cells

Yasuyuki Fujita
(Hokkaido University, Institute for Genetic Medicine, Division of Molecular Oncology)

General Meeting

17:35~17:50

Chief Director Koichi Akashi

(Department of Medicine and Biosystemic Science, Faculty of Medicine, Kyushu University)

Reception

18:00~

Saturday, May 27. The 2nd Day

Session 3: Pluripotent Stem Cells and Patient-derived iPSC

9:30~10:40

Chair Koji Eto

(Department of Clinical Application, Center for iPS Cell Research and Application, Kyoto University)

O-8 Regulating the mesoderm patterning generates kidney organoids from human pluripotent stem cells

Minoru Takasato
(RIKEN CDB)

O-9 LNGFR(+)THY-1(+) multipotent stem cells derived from human induced pluripotent stem cells

Takehito Ouchi^{1,2}, Shinsuke Shibata², Hiroo Kimura³, Masaya Nakamura³, Taneaki Nakagawa¹, Hideyuki Okano²
(¹Department of Dentistry and Oral Surgery, Keio University School of Medicine, ²Department of Physiology, Keio University School of Medicine, ³Department of Orthopedic Surgery, Keio University School of Medicine)

O-10 Target specific drug screening using patient-derived induced pluripotent stem cell for methylmaronic acidemia

Shirou Matsumoto¹, Tadahiro Numakawa², Fumio Endo³, Takumi Era²
(¹Department of Pediatrics, Perinatal Medical Center, Kumamoto University Hospital, ²Department of Cell Modulation, Division of Stem Cell Research, Institute of Molecular Embryology and Genetics, Kumamoto University, ³Department of Pediatrics, Developmental and Reconstructive Medical Sciences, Division of Advanced Biomedical Sciences, Faculty of Life Sciences Kumamoto University)

O-11 Patient-derived induced pluripotent stem cells identify ADAM8 (CD156) as a novel antigen of TKI-resistant chronic myeloid leukemia cells

Masashi Miyauchi, Junji Koya, Shunya Arai, Sho Yamazaki, Akira Honda, Keisuke Kataoka, Akihide Yoshimi, Kazuki Taoka, Keiki Kumano, Mineo Kurokawa
(Department of Hematology and Oncology, Graduate School of Medicine, The University of Tokyo)

Coffee Break

10:40~10:55

Session 4: Cancer Stem Cells

10:55~12:30

Chair Issay Kitabayashi

(Division of Hematological Malignancy, National Cancer Center Research Institute)

Noriko Gotoh

(Division of Cancer Cell Biology, Cancer Research Institute, Kanazawa University)

O-12 Therapeutic targeting of amino acid transport system xc(-) in CD44v-expressing stem-like cancer cells

Osamu Nagano
(Division of Gene Regulation, Institute for Advanced Medical Research (IAMR), School of Medicine, Keio University)

O-13 Maintenance of stemness and niche environment of breast cancer cells by FRS2beta, a feedback inhibitor for HER2-ERK pathway, during mammary tumorigenesis

Natsuko Kimura¹, Yukino Machida², Keiichiro Tada³, Jun-ichiro Inoue⁴,
Issay Kitabayashi², Arinobu Tojo¹, Noriko Gotoh⁵

¹Division of Molecular Therapy, Institute of Medical Science, University of Tokyo,

²Division of Hematological Malignancy, National Cancer Center Research Institute,

³Department of Breast and Endocrine Surgery, The University of Tokyo Hospital,

⁴Division of Cellular Molecular and Biology, Institute of Medical Science,

University of Tokyo, ⁵Division of Cancer Cell Biology, Cancer Research Institute,

Kanazawa University)

O-14 Coordinated action of miRNAs for the regulation of normal and colon cancer stem cells

Yohei Shimono¹, Shigeo Hisamori², Piero Dalerba³, Junko Mukohyama¹,
Taichi Isobe⁴, Hironobu Minami⁵, Akira Suzuki¹

¹Division of Molecular and Cellular Biology, Kobe University Graduate School of

Medicine, ²Department of Surgery, Kyoto University Hospital, ³Department of

Pathology and Cell Biology, Columbia University, ⁴Institute for Stem Cell Biology

and Regenerative Medicine, Stanford University, ⁵Division of Oncology/

Hematology, Kobe University Graduate School of Medicine)

O-15 Transcriptional machinery that maintains cancer stem cell potential in MLL-rearranged leukemia

Akihiko Yokoyama¹, Hiroshi Okuda¹, Satoshi Takahashi²

¹National Cancer Center, ²Kyoto University)

O-16 Plasticity and stemness in gastrointestinal tumorigenesis

Hiroshi Seno, Takahisa Maruno, Norihiro Goto, Akihisa Fukuda

(Kyoto University, Department of Gastroenterology and Hepatology)

Lunch Time / Poster Session

12:30~14:00

Session 5: Tissue Stem Cells (II)

14:00~16:05

Chair Atsushi Hirao

(Division of Molecular Genetics, Cancer Research Institute, Kanazawa University)

Kunimasa Ohta

(Department of Developmental Neurobiology, Kumamoto University Graduate School of Life Sciences)

O-17 Tsukushi dysfunction leads to hydrocephalus by altering neurogenesis in the subventricular zone

Kunimasa Ohta, Adil Shah, Anam Mohammad, Naofumi Ito

(Kumamoto University)

O-18 MT-nanotube mediated niche-stem cell signal specification

Mayu Inaba

(University of Connecticut, Department of Cell Biology)

O-19 G₀ phase analysis of hematopoietic stem cell in mVenus-p27K^o mice

Tsuyoshi Fukushima¹, Yosuke Tanaka¹, Toshihiko Oki², Toshio Kitamura¹

¹Division of cell therapy, Institute of medical science, Tokyo University,

²Department of Stem Cell and Regenerative Biology, Harvard University,

Cambridge)

O-20 Role of the polycomb-group protein Pcgfl in the lineage commitment of hematopoietic stem and progenitor cells

Yaeko Nakajima-Takagi¹, Motohiko Oshima¹, Yusuke Isshiki¹,
Tomokatsu Ikawa², Junichiro Takano², Sha Si¹, Kazumasa Aoyama¹,
Atsunori Saraya¹, Haruhiko Koseki³, Atsushi Iwama¹

(¹Department of Cellular and Molecular Medicine, Graduate School of Medicine, Chiba University, ²YCI Laboratory for Immune Regeneration, RIKEN Research Center for Integrative Medical Science, ³Laboratory for Developmental Genetics, RIKEN Research Center for Integrative Medical Science)

O-21 Defining the stem cell lineages in the mouse inter-follicular epidermis

Aiko Sada¹, Fadi Jacob², Eva Leung², Sherry Wang², Brian White³,
David Shalloway², Tudorita Tumbar²

(¹University of Tsukuba, Life Science Center, Tsukuba Advanced Research Alliance, Hiromi Yanagisawa Laboratory, ²Department of Molecular Biology and Genetics, Cornell University, USA, ³McDonnell Genome Institute, Washington University, USA)

O-22 Orchestration of stem and progenitor cells drives abdominal skin expansion during pregnancy

Fumiko Toyoshima

(Institute for Frontier Life and Medical Science, Kyoto Univ.)

Closing Remarks

16:05~

Next Organizer Fumio Arai

(Department of Stem Cell Biology and Medicine, Graduate School of Medical Sciences, Kyushu University)

Poster Session

- P-1 Endothelial cell-selective adhesion molecule (ESAM) is required for the ontogeny of definitive hematopoietic system in mice**
Tomoaki Ueda¹, Takafumi Yokota¹, Yasuhiro Shingai¹, Yukiko Doi¹, Tomohiko Ishibashi^{1,2}, Takao Sudo^{1,3}, Yasuhiro Nagate¹, Akira Tanimura¹, Masahiro Tokunaga¹, Jiro Fujita¹, Michiko Ichii¹, Sachiko Ezoe¹, Hirohiko Shibayama¹, Kenji Oritani¹, Yuzuru Kanakura¹
(¹Department of Hematology and Oncology, Osaka University Graduate School of Medicine, ²Department of Vascular Physiology, Research Institute National Cerebral and Cardiovascular Center, ³Department of Immunology and Cell Biology, Osaka University Graduate School of Medicine)
- P-2 Hemidesmosomal component-mediated stem cell polarity and the cell division axis determine hair follicle stem cell fate during aging**
Hiroyuki Matsumura¹, Nan Liu¹, Aki Takada¹, Daisuke Nanba¹, Shizuko Ichinose², Makoto Fukuda¹, Elisabeth Geroges-laboohouse³, Shigeo Ohno⁴, Emi K Nishimura¹
(¹Department of Stem Cell Biology, Medical Research Institute, Tokyo Medical and Dental University, ²Division of human gene sciences research, Research Center for Medical and Dental Sciences, Tokyo Medical and Dental University, ³Institut de Génétique et de Biologie Moléculaire et Cellulaire, Department of Cell Biology and Development, ⁴Department of Molecular Biology, Yokohama City University School of Medicine)
- P-3 Variable SATBI levels confer hematopoietic stem cell heterogeneity with distinct lineage fate**
Yukiko Doi¹, Takafumi Yokota¹, Yusuke Satoh^{1,2}, Tomoaki Ueda¹, Yasuhiro Shingai¹, Michiko Ichii¹, Akira Tanimura¹, Sachiko Ezoe¹, Hirohiko Shibayama¹, Kenji Oritani¹, Terumi Kohwi-Shigematsu³, Yuzuru Kanakura¹
(¹Department of Hematology and Oncology, Osaka University Graduate School of Medicine, ²Department of Lifestyle Studies, Kobe Shoin Women's University, ³Department of Orofacial Sciences, University of California San Francisco)
- P-4 Development of HSC-dependent and independent lineages in the mouse embryo**
Tomomasa Yokomizo¹, Naoki Watanabe², Tomoiku Takaku², Seiichi Mori³, Motomi Osato^{1,4}, Norio Komatsu²
(¹IRCMS, Kumamoto University, ²Department of Hematology, Juntendo University School of Medicine, ³The Cancer Institute of JFCR, ⁴CSI, National University of Singapore)
- P-5 Aged hematopoietic stem cells enhance self-renewal program at single cell level**
Hiroshi Kobayashi¹, Yusuke Shiozawa², Seishi Ogawa², Keiyo Takubo¹
(¹Department of Stem Cell Biology, National Center for Global Health and Medicine, ²Department of Pathology and Tumor Biology, Kyoto University)
- P-6 Asymmetric distribution of midbody and asymmetric cell division of hematopoietic stem cells**
Yosuke Tanaka, Tsuyoshi Fukushima, Toshio Kitamura
(The University of Tokyo Institute of Medical Science Division of Cellular Therapy)

- P-7 Radiobiology of sphere-forming rat mammary epithelial cells under nonadherent culture**
Tatsuhiko Imaoka¹, Ayaka Hosoki², Mari Ogawa¹, Yukiko Nishimura², Shusuke Tani³, Mayumi Nishimura¹, Kazuhiro Daino¹, Yutaka Yamada¹, Shizuko Kakinuma¹, Yoshiya Shimada⁴
 (¹Department of Radiation Effects Research, National Institute of Radiological Sciences, National Institutes for Quantum and Radiological Science and Technology, ²Radiation Effect Accumulation and Prevention Project, Fukushima Project Headquarters, National Institute of Radiological Sciences, ³Radiobiology for Children's Health Program, National Institute of Radiological Sciences, ⁴National Institutes for Quantum and Radiological Science and Technology)
- P-8 Molecular response for low dose-rate irradiation in the hematopoietic system**
Yoshinori Ohno¹, Kyoko Suzuki-Takedachi¹, Yun Guo², Naoto Shirasu³, Mimoko Santo¹, Masamoto Kanno², Shin'ichiro Yasunaga³, Motoaki Ohtsubo⁴, Yoshihiro Takihara⁵
 (¹Dept. Stem Cell Biol., RIRBM, Hiroshima Univ., ²Dept. Immunol., Grad. Sch. Biomed. Sci., Hiroshima Univ., ³Dept. Biochem., Facul. Med., Fukuoka Univ., ⁴Dept. Food and Ferment. Sci., Beppu Univ., ⁵Japanese Red Cross Osaka Blood Center.)
- P-9 Dynamics of liver stem/progenitor cells during pregnancy**
Satoshi Kozuki^{1,2}, Fumiko Toyoshima^{1,2}
 (¹Lab. of Tissue Homeostasis, Inst. for Front. Life and Med. Sci., Kyoto Univ., ²Grad. Sch. of Biostudies, Kyoto Univ.)
- P-10 Interfollicular epidermal cell dynamics in the process of abdominal skin contraction after parturition**
Takuya Okada, Ryo Ichijo, Mitsuko Fukuhara, Fumiko Toyoshima
 (Department of Biosystems Science, Lab. of Tissue Homeostasis, Institute for Frontier Life and Medical Science, Kyoto University)
- P-11 Stem cells and their microenvironment as a candidate target of radiation-induced mammary carcinogenesis**
Daisuke Iizuka, Megumi Sasatani, Hidehiko Kawai, Kenji Kamiya
 (Department of Experimental Oncology, Research Institute for Radiation Biology and Medicine, Hiroshima University)
- P-12 Mitochondria metabolism regulates the activation of hematopoietic stem cells**
Terumasa Umemoto¹, Yu Matsuzaki¹, Michihiro Hashimoto¹, Toshio Suda^{1,2}
 (¹International Research Center for Medical Science (IRCMS), ²Cancer Science Institute of Singapore, National University of Singapore)
- P-13 Differential effects of pregnancy on rat mammary carcinoma induction by pre- and post-pubertal radiation exposures**
Masaru Takabatake¹, Tatsuhiko Imaoka¹, Kazuhiro Daino¹, Kaye Showler², Ayaka Hosoki², Yukiko Nishimura¹, Mayumi Nishimura¹, Shizuko Kakinuma¹, Masahiro Fukushi³, Yoshiya Shimada⁴
 (¹Department of Radiation Effects Research, National Institute of Radiological Sciences, National Institutes for Quantum and Radiological Science and Technology, ²National Institute of Radiological Sciences, ³Tokyo Metropolitan University, ⁴National Institutes for Quantum and Radiological Science and Technology)

P-14 Human bone-derived SSEA-4 and CD271 double positive mesenchymal stromal cells accelerated aging by TGF-beta 2

Hiroshi Kawamura, Ryusuke Nakatsuka, Keisuke Sumide,
Yoshikazu Matsuoka, Yasumasa Shirouzu, Tatsuya Fujioka,
Yoshiaki Sonoda
(Department of Stem Cell Biology, Graduate School of Medical Science, Kansai Medical University)

P-15 Role of Kdm2b, a component of non-canonical PRC1.1, in hematopoiesis

Yusuke Isshiki¹, Yaeko Nakajima-Takagi¹, Motohiko Oshima¹,
Kazumasa Aoyama¹, Haruhiko Koseki², Atsushi Iwama¹
(¹Department of Cellular and Molecular Medicine, Graduate School of Medicine, Chiba University, ²Laboratory for Developmental Genetics, RIKEN Research Center for Integrative Medical Science)

P-16 Roles of miR-17 family in the age-related dysfunctions of tissue stem cells

Hayato Naka-Kaneda¹, Daisuke Hisamatsu²
(¹Dept. Anatomy, Shiga Univ. Med. Sci., ²Dept. Physiol., Keio Univ. Sch. Med.)

P-17 Setdb1 maintains HSPCs by restricting the ectopic activation of non-hematopoietic genes

Shuhei Koide, Motohiko Oshima, Eriko Nitta, Atsunori Saraya,
Kazumasa Aoyama, Yuko Kato, Satoru Miyagi, Yaeko Nakajima-Takagi,
Atsushi Iwama
(Department of Cellular and Molecular Medicine, Graduate School of Medicine, Chiba University)

P-18 CHD7 specifies stem cell identity and neurogenic potential in human central nervous system

Tsukasa Sanosaka, MuhChyi Chai, Hironobu Okuno, Satoe Banno,
Ikuko Koya, Zhi Zhou, Hideyuki Okano, Jun Kohyama
(Department of Physiology, Keio University School of Medicine)

P-19 Functional defect of Polycomb group complex during hematopoietic stem cell aging and myeloid malignancies

Motohiko Oshima¹, Kazumasa Aoyama¹, Changshan Wang², Shuhei Koide¹,
Atsushi Iwama¹
(¹Dept. Cell. Mol. Med., Chiba Univ., ²Coll. Life Sci., Inn. Mong. Univ.)

P-20 Role of the polycomb group protein Bmil in hematopoietic stem cell aging

Eriko Nitta, Atsunori Saraya, Shuhei Koide, Motohiko Oshima,
Atsushi Iwama
(Cellular Molecular Medicine, Chiba University Graduate School of Medicine)

P-21 Abcg2-induced MDS/AML cells perturb bone formation by inhibiting osteoblastic differentiation of bone marrow mesenchymal stem cells

Yasutaka Hayashi¹, Kimihito Kawabata², Yasufumi Uehara³,
Yosuke Tanaka¹, Yuya Kunisaki³, Susumu Goyama¹, Toshio Kitamura¹
(¹Division of Cellular Therapy, The Institute of Medical Science, The University of Tokyo, ²Division of Hematology/ Medical Oncology, Department of Medicine, Weill-Cornell Medical College, Cornell University, ³Department of Stem Cell Biology and Medicine/Cancer Stem Cell Research, Graduate School of Medical Sciences, Kyushu University)

P-22 Jagged1 expression in Sertoli cells is controlled by cAMP

Ryu Okada¹, Taro Hara¹, Tomomi Sato², Nobuhiko Kojima³, Yukio Nishina¹
 (¹Laboratory of Molecular Embryology, Yokohama City University, ²Laboratory of Endocrinology, Yokohama City University, ³Laboratory of Regenerative Biology, Yokohama City University)

P-23 The loss of Bmi1 promotes age-associated changes in bone marrow niche cells

Li-Bo Hou¹, Sha Si¹, Motohiko Oshima¹, Yuko Kato¹, Erico Nitta¹,
 Yaeko Nakajima¹, Satoshi Yamazaki², Atsushi Iwama¹
 (¹Department of Cellular and Molecular Medicine, Graduate School of Medicine, Chiba University., ²Project division of advanced regenerative medicine, the university of Tokyo, the institute of medical science.)

P-24 The impact of p53 activation in bone marrow vascular niche cells on hematopoiesis

SHA SI¹, Yaeko Nakajima-Takagi¹, Motohiko Oshima¹, Atsunori Saraya¹,
 Satoshi Yamazaki², Libo Hou¹, Yoshiaki Kubota³, Tohru Minamino⁴,
 Atsushi Iwama¹
 (¹Department of Cellular and Molecular Medicine, Graduate School of Medicine, Chiba University, ²Division of Stem Cell Therapy, Center for Stem Cell and Regenerative Medicine, The Institute of Medical Science, The University of Tokyo, ³Department of Cell Differentiation, The Sakaguchi Laboratory, School of Medicine, Keio University, ⁴Department of Cardiovascular Biology and Medicine, Niigata University Graduate School of Medical and Dental Sciences.; PRESTO, Japan Science and Technology Agency)

P-25 Mbd3 variant lacking methyl-CpG binding domain exerts equivalent function to canonical Mbd3 for preserving ESC pluripotency

Masataka Hirasaki, Ayumu Suzuki, Kousuke Uranishi, Masamitsu Asaka,
 Masazumi Nishimoto, Akihiko Okuda
 (Division of Developmental Biology, Research Center for Genomic Medicine, Saitama Medical University)

P-26 Baf53a deficiency inhibits cell proliferation and Baf53b substitutes for functions of Baf53a in mouse embryonic stem cells

Bo Zhu, Atsushi Ueda, Xiaohong Song, Tadayuki Akagi, Takashi Yokota
 (Department of Stem Cell Biology, Graduate School of Medical Sciences, Kanazawa University)

P-27 O-GlcNAc is essential for the transition from primed state to naïve state of mouse pluripotent stem cells

Taichi Miura^{1,2}, Shoko Nishihara¹
 (¹Department of Bioinformatics, Graduate School of Engineering, Soka University, ²National Institute of Radiological Sciences, Department of Basic Medical Sciences for Radiation Damages, Regenerative Therapy Research Team)

P-28 Generation of reporter ESC lines to study trophoblast fate specification

Masatoshi Ohgushi
 (RIKEN CDB, Laboratory for in vitro Histogenesis)

P-29 Hlfoo has a pivotal role in qualifying induced pluripotent stem cells

Akira Kunitomi¹, Shinsuke Yuasa¹, Fumihiko Sugiyama², Hideyuki Okano³,
 Ken-ichi Yagami², Mamoru Tanaka⁴, Keiichi Fukuda¹
 (¹Department of Cardiology, Keio University School of Medicine, ²Laboratory Animal Resource Center, University of Tsukuba, ³Department of Physiology, Keio University School of Medicine, ⁴Department of Obstetrics and Gynecology, Keio University School of Medicine)

- P-30 AKT promotes somatic cell nuclear reprogramming through α -KG**
Akari Matsumoto¹, Yoichi Sekita¹, Yuki Kawasaki², Yuki Sugiura³,
Ryo Konno⁴, Yoshio Koderu⁴, Takashi Kohda², Fumitoshi Ishino²,
Tohru Kimura¹
(¹Lab Stem Cell Biol, Kitasato Univ., ²TMDU, ³Keio Univ., ⁴Lab Biophysics, Kitasato Univ.)
- P-31 A novel megakaryocyte-based screening system identifies molecules that promote production of platelets in vitro**
Si Jing Chen¹, Hideya Seo¹, Akitsu Hotta², Yohei Nishi², Akira Ohta²,
Koji Eto¹
(¹Department of Clinical Application, Center for iPS Cell Research and Application, Kyoto University, ²Department of Life Science Frontiers, Center for iPS Cell Research and Application, Kyoto University)
- P-32 Drug screening for GMI gangliosidosis using the patient-derived iPS cells**
Ryutaro Kajihara, Takumi Era
(Department of Cell Modulation, Institute of Molecular Embryology and Genetics, Kumamoto University)
- P-33 Induced cancer stem cells: a model for studying cancer stem cell dormancy and recurrence**
Akira Shimamoto, Tahara Hidetoshi
(Department of Cellular and Molecular Biology, Graduate School of Biomedical & Health Sciences, Hiroshima University)
- P-34 Single-cell gene expression analysis reveals a novel candidate AML stem cell-associated antigen, ALCAM**
Arika Shimura-Nukina, Yosuke Masamoto, Yuki Kagoya, Shunya Arai,
Mineo Kurokawa
(Department of Hematology and Oncology, Graduate School of Medicine, The University of Tokyo)
- P-35 mTORC2-mediated metabolic processes contributes drug resistance in leukemia**
Masaya Ueno, Hui Peng, Atsushi Hirao
(Division of Molecular Genetics, Cancer Research Institute, Kanazawa University)
- P-36 Identification of potential stemness-maintaining factors in cancer stem cells**
Takahiko Murayama¹, Tatsunori Nishimura², Kana Tominaga¹,
Asuka Nakata², Masao Yano³, Kei-ichiro Tada⁴, Arinobu Tojo¹,
Noriko Gotoh^{1,2}
(¹Division of Molecular Therapy, Institute of Medical Science, University of Tokyo, ²Division of Cancer Cell Biology, Cancer Research Institute of Kanazawa University, ³Department of Breast Surgery, Minamimachida Hospital, ⁴Department of Breast & Endocrine Surgery, Graduate School of Medicine, University of Tokyo)
- P-37 Screening for human pancreatic cancer stem cell niche mimicry by using synthetic polymer microarrays**
Yoshitaka Murota¹, Sara Schmidt², Kouichi Tabu¹, Hiromitsu Ito³,
Shinji Tanaka^{3,4}, Mark Bradley², Tetsuya Taga¹
(¹Department of Stem Cell Regulation, Medical Research Institute, Tokyo Medical and Dental University (TMDU), ²High-Throughput Chemical Biology, School of Chemistry, University of Edinburgh, ³Department of Hepato-Biliary-Pancreatic Surgery, Graduate School of Medicine, Tokyo Medical and Dental University (TMDU), ⁴Department of Molecular Oncology, Graduate School of Medicine, Tokyo Medical and Dental University (TMDU))

- P-38 Development of a novel anti-leukemic therapy targeting the circadian clock genes**
Tomoko Hyoda, Yuya Kunisaki, Kentaro Hosokawa, Fumio Arai
 (Department of Stem Cell Biology and Medicine, Graduate School of Medical Science, Kyushu University)
- P-39 Establishment of novel circadian rhythm sleep disorder model using pluripotent stem cells**
Hiroyuki Tamiya¹, Sumito Ogawa¹, Yasuyoshi Ouchi², Masahiro Akishita¹
 (¹Department of Geriatric Medicine, The University of Tokyo Hospital, ²Toranomon Hospital)
- P-40 The ubiquitin ligase STUB1 regulates stability and activity of RUNX1 and RUNX1-RUNXIT1**
Taishi Yonezawa¹, Hirotaka Takahashi², Shiori Shikata¹, Shyuhei Asada¹, Tsuyoshi Fukushima¹, Tomofusa Fukuyama¹, Yosuke Tanaka¹, Tatsuya Sawasaki², Toshio Kitamura¹, Susumu Goyama¹
 (¹Division of Cellular Therapy The Institute of Medical Science The university of Tokyo, ²Proteo-Science Center (PROS) Ehime University)
- P-41 Physiological roles of the genes expressed during maternal zygotic transition**
Satoko Kanzaki¹, Mizuki Wakabayashi¹, Shuji Takada², Yoichi Sekita¹, Tohru Kimura¹
 (¹Kitasato University, ²National Center for Child Health and Development)
- P-42 Essential roles of Snf5 in female germ cell sex differentiation**
Toshiaki Ito¹, Yoichi Sekita¹, Charles Roberts², Tohru Kimura¹
 (¹Laboratory of Stem Cell Biology, Kitasato University School of Science, ²Dana-Farber Cancer Institute)
- P-43 Identification and analysis of imprinting control region-binding proteins**
Yoichi Sekita¹, Yuki Yoshimura¹, Hodaka Fujii², Kimura Tohru¹
 (¹Laboratory of Stem Cell Biology, Department of Biosciences, Kitasato University School of Science, ²Research Institute for Microbial Diseases, Osaka University)
- P-44 Identification of novel human hematopoietic stem cell subpopulations via comprehensive surface marker analysis**
Takashi Jiomaru, Kohta Miyawaki, Yasuo Mori, Hiromi Iwasaki, Takahiro Maeda, Koichi Akashi
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- P-45 Role of the polycomb methyltransferase Ezh1 in EZH2-insufficient myelodysplastic syndrome**
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- P-46 Dramatically increased myelopoiesis in the bone marrow of EBV-infected humanized NOG mice**
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