

Program

# Global COE International Symposium / Retreat 2010

## *Plenary Session at Main Hall, Convention Center*

Friday, November 5<sup>th</sup>, 2010

- 11:30-11:55      Computer check-in for invited speakers at Preview Desk.  
                         Call for Poster Display
- 12:00-13:00      Lunch
- 13:00-13:10      Opening remarks: **Shuh Narumiya, Program Leader**

### *Plenary Session*

#### *Allergy and Immunology Area*

**Chair: Nagahiro Minato**

- 13:10-13:50      PI-1 "Aire Control of Immunological Tolerance"  
                         **Diane Mathis** (Professor, Department of Pathology, Harvard Medical School)

#### *Cancer Area*

**Chair: Makoto Noda**

- 13:50-14:30      PC-1 "Regulation of Vascular Smooth Muscle Cell Phenotype by microRNAs"  
                         **Akiko Hata** (Associate Professor, Molecular Cardiology Research Institute,  
                         Tufts Medical Center)

#### *Aging and Lifestyle-related diseases Area*

**Chair: Nobuya Inagaki**

- 14:30-15:10      PA-1 "Mechanism of Secretion and Action of Glucagon-like Peptide-1, a Central  
                         Gut Hormone in Glucose Homeostasis"  
                         **Takashi Miki** (Professor, Department of Medical Physiology, Chiba University  
                         Graduate School of Medicine)
- 15:10-15:30      **Coffee Break (20min.)**  
                         **Computer check-in at Main Hall Preview Desk.**

#### *Neuroscience Area*

**Chair: Ryosuke Takahashi**

- 15:30-16:10      PN-1 "The PINK1/Parkin pathway controls mitochondrial homeostasis whose  
                         impairment causes Parkinson's disease"  
                         **Keiji Tanaka** (Acting Director, The Tokyo Metropolitan Institute of Medical Science)

#### *Regenerative Medicine Area*

**Chair: Junya Toguchida**

- 16:10-16:50      PR-1 "Metaplasia, Epithelial Stem Cells and the Skin"  
                         **Yann Barrandon** ( Professor, Joint chair of Stem Cell Dynamics, School of Life  
                         Sciences, Ecole Polytechnique Fédérale de Lausanne and Université de  
                         Lausanne)

- 16:50-17:00** Photo shooting at Lobby (1F)  
**17:00-17:30** Break (Hotel Check-in)  
**17:30-19:00** Banquet at Stella Ballroom, Westin Awaji Island (1F)  
**19:00-21:00** Poster Session at Reception Hall B, Convention Center (2F)

## **Saturday, November 6<sup>h</sup>, 2010**

- 7:00- 8:30** Breakfast Buffet at COCCOLARE, Westin Awaji Island  
**8:30- 9:00** Computer check-in for speakers in Area Meetings at Preview Desk.  
**9:00-12:00** Area Meetings (See each areas' program)  
*Allergy and Immunology Area Session: Room 311A(3F)*  
*Cancer Area Session: Reception Hall A (1F)*  
*Aging and Lifestyle Disease Area Session: Room 404 (4F)*  
*Neuroscience Area Session: Room 311B (3F)*  
*Regenerative Medicine Area Session: Room 405 (4F)*

- 12:00-13:00** Lunch  
**13:00-15:00** Oral Sessions(See each areas' program)  
*Allergy and Immunology Area Session: Room 311A (3F)*  
*Cancer Area Session: Reception Hall A (1F)*  
*Aging and Lifestyle Disease Area Session: Room 404 (4F)*  
*Neuroscience Area Session: Room 311B (3F)*  
*Regenerative Medicine Area Session: Room 405 (4F)*

- 15:00-15:15** Best Presentation Award  
**15:30- 16:00** Departure for Kyoto University by Shuttle Bus

\* This program is subject to change.

# AREA MEETINGS

## **Area Meetings**

### **Allergy and Immunology Area Session**

#### **Room #311A**

**Chair: Masanori Miyanishi, Shunsuke Sakai**

- 9:00-9:25** I-1 "Identification of SSRP1, a FACT subunit, as an SHM-regulating transcription elongation factor"  
**Masatoshi Aida** (GCOE Post doctor, Department of Immunology and Genomic Medicine)
- 9:25-9:50** I-2 "New anti-HIV drug development by targeting the APOBEC3G-Vif interaction"  
**Masashi Matsui** (GCOE Research Assistant, 4<sup>th</sup> Grade, Department of Hematology and Oncology)
- 9:50-10:15** I-3 "PD-1 is essential for the regulation of lung inflammatory response during tuberculosis"  
**Shunsuke Sakai** (GCOE Associate Fellow, Department of Microbiology)
- 10:15-10:45** **Coffee Break (30min.)**
- 10:45-11:10** I-4 "Functional variants of *AIRE* are associated with rheumatoid arthritis in Japanese"  
**Chikashi Terao** (GCOE Associate Fellow, Department of Rheumatology and Clinical Immunology)
- 11:10-11:35** I-5 "Synergistic effect of the Tim4 and MFG-E8 null-mutations on the development of autoimmunity"  
**Masanori Miyanishi** (GCOE Post doctor, Department of Medical Chemistry)
- 11:35-12:00** I-6 "Roles of C/EBP $\alpha$  in T cell immunodepression in senescence and malignancy"  
**Kyosuke Sato** (GCOE Research Assistant, 1<sup>st</sup> Grade, Department of Immunology and Cell Biology)

### **Cancer Area Session**

#### **Reception Hall A**

**Chair: Teruaki Fujishita**

- 9:00-9:15** C-1 "Prediction of gemcitabine-induced toxicity and clinical course in patients with advanced pancreatic cancer"  
**Junichi Matsubara** (GCOE Research Assistant, 4<sup>th</sup> Grade, Department of Gastroenterology and Hepatology)
- 9:15-9:30** C-2 "Triploid cells acquire properties of cancer cells"  
**Hisakatsu Nawata** (GCOE Research Assistant, 3<sup>rd</sup> Grade, Department of Radiation Biology, Research Reactor Institute, Kyoto University)
- Chair: Fumihiko Kakizaki**
- 9:30-9:45** C-3 "Involvement of the tumor suppressor gene *Reck* in limb patterning"  
**Mako Yamamoto** (GCOE Associate Fellow, Department of Molecular Oncology)
- 9:45-10:00** C-4 "Liprin-alpha negatively regulates Rho-induced actin stress fibers through direct binding to mDia"  
**Satoko Sakamoto** (GCOE Associate Fellow, Department of Cell Pharmacology)

**Chair: Mako Yamamoto**

**10:00-10:15** C-5 “Diameter of multi-walled carbon nanotubes is a critical factor in mesothelial injury and mesotheliomagenesis”

**Hiroataka Nagai** (Pathology and Biological Responses, Nagoya University and Pathology and Biology of Diseases, Kyoto University)

**10:15-10:35** **Coffee Break (20min.)**

**10:35-11:00** C-6 “In vitro transformation of mouse spermatogonial stem cells”

**Hiroko Morimoto** (GCOE Post doctor, Department of Molecular Genetics)

**Chair: Satoko Sakamoto**

**11:00-11:25** C-7 “Identification of Transformation Suppressor Genes Using cDNA Expression Libraries”

**Hitoshi Kitayama** (GCOE Post doctor, Department of Molecular Oncology)

**11:25-11:50** C-8 “JNK signaling promotes intestinal tumorigenesis through mTORC1 pathway activation in *Apc*<sup>Δ716</sup> mice”

**Teruaki Fujishita** (GCOE Post doctor, Department of Pharmacology)

***Aging and Lifestyle-related diseases Area Session***

***Room #404***

Chair: Takuhiro Sonoyama

**9:00-9:25** A-1 “Role of mitochondrial phosphate carrier in metabolism-secretion coupling in pancreatic β- cells”

**Hiroki Sato** (GCOE Research Assistant, 3<sup>rd</sup> Grade, Department of Diabetes and Clinical Nutrition)

**9:25-9:50** A-2 “Elevated MicroRNA-1 and MicroRNA-133a levels in Serum of Patients with Acute Coronary Syndrome indicate the Myocardial Damage”

**Yasuhide Kuwahara** ((GCOE Research Assistant, 3<sup>rd</sup> Grade, Department of Cardiovascular Medicine)

**9:50-10:15** A-3 “Steroidogenic differentiation of human embryonic stem cells and human induced pluripotent stem cells”

Takuhiro Sonoyama (GCOE Associate Fellow, Department of Medicine and Clinical Science)

**10:15-10:45** **Coffee Break (30 min.)**

**10:45-11:10** A-4 “Exendin-4 suppresses Src activation and reactive oxygen species production in diabetic GK rat islets in an Epac-dependent manner”

**Yuichi Sato** (GCOE Associate Fellow, Department of Diabetes and Clinical Nutrition)

**11:10-11:35** A-5 “Adipocyte differentiation of human induced pluripotent stem and embryonic stem cell”

**Michio Noguchi** (GCOE Post doctor, Department of Medicine and Clinical Science)

**11:35-12:00** A-6 “MiR-146a-induced Inhibition of Neuregulin1-ErbB4 Pathway may be Involved in Deterioration of Cardiotoxicity under Concurrent Chemotherapy with Doxorubicin and Trastuzumab”

**Takahiro Horie** (Assistant Professor, Department of Cardiovascular Medicine and

Department of Clinical Innovative Medicine, Translational Research Center, Kyoto University Hospital)

## **Neuroscience Area Session**

### **Room #311B**

**Chair: Takuma Tanaka**

- 9:00- 9:20** N-1 “Early protective effect of bone marrow mononuclear cells against ischemic white matter damage through augmentation of cerebral blood flow”  
**Youshi Fujita** (GCOE Post doctor, Department of Neurology)
- 9:20- 9:40** N-2 “PINK1, Parkin and the degradation of misfolded Pael-R”  
**Gavinio Roberto** (GCOE Associate Fellow, Department of Neurology)
- 9:40-10:00** N-3 “Model network with temporal and population sparseness reproduces simple and complex cell-like selectivity”  
**Takuma Tanaka** (GCOE Post doctor, Department of Morphological Brain Science)
- 10:00-10:20** N-4 “Local inputs of pyramidal neurons onto corticothalamic neurons in rat barrel cortex”  
**Yasuhiro Tanaka** (GCOE Associate Fellow, Department of Morphological Brain Science)
- 10:20-10:40** **Coffee Break (20min.)**
- 10:40-11:00** N-5 “Metabolic alterations during visual stimulation in 6-hydroxydopamine rat model for Parkinson's disease - *in vivo* small animal positron emission tomography study -”  
**Naoya Oishi** (GCOE Post doctor, Human Brain Research Center, Kyoto University)
- 11:00-11:20** N-6 “Metabotropic glutamate receptors regulate transmitter release in auditory coincidence detector neurons of chick”  
**Hiroko Okuda** (GCOE Associate Fellow, Department of Physiology and Neurobiology)
- 11:20-11:40** N-7 “Reduced cortical thickness and effects of age in schizophrenia”  
**Manabu Kubota** (GCOE Research Assistant, 2<sup>nd</sup> Grade, Department of Psychiatry)
- 11:40-12:00** N-8 “Non-linear integration of local motion signals in the peripheral field underlying ocular following responses in monkeys”  
**Yuki Aoki** (GCOE Research Assistant, 2<sup>nd</sup> Grade, Department of Integrative Brain Science)

## **Regenerative Medicine Area Session**

### **Room #405**

**Chair: Hideaki Kumagai**

- 9:00-9:25** R-1 “Metalloprotease-Dependent Onset of Blood Circulation In Zebrafish”

- Atsuo Iida** (GCOE Post doctor, Department of Growth Regulation, Institute for Frontier Medical Sciences, Kyoto University)
- 9:25-9:50** R-2 “Functional Hierarchy and Reversibility within the Murine Spermatogenic Stem Cell Compartment”
- Toshinori Nakagawa** (GCOE Post doctor, Department of Immunobiology and Hematology, Institute for Frontier Medical Sciences, Kyoto University)
- 9:50-10:15** R-3 “The controlled release of neuropeptide substance P induces angiogenesis”
- Hiroshi Kohara** (GCOE Post doctor, Department of Biomaterials, Field of Tissue Engineering, Institute for Frontier Medical Sciences, Kyoto University)
- 10:15-10:35** R-4 “Collagen fiber formation is required for segregation of tendon primordia into individual tendons and subdivision of muscle masses”
- Yuki Sugimoto** (GCOE Associate Fellow, Department of Cellular Differentiation, Institute for Frontier Medical Sciences, Kyoto University)
- 10:35-10:50** **Coffee Break (20 min.)**
- Chair: Kentaro Ichioka**
- 10:50-11:10** R-5 “Latent TGF- Binding Protein 4 promotes elastic fiber assembly in vitro”
- Kazuo Noda** (GCOE Research Assistant, 3<sup>rd</sup> Grade, Department of Plastic and Reconstructive Surgery)
- 11:10-11:30** R-6 “Function of AID in DNA demethylation during iPS cell generation”
- Ren Shimamoto** (GCOE Research Assistant, 2<sup>nd</sup> Grade, Department of Reprogramming Science, Center for iPS Cell Research and Application, Kyoto University)
- 11:30-11:50** R-7 “Isolation of skeletal muscle progenitors from mouse embryos and mouse iPS cells”
- Hiroshi Sakai** (GCOE Research Assistant, 3<sup>rd</sup> Grade, Department of Growth Regulation, Institute for Frontier Medical Sciences, Kyoto University)



# Oral Sessions

## **Oral Sessions**

### **Allergy and Immunology Area Session**

#### **Room #311A**

**Chair: Masatoshi Aida, Chikashi Terao**

**13:00-13:50** OI-1 “The molecular basis of the development and function of regulatory T cells”  
**Shimon Sakaguchi** (Professor, Department of Experimental Pathology, Institute for Frontier Medical Sciences, Kyoto University)

**13:50-14:10** **Break**

**14:10-15:00** OI-2 “Gastric Cancer Development by *Helicobacter Pylori* (*H.pylori*) Infection -Important Roles of Activation-Induced Cytidine Deaminase (AID) in Induction of Gene Mutations and Genomic Instability during Inflammation-Associated Carcinogenesis”  
**Tsutomu Chiba** (Professor, Department of Gastroenterology and Hepatology)

### **Cancer Area Session**

#### **Reception Hall A**

**Chair: Hiroko Morimoto**

**13:00-13:50** OC-1 “The roles of RECK in cancer progression and mammalian development”  
**Makoto Noda** (Professor, Department of Molecular Oncology)

**13:50-14:10** **Break**

**Chair: Hitoshi Kitayama**

**14:10-15:00** OC-2 “Suppression of colon cancer metastasis by Aes through inhibition of Notch signaling”  
**Makoto Mark Taketo** (Professor, Department of Pharmacology)

### **Aging and Lifestyle-related diseases Area Session**

#### **Room #404**

**Chair: Michio Noguchi**

**13:00-13:50** OA-1 “Role of endogenous ROS generated by Src activation in impaired metabolism-secretion coupling in diabetic islets”  
**Shimpei Fujimoto** (Associate Professor, Department of Diabetes and Clinical

Nutrition)

**13:50-14:10 Break**

**Chair: Yuichi Sato**

**14:10-15:00** OA-2 "Leptin and Adipocytes Implicated in Energy Metabolism and Adipotoxicity"  
Kiminori Hosoda (Professor, Faculty of Human Health Science, Department of  
Medicine and Clinical Science)

### ***Neuroscience Area Session***

#### ***Room #311B***

**Chair: Yushi Fujita**

**13:00-13:50** ON-1 "Thalamocortical Projection; Revisited with a Single Neuron Tracing  
Technique"

**Takeshi Kaneko** (Professor, Department of Morphological Brain Science)

**13:50-14:10 Break**

**14:10-15:00** ON-2 "Neuronal correlates that stabilize images on the retina while we are  
moving in 3-D space"

**Kenji Kawano** (Professor, Department of Integrative Brain Science)

### ***Regenerative Medicine Area Session***

#### ***Room #405***

**Chair: Atsuo Iida**

**13:00-13:50** OR-1 "The Role of DNA methylation in multi-stage carcinogenesis of the colon"

**Yasuhiro Yamada** (Professor, Department of Reprogramming Science, Center for  
iPS Cell Research and Application, Kyoto University)

**13:50-14:10 Break**

**14:10-15:00** OR-2 "Bone marrow niches for hematopoietic stem and progenitor cells"

**Takashi Nagasawa** (Professor, Immunobiology and Hematology, Institute for  
Frontier Medical Sciences, Kyoto University)

# Poster Session

## ■ Immunology & Allergy Area

Poster No.	Section	Affiliation	Position at GCOE	Name	Poster Title
I-1	a	Microbiology	RA (D3)	Takeshi Yamamoto	Critical contribution of Lmo2589 to induction of IFN-beta production from macrophages infected with <i>Listeria monocytogenes</i>
I-2	b	Immunology and Genomic medicine	RA (D4)	Guoxin Liang	A novel activity of AID: an effector in innate immunity against Hepatitis B Virus
I-3	a	Immunology and Genomic medicine	RA (D3)	LE THI HUONG	Regulation of Activation Induced Deaminase (AID) Expression In Vivo.
I-4	b	Immunology and Genomic medicine	RA (D1)	Somayeh Sabouri	Involvement of Topoisomerase1 in somatic hypermutation
I-5	a	Hematology and Oncology	RA (D2)	Yutaka Shimazu	Visualizing the suppression mechanism of regulatory T cells in immune response
I-6	b	Hematology and Oncology	Travel Awardee (D3)	Haruyuki Fujita	Protein kinase inhibitor dasatinib potently suppresses immunostimulatory activity of human plasmacytoid dendritic cells
I-7	a	Hematology and Oncology	Travel Awardee (D2)	Soichiro Sakamoto	Impact of Serum Ferritin Levels on the Incidence of Chronic Graft-Versus-Host Disease after Allogeneic Hematopoietic Stem Cell Transplantation
I-8	b	Gastroenterology and Hepatology	RA (D4)	Nobuhiro Aoki	CCR6-CCL20 axis dependent direct migration of splenic CD4+ T cells is indispensable for the induction of fatal autoimmune hepatitis
I-9	a	Gastroenterology and Hepatology	Travel Awardee (D2)	Yusuke Honzawa	Serum levels of heat shock protein 47 could be a useful marker for intestinal fibrosis in patients with Crohn's disease
I-10	b	Rheumatology and Clinical Immunology	Travel Awardee	Naho akeda	Interferon- $\gamma$ release assay for diagnosing <i>Mycobacterium tuberculosis</i> diseases in patients with systemic lupus erythematosus
I-11	a	Rheumatology and Clinical Immunology	Travel Awardee	Naoichiro Yukawa	Correlation of antinuclear antibodies and anti-DNA antibodies with clinical response to infliximab in patients with rheumatoid arthritis

Poster No.	Section	Affiliation	Position at GCOE	Name	Poster Title
I-12	b	Surgery	RA (D4)	Hanaa Nafady-Hego	THE GENERATION OF DONOR-SPECIFIC CD4+CD25++CD45RA+ NAÏVE REGULATORY T CELLS IN OPERATIONALLY TOLERANT PATIENTS AFTER PEDIATRIC LIVING-DONOR LIVER TRANSPLANTATION
I-13	a	Gynecology and Obstetrics	Travel Awardee	Yumiko Yoshioka	Differential effects of inhibition of bone morphogenic protein (BMP) signaling on T cell activation and differentiation
I-14	b	Pathogenic Microbiology	Travel Awardee (D2)	Koichi Shirakawa	A hypothesis on diversification of Plasmodium species based on the comparative analyses of the reiterated-sequence and the genome sequence encoding the infection control proteins.
I-15	a	Cell Pharmacology	-	Chengcan Yao	Prostaglandin E2-EP2/EP4 signaling promotes TH1 cell differentiation through cAMP- and PI3K-mediated upregulation of IL-12 receptor $\beta$ 2 chain

## ■Cancer Area

Poster No.	Section	Affiliation	Position at GCOE	Name	Poster Title
C-1	b	Pharmacology	AF	Fumihiko Kakizaki	CDX transcription factors positively regulate expression of solute carrier family 5, member 8 in the colonic epithelium
C-2	a	Pharmacology	RA (D2)	Yoshiro Itatani	Mechanisms of down-regulation of AES (amino-terminal enhancer of split), a novel metastasis suppressor
C-3	b	Pathology and Biology of Diseases	RA/AC (D2)	Hiroko Yukinaga	Regulation of Transcriptomes by Stochastic Change in Rho-family GTPase Activity
C-4	a	Pathology and Biology of Diseases	Internship Awardee	Rizaldy P. Scott	Lineage-Specific Roles of Nck Adaptors in Embryonic Kidney Development
C-5	b	Pathology and Biology of Diseases	RA (D1)	Yoshihisa Fujita	Systems biology of Ras/ERK signal transduction network based on FRET measurements and comprehensive perturbation of gene expression
C-6	a	Immunology and Cell Biology	RA/AC (D1)	Keiko Doi	The function of small G protein Rap1 in maintenance of acute lymphoblastic leukemia
C-7	b	Molecular Oncology	RA/AC (D4)	Sachiyo Yamaguchi	RECK suppresses intestinal polyp formation in ApcDelta716 mice
C-8	a	Molecular Oncology	RA (D3)	Huan Wang	The Reck tumor suppressor protein alleviates tissue damage and promotes functional recovery after transient cerebral ischemia in mice
C-9	b	Radiation Genetics	RA (D2)	Shusuke Kobayashi	Differential Functional Relationship between the RNF8 and RAD18 E3 Ubiquitin Ligases in Translesion DNA Synthesis and Homologous Recombination
C-10	a	Radiation Genetics	RA (D2)	Takeo Narita	Human replicative DNA polymerase $\delta$ can bypass T-T (6-4) ultraviolet photoproducts on template strands
C-11	b	Radiation Oncology	Internship Awardee (M2)	Yuko Maede	High throughput chemical screening for novel anti-cancer agents, using the chicken DT40 B lymphocyte line, in collaborative project between NIH and Kyoto University
C-12	a	Radiation Genetics	Internship Awardee (D1)	Masataka Tsuda	Biochemical and Genetic Analysis of a Novel DNA Repair Factor, PDIP38

Poster No.	Section	Affiliation	Position at GCOE	Name	Poster Title
C-13	b	Pharmacology	RA/AC (D3)	Hiroshi Kamijo	Roles of ROCK in embryogenesis
C-14	a	Pharmacology	Travel Awardee (D2)	Sadanori Watanabe	Rho and Anillin-Dependent Control of an Actin Nucleator, mDia2, in Cytokinesis
C-15	b	Institute of Laboratory Animals	RA/AC (D1)	Kazuto Yoshimi	Increased susceptibility to dextran sulfate sodium induced colitis in rat model lacking APC carboxyl terminal domains
C-16	a	Genomic medicine	RA/AC (D4)	Chanavee Ratanajaraya	Genomic epidemiology of radiation-related thyroid cancer in Chernobyl
C-17	b	Pharmacoepidemiology	RA (D2)	Liyang Yang	Antitumor Effect of A New Hybrid Peptide Targeting Interleukin-4 Receptor $\alpha$ -expressing cancer in vitro and in vivo
C-18	a	Pharmacoepidemiology	RA/AC(D2)	Hanae Ueyama	Neuropilin-1 targeted hybrid peptide as a novel anti-cancer agent to pancreatic cancer
C-19	b	Pharmacoepidemiology	RA/AC/Travel Awardee (D2)	Megumi Kawamoto	A Novel Hybrid Peptide That Binds Transferrin Receptor and Induces Rapid Permeation of Cancer Cell Membrane
C-20	a	Gastroenterology and Hepatology	RA (D3)	Reiko Akitake	Involvement of growth arrest specific gene 6 (Gas6) in intestinal tumorigenesis through innate immunity.
C-21	b	Radiation Oncology and Image-applied Therapy	RA (D3)	Aya Nakajima	Radiosensitivity Assay Using a Novel Primary Culture System for Clinical Cancer Samples
C-22	a	Radiation Oncology and Image-applied Therapy	RA (D1)	Kengo Ogura	Radiation-Activated Prodrugs Targeting Tumor Hypoxia
C-23	b	Diagnostic Imaging and Nuclear Medicine	RA/AC (D3)	Koya Nakatani	The role of FDG-PET in pediatric Non-Hodgkin lymphoma
C-24	a	Diagnostic Imaging and Nuclear Medicine	Travel Awardee (D3)	Kanae Miyake	FDG-PET for predicting postoperative recurrence in patients with primary gastrointestinal stromal tumor



Poster No.	Section	Affiliation	Position at GCOE	Name	Poster Title
C-25	b	Diagnostic Imaging and Nuclear Medicine	RA (D4)	Kotaro Shimada	Comparison of Gadolinium-EOB-DTPA enhanced and diffusion weighted liver MRI for detection of small hepatic metastases
C-26	a	Breast Surgery	Internship Awardee (D3)	Masahiro TAKADA	DEVELOPMENT OF A PREDICTION MODEL FOR AXILLARY LYMPH NODE METASTASIS FROM PRIMARY BREAST CANCER
C-27	b	Gynecology and Obstetrics	Travel Awardee	Shogo Yamamura	Upregulation of TGF beta pathway in ovarian cancer metastasis and therapeutic effects of its inhibition
C-28	a	Gynecology and Obstetrics	RA (D1)	Budiman Kharma	Fludarabine as a possible alternative treatment in endometrial cancer type 2 by interfering STAT1 protein
C-29	b	Urology	RA/AC (D3)	Ryoichi Saito	The role of RalGAP $\alpha 2$ in the progression of bladder cancer
C-30	a	Urology	RA (D3)	Atsushi Maeno	Expression analysis of microRNAs to identify target molecules for CRPC using a novel xenograft model
C-31	b	Thoracic Surgery	RA (D2)	Masashi Kobayashi	Identification of the ALK -related genes in non-small-cell lung cancer
C-32	a	Thoracic Surgery	Travel Awardee	Toshi Menju	ErbB2/Her2/Neu employs GEP100 to promote lung cancer invasion and metastasis
C-33	b	Transfusion Medicine and Cell Therapy	RA (D2)	Rina Nagao	Developmental process of myeloid-derived suppressor cells in tumor-bearing mice
C-34	a	Pharmacy	RA (D3)	Tomoyuki Mizuno	Association of ABCG2 polymorphism with pharmacokinetics and severe toxicity of sunitinib
C-35	b	Infection and Prevention	RA (D3)	So Masaki	Deficient of Thioredoxin binding protein-2 (TBP-2) enhances TGF- $\beta$ / Smads signaling
C-36	a	Radiation Biology	RA(D3)	Oliveira Douglas	RNF20 and FACT chromatin remodeling factors activity upon DNA damage

## ■Aging & Lifestyle-Related Disease Area

Poster No.	Section	Affiliation	Position at GCOE	Name	Poster Title
A-1	b	Forensic Medicine and Molecular Pathology	RA/AC (D1)	Kakimoto Yu	Evaluating biomarkers for acute cardiovascular death
A-2	a	Medicine and Clinical Science	RA/AC (D4)	Eisaku Mori	Adipose tissue transplantation for lipodystrophy
A-3	b	Medicine and Clinical Science	RA (D3)	Takeya Minami	MRTF-A, a rho-dependent co-activator of SRF, plays a critical role in vascular remodeling by regulating smooth muscle cell migration
A-4	a	Geriatric Medicine	-	Takumi Mikawa	Enhanced glycolysis protects murine ES cells and primary fibroblasts from senescence effect of oxidative damage.
A-5	b	Diabetes and Clinical Nutrition	RA/AC (D1)	Ogura Kasane	The Metabolic function of mitochondrial SIRT protein
A-6	a	Diabetes and Clinical Nutrition	RA/AC (D3)	Shiho Takahara	Psychosocial problems of Japanese type 1 diabetes patients in emerging adulthood – synthesis of qualitative researches
A-7	b	Ophthalmology	RA/AC (D2)	Isao Nakata	Multiplexing SNP Analysis of Response to Photodynamic Therapy for Polypoidal Choroidal Vasculopathy
A-8	a	Oral and Maxillofacial Surgery	Travel Awardee (D4)	Keita Asai	Association between Oral Health and Risk Factors of Hypertension among Australian Aboriginals Revealed by a Pilot Epidemiological Study
A-9	b	Pharmacy	RA (D1)	Yoshiaki Yao	Comparative Functional Characterization of Novel Human Riboflavin Transporters hRFTs

## ■Neuroscience Area

Poster No.	Section	Affiliation	Position at GCOE	Name	Poster Title
N-1	a	Morphological Brain Science	RA(D3)	Shinichiro Okamoto	Quantitative analysis of synaptic inputs to neostriatal cholinergic neurons with BAC Transgenic rats
N-2	b	Morphological Brain Science	RA/AC (D4)	Hisashi Nakamura	Thalamocortical Projections of Lateral Posterior Nucleus Neurons:A Single Neuron-Tracing Study Using Viral Vectors
N-3	a	Morphological Brain Science	RA (D3)	Michiteru Konno	Glutamatergic and GABAergic inputs to layer Va pyramidal cells in the rat neocortex.
N-4	b	Morphological Brain Science	Travel Awardee (D4)	Yasuyo Tanaka	Differential outputs of GABAergic interneuron subtypes to corticospinal neurons
N-5	a	Integrative brain science	RA (D2)	Atsushi Fujimoto	Neuronal activity in the prefrontal cortex during the course of updating knowledge for problem solution
N-6	b	Integrative Brain Science	RA (D1)	Yuko Sugita	Visual Motion Processing To Elicit Optokinetic Responses In Mice
N-7	a	Neurobiology	RA/AC (D4)	Masatoshi Kasai	Sound Response Profiles and Firing Mechanisms of Offset Neurons in Mice Inferior Colliculus
N-8	b	Cell Pharmacology	PD	Yuichi Deguchi	Roles of mDia, a Rho effector, in neuronal and behavioral plasticity
N-9	a	Pharmacology	RA (D2)	Kohei Tanaka	Roles of prostaglandin E2 and its receptor EP1 for social withdrawal due to repeated social defeat
N-10	b	Pharmacology	RA (D1)	Yosuke Toyoda	Roles of mDia, a Rho effector, in the formation of axons and dendrites of CNS neurons
N-11	a	Neurology	RA (D1)	Tomoyuki Fumuro	Neuro-feedback for slow cortical potential in epileptic patients
N-12	b	Neurology	RA (D4)	Kazuo Washida	Nonhypotensive Dose of Telmisartan Attenuates Cognitive Impairment Partially due to Peroxisome Proliferator-Activated Receptor- $\gamma$ Activation in Mice with Chronic Cerebral Hypoperfusion
N-13	a	Neurology	Travel Awardee (D4)	Gaku Murakami	Transcription-targeted drug discovery for SOD1-mediated ALS using high-throughput screening technique
N-14	b	Neuropsychiatry	Travel Awardee	Jun Miyata	Abnormal white matter asymmetry in schizophrenia demonstrated by tract-based spatial statistics
N-15	a	Brain Pathophysiology	RA (D4)	Yohei Takenobu	Alternation of Functional Connectivity after Corticospinal Tract Infarction -A Longitudinal Case-control Functional MRI Study-
N-16	b	Brain Pathophysiology	Travel Awardee	Satoko Koganemaru	Long-lasting improvements of spastic hemiparesis using rTMS combined with motor training

## ■Regenerative Medicine Area

Poster No.	Section	Affiliation	Position at GCOE	Name	Poster Title
R-1	a	Pediatrics	RA (D4)	Tatsuya Morishima	Neutrophil differentiation from human induced pluripotent stem (iPS) cells for disease investigation
R-2	b	Anesthesia	RA (D4)	Hamed Elgendy	“Aggravated quantity and quality of isolated islets after preserved pancreas is due to impaired exocrine tissue by necrosis-like cell death : possible participation of Autophagy.”
R-3	a	Urology	RA (D4)	Kentaro Ichioka	IN VITRO CULTURE OF HUMAN SPERMATOGONIAL STEM CELLS FROM AZOOSPERMIA PATIENTS.
R-4	b	Otolaryngology	RA (D2)	Taniguchi Mirei	GJB2 carrier frequency in the Japanese population
R-5	a	Otolaryngology-Head and Neck Surgery	Travel Awardee (D3)	Tsuyoshi Kojima	Expression of side population cells during wound healing of rat vocal folds
R-6	b	Otolaryngology, Head and Neck Surgery	RA/Travel Awardee (D2)	Yushi Hayashi	Insulin-like growth factor1 (IGF-1) protects cochlea hair cells against aminoglycoside via both the phosphatidylinositol 3-kinase (PI3K)/Akt pathway and the mitogen-activated protein kinase kinase (MEK)/extracellular signal-regulated kinase (ERK) pathway
R-7	a	Otolaryngology	Travel Awardee (D3)	Hamaguchi Kiyomi	Prostaglandin E Receptor EP4 is Involved in the Maintenance of Hearing by protecting outer hair cells in mammals
R-8	b	Orthopaedic Surgery	RA/AC (D4)	Toshihiko Saito	Effect of titania-based surface modification of polyethylene terephthalate on bone-implant bonding and peri-implant tissue reaction
R-9	a	Development and Differentiation	RA (D3)	Hideaki KUMAGAI	High content analysis (HCA) to identify novel factors which maintain the undifferentiated state of human embryonic stem cells
R-10	b	Development and Differentiation	RA (D3)	Hiroki Takeuchi	Induction of human embryonic stem cells to endodermal-lineage differentiation focusing on Insulin-producing cells.
R-11	a	Development and Differentiation	RA/AC (D1)	Ayako Mochizuki	The role of N16 in maintenance of DNA stability in mouse embryonic stem cells.
R-12	b	growth regulation	RA (D2)	Yoshitaka Kimura	Identification of new cell population required for myogenesis

Poster No.	Section	Affiliation	Position at GCOE	Name	Poster Title
R-13	a	Growth Regulation	RA (D2)	Daigo Nishimura	Role of ADAM8 for macrophage differentiation and migration.
R-14	b	Tissue Regeneration	RA/AC (D1)	Sakura Tamaki	Genetic and Epigenetic Regulation of a Synovial Sarcoma-associated Molecule, FZD10
R-15	a	Stem Cell Biology	RA (D3)	Hyenjong Hong	Detailed mechanism of p53 in somatic reprogramming
R-16	b	Stem Cell Differentiation	RA (D4)	Taichi Matsunaga	Analysis of cellular and molecular mechanisms of endothelial cell differentiation.
R-17	a	Stem Cell Differentiation	Travel Awardee (D4)	Hideki Uosaki	Chemical biology on proliferation of cardiomyocyte from embryonic and induced pluripotent stem cells

## ■ Contact

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