Friday, May 29. The First Day

Registration・Exhibit posters 9:00～

Opening Remarks Organizer Issay Kitabayashi 9:30～9:40

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

Keynote Lecture (1) 9:40～10:30

Chair Yukiko Gotoh

(Laboratory of Molecular Biology, Graduate School of Pharmaceutical Sciences, The University of Tokyo)

K-1 **Molecular Regulation of Stem Cell Quiescence**

Thomas A. Rando, MD, PhD

(Stanford University School of Medicine)

Coffee Break 10:30～10:50

Special Session on Tissue Stem Cells 10:50～12:05

Chair Yukiko Gotoh

(Laboratory of Molecular Biology, Graduate School of Pharmaceutical Sciences, The University of Tokyo)

SS-1 Slowly dividing neural progenitors are an embryonic origin of adult neural stem cells

Shohei Furutachi and Yukiko Gotoh

(Graduate School of Pharmaceutical Sciences, The University of Tokyo)

SS-2 The epidermal stem cell niche instructs the creation and positioning of mesenchymal features

Hironobu Fujiwara

(RIKEN Center for Developmental Biology)

SS-3 Melanocyte stem cells: a key for hair graying and melanoma

Emi K. Nishimura

(Department of Stem Cell Biology, Medical Research Institute, Tokyo Medical and Dental University)

Lunch Time/Poster Session 12:05～13:25

Session 1: Hematopoietic & Neural Stem Cells 13:25～14:40

Chair Yoshihiro Takihara

(Department of Stem Cell Biology, Research Insitute for Radiation Biology and Medicine, Hiroshima University)

O-1 Disruption of Tsukushi function results aberrant neurogenesis in mouse brain.

Naofumi Ito, Riyadh MD Asrafuzzaman, Kunimasa Ohta

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

O-2 Manipulation of the Geminin activity by using cell-penetrating Geminin and its domain-specific mutants

Yoshinori Ohno[1], Shin'ichiro Yasunaga[1,2], Kyoko Suzuki-Takedachi[1], Toshiaki Kurogi[1], Mimoko Santo[1], Motoaki Ohtsubo[3], Kazuhito Naka[1,4], Yoshihiro Takihara[1]

([1]Dept. Stem Cell Biol., RIRBM, Hiroshima Univ., [2]Dept. Biochem., Facul. Med., Fukuoka Univ., [3]Dept. Food and Ferment. Sci., Beppu Univ., [4]Explor. Proj. Can. Stem Cells, CRI, Kanazawa Univ.)

O-3 Chromatin remodeling factor BRM is essential for maintaining HSC quiescence

Eriko Nitta[1,2], Masayuki Yamashita[2], Motohiko Oshima[1], Atsushi Iwama[1], Toshio Suda[2]

([1]Chiba University Graduate School of Medicine, [2]Keio University School of Medicine)

O-4 Highly efficient Runx1 enhancer (eR1)-mediated genetic engineering for fetal and adult hematopoietic stem cells

Motomi Osato[1,2], Cai Ping Koh[2], Tomomasa Yokomizo[1]

([1]International Research Center for Medical Sciences, Kumamoto University, [2]Cancer Science Institute of Singapore, National University of Singapore)

O-5 Direct Activation of TLR4-TRIF-ROS-p38 Pathways Limits Hematopoietic Stem Cell Fitness

Hitoshi Takizawa[1], Kristin Fritsch[2], Yasuyuki Saito[2], Larisa V. Kovtonyuk[2], Markus G. Manz[2]

([1]International Research Center for Medical Sciences, Kumamoto University, [2]Division of Hematology, University Hospital Zurich, Switzeralnd)

Coffee Break 14:40～15:00

Session 2: Leukemia Stem Cells (1) 15:00～15:45

Chair Shigeru Chiba

(Department of Hematology, Faculty of Medicine, University of Tsukuba)

O-6 The clinical impact of both point mutated and alternatively spliced BCR-ABL in CML patients: Result of highly-sensitive, deep sequencing study

Junichiro Yuda[1], Toshimiro Miyamoto[1], Jun Odawara[1], Yasuyuki Ohkawa[2], Koichi Akashi[1]

([1]Medicine and Biosystemic Science, Kyushu University, Faculty of Medical Sciences, [2]Department of Advanced Medical Initiatives, Kyushu University, Faculty of Medical Sciences)

O-7 Overexpression of the Shortest Isoform of Histone Demethylase LSD1 Primes Hematopoietic Stem/Progenitor Cells for Malignant Transformation

Taeko Wada, Yusuke Furukawa

(Division of Stem Cell Regulation, Center for Molecular Medicine, Jichi Med.Univ.)

O-8 Gene profiling analyses and mode of action in acute myeloid leukemia during treatment with Hedgehog signaling inhibitor

Yosuke Minami

(Division of Transfusion Medicine and Cell Therapy, Kobe University Hospital)

Session 3: Leukemia Stem Cells (2) 15:45～16:45

Chair Atsushi Iwama

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

O-9 Truncated Form EZH2 Mutation Promotes Myeloid Tumorigenesis in Mouse BMT Model via Upregulation of Tumor Stem Cell Markers

Kimihito C. Kawabata[1], Daichi Inoue[1], Jiro Kitaura[1], Yasutaka Hayashi[1], Tomofusa Fukuyama[1], Hironori Harada[2], Susumu Goyama[1], Toshio Kitamura[1]

([1]Division of Cell Therapy, Institute of Medical Science, the University of Tokyo, [2]Department of Hematology, School of Medicine, Juntendo University)

O-10 The roles of Glis2 in leukemic and hematopoietic stem cells

Emi Takamatsu-Ichihara, Haruko Shima, Shuhei Fujita, Kazutsune Yamagata, Yukiko Aikawa, Issay Kitabayashi

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

O-11 Enhanced autophagy promotes survival of peripheral blast cells from murine MLL-ENL leukemia.

Yoshiki Sumitomo[1,2], Junji Koya[1], Keisuke Kataoka[1], Takako Tsuruta-Kishino[1], Morita Ken[1], Tomohiko Sato[1,3], Mineo Kurokawa[1,4]

([1]Department of Hematology & Oncology, Graduate School of Medicine, The University of Tokyo, [2]Oncology Research Laboratories, Kyowa Hakko Kirin Co., Ltd., [3]Department of Transfusion Medicine, The University of Tokyo Hospital, [4]Department of Cell Therapy and Transplantation, The University of Tokyo Hospital.)

O-12 Proteinase-activated receptor 1 (Par-1) inhibits proliferation but enhances leukemia stem cell activity in MLL-fusion leukemia

Susumu Goyama [1], Mahesh Shrestha [2], Janet Schibler [2], Leah Rosenfeldt [2], Whitney Miller [2], Eric O'Brien [2], Benjamin Mizukawa [2], Toshio Kitamura [1], Joseph S. Palumbo [2], James C. Mulloy [2]
([1]Division of Cellular Therapy, The Institute of Medical Science, The University of Tokyo, [2]Division of Experimental Hematology and Cancer Biology, Cincinnati Children's Hospital Medical Center, University of Cincinnati College of Medicine)

Coffee Break 16:45～17:05

Keynote Lecture (2) 17:05～17:55

Chair Koichi Akashi

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

K-2 **"Stem Cell Niche" – From Cells to Organs and Beyond**

Hiromitsu Nakauchi
(Stanford University / University of Tokyo)

General Meeting 17:55～18:05

Chief Director Koichi Akashi

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

Reception (Venue for Poster Presentation) 18:05～19:05

Saturday, May 30. The Second Day

Special Lecture: Metabolism & Stem Cells 9:30～10:10

Chair Atsushi Hirao
(Cancer Research Institute, Kanazawa University)

S-1 Metabolic heterogeneity of cancer stem cells
Hideyuki Saya
(Keio University, School of Medicine, Institute for Advanced Medical Research, Division of Gene Regulation)

Coffee Break 10:10～10:30

Session 4: Metabolism & Stem Cells 10:30～11:45

Chair Keiyo Takubo
(Department of Stem Cell Biology, National Center for Global Health and Medicine)

O-13 AMPK confers metabolic stress resistance to leukemia-initiating cells
Yusuke Saito[1,2], Daisuke Nakada[1]
([1]Molecular and Human Genetics, Baylor college of medicine, [2]Division of Tumor and Cellular Biochemistry, Faculty of Medicine, University of Miyazaki)

O-14 IDH mutants are promising therapeutic targets for acute myeloid leukemia
Yoko Ogawara[1], Hironori Matsunaga[2], Takahiko Seki[2], Yukino Machida[1], Kazushi Araki[2], Issay Kitabayashi[1]
([1]Division of Hematological Malignancy, National Cancer Center Research Institute, [2]R&D Division, Daiichi Sankyo Co., Ltd.)

O-15 Proliferation of transplanted hematopoietic stem cells is controlled by p38alpha-activated purine metabolism.
Daiki Karigane[1,2], Toshio Suda[3,4], Keiyo Takubo[1]
([1]Department of Stem Cell Biology, Research Institute, National Center for Global Health and Medicine, [2]Division of Hematology, Department of Internal Medicine, Keio University School of Medicine, [3]Cancer Science Institute, National University of Singapore, [4]The International Research Center for Medical Sciences (IRCMS), Kumamoto University)

O-16 Specific amino acid environment in bone marrow is crucial for the maintenance of hematopoietic stem cells
Yuki Taya[1], Satoshi Yamazaki[1], Hiroshi Watarai[1], Ayano Kanazawa[1], Yasunori Ota[2], Takaho Endo[3], Hiromitsu Nakauchi[1,4]
([1]Laboratory of Stem Cell Therapy, Center for Experimental Medicine, The Institute of Medical Science, University of Tokyo, [2]Department of Pathology, Research Hospital, The Institute of Medical Science, The University of Tokyo, [3]Laboratory for Integrative Genomics, RIKEN Center for Integrative Medical Sciences, The institute of Physical and Chemical Research, [4]Institute for Stem Cell Biology and Regenerative Medicine, Stanford University School of Medicine)

O-17 Lactic acid bacteria-derived materials convert human fibroblasts to multipotential cells

Kunimasa Ohta[1], Kaoru Katou[2], Naofumi Ito[1]
([1]Department of Developmental Neurobiology, Graduate Schoo of Life Sciences, Kumamoto University, [2]Biomedical Research Institute, National Institute of Advanced Industrial Science and Technology (AIST))

Lunch Time/Poster Session 11:45～12:45

Session 5: Cancer Stem Cells 12:45～13:45

Chair Yohei Shimono

(Division of Molecular and Cellular Biology, Kobe University Graduate School of Medicine)

O-18 HER2/3-NF κ B-IGF2-ID1 circuit addiction as a fundamental mechanism for stabilization of the stemness of breast cancer cells in their niche

Kana Tominaga[1,2], Natsuko Kimura[1], Takahiko Murayama[1], Yohei Shimono[3], Hideshi Ishii[4], Hideyuki Saya[5], Masaki Mori[6], Koichi Akashi[7], Kei-ichiro Tada[8], Arinobu Tojo[1], Noriko Gotoh[1,9]
([1]Division of Molecular Therapy, Institute of Medical Science, University of Tokyo, [2]JSPS DC2, [3]Division of Molecular and Cellular Biology, Kobe University, Graduate School of Medicine, [4]Department of Cancer Profiling Discovery, Osaka University Graduate School of Medicine, [5]Division of Gene Regulation, Institute Advanced Medicine Research, Graduate School of Medicine, Keio University, [6]Department of Gastroenterological Surgery, Graduate School of Medicine, Osaka University, [7]Department of Medicine and Biosystemic Science, Graduate School of Medicine, Kyusyu Univesity, [8]Department of Breast & Endocrine Surgery, Graduate School of Medicine, University of Tokyo, [9]Division of Cancer Cell Biology, Cancer Research Institute, Kanazawa University)

O-19 Epithelial to mesenchymal transition by TGF-beta treatment enhances sphere forming ability in primary colorectal cancer

Michitaka Nakano[1], Hiroshi Ariyama[1], Shingo Tamura[1], Taichi Isobe[1], Kohta MIyawaki[1], Yuta Okumura[1], Hitoshi Kusaba[1], Takashi Ueki[2], Eishi Baba[1], Koichi Akashi[1]
([1]Medicine and Biosystemic Science, Kyushu University, [2]Surgery and Oncology, Kyushu University)

O-20 miR-142 Upregulates miR-150 and Confers an Aberrant Proliferative Ability to Human Breast Cancer Stem Cells.

Yohei Shimono[1], Taichi Isobe[2], Shigeo Hisamori[3], Michael Clarke[2]
([1]Kobe University Graduate School of Medicine, [2]Institute for Stem Cell Biology and Regenerative Medicine, Stanford University, U.S.A., [3]Kyoto University Graduate School of Medicine.)

O-21 CD74-NRG1 is a potential oncoprotein that promotes cancer stem cell properties.
Takahiko Murayama[1,2], Takashi Nakaoku[3], Koji Tsuta[4], Masato Enari[5], Tatsunori Nishimura[6], Kana Tominaga[6], Asuka Nakata[1], Arinobu Tojo[7], Sumio Sugano[2], Takashi Kohno[3], Noriko Gotoh[1,6]
([1]Division of Cancer Cell Biology, Cancer Research Institute of Kanazawa University, [2]Laboratory of Functional Genomics, Department of Medical Genome Sciences, Graduate School of Frontier Sciences, University of Tokyo, [3]Division of Genome Biology, National Cancer Center Research Institute, [4]Pathology Division, National Cancer Center Research Institute, [5]Division of Refractory Cancer Research, National Cancer Center Research Institute, [6]Division of Molecular Therapy, Molecular targets laboratory, Institute of Medical Science, University of Tokyo, [7]Division of Molecular Therapy, Advanced Clinical Research Center, Institute of Medical Science, University of Tokyo)

Session 6: Hematopoiesis 13:45～14:30

Chair Motomi Osato

(International Research Center for Medical Sciences, Kumamoto University)

O-22 A single micro-RNA can completely rescue B-cell differentiation arrest due to EBF1 deficiency—Can miR-195 control cell fate more than a fine tuner?
Bidisha Chanda[1], Tomokatsu Ikawa[2], Kazuki Okuyama[1], Katsuto Hozumi[3], Kiyoshi Ando[4], Arinobu Tojo[5], Hiroshi Kawamoto[6], Ai Kotani[1]
([1]Division of Hematological Malignancy, Institute of Medical Science, Tokai University, [2]RIKEN Research Center for Allergy and Immunology, [3]Depertment of Immunology, Tokai University Medical School, [4]Department of Hematology, Tokai University, [5]Division of Molecular Therapy, Institute of Medical Science, University of Tokyo, [6]Depertment of Immunology, Kyoto University)

O-23 Modulation of macrophages by tumor-derived secretory small RNAs is critical for EBV lymphoma formation
Natsuko Yamakawa[1], Ken-Ichi Imadome[2], Takashi Yahata[3], Ai Kotani[1]
([1]Department of Hematological Malignancy, Institute of Medical Science, Tokai University, [2]Department of Infectious Diseases, National Center for Child Health and Development, [3]Research Center for Cancer Stem Cell, Tokai University School of Medicine)

O-24 A novel 2 amino acids deletion of the transcription factor C/EBP epsilon leads to neutrophil-specific granule deficiency (SGD).
Tadayuki Akagi[1], Taizo Wada[2], Masahiro Muraoka[2], Tomoko Toma[2], Kenzo Kaji[3], Kazunaga Agematsu[4], H. Phillip Koeffler[5], Takashi Yokota[1], Akihiro Yachie[2]
([1]Department of Stem Cell Biology, Graduate School of Medical Sciences, Kanazawa University, [2]Department of Pediatrics, Graduate School of Medical Sciences, Kanazawa University, [3]Department of Dermatology, Komatsu Municipal Hospital, [4]Department of Infection and Host Defense, Shinshu University Graduate School of Medicine, [5]Cancer Science Institute of Singapore, National University of Singapore, Singapore)

Coffee Break 14:30～14:50

Session 7: Multi-/pluri-potent Stem Cells 1　14:50～15:35

Chair Takumi Era

(Department of Cell Modulation, IMEG, Kumamoto University)

O-25 Dynamic expression patterns of Pax6 during spermatogenesis in the mouse

Ryuichi Kimura, Kaichi Yoshizaki, Noriko Osumi

(Department of Developmental Neuroscience, Center for Neuroscience, Tohoku University School of Medicine.)

O-26 OVOL2 controls transcriptional programs of ectodermal lineage

Shinji Masui[1], Koji Kitazawa[1], Shigeru Kinoshita[2]

([1]Center for iPS Cell Research and Application, Kyoto University, [2]Department of Ophthalmology, Kyoto Prefectural University of Medicine.)

O-27 Actin regulates cellular reprogramming

Takashi Ikeda, Takafusa Hikichi, Akira Watanabe, Akitsu Hotta, Shinji Masui

(Department of Reprogramming Science, Center for iPS Research and Application (CiRA), Kyoto University)

Session 8: Multi-/pluri-potent Stem Cells 2　15:35～16:20

Chair Shinji Masui

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

O-28 A Safeguard System for Induced Pluripotent Stem Cell-Derived Rejuvenated T-Cell Therapy

Miki Ando[1], Toshinobu Nishimura[2], Satoshi Yamazaki[1], Malcolm Brenner[3], Hiromitsu Nakauchi[1,2]

([1]Division of Stem Cell Therapy, Center for Stem Cell Biology and Regenerative Medicine, The Institute of Medical Science, The University of Tokyo, [2]Institute for Stem Cell Biology and Regenerative Medicine, Stanford University, [3]Center for Cell and Gene Therapy, Baylor College of Medicine)

O-29 A newly effective drug candidate was found using iPS cell derived from Niemann-Pick disease type C

Minami Soga[1], Yoichi Ishitsuka[2], Makoto Hamasaki[1], Kaori Yoneda[3], Hirokazu Furuya[4], Muneaki Matsuo[5], Hironobu Ihn[6], Noemi Fusaki[7], Kimitoshi Nakamura[3], Naomi Nakagata[8], Fumio Endo[3], Tetsumi Irie[2], Takumi Era[1]

([1]Department of Cell Modulation, Institute of Molecular Embryology and Genetics, Kumamoto University, [2]Department of Clinical Chemistry and Informatics, Graduate School of Pharmaceutical Sciences, Kumamoto University, [3]Department of Pediatrics, Graduate School of Medical Sciences, Kumamoto University, [4]Department of Cardiology, Neurology and Aging Science, Kochi University Medical School, [5]Department of Pediatrics, Saga University, Faculty of Medicine, [6]Department of Dermatology and and Plastic Surgery, Faculty of Life Sciences, Kumamoto University, [7]Department of Ophthalmology, Keio University School of Medicine, [8]Division of Reproductive Engineering, Center for Animal Resources and Development, Kumamoto University.)

O-30 New Type of Sendai Virus Vector Provides Transgene-Free iPS Cells Derived from Chimpanzee Blood

Makoto Hamasaki[1], Yasumitsu Fujie[1], Noemi Fusaki[2,3], Tomohiko Katayama[1], Yumi Soejima[1], Minami Soga[1], Hiroshi Ban[2], Mamoru Hasegawa[2], Satoshi Yamashita[4], Shigemi Kimura[5], Saori Suzuki[6], Tetsuro Matsuzawa[7], Hirofumi Akari[6,8], Takumi Era[1]
([1]Department of Cell Modulation, Institute of Molecular Embryology and Genetics, Kumamoto University, [2]DNAVEC Corporation, [3]Department of Ophthalmology, Keio University School of Medicine, [4]Department of Neurology, Graduate School of Medical Sciences, Kumamoto University, [5]Department of Child Development, Graduate School of Medical Sciences, Kumamoto University, [6]Section of Comparative Microbiology and Immunology, Center for Human Evolution Modeling Research, Primate Research Institute, Kyoto University, [7]Section of Language and Intelligence, Primate Research Institute, Kyoto University, [8]Laboratory of Evolutional Virology, Experimental Research Center for Infectious Diseases, Institute for Virus Research, Kyoto University)

Closing Remarks 16:20～16:30

Next Organizer Atsushi Hirao

(Cancer Research Institute, Kanazawa University)

Poster Session

P-1 Functional analysis of neurodevelopmental disorder causative protein MeCP2 in neural stem cells

Keita Tsujimura, Hideyuki Nakashima, Koichiro Irie, Kinichi Nakashima
(Stem Cell Biology and Medicine, Department of Stem Cell Biology and Medicine, Graduate School of Medical Science, Kyushu University)

P-2 Identification of a potential progenitor cell population of bile duct epithelial cells with clonal proliferation activity in regenerating mouse liver

Kenji Kamimoto, Tohru Itoh, Atsushi Miyajima
(IMCB, The University of Tokyo, Department of Biophysics and Biochemistry, the University of Tokyo)

P-3 Characterization of Liver Stem/Progenitor Cell by the Expression Profile of Lutheran

Yasushi Miura[1], Minoru Tanaka[2], Yamato Kikkawa[3], Nobuhito Goda[1], Atsushi Miyajima[4]
([1]Department of Life Science and Medical Bioscience, School of Science and Engineering, Waseda University, [2]Department of Regenerative Medicine, Research Institute of National Center for Global Health and Medicine, [3]Laboratory of Clinical Biochemistry, Tokyo University of Pharmacy and Life Sciences, [4]Laboratory of Cell Growth and Differentiation, Institute of Molecular and Cellular Biosciences, The University of Tokyo)

P-4 Roles of metabolic signals in differentiation and de-differentiation of mouse primordial germ cells

Yuki Yoshimura[1], Mizuki Wakabayashi[1], Shigeyuki Nada[2], Masato Okada[2], Yoichi Sekita[1], Tohru Kimura[1]
([1]Laboratory of Stem Cell Biology, Department of Biosciences, Kitasato University School of Science, [2]Department of Oncogene Research, Research Institute for Microbial Diseases, Osaka University)

P-5 Identification of mouse Biliary Tree Stem/Progenitor Cell (BTSC) based on TROP2 expression profile.

Satoshi Matsui[1,2], Minoru Tanaka[1,2], Atsushi Miyajima[1]
([1]Laboratory of Cell Growth and Differentiation, Institute of Molecular and Cellular Biosciences (IMCB), The University of Tokyo., [2]Dept. of Regenerative Medicine, National Center for Global Health and Medicine (NCGM).)

P-6 Locus-specific expansion of Polycomb domain determines the temporal repression of the neurogenic genes in neocortical development

Yusuke Kishi[1], Yusuke Hirabayashi[2], Kelsey Tyssowski[2], Haruhiko Koseki[3], Yutaka Suzuki[4], Yukiko Gotoh[1]
([1]Grad Sch Pharma, Univ of Tokyo, [2]IMCB, Univ of Tokyo, [3]RIKEN, IMS-RCAI, [4]Grad Sch Frontier Sci, Univ of Tokyo)

P-7 Sp1/3 sustain self-renewal of Embryonic stem cell through regulating core Klf circuitry

Hiroki Ura
(RIKEN Center for Developmental Biology)

P-8 Slowly dividing neural progenitors are an embryonic origin of adult neural stem cells

Shohei Furutachi, Yukiko Gotoh
(Graduate School of Pharmaceutical Sciences, The University of Tokyo)

P-9 Investigation of the lower c-kit expressing cells in murine hematopoietic stem cell compartment

Yutaka Sasaki, Yoshikazu Matsuoka, Ryusuke Nakatsuka, Keisuke Sumide, Hiroshi Kawamura, Tatsuya Fujioka, Sonoda Yoshiaki
(Department of Stem Cell Biology and Regenerative Medicine, Graduate School of Medical Science, Kansai Medical University)

P-10 Role of the Polycomb Gene Bcor in Hematopoiesis

Tomoyuki Tanaka[1,2], Sha Si[3], Shiro Tara[3], Atsunori Saraya[3], Yaeko Nakajima-Takagi[4], Hirohito Sone[4], Haruhiko Koseki[5], Atsushi Iwama[3]
([1]Department of Hematology, Endocrinology and Metabolism, Niigata University, [2]Department of Cellular and Molecular Medicine, Graduate School of Medicine, Chiba University, [3]Department of Cellular and Molecular Medicine, Graduate School of Medicine, Chiba University, [4]Department of Hematology, Endocrinology and Metabolism, Niigata University, [5]Laboratory for Developmental Genetics, RIKEN Research Center for Integrative Medical Sciences, IMS.)

P-11 Quality control of undifferentiated status in hematopoietic stem cells during cell division by Spred1

Yuko Tadokoro[1], Akihiko Yoshimura[2], Hiromitsu Nakauchi[3], Atsushi Hirao[1]
([1]Division of Molecular Genetics, Cancer Research Institute, Kanazawa University, [2]Department of Microbiology and Immunology, Keio University School of Medicine, [3]Division of Stem Cell Therapy, The Institute of Medical Science, The University of Tokyo)

P-12 Maintenance of intra-aortic hematopoietic cell clusters in the AGM region through the Sox17-Notch1-Hes1 axis

Kiyoka Saito, Ikuo Nobuhisa, Maha Anani, Kaho Harada, Satomi Takahashi, Tetsuya Taga
(Department of Stem Cell Regulation, Medical Research Institute, Tokyo Medical and Dental University (TMDU))

P-13 Exo-utero surgical technique enables us to investigate hematopoietic homing from fetal liver to bone marrow.

Yuka Tanaka[1,2], Tomoko Inoue[3], Kasem Kulkeaw[3], Chiyo Yanagi[2], Keai Sinn Tan[3], Naoko Kojima[3], Anthony Swain[3], Senji Shirasawa[2], Yoichi Nakanishi[4], Daisuke Sugiyama[1,5]
([1]Center for Advanced Medical Innovation, Kyushu University, [2]Department of Cell Biology, Faculty of Medicine, Fukuoka University, [3]Department of Research and Development of Next Generation Medicine, Kyushu University Faculty of Medical Sciences, [4]Center for Clinical and Translational Research, Kyushu University Hospital, [5]Center for Clinical and Translational Research, Kyushu university Hospital)

P-14 Role of UTX, a histone H3K27 demethylase, in normal hematopoiesis and hematologic malignancies

Yasuyuki Sera[1], Takeshi Ueda[1], Yuichiro Nakata[1], Ken-ichiro Ikeda[1], Norimasa Yamasaki[1], Hideaki Oda[2], Zen-ichiro Honda[3], Hiroaki Honda[1]
([1]Department of Disease Model, Research Institute for Radiation Biology and Medicine, Hiroshima University, [2]Department of Pathology, Tokyo Women's Medical University, [3]Health Care Center and Graduate School of Humanities and Sciences, Institute of Environmental Science for Human Life, Ochanomizu University)

P-15 A transient treatment of GSK3β inhibitor enhances hematopoietic differentiation of human pluripotent stem cells.

Kenji Kitajima[1], Marino Nakajima[1,2], Mai Kanokoda[1,2], Takahiko Hara[1,2]
([1]Stem Cell project, Tokyo Metropolitan Institute of Medical Science, [2]Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University)

P-16 Induction of the megakaryocyte differentiation from mouse/human pluripotent stem cells by Gata transcription factors

Mai Kanokoda[1,2], Kenji Kitajima[1], Manami Kawaguchi[1,2], Marino Nakajima[1,2], Michael Kyba[3], Takahiko Hara[1,2]
([1]Stem Cell project, Tokyo Metropolitan Institute of Medical Science, [2]Graduate School of Medical and Dental Sciences, [3]Lillehei Heart Institute, University of Minnesota)

P-17 Full hematopoietic differentiation potentials of tetraploid pluripotent stem cells generated by cell fusion between mouse T cells and embryonic stem cells

Marino Nakajima[1,2], Kenji Kitajima[1], Mai Kanokoda[1,2], Takahiko Hara[1,2]
([1]Stem Cell project, Tokyo Metropolitan Institute of Medical Science, [2]Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University)

P-18 Promotion of iPS cell induction by AKT signaling activation

Eriko Kanai, Toshihisa Haraoka, Yuki Yoshimura, Keita Fujikawa, Yoichi Sekita, Tohru Kimura
(Laboratory of Stem Cell Biology, Department of Biosciences, Kitasato University School of Science.)

P-19 Zfp296 associates with Klf4 and regulates its activity as an activator and a repressor.

Yuka Fujii, Tadayuki Akagi, Takashi Yokota
(Department of Stem Cell Biology, Graduate School of Medical Sciences, Kanazawa University)

P-20 Dynamic regulation of colon tumor-derived stem cells demonstrated by single-cell qPCR

Daisuke Shiokawa, Hirokazu Ohata, Koji Okamoto
(Division of Cancer Differentiation, National Cancer Center Research Institute)

P-21 Estrogen induces proliferation of breast cancer stem cells via NO/sGC/cGMP signaling pathway

Naoya Hirata[1], Yosuke Demizu[2], Masaaki Kurihara[2], Yuko Sekino[1], Yasunari Kanda[1]
([1]Div. Parmacol., NIHS, [2]Div. Org. Chem., NIHS)

P-22 The roles of p62/SQSTM1, an adaptor protein for selective autophagy, for stemness of breast cancer cells

Chiaki Ito, Noriko Gotoh
(Division of Cancer Cell Biology, Cancer Research Institute, Kanazawa University)

P-23 GDF15 promotes mammosphere formation in breast cancer

Asako Sasahara[1], Tominaga Kana[1], Arinobu Tojo[1], Noriko Gotoh[2,3]
([1]Division of Molecular Therapy, Institute of Medical Science, University of Tokyo, [2]Division of Molecular Therapy, Institute of Medical Science, University of Tokyo, [3]Division of Cancer Cell Biology, Cancer Research Institute, Kanazawa University)

P-24 Notch3 regulates the quiescence of neural stem cells in the adult mouse subependymal zone

Hiroki Kawai, Shohei Furutachi, Yukiko Gotoh
(Laboratory of Molecular Biology, Graduate School of Pharmaceutical Sciences, The University of Tokyo)

P-25 Distinctive Thy1-expressing mesenchymal cells contribute to hepatic tissue remodeling in mouse models of cholestatic liver injury

Len Katsumata, Tohru Itoh, Atsushi Miyajima
(Laboratory of Cell Growth and Differentiation, Institute of Molecular and Cellular Biosciences, The University of Tokyo)

P-26 Dppa3 accelerates erythroid differentiation accompanied with globin synthesis in the mouse fetal liver

Kasem Kulkeaw[1], Daisuke Sugiyama[2], Tomoko Inoue[1], Naoko Kojima[1], Anthony Swain[1], Muttika Madtookung[1], Kaori Takakusagi[3], Yuka Tanaka[1], Akane Yonehara[3]
([1]Department of Research and Development of Next Generation Medicine, Faculty of Medical Sciences, Kyushu University, [2]Department Head, Professor Department of Clinical Study Center for Advanced Medical Innovation Kyushu University, [3]International Cooperation Unit Center for Clinical and Translational Research Kyushu University Hospital)

P-27 Apoptosis inducing factor 2 functions in erythropoiesis by regulating Klf1 gene and enucleation related genes in mouse erythro-leukemic cells

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