

Poster Session

P-01 Age-dependent decrease in requirement for glycolysis in hematopoietic stem cells

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Takayuki Morikawa, Keiyo Takubo
(National Center for Global Health and Medicine, Division of Stem Cell Biology)

P-02 A system for construction and observation of mosaic mammary gland towards exploration of the hypothetical cell competition between irradiated and non-irradiated cells

Tatsuhiko Imaoka, Yukiko Nishimura, Ken-ichi Kudo, Mayumi Nishimura,
Kazuhiro Daino, Daisuke Iizuka, Mari Ogawa, Misuzu Fujita,
Shizuko Kakinuma
(QST)

P-03 Low dose-rate irradiation preferentially affects hematopoietic stem cell activity

Yoshinori Ohno¹, Kyoko Suzuki-Takedachi¹, Yun Guo², Masamoto Kanno²,
Naoto Shirasu³, Shin'ichiro Yasunaga³, Motoaki Ohtsubo⁴,
Yoshihiro Takihara^{1,5}
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P-04 Elucidation of a mechanism regulating the expansion-to-neurogenic transition in neocortical neural progenitor cells

Naohiro Kuwayama, Yusuke Kishi, Yurie Nishiumi, Yukiko Gotoh
(The university of Tokyo)

P-05 Identification and characterization of embryonic origin of adult subventricular neural stem cells

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P-06 Transcriptional profiling of aged intestinal stem cells, progenitor cells and the stem cell niche

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P-07 Acute gut inflammation orchestrates early hematopoiesis via innate immune signaling

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P-08 Investigation of niche signals for the maintenance of embryonic origin of adult neural stem cells

Yuwen Ding, Daichi Kawaguchi, Yukiko Gotoh
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P-09 Spatiotemporal patterning of epithelial Sox2 and Gata4 orchestrates the formation of a squamous-columnar junction in a mouse stomach

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P-10 Hoxa10 regulates adult muscle regeneration in a body-region-specific manner

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Yoshifumi Tsuchiya¹, Shizuka Ogawa³, Narihiro Okazaki³,
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P-11 Autophagy-Independent Neonatal Hematopoiesis

Michihiro Hashimoto¹, Terumasa Umemoto¹, Tomomasa Yokomizo¹,
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P-12 Trim28 participates in neuro-gliogenic potential change of neural stem cells

Takumi Nakagawa
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P-13 p53 Deficiency in Mesenchymal Stem Cells Alters Stress Hematopoiesis and Develops Fibrosarcoma

Yuriko Sorimachi^{1,2}, Nobuhito Goda², Keiyo Takubo¹
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P-14 Activation of Keap1-Nrf2 pathway in HSCs during aging

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P-15 Identifying a new stem/progenitor like population of vascular resident endothelial cells

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Nobuyuki Takakura¹
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- P-16 Low energy metabolism contributes to the maintenance of hematopoietic stem cells**
Terumasa Umemoto¹, Michihiro Hashimoto¹, Toshio Suda^{1,2}
 (¹IRCMS, Kumamoto University, ²CSI, National University of Singapore)
- P-17 Regular division and stochastic state switch of Plvap+ spermatogenic stem cells in homeostasis**
Toshinori Nakagawa
 (National Institute for Basic Biology)
- P-18 Induction of vascular endothelial cells from feeder free iPS cells using 3D suspension culture**
Shinako Masuda, Katsuhisa Matsuura, Tatsuya Shimizu
 (Institute of Advanced Biomedical Engineering and Science Tokyo Women's Medical University)
- P-19 Characterization of the progenitor cell state during ESC-to-trophoblast differentiation**
Masatoshi Ohgushi
 (Institute for Frontier Life and Medical Bioscience, Kyoto University)
- P-20 Cell type-specific one-step in vivo sarcoma model unveiled cell-of-origin and its critical role in *EWS/ATF1*-induced sarcomas**
Kenji Ito¹, Shingo Komura², Yasuhiro Yamada¹
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- P-21 Establishment of primitive endoderm like cells from human naïve pluripotent stem cells**
Takumi Okubo, Yasuhiro Takashima
 (Department of Life Science Frontiers, Center for iPS Cell Research and Application, Kyoto University)
- P-22 Hypoxia induces the dormant state in oocytes through expression of Foxo3**
So Shimamoto, Yohei Nishimura, Go Nagamatsu, Norio Hamada, Haruka Kita, Orié Hikabe, Nobuhiko Hamazaki, Katsuhiko Hayashi
 (Department of Stem Cell Biology and Medicine, Graduate School of Medical Sciences, Kyushu University)
- P-23 Role of PCGF factors during ES cell differentiation**
Hiroki Sugishita^{1,2}, Shinsuke Ito¹, Takashi Kondo¹, Haruhiko Koseki^{1,2}
 (¹RIKEN IMS, Laboratory for Developmental Genetics, ²Chiba University, Graduate School of Medicine)
- P-24 Hsa-miR-302s are essential for self-renew of human pluripotent stem cells**
Tohru Sugawara, Hidenori Akutsu, Akihiro Umezawa
 (National Center for Child Health and Development)
- P-25 Transcriptional regulatory networks controlling the oocyte identity**
Nobuhiko Hamazaki, So Shimamoto, Orié Hikabe, Norio Hamada, Katsuhiko Hayashi
 (Department of Developmental Stem Cell Biology, Faculty of Medical Sciences, Kyushu University, Japan)

- P-26 Cell-Matrix Adhesion Modulates Pluripotent Stem Cell Differentiation toward Hematopoietic Cells**
Akinori Yuzuriha¹, Naoshi Sugimoto¹, Sou Nakamura¹, Koji Eto^{1,2}
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- P-27 Autoschizis-like spontaneous necrosis mediates a self-expanding strategy of glioma stem cells by modulating tumor-associated macrophages**
Kouichi Tabu¹, Wenyu Liu¹, Takuichiro Hide², Tetsuya Taga¹
(¹Department of Stem Cell Regulation, Medical Research Institute, Tokyo Medical and Dental University (TMDU), ²Department of Neurosurgery, Graduate School of Medical Sciences, Kumamoto University)
- P-28 Enhanced erythropoiesis in bone marrow of C6 glioma-bearing mice**
Alapati Aimaitijiang, Kouichi Tabu, Wenqian Wang, Ikuo Nobuhisa, Tetsuya Taga
(Department of Stem Cell Regulation, Medical Research Institute, Tokyo Medical and Dental University (TMDU))
- P-29 Activated pentose phosphate pathway mediated by Fbp1 upregulation supports leukemia initiation of AML with high Ev1 expression**
Hideaki Mizuno, Yuki Kagoya, Junji Koya, Yosuke Masamoto, Mineo Kurokawa
(Graduate School of Medicine, The University of Tokyo)
- P-30 MCM10 maintains breast cancer stem-like cells by promoting the response to DNA replicative stress**
Takahiko Murayama¹, Toyooki Natsume², Tatsunori Nishimura¹, Yutaka Suzuki³, Sumio Sugano³, Masato Kanemaki², Arinobu Tojo⁴, Noriko Gotoh¹
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- P-31 Identification of BCAAs metabolism pathway as a common machinery for maintaining the stemness of human colorectal cancer**
Fumiyasu Hanamura¹, Yoshikane Kikushige¹, Eishi Baba², Koichi Akashi¹
(¹Department of Medicine and Biosystemic Sciences, Kyushu University Graduate School of Medical Sciences, ²Department of Comprehensive Clinical Oncology, Faculty of Medical Sciences, Kyushu University)
- P-32 p57 identifies quiescent stem cells in normal and neoplastic intestinal epithelia: towards development of an eradicated cancer therapy**
Takeru Oka, Tsunaki Higa, Yasutaka Okita, Keiichi I. Nakayama
(Department of Molecular and Cellular Biology, Medical Institute of Bioregulation, Kyushu University)
- P-33 Identification of critical downstream molecules of FOXO for targeting leukemic stem cells**
Masaya Ueno^{1,2}, Yusuke Takase¹, Kenta Kurayoshi¹, Atsushi Hirao^{1,2}
(¹Cancer Research Institute, Kanazawa University, ²WPI Nano Life Science Institute, Kanazawa University)

- P-34 MOZ is critical for leukemic cell proliferation and immortalization through repression of p16Ink4a gene**
Takuo Katsumoto¹, Atsushi Iwama², Issay Kitabayashi¹
 (¹Division of Hematological Malignancy, National Cancer Center, Research Institute, ²Division of Stem Cell and Molecular Medicine, Center for Stem Cell Biology and Regenerative Medicine, Institute of Medical Science, University of Tokyo)
- P-35 Glioma stem like cells can be targeted in Boron Neutron Capture Therapy with boronophenylalanine**
Natsuko Kondo¹, Masaki Hikida², Mitsutoshi Nakada³, Yoshinori Sakurai¹, Minoru Suzuki¹
 (¹Institute for Integrated Radiation and Nuclear Science, Kyoto University, ²Department of Life Science, Akita university, ³Department of Neurosurgery, Kanazawa university)
- P-36 Incomplete rejuvenation of aged HSCs in young bone marrow niche**
Wakako Kuribayashi^{1,2}, Motohiko Oshima², Atsushi Iwama²
 (¹Chiba University, ²The Institute of Medical Science, Tokyo University)
- P-37 CD244 is a sensitive marker to represent functional retardation of HSCs after in vitro culture**
Shuhei Koide^{1,2}, Valgardur Sigurdsson¹, Visnja Radulovic¹, Mark Garde¹, Stefan Lang³, Kenichi Miharada¹
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- P-38 Identification and local manipulation of bone marrow vasculature during in vivo intravital imaging**
Takayuki Morikawa, Keiyo Takubo
 (Department of Stem Cell Biology, Research Institute, National Center for Global Health and Medicine)
- P-39 Radiation response of mammary stem and progenitor cells of Sprague-Dawley rats as a potential target of radiation-induced carcinogenesis**
Ken-ichi Kudo¹, Yukiko Nishimura¹, Masaru Takabatake¹, Kazuhiro Daino¹, Ayaka Hosoki², Mayumi Nishimura¹, Shizuko Kakinuma¹, Tatsuhiko Imaoka¹
 (¹Department of Radiation Effects Research, National Institute of Radiological Sciences, National Institutes for Quantum and Radiological Science and Technology, ²Fukushima Project Headquarters, National Institute of Radiological Sciences)
- P-40 Allelic inactivation of Tets is responsible for leukemic transformation in mice already losing Tet functions in multiple alleles**
Mamiko Sakata-Yanagimoto¹, Shrestha Raksha¹, Koichiro Maie¹, Motohiko Oshima², Yaeko Nakajima-Takagi², Hiroataka Matsui³, Takayasu Kato¹, Hideharu Muto¹, Enguerran Mouly⁴, Olivier A. Bernard⁴, Haruhiko Koseki⁵, Atsushi Iwama², Shigeru Chiba¹
 (¹University of Tsukuba, ²the University of Tokyo, ³Kumamoto University, ⁴INSERM U1170, ⁵RIKEN Research Center for Allergy and Immunology)
- P-41 Investigation of the mechanisms of delayed aging and cancer resistance in the longest-lived rodent, the naked mole-rat**
Kyoko Miura
 (Kumamoto University, Faculty of Life Sciences)

- P-42 Functional requirement of Ovol genes for lineage specification of mouse PGCs**
Yuki Naito¹, Go Nagamatsu¹, Nobuhiko Hamazaki¹, Makoto Hayashi²,
Yuko Shinozuka², Satoru Kobayashi², Katsuhiko Hayashi¹
(¹Kyushu University, ²Tsukuba University)
- P-43 Identification of the early progenitor cell for the cardiac conduction system**
Akane Sakaguchi¹, Hiroki Kokubo², Rieko Ajima³, Yumiko Saga³
(¹BDR, Laboratory for Heart Regeneration, ²Hiroshima university, ³NIG)
- P-44 Functional analysis of MeCP2, the Rett syndrome responsible factor, mediated by microRNA in neural stem cells fate specification**
Hideyuki Nakashima¹, Keita Tsujimura², Koichiro Irie³, Takuya Imamura¹,
Kinichi Nakashima¹
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Graduate School of Medicine, ³Faculty of Education and Integrated Arts and
Sciences, Waseda University)
- P-45 Germ cell specific generation of Mga variant that may facilitate meiotic process**
Yuka Kitamura, Kousuke Uranishi, Ayumu Suzuki, Masataka Hirasaki,
Masazumi Nishimoto, Akihiko Okuda
(Saitama Medical University, Research Center for Genomic Medicine, Division of
Developmental Biology)
- P-46 Investigation for a novel therapeutic target in acute myeloid leukemia with monosomy 7**
Kensuke Matsuda, Yuki Kagoya, Sho Yamazaki, Masashi Miyauchi,
Mineo Kurokawa
(Department of Hematology and Oncology, Graduate School of Medicine, The
University of Tokyo)
- P-47 Cell competition in the growing epithelial progenitors is driven by autophagy**
Rina Nagata, Mai Nakamura, Yuya Sanaki, Tatsushi Igaki
(Graduate School of Biostudies, Kyoto University)
- P-48 Maintenance of heterogeneous epidermal stem cell populations by the distinct niche**
Aiko Sada¹, Lalhaba Oinam¹, Gopakumar Changarathil¹, Jun Tsunozumi²,
Hiromi Yanagisawa¹
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