The 11th Stem Cell Research Symposium Program

Friday, May 17. The First Day

Registration・Exhibit posters **9：00～**

Opening Remarks Organizer Shigeru Chiba **9：30～9：40**
(Department of Hematology, Faculty of Medicine, University of Tsukuba)

Session 1 : Hematopoietic Stem Cell **9：40～10：40**

Chair Mineo Kurokawa
(Department of Hematology & Oncology Graduate School of Medicine, The University of Tokyo)

O-1 Hemp, an epigenetic regulator, sustains hematopoietic stem cell quiescence through regulating FoxO3a and downstream CDK inhibitors
Hiroaki Honda[1], Keiyo Takubo[2], Takeshi Ueda[1], Norimasa Yamasaki[1], Ayako Nakamura-Ishizu[2], Zen-ichiro Honda[3], Fumio Arai[2], Toshio Suda[2]
([1]Research Institute of Radiation Biology and Medicine, Hiroshima University, [2]The Sakaguchi Laboratory of Developmental Biology, Keio University School of Medicine, [3]Institute of Environmental Science for Human Life, Ochanomizu University)

O-2 Visualization and functional analysis of Geminin, a candidate molecule governing self-renewal and cellular differentiation of hematopoietic stem cells
Shin'ichiro Yasunaga[1], Yoshinori Ohno[1], Toshiaki Kurogi[1], Keita Saeki[1], Yoshie Nakashima[1], Motoaki Ohtsubo[2], Yoshihiro Takihara[1]
([1]Dept. Stem Cell Biol., RIRBM, Hiroshima Univ., [2]Dept. Food and Ferment. Sci., Beppu Univ.)

O-3 Aspp1 (Apoptosis-stimulating protein of p53, 1) induces hematopoietic stem cell cycling and apoptosis in response to cellular stress
Masayuki Yamashita, Eriko Nitta, Toshio Suda
(Department of Cell Differentiation, the Sakaguchi Laboratory of Developmental Biology, Keio University School of Medicine)

Coffee Break **10：40～11：00**

Special Lecture 1 **11：00～11：30**

Chair Toshio Suda
(Keio University School of Medicine)

S-1 Replication stress in aging hematopoietic stem cells
Emmanuelle Passegue,PhD
(The Eli and Edythe Broad Center of Regeneration Medicine and Stem Cell Research,University of California San Francisco)

Lunch Time **11：30～13：10**

Poster Session **13：10～14：10**

Coffee Break **14：10～14：30**

Session 2 : Hematopoietic Stem Cell Regulation **14：30～15：35**

Chair Koichi Akashi
(Dept.of Medicine and Biosystemic Science Faculty of Medicine, Kyushu University)

Topics in Human HSCs

Transcriptional architecture of the human hematopoietic hierarchy: insights into lineage commitment and self-renewal

Elisa Laurenti, Ph.D.
(Campbell Family Institute for Cancer Research, Ontario Cancer Institute,University Health Network)

O-4 Adiponectin promotes proliferation of hematopoietic cells in vivo.
Yosuke Masamoto[1], Shunya Arai[1], Tomohiko Sato[1], Akihide Yoshimi[1], Iseki Takamoto[2], Naoto Kubota[2], Takashi Kadowaki[2], Mineo Kurokawa[1]
([1]Department of Hematology and Oncology, the University of Tokyo, [2]Department of Metabolic Diseases, the University of Tokyo)

O-5 Functional Significance of MPL Expression in the Human Primitive Hematopoietic Stem Cell Compartment
Masaya Takahashi, Yoshikazu Matsuoka, Ryusuke Nakatsuka, Ryuji Iwaki, Hirao Kohno, Tatsuya Fujioka, Yutaka Sasaki, Yoshiaki Sonoda
(Department of Stem Cell Biology and Regenerative Medicine, Graduate School of Medical Science, Kansai Medical University)

Coffee Break **15：35～15：50**

Session 3 : iPS/ES Cell (1) **15：50～16：50**

Chair Takumi Era
(Department of Cell Modulation ,IMEG, Kumamoto University)

O-6 Incompletely Reprogrammed Human iPSCs Form Glioma-like Tumors Through Genomic Instability During Neural Differentiation
Yohei Okada[1], Fuyuki Miya[2], Masato Koike[3], Shuta Tomisato[1], Tomoko Tokura[1], Yasuharu Ishihara[1], Daisuke Shimojo[1], Chinatsu Hattori[1], Daisuke Kanematsu[4], Yonehiro Kanemura[4], Kazuhisa Kohda[1], Gen Sobue[5], Shinya Yamanaka[6], Michisuke Yuzaki[1], Yasuo Uchiyama[3], Eiji Ikeda[7], Tatsuhiko Tsunoda[2], Hideyuki Okano[1]
([1]Department of Physiology, School of Medicine, Keio University, [2]Laboratory for Medical Informatics, Center for Genomic Medicine, RIKEN, [3]Department of Cell Biology and Neuroscience, Graduate School of Medicine, Juntendo University, [4]Division of Regenerative Medicine, Institute for Clinical Research, Osaka National Hospital, National Hospital Organization, 5Department of Neurology, Graduate School of Medicine, Nagoya University, 6Center for iPS Cell Research and Application (CiRA), Kyoto University, 7Department of Pathology, Graduate School of Medicine, Yamaguchi University)

O-7 Characterization of dysgerminoma like tumors arisen in the process of generating common marmoset induced pluripotent stem cells

Saori Yamaguchi[1], Tomotosh Marumoto[1], Takenobu Nii[1], Hirotaka Kawano[1], Liao Jiyuan[1], Yoko Nagai[1], Michiyo Okada[1], Atsushi Takahashi[1], Hiroyuki Inoue[1], Erika Sasaki[2], Shinji Okano[3], Yoshie Miura[1], Kenzaburo Tani[1]
([1]Division of Molecular and Clinical Genetics, Medical Institute of Bioregulation, Kyushu University, [2]Central Institute for Experimental Animals, Keio University, [3]Division of Pathophysiological and Experimental Pathology, Department of Pathology, Kyushu University)

O-8 Molecular functions of the LIM-homeobox transcription factor Lhx2 in hematopoietic stem-like cell differentiation from mouse embryonic stem cells

Kenji Kitajima[1], Manami Kawaguchi[1], Michelina Iacovino[2], Michael Kyba[2], Takahiko Hara[1]
([1]Stem Cell Project, Tokyo Metropolitan Institute of Medical Science, [2]Lillehei Heart Institute and Department of Pediatrics, University of Minnesota)

Coffee Break **16：50～17：05**

Session 4 : Mesenchymal and Tissue Stem Cell **17：05～18：05**

Chair Noriko Gotoh

(Division of Cancer Cell Biology, Cancer Molecular Target Exploration Program Cancer Research Institute, Kanazawa University)

Keynote Lecture on Mesenchymal Stem Cell

Genetically modified stem cell therapy for neurological diseases

Haeyoung Suh-Kim[1,2] and Sung-Soo Kim[3]
([1]Department of Anatomy, [2]NeuroScience Graduate Program, [3]Center for Cell Death Regulating Biodrug, Ajou University, School of Medicine)

O-9 The fate switch of hair follicle stem cells to the epidermis underlies hair follicle aging and baldness

Yasuaki Mohri[1], Nguyen Thanh Binh[1,2], Hiroyuki Matsumura[1], Yuko Tadokoro[2,3], Mayumi Ito[4], Jan Hoeijmakers[5], Emi Nishimura[1,2]
([1]Department of Stem Cell Biology, Medical Research Institute, Tokyo Medical and Dental University, [2]Department of Stem Cell Medicine, Cancer Research Institute, Kanazawa University, [3]Division of Molecular Genetics, Cancer Research Institute, Kanazawa University, [4]Departments of Dermatology and Cell Biology, New York University School of Medicine, [5]Department of Genetics, Cancer Genomics Center)

O-10 Lactic acid bacteria convert human fibroblasts to multipotential cells

Kunimasa Ohta, Rie Kawano, Naofumi Ito
(Kumamoto University)

General Meeting Chief Director Toshio Suda **18:05～18:15**

(Department of Cell Differentiation, Keio University School of Medicine)

Reception (Venue for Poster Presentation) **18:15～20:00**

Saturday, May 18. The Second Day

Session 5 : iPS/ES Cell (2) 9：20～10：20

Chair Hideyuki Okano
(Dept. of Physiology, Keio University School of Medicine)

Keynote Lecture on iPS cells

Differentiation and signaling pathways in human pluripotent stem cells

Yong-Mahn Han, Ph.D.
(Department of Biological Sciences and Center for Stem Cell Differentiation, KAIST)

O-11 Demonstration of iPSCs as a disease model for the preclinical assessment of safe and efficacious vector mediated CGD gene therapy
Huan-Ting Lin, Makoto Otsu, Hiromitsu Nakauchi
(Division of Stem Cell Therapy, Center for Stem Cell Biology and Regenerative Medicine, IMSUT.)

O-12 Analysis of iPS cells derived from Fibrodysplasia ossificans progressiva.
Makoto Hamasaki[1], Yoshinobu Hashizume[2], Yoshinori Yamada[1], Tomohiko Katayama[1], Hirohiko Hohjoh[3], Noemi Fusaki[4], Yasuharu Nakashima[5], Hirokazu Furuya[6], Nobuhiko Haga[7], Yoichiro Takami[1], Takumi Era[1]
([1]Department of Cell Modulation, Institute of Molecular Embryology and Genetics,Kumamoto University, [2]RIKEN Program for Drug Discovery and Medical Technology Platforms. [3]National Institute of Neuroscience, National Center of Neurology and Psychiatry, [4]JST PRESTO and Ophthalmology, Keio University, [5]Department of Orthopaedic Surgery, Kyushu University School of Medicine, [6]Department of Neurology, Neuro-Muscular Center, National Omuta Hospital, [7]Rehabilitation Medicine, Graduate School of Medicine.)

Coffee Break 10：20～10：40

Special Lectures on HSC Microenvironmental Regulation 10：40～11：30

Chair Shigeru Chiba
(Department of Hematology, Faculty of Medicine, University of Tsukuba)

S-2 Oncogenesis in the hematopoietic system: A role for the niche ?

Marc H.G.P. Raaijmakers, M.D., Ph.D.
(Erasmus University Medical Center, Department of Hematology and Erasmus Stem Cell Institute)

S-3 Microenvironmental Regulation of Normal and Malignant Hematopoietic Stem Cells

Il-Hoan Oh, MD, Ph.D
(Catholic High-Performance Cell Therapy Center, The Catholic University of Korea)

Lunch Time 11：30～13：10

Poster Session **13：10～14：10**

Coffee Break **14：10～14：30**

Session 6 : Epigeneticsi in Leukemogenesis **14：30～15：30**

Chair Yoshihiro Takihara
(Department of Stem Cell Biology, Research Institute for Radiation Biology and Medicine, Hiroshima University)

O-13 A novel approach to identify mutations responsible for leukemogenesis based on epigenetic information
Jun Odawara[1,2], Kohta Miyawaki[1], Junichiro Yuda[1], Masayasu Hayashi[1,2], Kazumitsu Maehara[2], Kentaro Kohno[1], Takahiro Shima[1], Masao Nagasaki[3], Yasuyuki Ohkawa[2], Koichi Akashi[1]
([1]Department of Medicine and Biosystemic Sciences, Kyushu University Graduate School of Medicine, [2]Department of Advanced Medical Initiatives, Faculty of Medical Sciences, Kyushu University, [3]Division of Biomedical Information Analysis, Department of Integrative Genomics, Tohoku Medical Megabank Organization, Tohoku University)

O-14 Reduced *Tet2* Function Contributes to Dysregulated Hematopoietic Stem Cells and Subsequent Development of Peripheral T- cell Lymphoma
Hideharu Muto[1], Mamiko Sakata-Yanagimoto[1], Yasuyuki Miyake[1], Terukazu Enami[1], Yuhei Kamada[1], Kazumi Suzukawa[1], Naoya Nakamura[2], Genta Nagae[3], Hiroyuki Aburatani[3], Seishi Ogawa[4], Shigeru Chiba[1]
([1]Department of Hematology, Faculty of Medicine, University of Tsukuba, [2]Department of Pathology, Tokai University School of Medicine, [3]Genome Science Division RCAST- The University of Tokyo, [4]Cancer Genomics Project, Graduate School of Medicine, The University of Tokyo)

O-15 C-terminal-truncating ASXL1 mutations induce MDS via derepression of miR125a and reduced expression of Clec5a/Mdl1
Daichi Inoue, Toshio Kitamura
(Division of Cellular Therapy, Advanced Clinical Research Center, The Institute of Medical Science, The University of Tokyo)

Coffee Break **15：30～15：50**

Session 7 : Cancer Stem Cell **15：50～16：50**

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

O-16 Leukemogenic function of TIM-3, a leukemia stem cell marker, in acute myelogenous leukemia and myelodysplastic syndromes
Yoshikane Kikushige, Takahiro Shima, Junichiro Yuda, Toshihiro Miyamoto, Koichi Akashi
(Department of Medicine and Biosystemic Sciences, Kyushu University)

O-17 Immunological regulation of leukemia-initiating cells in MLL-rearranged leukemia
Naoki Hosen, Jun Nakata, Kana Hasegawa, Hiroko Kinoshita, Katsuhiko Nakano, Yoshihiro Oka, Atsushi Kumanogoh, Haruo Sugiyama
(Osaka University Graduate School of Medicine)

O-18 Innovative microRNA-Based Cellular Reprogramming Medicine for Extermination of Cancer Stem Cells
Masamitsu Konno[1], Hisataka Ogawa[2,3], Tsuyoshi Yamamoto[4], Yuichiro Doki[5], Nobuhiro Nishiyama[6,7], Kazunori Kataoka[8], Satoshi Obika[4], Masaki Mori[5], Hideshi Ishii[1]
([1]Department of Frontier Science for Cancer and Chemotherapy, Osaka University, Graduate School of Medicine, [2]Department of Frontier Science for Cancer and Chemotherapy, [3]Department of Gastroenterological Surgery, Osaka University, Graduate School of Medicine, [4]Bioorganic Chemistry, Graduate School and School of Pharmaceutical Sciences, Osaka University, [5]Department of Gastroenterological Surgery, Osaka University, Graduate School of Medicine, [6]Department of Materials Engineering, University of Tokyo, [7]Department of Chemical Resources Laboratory, Tokyo Institute of Technology, [8]Department of Materials Engineering, University of Tokyo)

Coffee Break **16：50～17：05**

Session 8 : iPS/HSC **17：05～18：05**

Chair Atsushi Hirao
(Kanazawa University,Cancer Research Institute)

O-19 Analysis of familial platelet disorder with disease-specific iPSCs.
Hitomitsu Iizuka, Shunya Arai, Masashi Miyauchi, Kazuki Taoka, Keisuke Kataoka, Masataka Hosoi, Keiki Kumano, Mineo Kurokawa
(Department of Hematology and Oncology, the University of Tokyo)

O-20 A telomere shelterin factor, POT1 supports the maintence of hematopoietic stem cells.
Kentaro Hosokawa, Fumio Arai, Yumiko Gomei, Toshio Suda
(Department of Cell Differentiation, The Sakaguchi Laboratory of Developmental Biology, School of Medicine, Keio University)

O-21 The Role of Long Intergenic Non-Coding RNAs in Hematopoietic Stem Cells
George Wendt, Atsushi Iwama
(Department of Cellular and Molecular Medicine, Graduate School of Medicine, Chiba University)

Closing Remarks **18：05～18：15**

Next Organizer Yoshihiro Takihara
(Department of Stem Cell Biology, Research Institute for Radiation Biology and Medicine, Hiroshima University)

Poster Session

Friday, May 17　　13：10～14：10

P-01 Sox17 protein-mediated maintenance of cells with stem cell phenotype in the hematopoietic cell clusters in the fetal AGM region

Ikuo Nobuhisa[1], Mitsujiro Osawa[2], Mami Uemura[3,4], Yoko Kishikawa[5], Maha Anani[1], Kaho Harada[1], Haruna Takagi[2], Masami Kanai-Azuma[4], Yoshiakira Kanai[3], Atsushi Iwama[2], Tetsuya Taga[1]
([1]Dept. Stem Cell Reg., Med. Res. Inst., Tokyo Med. Dental Univ., [2]Dept. Cellular and Mol. Med., Grad. Sch. Med., Chiba Univ., [3]Dept. Vet. Ana., Grad. Sch. Agri. and Life Sci., Univ. of Tokyo, [4]Dept. Exp Ani. Mod. for Hum. Dis., Cent. For Exp. Animal., Tokyo Med. Dent. Univ., [5]Dept. Cell Fate Mod., IMEG, Kumamoto Univ.)

P-02 The Role of Eset in Hematopoietic Stem Cell

Shuhei Koide[1], Satoru Miyagi[1], George Wendt[1], Motohiko Oshima[2], Atsushi Iwama[1]
([1]Department of Cellular and Molecular Medicine, Graduate School of Medicine, Chiba University, [2]Department of Cellular and Molecular Medicine, Graduate School of Medicine, Chiba University / JST, CREST)

P-03 TPO/cMpl-dependent differentiation pathway for megakaryocytes at the proximity of hematopoietic stem cells.

Hidekazu Nishikii, Kenji Matsuhita, Yosuke Kanazawa, Terumasa Umemoto, Yu Matsuzaki, Takayasu Kato, Mamiko Sakata-Yanagimoto, Masayuki Yamato and Shigeru Chiba.
(Department of Hematology, Faculty of Medicine, Graduate School of Comprehensive Human Sciences, University of Tsukuba)

P-04 Differentiation of mast cells from induced pluripotent stem cells

Tomoko Yamaguchi[1], Katsuhisa Tashiro[1], Satoshi Tanaka[2], Hiroyuki Mizuguchi[3], Kenji Kawabata[1]
([1]National Institute of Biomedical Innovation, [2]Okayama University Graduate School, [3]Osaka University)

P-05 Development of a highly efficient method for isolating bone-derived small stem cells identified in adult mouse bone

Ryusuke Nakatsuka, Ryuji Iwaki, Yoshikazu Matsuoka, Masaya Takahashi, Tatsuya Fujioka, Yutaka Sasaki, Yoshiaki Sonoda
(Department of Stem Cell Biology and Regenerative Medicine, Graduate School of Medical Science, Kansai Medical University)

P-06 Functional Restoration of Aged Stem Cells by Regulating Their Competence

Hayato Naka-Kaneda[1], Michiko Ohno-Oishi[1], Yo Mabuchi[2], Shiho Nakamura[1]
([1]RIKEN, [2]Tokyo Medical and Dental University)

P-07 LNGFR+Thy-1+CD106high+ cells reveal functionally distinct subpopulations in mesenchymal stem cells

Yo Mabuchi[1,2], Chihiro Akazawa[1], Hideyuki Okano[2], Yumi Matsuzaki[2]
([1]Department of Biochemistry and Biophysics, Graduate School of Health Care Sciences, Tokyo Medical and Dental University, [2]Department of Physiology, Keio University School of Medicine)

P-08 Igf2 accelerates mesenchymal cell activity in the mouse yolk sac

Tomoko Inoue[1,2], Chiyo Mizuochi[1], Kasem Kulkeaw[1], Keai Sinn Tan[1], Sarinthip Preedagasamzin[1], Yuka Tanaka[1], Daisuke Sugiyama[1]

([1]Center for Clinical and Translational Research Kyushu University Hospital, [2]Department of Medicine and Biosystemic Science, Kyushu University, Graduate School of Medical Sciences)

P-09 Inhibition of VEGF-C induces the expression of FLT 3 in IL-1-beta-stimulated adult human dermal fibroblasts

Takuji Matsuo, Ryosuke Shirasaki, Yoko Oka, Naoki Shirafuji
(Teikyo University School of Medicine)

P-10 A novel 3D imaging technique reveals dynamic behavior of the biliary tree and liver progenitor cells in regenerating mouse livers

Tohru Itoh, Kota Kaneko, Atsushi Miyajima
(Institute of Molecular and Cellular Biosciences, The University of Tokyo)

P-11 Immunogenicity of induced pluripotent stem cells assessed in the setting of porcine syngeneic transplantation

Yoshihisa Mizukami[1], Tomoyuki Abe[1], Hiroaki Shibata[2], Shuh-hei Fujishiro[1], Shuji Hishikawa[3], Eiji Kobayashi[3], Yutaka Hanazono[1,4]
([1]Division of Regenerative Medicine, Jichi Medical University, [2]Tsukuba Primate Research Center, National Institute of Biomedical Innovation, [3]CDAMTec, Jichi Medical University, [4] JST, CREST)

P-12 Fas signaling via 3-*O*-sulfated heparan sulfate is required for the differentiation of mouse embryonic stem cells

Kazumi Hirano[1], Norihiko Sasaki[1], Toin van Kuppevelt[2], Shoko Nishihara[1]
([1]Faculty of Engineering, Soka University, [2]Nijmegen Center for Molecular Life Sciences, Radboud University Nijmegen Medical Centre)

P-13 Identification of The CXCL14 Receptor: CXCL14 is a Natural Inhibitor of The CXCL12/CXCR4 Axis

Kosuke Tanegashima[1], Kenji Suzuki[1], Takashi Nagasawa[2], Takahiko Hara[1]
([1]Stem cell project group, Tokyo Metropolitan Institute of Medical Science, [2]Department of Immunobiology and Hematology, Institute of Frontier Medical Sciences, Kyoto University)

P-14 Molecular Characterization of Human Germ Cell and A Trial toward *In Vitro* Germ Cell Differentiation from Human iPSCs.

Ryusuke Nakajima, Masanori Imamura, Zachary Yu-Ching Lin, Rie Yamadera, Yuji Takehara, and Hideyuki Okano
(Department of Physiology, School of Medicine, Keio University)

P-15 Molecular characterization of proliferative germ-like cells and oocyte-like cells derived from pluripotent stem cells in vitro

Masanori Imamura[1], Mai Nitta[2,3], Rieko Ikeda[4], Keiichiro Yogo[5], Noritaka Fukunaga[6], Eimei Sato[6], Tatsuo Takeya[2], Jun Miyoshi[3], Takashi Shinohara[7], Yasuhisa Matsui[6], Kuniya Abe[4], Shinya Yamanaka[7], Toshiaki Noce[1], and Hideyuki Okano[1]
([1]Department of Physiology, School of Medicine, Keio University; [2]Nara Institute of Science and Technology; [3]Osaka Medical Center for Cancer and Cardiovascular Diseases; [4]RIKEN BioResource Center; [5]Shizuoka University; [6]Tohoku University; [7]Kyoto University)

P-16 Molecular Characterization and Culture of Testicular Germ Cells in A New-World Monkey Common Marmoset Callithrix Jacchus

Zachary YC Lin[1], Masanori Imamura[1], Takamasa Hirano[2], Eiji Matsunaga[3], Miki Taoka[3], Hiroo Imai[4], Hirotaka James Okano[1], Atsushi Iriki[3], Mikiko C Siomi[5], Haruhiko Siomi[2], Erika Sasaki[6], Hideyuki Okano[1]
([1]Physiology Department, Keio University, [2]Molecular Biology Department, Keio University, [3]RIKEN BSI, [4]Primate research Institute, Kyoto university, [5]Biochemistry Department, Tokyo university, [6]CIEA)

P-17 Phylogenic diversity of DNA methylation status in mammalian germline

Orie Hikabe[1], Masanori Imamura[1], Ikuo Tomioka[2], Zachary Yu-Ching Lin[1], Ryusuke Nakajima[1], Arata Honda[3], Ayako Isotani[4], Masaru Okabe[4], Atsuo Ogura[3], Erika Sasaki[2], Hideyuki Okano[1]
([1]Dept. of Physiol., School of Med., [2]Keio Univ., CIEA, [3]Riken BRC, [4]Genome Information Research Center, Osaka Univ.)

P-18 5-methylcytosine hydroxylase TET3 endows mid-gestational neural stem cells with the astrogliogenic competence

Norihisa Bizen[1], Tetsushi Kagawa[1], Toshinobu Nakamura[2], Toru Nakano[3], Tetsuya Taga[1]
([1]Department of Stem Cell Regulation, Medical Research Institute, Tokyo Medical and Dental University, [2]Department of Animal Bio-Science, Nagahama Institute of Bio-Science and Technology, [3]Department of Pathology, Graduate School of Medicine and Frontier Biosciences, Osaka University)

P-19 Deficiency of DGCR8 gene, a candidate gene for 22q11.2 deletion-associated schizophrenia, decreases cell proliferation and neurogenesis in the adult mouse dentate gyrus

Yasuo Ouchi[1], Yuya Banno[1], Yuko Shimizu[1], Shouta Ando[1], Koichi Adachi[2], Takashi Iwamoto[1]
([1]Department of Biomedical Sciences, Chubu University, [2]Radioisotope Research Center Medical Division, Nagoya University Graduate School of Medicine)

P-20 Notch3 null mutation in mice causes muscle hyperplasia by repetitive muscle regeneration

Takeo Kitamoto, Kazunori Hanaoka
(Kitasato University School of Science)

P-21 Anti-apoptotic molecule Anamorsin is crucial for stromal function to support embryonic hematopoiesis

Akira Tanimura, Yuri Hamanaka, Hirohiko Shibayama, Yuzuru Kanakura
(Department of Hematology and Oncology, Osaka University Graduate School of Medicine)

Poster Session

Saturday, May 18　　13：10～14：10

P-22 Analysis of endothelial niche cells in fetal spleen erythropoiesis
Keai Sinn Tan[1], Tomoko Inoue[2], Wai Feng Lim[3], Chiyo Mizuochi[4], Kasem Kulkeaw[4], Sarinthip Preedagasamzin[4], Yuka Tanaka[4], Mei I Lai[5], Daisuke Sugiyama[4]
([1]Center for Clinical and Translational Research Kyushu University Hospital / Department of Pathology, Faculty of Medicine and Health Sciences, Universiti Putra Malaysia, [2]Center for Clinical and Translational Research Kyushu University Hospital / Department of Medicine and Biosytemic Science, Kyushu University, Graduate School of Medical Sciences, [3]Center for Clinical and Translational Research Kyushu University Hospita, [4]Center for Clinical and Translational Research Kyushu University Hospital, [5]Department of Pathology, Faculty of Medicine and Health Sciences, Universiti Putra Malaysia)

P-23 mTORC1 is essential for propagation of earliest T lineage-committed cell in normal lymphopoiesis and leukemogenesis.
Takayuki Hoshii, Kasada Atsurou, Atsushi Hirao
(Cancer Research Institute, Kanazawa University)

P-24 Generation and analysis of a novel model for chronic myelomonocytic leukemia (CMML) with acquired expression of c-CBL Q367P
Yuichiro Nakata[1], Takeshi Ueda[1], Norimasa Yamasaki[1], Akiko Nagamachi[2], Keiyo Takubo[3],Yasuhiro Ebihara[4], Masashi Sanada[5], Seishi Ogawa[5], Koichiro Tsuji[4], Toshio Suda[3], Toshiya Inaba[2] and Hiroaki Honda[1]
([1]Department of Disease Model, Research Institute for Radiation Biology and Medicine,Hiroshima University, [2]Department of Molecular Oncology, Research Institute for Radiation Biology and Medicine,Hiroshima University, [3]Departmentt of Cell Differentiation, Keio University, [4]Department of Pediatric Hematology/Oncology, The Institute of Medical Science, TheUniversity of Tokyo, [5]Cancer Genomics Project, The University of Tokyo)

P-25 E2F-mediated transcriptional activation of the Geminin gene is under the regulation of a negative-feedback loop
Yoshinori Ohno[1], Keita Saeki[1], Shin'ichiro Yasunaga[1], Manabu Shirai[2], Toshiaki Kurogi[1], Yoshie Nakashima[1], Motoki Ohtsubo[3], Yoshihiro Takihara[1]
([1]Dept. Stem Cell Biol., RIRBM, Hiroshima Univ., [2]Dept. Biosci. Genetics., NCVC Res. Inst., [3]Dept. Food and Fermentation Science., Beppu Univ.)

P-26Hes1 is responsible for Notch signaling-mediated suppression of acute myeloid leukemia development
Takayasu Kato, Mamiko Sakata-Yanagimoto, Yasuyuki Miyake, Hidekazu Nishikii, Hideharu Muto, Yasuhisa Yokoyama, Naoshi Obara, Kazumi Suzukawa and Shigeru Chiba
(Department Hematology, University of Tsukuba)

P-27 The roles of Hes1 in the myeloid leukemogenesis
Tomoyuki Uchida[1], Jiro Kitaura[1], Daichi Inoue[1], Katsuhiro Togami[1], Kimihito Kawabata[1], Toshihiko Oki[1], Fumio Nakahara[1], Akiko Sada[2], Yoshio Katayama[2], Toshimitsu Matsui[3], Yuka Harada[4], Hironori Harada[4], Toshio Kitamura[1]

([1]Division of Cellular Therapy, Advanced Clinical Research Center, The Institute of Medical Science, The University of Tokyo, [2]Department of Hematology, Kobe University, [3]Department of Hematology, Ono Municipal Hospital, [4]Department of Hematology and Oncology, Resarch Institute for Radiation Biology and Medicine, Hiroshima University)

P-28 Constitutive NF-kB activation maintained by autocrine TNF-a signaling and active proteasome system supports leukemia stem cell capacity
Yuki Kagoya, Akihide Yoshimi, Keisuke Kataoka, Masahiro Nakagawa, Keiki Kumano, Shunya Arai, Mineo Kurokawa
(Department of Hematology & Oncology, Graduate School of Medicine, The University of Tokyo)

P-29 Integrin A6 as a special marker of refractory leukemia is important for maintaining of leukemia stem cells.
Kazuko Kaneda, Kazuhiro Morishita
(Division of Tumor and Cellular Biochemistry,Department of medical Sciences,Faculty of Medicine, University of Miyazaki)

P-30 Novel Humanized Anti-CD33 Antibody with Enhanced Cytotoxic Functions for the Treatment of Acute Myeloid Leukemia
Takuya Murakami, Tomoaki Nakagawa, Tomonori Tawara, Tsuguo Kubota, Uichi Nishiyama, Masao Asada, Miki Murai, Sayaka Hori-Inada, Yukiko Shimizu, Yoshimasa Inagaki, Mitsuo Satoh, Kenya Shitara, Tomoyuki Tahara, Rinpei Niwa
(Research Division, Kyowa Hakko Kirin Company, Limited)

P-31 Induced Pluripotent Stem Cell Reprogramming For Innovative Cell-Modifying Technology in Cancer
Koichi Kawamoto[1], Hideshi Ishii[2], Masamitsu Konno[2], Hisataka Ogawa[1.2], Hidetoshi Eguchi[1], Masahiro Tanemura[1.3], Hiroaki Nagano[1], Yuichiro Doki[1], Masaki Mori[1]
([1]Department of Gastrointestinal Surgery, Osaka University Graduate Schoolof Medicine, [2]Department of Frontier Science for Cancer and Chemotherapy, OsakaUniversity Graduate School of Medicine, [3] Department of Surgery and Institute for Clinical Research, NationalHospital Organization Kure Medical Center)

P-32 Identification of an ES-specific gene Zfp57 as a novel oncogene
Hiroshi Koide[1], Yuhki Tada[1], Yukari Yamaguchi[2], Hiroyuki Takamura[2], Tadayuki Akagi[1], Tetsuo Ohta[2], Takashi Yokota[1]
([1]Department of Stem Cell Biology, and [2]Department of Gastroenterological Surgery, Graduate School of Medical Sciences, Kanazawa University)

P-33 Polymer-based identification of niche elements for C6 glioma cancer stem cells
Kouichi Tabu, Norihisa Bizen, Tetsuya Taga
(Department of Stem Cell Regulation, Medical Research Institute, Tokyo Medical & Dental University)

P-34 New treatment target gene focusing on GBM stem cells and stem cell niches
Takuichiro Hide, Shigeo Anai, Jun-ichiro Kuroda, Naoki Shinojima, Keishi Makino, Hideo Nakamura, Shigetoshi Yano, Jun-ichi Kuratsu
(Department of Neurosurgery, Kumamoto University Medical School)

P-35 ADAM17 mediates cancer stem cell phenotype in MCF-7 cells
Naoya Hirata, Shigeru Yamada, Yuko Sekino, Yasunari Kanda
(Div. Pharmacol., NIHS)

P-36 GDF15 promotes mammosphere formation in breast cancer

Kana Tominaga[1], Kunihiko Hinohara[1], Teppei Shimamura[2], Satoru Miyano[2], Arinobu Tojo[3], Noriko Gotoh[1]
([1]Division of Molecular therapy, Molecular targets laboratory, Institute of Medical Science, University of Tokyo, [2]Human Genome Center, Institute of Medical Science, University of Tokyo, [3]Division of Molecular Therapy, Advanced Clinical Research Center, Institute of Medical Science, University of Tokyo)

P-37 A PI3K-dependent gene expression program that regulates mammosphere formation of breast cancer cells.

Kunihiko Hinohara[1], Teppei Shimamura[2], Hiroaki Fukuda[1], Kana Tominaga[1], Hajime Kanauchi[3], Atsushi Niida[2], Keiichiro Tada[4], Eiichi Tuji[4], Kotoe Nishioka[4], Masaki Mori[5], Toshihisa Ogawa[4], Satoru Miyano[2], Noriko Gotoh[1]
([1]Div. Mol. Therapy, IMS, Univ. Tokyo, [2]Lab. DNA Inform. Analysis, IMS, Univ. Tokyo, [3]Dept. Breast. Endo. Surg., Showa Gen. Hosp., [4]Dept. Breast. Endo. Surg., Grad. Sch. Med., Univ. Tokyo, [5]Dept. Gasro. Surg., Grad. Sch. Med., Osaka Univ.)

P-38 Growth factor receptor signaling controls breast cancer stem cells and their niche

Yukino Machida[1], Daisuke Iejima[1], Anna Mizutani[1], Reiko Sakamoto[2], Yusuke Inoue[3], Nobutaka Kobayashi[4], Naoki Itano[4], Nobuaki Yoshida[2], Noriko Gotoh[1]
([1]Division of Molecular Therapy, Institute of Medical Science, University of Tokyo, [2]Division of Developmental Engineering, Institute of Medical Science, University of Tokyo, [3]Department of Diagnostic Radiology, Kitasato University School of Medicine, [4]Medical Department, Shinsyu University)

P-39 Amphiregulin/EGFR pathway contributes to mammosphere formation in human breast cancer

Hiroaki Fukuda[1,2], Kunihiko Hinohara[1], Teppei Shimamura[3], Toshiki Watanabe[2], Satoru Miyano[3], Noriko Gotoh[1]
([1]Div. of Mol. Therapy, Inst. of Med. Sci., Univ. of Tokyo, [2]Depart. of Med. Gen. Sci., Graduate School of Front. Sci., Univ. of Tokyo, [3]Lab. of DNA Info. Anal., Inst. of Med. Sci., Univ. of Tokyo)

P-40 MTHFD2, an enzyme in a folate-metabolism, is a key molecule in EGF receptor tyrosine kinase and regulates lung cancer cell growth.

Tatsunori Nishimura, Asuka Nakata, Arinobu Tojo, Noriko Gotoh
(University of Tokyo)

P-41 Novel molecular mechanisms of acquired resistance to gefitinib in Non-small cell lung cancer

Asuka Nakata[1], Ryo Yoshida[2], Rui Yamaguchi[1], Mai Yamauchi[1], Ikuyo Yoshino[1], Yoshinori Tamada[1], Andre Fujita[1], Adi F Gazdar[3], Teppei Shimamura[1], Seiya Imoto[1], Tomoyuki Higuchi[2], Masaharu Nomura[4], Satoru Miyano[1], Noriko Gotoh[1]
([1]Institute of Medical Science, The University of Tokyo, [2]Institute of Statistical Mathematics, [3]University of Texas, [4]Tokyo Medical University)

参加者へのご案内とお願い

1. 参加登録について

1-1. 受付場所：東京大学 伊藤国際学術研究センターB2 伊藤謝恩ホール
（〒113-0033 東京都文京区本郷 7-3-1）

1-2. 受付時間：5 月 17 日（金） 9 時 00 分から

1-3. 参加費：5,000 円

2. 発表について

2-1. 発表形式

・PowerPoint を用いて作成したデータを、リモートプレゼンシステム（演台上に設置されたマウスまたはキーボードを操作するシステム）を用いての発表となります。（スライドは使用できません。）

2-2. データ受付

1）ファイル名は「演題番号演者名.ppt」としてください。必ずバックアップ用のデータも、お持ちくださるようお願い致します。

2）ご講演の一つ前のセッション開始までに、必ず PC 受付にて試写を終えて頂きますようお願い致します。

3）PC 受付では、PC 本体（Windows または Macintosh）あるいは、メディア（CD-R または USB メモリー）で受付させて頂きます。

4）メディア持ち込みの場合、受付したデータは発表用 PC にインストールします。発表用 PC の OS は Windows XP、Vista、Windows7 で、アプリケーションは PowerPoint 2000～2010 です。発表後のデータは、シンポジウム終了後に事務局で削除致します。

5）PC 本体持ち込みの場合、Windows、Macintosh 両方共に可能です。

・外部モニター接続端子（MiniD-sub15 ピン）を確認の上、コネクタを必要とする場合は必ず持参ください。AC アダプターは忘れないようお願い致します。

・予め、スクリーンセイバーならびに省電力設定は【なし】にしてください。

・PC 本体持込の場合でも、CD-R・USB メモリーに保存したバックアップデータをご用意ください。

6) 動画のある方やアニメーション効果を多用される場合は、ご自身の PC をご持参ください。

3. ポスターセッションについて

3-1. ポスター会場

・多目的スペース

3-2. ポスター貼付

・5 月 17 日（金）9 時から

・通知されたポスター番号に従い、掲示をお願い致します。

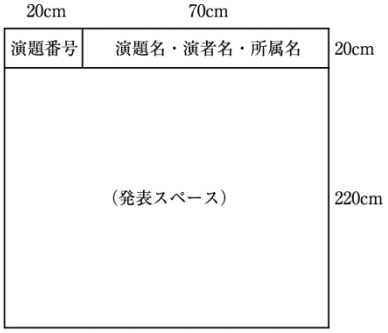
3-3. ポスター発表

・ポスターは 2 日間同一ポスターの貼付となります。

・演題番号 P-1～P-21 は 17 日（金）の発表、P-22～P-41 は 18 日（土）の発表となります。

3-4. 貼付パネル

・パネルの大きさは全体で縦 240cm×横 90cm です。



（演題番号は事務局準備）

・演題名・演者名・所属名は縦 20cm×横 70cm、本文は縦 220cm×横 90cm になっております。

3-5. ポスター撤去

・5 月 18 日（金）14 時 30 分から 17 時 00 分まで

・ポスターの撤去は各位の責任で行ってください。時間内に撤去されないポスターは事務局にて処分させていただきますので、予めご了承ください。

4. 問合せ先

第 11 回幹細胞シンポジウム 事務局　久保田美和子
（筑波大学医学医療系血液内科）
e-mail：m-kubota@md.tsukuba.ac.jp
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Registration Hours and PC/Data Registration

Registration Hours : May 17（Fri） 9：00am -
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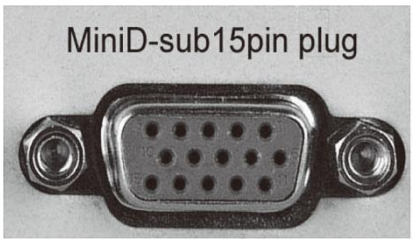
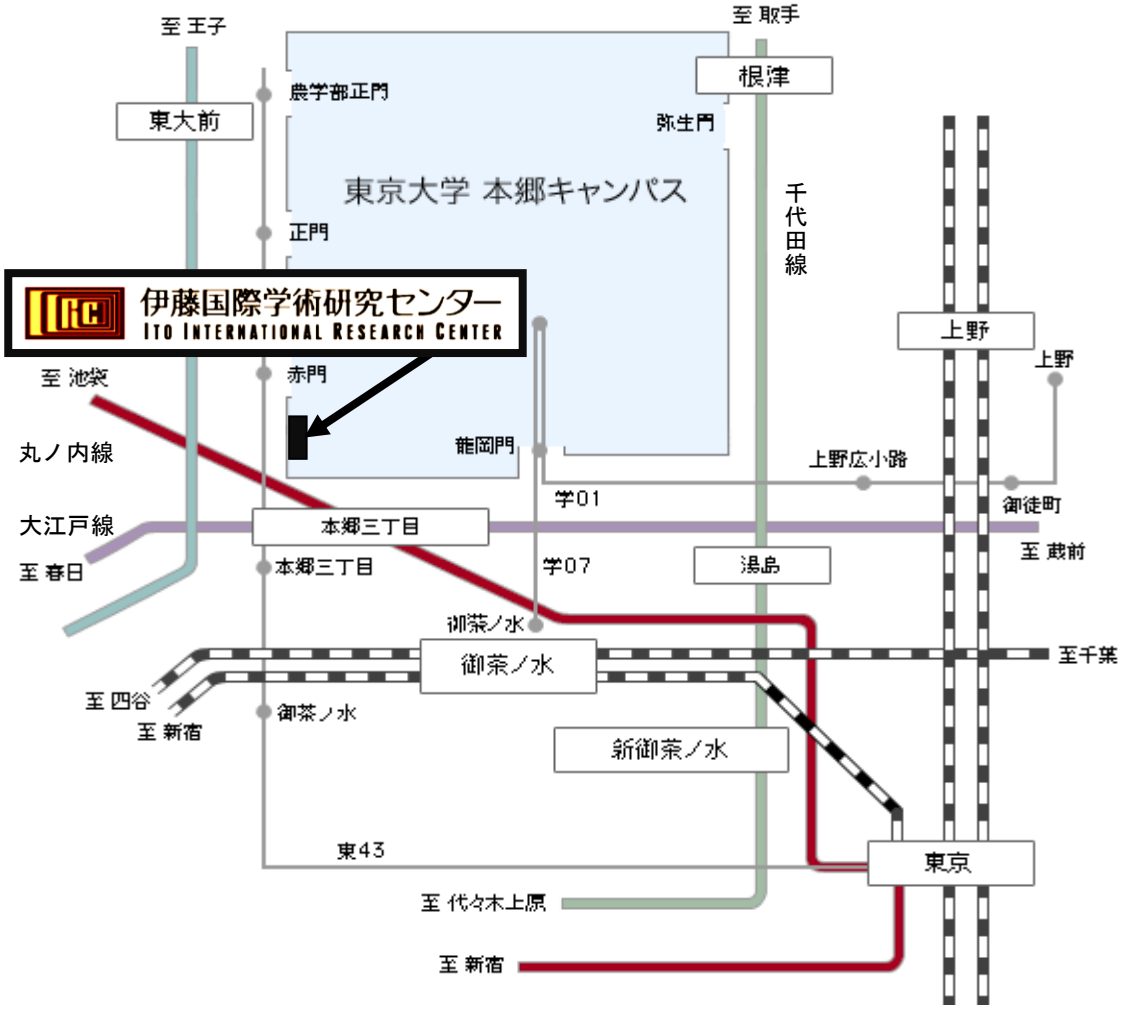
PC/Data Registration :

1. Please check your presentation date and time, and bring your PC/Data to the PC desk next to the registration desk at least one session prior to your scheduled lecture.
2. Please bring backup of your presentation data (USB flash memory). Only the software “PowerPoint” is allowed.
3. Please check your PC’s “MiniDsub-15 pin”. If your PC doesn’t have pins, please bring a converting adaptor. ** MiniDsub-15 pin is a junction part of a cable which connects your PC with a projector.
4. If you prefer to bring your own PC for the presentation, please do not fail to bring your AC adapter.



交通アクセス・周辺図



伊藤国際学術研究センター
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●地下鉄　丸ノ内線　本郷三丁目駅　徒歩8分
●地下鉄　大江戸線　本郷三丁目駅　徒歩6分
●地下鉄　千代田線　湯島駅または根津駅　徒歩15分
●バス　東京駅丸の内北口・・・「東43荒川土手操車所前」行・・・東大赤門前下車
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