Poster List

One-minute poster presentation
17:15-18:20 Sep. 4 (Thu), main hall, Kumamoto City Medical Association Hall

Poster session
18:30-21:00 Sep. 4 (Thu), Poster Session Venue, Kumamoto City Medical Association Hall
12:20-14:20 Sep. 5 (Fri), Poster Session Venue, Kumamoto City Medical Association Hall

1

Analysis of long range chromatin interactions of the *ESR1* locus in breast cancer under estrogen deprivation

Mohamed Osama Abdalla, Noriko Saitoh, Saori Tomita and Mitsuyoshi Nakao
Institute of Molecular Embryology and Genetics, Kumamoto University, Kumamoto, Japan

2

Analysis of Tsukushi role during chick somitogenesis

Uzzal Kumar Acharjee[1,2], Ryu Gejima[1], Athary Felemban[1], M. Ashrafuzzaman Riyadh[1], Kunimasa Ohta[1] [1]Department of Developmental Neurobiology, Graduate School of Life Sciences, Kumamoto University; [2]HIGO program, Kumamoto University, Japan

3

Identification of bipotential hemogenic endothelial cells from embryonic stem cell culture

Tanzir Ahmed, Saeka Hirota, Kiyomi Tamura and Minetaro Ogawa
Department of Cell Differentiation, Institute of Molecular Embryology and Genetics, Kumamoto University, Kumamoto, Japan

4

Histone demethylase LSD1 regulates metabolism in skeletal muscle cells

Kotaro Anan, Shinjiro Hino, Akihisa Sakamoto, Katsuya Nagaoka, Ryuta Takase, and Mitsuyoshi Nakao
Department of Medical Cell Biology, Institute of Molecular Embryology and Genetics, Kumamoto University, Kumamoto, Japan

5

The endoplasmic reticulum-oriented drug development for familial amyloid polyneuropathy

Keisuke Chosa[1], Ruiko Yamakawa[1], Takashi Sato[1], Takeshi Yokoyama[2], Mineyuki Mizuguchi[2], Mary Ann Suico[1], Tsuyoshi Shuto[1], Hirofumi Kai[1]
[1]Department of Molecular Medicine, Faculty of Medical and Pharmaceutical Sciences, Kumamoto University, 5-1 Oe-honmachi, Kumamoto 862-0973, Japan; [2]Faculty of Pharmaceutical Sciences, Toyama Medical and Pharmaceutical University, Toyama 903-0194, Japan.

6

Akhirin is involved in the neural stem cell regulation in the mouse spinal cord

Athary Felemban[1,2,3], Rie Kawano[1], Xiaohong Song[1,2], Hideaki Tanaka[1,2], Kunimasa Ohta[1]
[1]Dep. Dev. Neurobiol., Grad. Sch. Life Sci., Kumamoto Univ.; [2]GCOE, Kumamoto Univ.; [3]Ministry of H. Edu., Saudi Arabia

7

New type of Sendai virus vector provides transgene-free iPS cells derived from chimpanzee blood

Yasumitsu Fujie[1], Noemi Fusaki[2,3,7], Tomohiko Katayama[1], Makoto Hamasaki[1], Yumi Soejima[1], Minami Soga[1], Hiroshi Ban[2], Mamoru Hasegawa[2], Satoshi Yamashita[4], Shigemi Kimura[5], Hirofumi Akari[6] and Takumi Era[1]
[1]Department of Cell Modulation, IMEG, Kumamoto Univ., Kumamoto, Japan; [2]DNAVEC Corporation, Ibaragi, Japan; [3]Precursory Research for Embryonic Science and Technology, JST, Saitama, Japan; [4]Department of Neurology, Graduate School of Medical Sciences, Kumamoto Univ., Kumamoto, Japan; [5]Department of Child Development, Graduate School of Medical Science, Kumamoto, Japan; [6]Section of Comparative Microbiology and Immunology, Center for Human Evolution Modeling Research, Primate Research Institute, Kyoto Univ., Aichi, Japan; [7]Department of Ophthalmology, Keio Univ. School of Medicine, Tokyo, Japan.

8

VITAMIN C DEFICIENCY EXACERBATES RESPIRATORY FUNCTION AND EMPHYSEMA IN EPITHELIAL NA^+ CHANNEL-OVEREXPRESSING MICE

Haruka Fujikawa[1], Yuki Sakaguchi[1], Tsuyoshi Shuto[1], Hirofumi Nohara[1,2], Shunsuke Kamei[1,2], Yoshitaka Kondo[3], Mary Ann Suico[1], Akihito Ishigami[3,4], Hirofumi Kai[1,2]

[1]Department of Molecular Medicine, Graduate School of Pharmaceutical Sciences, Kumamoto University; [2]Program for Leading Graduate Schools "HIGO (Health life science: Interdisciplinary and Glocal Oriented) Program", Kumamoto University; [3]Department of Aging Regulation, Tokyo Metropolitan Institute of Gerontology, Tokyo; [4]Department of Biochemistry, Faculty of Pharmaceutical Sciences, Toho University, Chiba

9

Induction of non-coding RNAs from a chromatin domain including the *ESR1* locus in breast cancer cells under estrogen deprivation

Saori Fujiwara[1,2], Noriko Saitoh[1], Saori Tomita[1], Mohamed Osama Abdalla[1], Hirotaka Iwase[2] and Mitsuyoshi Nakao[1]

[1]Department of Medical Cell Biology, Institute of Molecular Embryology and Genetics, Kumamoto University, Kumamoto, Japan; [2]Department of Breast and Endocrine Surgery, Graduate School of Medical Sciences, Kumamoto University, Kumamoto, Japan

10

Podocyte-specific p53 deletion promotes progression of Alport syndrome by enhancement of podocyte proliferation and migration

Ryosuke Fukuda, Yukari Kai, Kohei Omachi, Keishi Motomura, Tomoaki Koga, Kosuke Koyama, Mary Ann Suico, Tsuyoshi Shuto, and Hirofumi Kai

Department of Molecular Mesicine, Graduate School of Pharmaceutical Science, Kumamoto University, Kumamoto, Japan

11

Analysis of reprogramming and iPS cells derived from Fibrodysplasia ossificans progressiva

Makoto Hamasaki[1], Noemi Fusaki[2], Yasuharu Nakashima[3], Hirokazu Furuya[4], Nobuhiko Haga[5] and Takumi Era[1]

[1]Department of Cell Modulation, Institute of Molecular Embryology and Genetics, Kumamoto University; [2]JST PRESTO and Ophthalmology, Keio University; [3]Department of Orthopaedic Surgery, Kyushu University School of Medicine; [4]Department of Aging Science, Cardiology and Neurology, Kochi University School of Medicine; [5]Rehabilitation Medicine, Graduate School of Medicine.

12

Analysis of the role of angiogenic factors in endothelial cells derived from iPS cells of moyamoya disease patients

Shuji Hamauchi[1], Akihiko Katayama[2], Ippei Date[2], Takumi Era[2], Hideo Shichinohe[1], Haruto Uchino[1], Naoki Nakayama[1], Ken Kazumata[1], Kiyohiro Houkin[1]

[1]Department of neurosurgery, Hokkaido University, Hokkaido, Japan; [2]*Department of Cell Modulation*, Institute of Molecular Embryology and Genetics, *Kumamoto* University

13

Glucagon-GFP knock-in mice, a model to analyze development, differentiation and proliferation of islet α-cells and intestinal L-cells

Yoshitaka Hayashi

Research Institute of Environmental Medicine, Nagoya University, Nagoya, Japan

14

SUV420H2 expression suppresses breast cancer cell invasion through expression of the SH2 domain-containing focal adhesion protein tensin-3

Yoshimi Shinchi, Ayaka Matsumoto, Yuhki Yokoyama, Nariki Matsuura, and Miki Hieda

School of Medicine and Health Science, Osaka University, Osaka, Japan

15

The inhibitors for ribosomal RNA synthesis activate the hippo pathway effectors YAP/TAZ

Hiroki Hikasa and Akira Suzuki

Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan

16

Actin regulates cell reprogramming

Takashi Ikeda, Takafusa Hikichi, Koji Kitazawa, Akira Watanabe, Akitsu Hotta and Shinji Masui
Center for iPS Cell Research and Application, Kyoto University, Kyoto, Japan

17

Human Fibroblast Reprogramming by Lactic Acid Bacteria

Naofumi Ito, Rie Kawano and Kunimasa Ohta
Graduate School of Life Sciences, Kumamoto University, Kumamoto, Japan

18

Generation of human iPS cell lines labeling nephron progenitors

Yusuke Kaku, Atsuhiro Taguchi and Ryuichi Nishinakamura
Institute of Molecular Embryology and Genetics, Kumamoto University, Kumamoto, Japan

19

Aberrant splicing of zinc transporter ZIP2 causes mucus hypersecretory phenotype in CF airway epithelial cells

Shunsuke Kamei[1,2], Tsuyoshi Shuto[1,2], Keiko Shuto[3], Haruka Fujikawa[1], Hirofumi Nohara[1,2], Chizuru Matsumoto[1], Yuki Sakaguchi[1], Mary Ann Suico[1,2], Ray A. Caldwell[4], Dieter C. Gruenert[5,6], Hirofumi Kai[1,2]
[1]Department of Molecular Medicine, Graduate School of Pharmaceutical Sciences, Kumamoto University, Kumamoto 862-0973, Japan; [2]Program for Leading Graduate Schools "HIGO (Health life science: Interdisciplinary and Glocal Oriented) Program", Kumamoto University, Kumamoto 862-0973, Japan; [3]Laboratory of Pharmacology, Sojo University Pharmacy School, Kumamoto 860-0082, Japan; [4]Cystic Fibrosi/Pulmonary Research & Treatment Center, University of North Carolina, Chapel Hill, NC 27599-7248, USA; [5]Departments of Otolaryngology - Head and Neck Surgery and Laboratory Medicine, University of California, San Francisco, San Francisco, CA 94115, USA; [6]Department of Pediatrics, University of Vermont College of Medicine, Burlington, VT 05405, USA

20

Glomerular Proteome Analysis for Establishment of New Therapeutic Strategy in Chronic Kidney Disease

M. Kamura, K. Koyama, K. Omachi, R. Fukuda, Y. Kai, M A. Suico, T. Shuto, and H. Kai
Department of Molecular Medicine, Kumamoto University, Kumamoto, Japan

21

Cadherin-7 joins dorsal-ventral patterning of the chick embryonic spinal cord through sonic hedgehog signaling

Rie Kawano, Kunimasa Ohta, Naofumi Ito
Department of Developmental Neurobiology, Faculty of Life Science, Kumamoto University

22

The identification of master transcription factors in human corneal epithelial cells

Koji Kitazawa[1,2], Takafusa Hikichi[2], Takashi Ikeda[2], Shinji Masui[2], Takahiro Nakamura[1], Morio Ueno[1], Satoshi Kawasaki[1] and Shigeru Kinoshita[1]
[1]Department of Ophthalmology, Kyoto Prefectural University of Medicine, Kyoto, Japan; [2]Center for iPS Cell Research and Application, Kyoto University, Kyoto, Japan

23

Bacterial c-di-GMP modulates HSCs and their niche through STING

Hiroshi Kobayashi[1,2], Keiyo Takubo[1,2], Toshio Suda[1]
[1]Department of Cell Differentiation, the Sakaguchi Laboratory of Developmental Biology, Keio University School of Medicine, Tokyo, Japan; [2]Department of Stem Cell Biology, National Center for Global Health and Medicine, Tokyo, Japan

24

Systematic profiling of spatiotemporal tissue and cellular stiffness in the developing brain

Misato Iwashita and Yoichi Kosodo
Department of Anatomy, Kawasaki Medical School, Kurashiki, Japan

25

A possible application of IncuCyte on the analysis of life span in C. eleganse

Masataka Moriuchi, Tsuyoshi Shuto, Yoshio Nakano, Mary Ann Suico, Hirofumi Kai
Department of Molecular Medicine, Graduate School of Pharmaceutical Sciences, Kumamoto University

26

GLP-1 RECEPTOR AGONIST EXTENDIN-4 EXACERBATES MUCUS HYPERSECRETORY PHENOTYPE IN EPITHELIAL NA^+ CHANNEL-OVEREXPRESSING CELLS AND MICE

Hirofumi Nohara[1,2], Tsuyoshi Shuto[1], Shunsuke Kamei[1,2], Haruka Fujikawa[1], Mary Ann Suico[1], Ray A. Caldwell[3], Dieter C. Gruenert[4,5], Hirofumi Kai[1,2]
[1]Department of Molecular Medicine, Graduate School of Pharmaceutical Sciences, Kumamoto University; [2]Program for Leading Graduate Schools "HIGO (Health life science: Interdisciplinary and Glocal Oriented) Program", Kumamoto University; [4]Cystic Fibrosis/Pulmonary Research & Treatment Center, University of North Carolina, Chapel Hill, NC 27599-7248, USA; [5]Departments of Otolaryngology - Head and Neck Surgery and Laboratory Medicine, University of California, San Francisco, San Francisco, CA 94115, USA; [6]Department of Pediatrics, University of Vermont College of Medicine, Burlington, VT 05405, USA

27

Treatment approach for hypophosphatasia via genetically modified patient's iPS cells and iPS-MSCs

Yasuaki Oda, Mika Tadokoro, Shunsuke Yuba, Hajime Ohgushi, Takeshi Taketani, and Takumi Era
Institute of Molecular Embryology and Genetics, Kumamoto University, Kumamoto, Japan; Health Research Institute, National Institute of Advanced Industrial Science and Technology, Hyogo, Japan; Division of Blood Transfusion, Shimane University Hospital, Shimane, Japan

28

Influence of chronic glucocorticoid exposure on proliferation and differentiation of rat neural stem cells in vitro

Haruki Odaka, Tadahiro Numakawa, Aya Yoshimura, Naoki Adachi, Shingo Nakajima, Takumi Era, Takafumi Inoue, Hiroshi Kunugi
Department of Mental Disorder Research, National Institute of Neuroscience, National Center of Neurology and Psychiatry, Tokyo, Japan; Department of Life Science and Medical Bioscience, School of Advanced Science and Engineering, Waseda University Tokyo, Japan; Division of Laboratory Animals Resources, National Institute of Neuroscience, National Center of Neurology and Psychiatry Tokyo, Japan; Department of Cell Modulation, Institute of Molecular Embryology and Genetics, Kumamoto University, Kumamoto, Japan.

29

A cost effective intestinal epithelial differentiation system from human iPS cells

Soichiro Ogaki, Mayu Morooka, Kaito Otera and Shoen Kume
Institute of Molecular Embryology and Genetics, Kumamoto University, Kumamoto, Japan

30

Actin cytoskeleton dynamics links Rho signaling with Yap/Taz to support human ES cell survival

Masatoshi Ohgushi, Maki Minaguchi and Yoshiki Sasai
Human StemCell Technology, CDB, RIKEN, Japan

31

Tsukushi maintains the growth and undifferentiated properties of neuronal stem/progenitor cells

Kunimasa Ohta, Naofumi Ito, Felemban Athary Abdulhaleem M, Yohei Shinmyo, Hideaki Tanaka, and Ayako Ito
Graduate School of Life Sciences, Kumamoto University, Kumamoto, Japan

32

Intra-Cellular Signaling pathways affected by the Genetic background in mouse embryonic stem cells

Satoshi Ohtsuka and Hitoshi Niwa
Lab. For Pluripotent Stem Cell Studies RIKEN CDB, Kobe, Japan

33

The effect of optimized weak current on Alzheimer's Disease pathology

Go Okita and Hirofumi Kai
Department of Molecular Medicine, Kumamoto University, Kumamoto, Japan

34

Structural basis of disulfide bond formation in the mammalian endoplasmic reticulum

Masaki Okumura[1], Kentaro Noi[2,3], Shoji Masui[1], Shingo Kanemura[1], Teru Ogura[2,3], and Kenji Inaba[1,3]
[1]Institute of Multidisciplinary Research for Advanced Materials, Tohoku University, Sendai, Japan; [2]Institute of Molecular Embryology and Genetics, Kumamoto University, Kumamoto, Japan, [3]CREST, JST

35

Visualization of dynamics of the 26S proteasome and protesome-substrate complexes by high-speed AFM

Takashi Okuno[1,5], Kentaro Noi[2,5], Akiko Okawa[2], Hikaru Tsuchiya[3], Yasushi Saeki[3], Kazunobu Takahashi[4], Tomonao Inobe[4], Kunitoshi Yamanaka[2,5] and Teru Ogura[2,5]
[1]Fac. Sci., Yamagata Univ.; [2]Inst. Mol. Embryol. Genet., Kumamoto Univ.; [3]Lab. of Protein Metab., Tokyo Metro. Inst. of Med. Sci.; [4]Frontier Res. Core for Life Sci., Univ. of Toyama; [5]CREST, JST.

36

Characterization of the Intracellular Behavior of COL4A5 and Clarification of Molecular Mechanism of Alport Syndrome

K Omachi, M Kamura, K Teramoto, R Fukuda, Y Kai, M A Suico, T Shuto, and H Kai
Department of Molecular Medicine, Kumamoto University, Kumamoto, Japan

37

Easy purification of human iPSC-derived immature intestinal epithelial cells

Kaito Otera, Soichiro Ogaki, Shoen Kume
Institute of Molecular Embryology and Genetics, Kumamoto University, Kumamoto, Japan

38

Draxin from neocortical neurons controls thalamocortical projections into the neocortex

M. Asrafuzzaman Riyadh[1], Yohei Shinmyo[1,2], Giasuddin Ahmed[1], Iftekhar Bin Naser[1], Mahmud Hossain[1], Kunimasa Ohta[1], Hideaki Tanaka[1]
[1]Dep. Dev. Neurobiol., Grad. Sch. Life Sci., Kumamoto Univ.; [2]Department of Biophysical Genetics, Graduate School of Medical Sciences, Kanazawa University

39

Determining c-Myb protein levels can isolate functional hematopoietic stem cell subtypes

Hiroshi Sakamoto[1], Naoki Takeda[2], Fumio Arai[3], Kentaro Hosokawa[3], Paloma Garcia[4], Toshio Suda[3], Jon Frampton[4], and Minetaro Ogawa[1]
[1]Dep. Cell Diff., IMEG, Kumamoto Univ., Kumamoto City, Japan; [2]Div. Transgen. Tech., IRDA, Kumamoto Univ., Kumamoto City, Japan; [3]Dep. Cell Diff., School of Medicine, Keio Univ., Tokyo, Japan; [4]Col. Med. Dent. Science, Inst. Biomedical Research, Univ. Birmingham, Birmingham, UK

40

Monoamine mediating signals control the late-stage pancreatic beta cell differentiation

Daisuke Sakano[1], Nobuaki Shiraki[1], Kazuhide Kikawa[1,2], Taiji Yamazoe[1], Masateru Kataoka[1], Kahoko Umeda[1,5], Kimi Araki[3], Shirou Matsumoto[2], Naomi Nakagata[4], Fumio Endo[2], Kazuhiko Kume[1,6], Motonari Uesugi[7] and Shoen Kume[1,5]
[1]IMEG, Kumamoto Univ.; [2]Graduate School of Medical Sciences, Kumamoto Univ.; [3]IRDA, Kumamoto Univ.; [4]CARD, Kumamoto Univ.; [5]HIGO Program, Kumamoto Univ.; [6]Graduate School of Pharmaceutical Sciences, Nagoya City Univ.; [7]IWPI-iCeMS, Kyoto Univ.

41

Adipose tissue-derived peptide, CCHamide-2, controls the secretion and synthesis of Insulin in *Drosophila melanogaster*

Hiroko Sano[1], Akira Nakamura[2], Hiroshi Ishimoto[3], Azusa Kamikouchi[3], Michael Texada[4], Jim Truman[4,5], and Masayasu Kojima[1]
[1]Department of Molecular Genetics, Institute of Life Sciences, Kurume University, Kurume, Japan; [2]Institute of Molecular Embryology and Genetics, Kumamoto University, Kumamoto, Japan; [3]Graduate School of Science, Nagoya University, Nagoya, Japan; [4]Janelia Farm Research Campos, Ashburn, VA, USA; [5]Howard Hughes Medical Institute, USA.

42

Tead and Myc cooperatively regulate cell competition in mammalian cells

Takashi Sato, Hiroshi Mamada, and Hiroshi Sasaki
Department of Cell Fate Control, Institute of Molecular Embryology and Genetics, Kumamoto University, Kumamoto, Japan

43

PRDM14 accelerates reversion of EpiLCs to ESCs through the TET-BER-dependent active demethylation

Naoki Okashita and Yoshiyuki Seki
Department of Bioscience, School of Science and Technology, Kwansei Gakuin University, Hyogo, Japan

44

Establishment of disease model using induced pluripotent stem cells derived from Niemann-Pick disease type C

Minami Soga[1], Makoto Hamasaki[1], Kaori Yoneda[2], Kimitoshi Nakamura[2], Muneaki Matsuo[3], Tetsumi Irie[4], Fumio Endo[2], and Takumi Era[1]
[1]Department of Cell Modulation, Institute of Molecular Embryology and Genetics, Kumamoto University, Kumamoto, Japan; [2]Department of Pediatrics, Graduate School of Medical Sciences, Kumamoto University, Kumamoto, Japan; [3]Department of Pediatrics, Saga University, Faculty of Medicine, Saga, Japan; [4]Department of Clinical Chemistry and Informatics, Graduate School of Pharmaceutical Sciences, Kumamoto University, Kumamoto, Japan

45

Sexually dimorphic gene, *MafB*, regulates masculinization of the external genitalia

Kentaro Suzuki and Gen Yamada
Department of Developmental Genetics, Institute of Advanced Medicine, Wakayama Medical University (WMU), Kimiidera, Wakayama, Japan

46

The role of thalamic afferent-derived factors in cortical development

Haruka Sato-Takemoto[1], Jun Hatakeyama[1], Nobuhiko Yamamoto[2] and Kenji Shimamura[1]
[1]Institute of Molecular Embryology and Genetics, Kumamoto University, Kumamoto, Japan; [2]Graduate School of Frontier Biosciences, Osaka University, Suita, Japan

47

The role of Foxo1 transcription factor in vascular development

Kiyomi Tsuji-Tamura and Minetaro Ogawa
Department of Cell Differentiation, Institute of Molecular Embryology and Genetics, Kumamoto University, Kumamoto, Japan

48

Sall4 is essential for mouse primordial germ cell specification by suppressing the somatic cell program genes

Satomi S. Tanaka, Yasuka L. Yamaguchi and Ryuichi Nishinakamura
Department of Kidney Development, Institute of Molecular Embryology and Genetics, Kumamoto University, Kumamoto, Japan

49

Development of culture method for maintenance of rat metanephric mesenchyme progenitor cells

Shunsuke Tanigawa[1,2], Nirmala Sharma[3], Terry P. Yamaguchi[3], Ryuichi Nishinakamura[1,2] and Alan O. Perantoni[3]
[1]Department of Kidney Development, Institute of Molecular Embryology and Genetics, [2]Program for leading graduate schools, HIGO program, Kumamoto University, Kumamoto 860-0811, Japan; [3]Cancer and Developmental Biology Laboratory, Center for Cancer Research, Frederick National Laboratory for Cancer Research, MD, USA.

50

Possible mechanism of tumor suppression via Chk2-directed mitotic cell death

Yuki Tanoue and Satoshi Tateishi
Institute of Molecular Embryology and Genetics, Kumamoto University, Kumamoto, Japan

51

INCREASED IL-17C PRODUCTION BY THE TLR3 LIGAND POLY(I:C) IN PRIMARY CYSTIC FIBROSIS AIRWAY EPITHELIAL CELLS

Yukihiro Tasaki[1], Keiko Ueno-Shuto[2], Tsuyoshi Shuto[1], Shunsuke Kamei[1,3], Onuki Kouhei[1], Mary Ann Suico[1], Hirofumi Kai[1,3]

[1]Department of Molecular Medicine, Graduate School of Pharmaceutical Sciences, Kumamoto University; [2]Laboratory of Pharmacology, Sojo University Pharmacy School, Kumamoto 860-0082, Japan; [3]Program for Leading Graduate Schools "HIGO (Health life science: Interdisciplinary and Glocal Oriented) Program", Kumamoto University

52

A subpopulation of EpCAM-positive cancer cells is involved in chemoresistance and prevents platinum anticancer drug-induced apoptosis in epithelial ovarian cancer

Shingo Tayama, Takeshi Motohara, Francisca Tjhay, Dashdemberel Narantuya, Isao Sakaguchi, Hironori Tashiro, Hidetaka Katabuchi

Department of Obstetrics and Gynecology Faculty of Life Sciences, Kumamoto University, Kumamoto, Japan

53

Involvement of CD44 variant, a cancer stem cell marker, in peritoneal metastasis and poor prognosis in patients with epithelial ovarian cancer

Francisca Tjhay, Takeshi Motohara, Shingo Tayama, Dashdemberel Narantuya, Isao Sakaguchi, Hironori Tashiro, Hidetaka Katabuchi

Department of Obstetrics and Gynecology, Faculty of Life Sciences, Kumamoto University, Kumamoto, Japan

54

Low-intensity direct electrical current stress suppresses pro-inflammatory cytokines expression via inhibition of multiple signaling pathways

Yu Tsurekawa, Ihori Shitanda, Shingo Matsuyama, Kazunori Mitsutake, Ryosuke Fukuda, Yukari Kai, Mary Ann Suico, Tsuyoshi Shuto, Hirohumi Kai

Institute of Molecular Medicine, Kumamoto University, Kumamoto, Japan

55

S-adenosylmethionine is crucial for maintaining human pluripotent stem cells

Tomonori Tsuyama[1,3], Nobuaki Shiraki[1], Yasuko Shiraki[2], Fumiaki Obata[4,5], Masayuki Miura[4,5], Kazuhiko Kume[1,6], Fumio Endo[2] and Shoen Kume[1,3]

[1]Department of Stem Cell Biology, Institute of Molecular Embryology and Genetics, Kumamoto Univ., Kumamoto, Japan; [2]Department of Pediatrics, Graduate School of Medical Sciences, Kumamoto Univ., Kumamoto, Japan; [3]Program for Leading Graduate Schools ''HIGO,'' Kumamoto Univ., Kumamoto, Japan; [4]Department of Genetics, Graduate School of Pharmaceutical Sciences, The Univ. of Tokyo, Tokyo, Japan; [5]CREST, Japan Science and Technology Agency, Tokyo, Japan; [6]Department of Neuropharmacology, Graduate School of Pharmaceutical Sciences, Nagoya City Univ., Nagoya, Japan

56

The role of Non-Specific transcription factor in Pluripotent Network

Hiroki Ura and Hitoshi Niwa

Laboratory for Pluipotent Cell Studies, RIKEN Center for Developmental Biology (CDB)

57

Smad4 is dispensable for self-renewal of mouse embryonic stem cells

Mariko Yamane and Hitoshi Niwa

Laboratory for Pluripotent Stem Cell Studies, RIKEN CDB, Japan

58

Apoptosis-specific p53 co-activator, Aspp1 induces apoptosis in damaged hematopoietic stem cells and prevents malignant transformation

Masayuki Yamashita, Eriko Nitta and Toshio Suda

Department of Cell Differentiation, the Sakaguchi Laboratory of Developmental Biology, Keio University School of Medicine, Tokyo Japan

59

The nucleocytoplasmic transport system that regulates the cell fate in stem cells and embryos

Noriko Yasuhara

National Institute of Biomedical Innovation, Osaka, Japan

60

Functional Analysis of TGF-b signaling pathway in hepatoblasts during mouse hepatic histogenesis

Yuji Yokouchi[1], Naoki Takeda[1], Hiroshi Sasaki[2], and Ken-ichi Yamamura[1]

[1]Institute of Resource Development and Analysis, Kumamoto University, Kumamoto, Japan; [2]Institute of Molecular Embryology and Genetics, Kumamoto University, Kumamoto, Japan

61

FAM105A modulates the inflammatory response to lipopolysaccharide

Tsubasa Yokota, Ryosuke Fukuda, Mary Ann Suico, Tsuyoshi Shuto, Hirofumi Kai

Department of Molecular Medicine, Kumamoto University, Kumamoto, Japan

62

Significance of *SOX9* gene for transdifferentiation of hepatocyte in liver

Daiki Yoshii[1], Yuji Yokouchi[2], Hiroko Suda[1] and Yukihiro Inomata[1]

[1]Department of Pediatric Surgery and Transplantation, Graduate school of Medical Sciences, Kumamoto University, Kumamoto, Japan; [2]Institute of Resource Development and Analysis, Kumamoto University, Kumamoto, Japan

63

The effect of IL-6 on expression of microRNAs in rat embryonic neural stem cells during their differentiation

Aya Yoshimura[1], Tadahiro Numakawa[2], Haruki Odaka[2], Yoshitaka Tamai[1], Takumi Era[3], and Hiroshi Kunugi[2]

[1]Division of Laboratory Animal Resources, National Institute of Neuroscience, National Center of Neurology and Psychiatry, Tokyo, Japan; [2]Department of Mental Disorder Research, National Institute of Neuroscience, National Center of Neurology and Psychiatry, Tokyo, Japan; [3]Department of Cell Modulation, Institute of Molecular Embryology and Genetics, Kumamoto University, Kumamoto, Japan.