



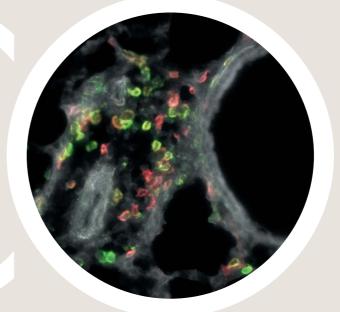
ews letter vol.1 4.2009

Chiba University Global COE Program

Global Center for Education and Research in Immune System Regulation and Treatment

O N T E N

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- · The Global COE-CVPP
- The 1st Annual Best Research Award
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- · The 1st Workshop: LIAI-RCAI Workshop and LIAI-Chiba University Workshop, January 7-8, 2009
- The 2nd Workshop: Presentation and discussion by G-COE-RA, February 21, 2009



Message from Program Leader

Program leader **Toshinori Nakayama**



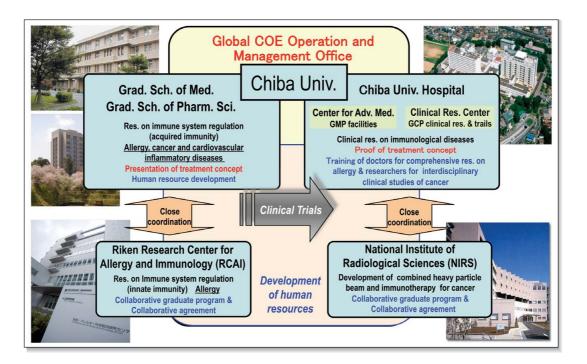
Chiba University initiated a Global COE Program named the "Global Center for Education and Research in Immune System Regulation and Treatment" during the 2008 academic year. The program is jointly implemented by the Graduate School of Medicine and the Graduate School of Pharmaceutical Sciences, Chiba University, RCAI (Riken Research Center for Allergy and Immunology) and NIRS (National Institute of Radiological Sciences). The aim is to promote research in the regulation of the immune system, develop strategies for the treatment of intractable immune disorders regulating the immune system and foster young researchers who will take leadership roles in the field of therapeutic research through this program. The program is operated by 17 program core members, 20 collaborators and a few coordinators. In addition, various unique programs such as G-COE independent young research associates, G-COE postdoctoral fellows, G-COE graduate students, Annual Best Research Award and G-COE-CVPP (Chiba Visiting Professor Program: 18 visiting professors are appointed) have all been established in order to develop sufficient human resources capable of playing active roles in international settings. Along with establishing a developmental system for world-level therapeutic researchers, transmitting new treatment strategies to the world, setting up a Department of Immune System Regulation and Treatment in our graduate school and accelerating translational research, clinical trials and drug trails, to the program will train outstanding personnel and produce leaders, who can play critical roles in achieving those targets.

The complete details of this program and recruitment will be presented on our website (http://www.isrt-gcoe-chiba.jp/). I sincerely hope the students and young researchers, who are interested in our research and this program, will be able to visit our research center at Chiba University.

Toshinori Nakayama

Outline of Global COE Program

Global Center for Education and Research in Immune System Regulation and Treatment



Outline of the program

About 30% of the Japanese population is suffering from allergic diseases. However, only symptomatic therapy is presently available, and no curative therapeutic strategy has yet been developed. In addition, one out of three Japanese people die of cancer.

As more elderly people are afflicted with these diseases, the development of low invasive treatments which enable such patients to obtain a good QOL is desired. Allergic diseases and cancer have the common etiological characteristic that is thought to be the dysregulation and malfunction of the immune system operation in the body. To date, concerning the pathogenic mechanism of these diseases, immunological study has produced remarkable achievements on the molecular and genetic level. As a result, we have now reached the stage for the development of new therapeutic strategies based on "immune system regulation" perspectives. Hence, this program focuses on creating an internationally unprecedented excellent center for education and research, in therapeutics based on immune system regulation, in order to promote therapeutic research for intractable immune disorders including allergy, cancer, cardiovascular inflammatory diseases and arteriosclerosis. In addition, this program aims to foster the development of young scientists in the field of therapeutic research, who have the abilities to, 1. Accomplish creative research from new perspectives, 2. Conduct comprehensive clinical research on allergy and an interdisciplinary clinical research on cancer and 3. Play an active role in the global scientific community after obtaining integrated knowledge and methodology on immune system regulation and immunological treatment.

The clinical application of the basic research results will be conducted mainly at the Chiba University Hospital Clinical Research Center and Center for Advanced Medicine. Since 2007, in recognition of its distinguished achievement, Chiba University Hospital has been designated to be a core hospital for the clinical research (one of only about ten hospitals in Japan) by the Japanese government. In cooperation with RCAI (Riken Research Center for Allergy and Immunology) which jointly implements this program, translational research will be strongly promoted, not only in educational aspects, but also for the practical application of new methods of treatment for allergy.

Chiba University and RCAI have collaborated under an agreement made in 2007 to strengthen bilateral relations. Expansion of this relationship will accelerate the training of graduate school students and young researchers in Chiba University. NIRS, National Institute of Radiological Sciences is the No. 1 research institute in the world for highly advanced cancer therapy using heavy ion charged particle beams, and it has promoted the 21st COE Program in close collaboration with Chiba University. This program, with such collaboration, intends to carry out research and develop new low invasive cancer therapies combining heavy ion charged particle therapy with immune cell therapy, which has never yet been attempted in the world, and also promote and nurture the young human resources involved with this new approach.

Members

Core Members



Toshinori Nakayama

Professor and Chairman, Department of Immunology, Graduate School of Medicine, Chiba University



Issei Komuro

Professor and Chairman, Department of Cardiovascular Science and Medicine, Graduate School of Medicine, Chiba University



Takeshi Tokuhisa

Professor and Chairman, Department of Developmental Genetics, Graduate School of Medicine, Chiba University



Akira Hata

Professor and Chairman, Department of Public Health, Graduate School of Medicine, Chiba University



Hiroshi Nakajima

Professor and Chairman, Department of Molecular Genetics, Graduate School of Medicine, Chiba University



Yoichi Kohno

Professor and Chairman, Department of Pediatrics, Graduate School of Medicine, Chiba University



Hiroyuki Matsue

Professor and Chairman, Department of Dermatology, Graduate School of Medicine, Chiba University



Yoshitaka Okamoto

Professor and Chairman, Department of Otorhinolaryngology, Head and Neck Surgery, Graduate School of Medicine, Chiba University



Hideki Tanzawa

Professor and Chairman, Department of Clinical Molecular Biology, Graduate School of Medicine, Chiba University



Shinichiro Motohashi

Associate Professor, Department of Medical Immunology, Graduate School of Medicine, Chiba University



Hideaki Bujo

Professor and Chairman, Department of Genome Research and Clinical Application, Graduate School of Medicine, Chiba University



Kan Chiba

Professor and Chairman, Department of Pharmacology and Toxicology, Graduate School of Pharmaceutical Sciences, Chiba



Toshiharu Horie

Professor and Chairman, Department of Biopharmaceutics, Graduate School of Pharmaceutical Sciences, Chiba University



Masaru Taniguchi

Director, RIKEN, Research Center for Allergy and Immunology Professor Emeritus, Chiba University



Osamu Ohara

Group Director, Laboratory for Immunogenomics, RIKEN, Research Center for Allergy and Immunology Visiting Professor, Department of Pharmacogenomics, Graduate School of Pharmaceutical Sciences, Chiba University



Hirohiko Tsujii

Executive Director, National Institute of Radiological Sciences Visiting Professor, Graduate School of Medicine, Chiba University



Tadashi Kamada

Director, Research Center for Charged Particle Therapy, National Institute of Radiological Sciences Visiting Professor, Graduate School of Medicine, Chiba University



Masayuki Baba

Head, Člinical Oncology Section, Research Center Hospital for Charged Particle Therapy, National Institute of Radiological Sciences





Kazuo Suzuki

Professor and Chairman, Inflammation program, Department of Immunology, Graduate School of Medicine, Chiba University

Members

G-COE Collaborators

Atsushi Iwama

Professor and Chairman, Department of Cellular and Molecular Medicine, Graduate School of Medicine, Chiba University

Tetsuichiro Saito

Professor and Chairman, Department of Developmental Biology, Graduate School of Medicine, Chiba University

Masahiko Hatano

Professor and Chairman, Department of Biomedical science, Graduate School of Medicine, Chiba University

Hisahiro Matsubara

Professor and Chairman, Department of Frontier Surgery, Graduate School of Medicine, Chiba University

Kenichi Harigaya

Professor and Chairman, Department of Molecular and Tumor Pathology, Graduate School of Medicine, Chiba University

Osamu Yokosuka

Professor and Chairman, Department of Medicine and Clinical Oncology, Graduate School of Medicine, Chiba University

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Professor and Chairman, Department of Thoracic Surgery, Graduate School of Medicine, Chiba University

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Professor and Chairman, Department of Pharmacology, Graduate School of Medicine, Chiba University

Masakatsu Yamashita

Associate Professor, Department of Immunology, Graduate School of Medicine, Chiba University

Naoki Shimojo

Associate Professor, Department of Pediatrics, Graduate School of Medicine, Chiba University

Yoichi Suzuki

Associate Professor, Department of Public Health, Graduate School of Medicine, Chiba University

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Lecturer, Department of Dermatology, Graduate School of Medicine, Chiba University

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Lecturer, Clinical Reserch Center, Chiba University Hospital

Norihiko Watanabe

Lecturer, Department of Allergy and Clinical Immunology, Chiba University Hospital

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Professor and Chairman, Department of Clinical Cell Biology, Graduate School of Medicine, Chiba University

Tomoaki Tanaka

Assistant Professor, Department. of Clinical Cell Biology, Graduate School of Medicine, Chiba University

Naoto Yamaguchi

Professor and Chairman, Department of Molecular Cell Biology, Graduate School of Pharmaceutical Sciences, Chiba University

Hiroshi Kobayashi

Professor and Chairman, Department of Biochemistry, Graduate School of Pharmaceutical Sciences, Chiba University

Akira Nakagawara

President of Chiba Cancer Center, Director of the Research Institute Visiting Professor, Graduate School of Medicine Chiba University

International Advisory Board Members

Alfred Singer

Chief, Experimental Immunology Branch, National Institutes of Health (NIH)

Dinah Singer

Senior Investigator, Head, Molecular Regulation Section, National Institutes of Health (NIH)

Andreas Radbruch

Scientific Director, German Rheumatology Research Center Berlin (DRFZ)

Steven L Reiner

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Kazuhiko Yamamoto

Professor, Graduate School of Medicine, The University of Tokyo

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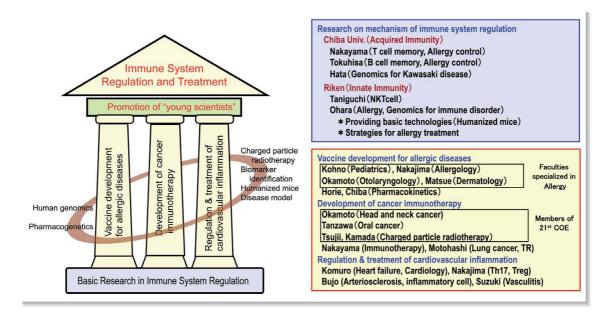
Professor, The Institute of Medical Science, The University of Tokyo

Yoshihiko Saito

Professor, Nara Medical University

Research Activities and Education

In the Graduate School of Medicine at Chiba University, there are several domestically and internationally top-level basic researchers in immunology and allergology. There are also expert groups in clinical fields such as internal medicine, pediatrics, otolaryngology and dermatology, who are able to conduct highly advanced clinical research on allergy. In terms of the research in cancer, this Global COE Program follows and extends the 21st Century COE Program at Chiba University (2003-2007). We plan to eagerly promote basic research and establish a new field of therapeutics by focusing the following four projects. (1) Basic research on the immune system regulation, disease genomics, pharmacogenomics and drug metabolism, and based on the latest research evidence, (2) Development of preventive and treatment strategies for allergies by regulating immune system, (3) Development of immune cell therapy for cancer, and (4) Identifying the pathogenic mechanisms of cardiovascular inflammatory diseases. The following figure shows the outline of the research and staff members of each discipline.



Development of Human Resources

Education for graduate school and postdoctoral fellows

We support Ph.D. students who are selected as G-COE RA (research assistant) graduate students cross-disciplinarily from among various Ph.D. students in the relevant fields and invite them to participate in this program. In addition to a supervisor, two other university teachers in a related field will be responsible for the education of the G-COE RA graduate students to thus provide them with comprehensive guidance.

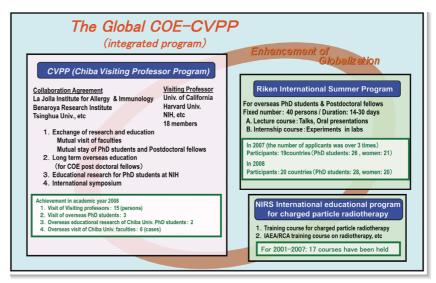
A special grant for research (young scientist start-up grant level) will be provided to certain numbers of excellent students through the process of reviewing their research proposals. Furthermore, Annual Best Research Awards will be given to the most outstanding students in order to enhance their motivation. In addition, we will select and hire about 10 COE fellows. The Global COE Operation and Management Office will directly advise these students and evaluate their research reports. We have introduced the CVPP (Chiba Visiting Professor Program, an exchange program that enables students, young researchers and faculty to mutually visit each other, with 18 visiting professors and associate professors participating from abroad) based on our president's discretionary budget to enhance the education for Ph.D. students and young researchers in order to enable them to become more internationally minded. In addition, we will also expand the CVPP into a Global COE-CVPP by combining this program with other programs originally established by the Riken Research Center for Allergy and Immunology and the National Institute of Radiological Sciences.

Support for the independence of young researchers

We will appoint several COE independent young research associates, who can thus be assured to remain independent in terms of their research environment, thereby enhancing their promotion to Research Associate Professor or Research Professor (tenure track) at Chiba University, or Associate Professor or Professor (tenure) when they finish their research in three to five years. The Global COE Operation and Management Office is responsible for developing an effective career path strategy for those young researchers who desire to follow careers in other directions.

The Global COE-CVPP





The Graduate School of Medicine, Chiba University has originally established CVPP (Chiba Visiting Professor Program), a collaboration system with foreign researchers. In this program, we encourage PhD students and young researchers to become much more globally active. In Global COE program, we co-host the "RCAI international summer program", held primarily at the Riken Research Center for Allergy and Immunology, and also an international training program on charged particle therapy", which is primarily held at the National Institute of Radiological Sciences.

CVPP

A total of 18 visiting professors and visiting associate professors from the University of California, University of Washington, University of Colorado, Harvard University, University of Cambridge, University of Geneva, Peking University and National Institutes of Health are presently participating in CVPP. We will organizationally collaborate with some of these institutions and Asian universities including Chinese ones. Under the auspices of CVPP, the above visiting professors and visiting associate professors have stayed at Chiba University from periods ranging from a few days to two weeks every year to engage in such activities as giving lectures, leading discussions and small workshops.

Meanwhile, Ph.D. students (as a training course with credit) and postdoctoral fellows have the opportunities to present their original research and obtain advice from this faculty. Moreover G-COE program provides them an opportunity at an early stage in their research to stay abroad for periods ranging from two weeks to three months in order to gain valuable experience to study in the labs abroad that are mainly affiliated with the visiting professors and visiting associate professors. A long-term stay for two to three years is also offered to extend their studies. An international symposium is held every year, mainly by CVPP coordinators, with a program designed for young researchers to actively participate.

RCAI international summer program

A summer program for two to four weeks is held mainly by the Riken Research Center for Allergy and Immunology (RCAI), as the core institution, every year, targeting Ph.D. students and postdoctoral fellows from abroad and consists of about 40 participants. This lecture course offers talks by lecturers and oral and poster presentations by the participants, and the internship course provides an opportunity for young researchers to stay in a lab to conduct their experiments. In 2007, due to the high popularity of this program, the number of students applying to this program was over 3 times the number of available openings, including 43 participants coming from 19 countries and comprising 26 Ph.D. students and 21 women. In 2008, the participants came from 20 countries, consisting of 28 Ph.D. students and 20 women. This program helps to broaden the interactive mobility of young researchers by opening the door to the world, which, we believe, will thus lead to the recruitment of excellent young researchers from other countries.

International training program on charged particle therapy

The goal of this program is to internationally promote the development of charged particle therapy including an IAEA/RCA training course on radiation therapy and workshops on charged particle therapy, which out by the National Institute of Radiological Sciences (NIRS), as the core institution.

Since 2000, this training course has been held 17 times with more than 220 foreign researchers participating this short-term training program. We plan to enhance these activities by expanding this program and establishing a new "Global COE- training course on charged particle therapy".

CVPP Members

Visiting Professor



Mitchell Kronenberg

President and Scientific Director, Member and Division Head, Division of Developmental Immunology, La Jolla Institute for Allergy & Immunology

Adjunct Professor of Biology, University of California, San Diego



Hilde Cheroutre

Member, Division of Developmental Immunology, La Jolla Institute for Allergy & Immunology



Toshiaki Kawakami

Member, Division of Allergy, La Jolla Institute for Allergy & Immunology

Adjunct Professor, Department of Medicine, University of California, San Diego,

Associate Member, Hematologic Malignancies Program, The Moores UCSD Cancer Center



Stephen Philip Schoenberger

Member, Laboratory of Cellular Immunology, La Jolla Institute for Allergy & Immunology

Adjunct Associate Professor, Division of Hematology and Oncology, Department of Medicine, University of California, San Diego



Shane Crotty

Assistant Member, Division of Vaccine Discovery, La Jolla Institute for Allergy & Immunology

Adjunct Assistant Professor, Department of Medicine, University of California, San Diego



Steven F Ziegler

Member and Director, Immunology Program, Benaroya Research Institute

Affiliate Professor, Department of Immunology, University of Washington



Daniel J Campbell

Assistant Member, Immunology Program, Benaroya Research Institute



Erwin W Gelfand

Professor and Chairman, Department of Pediatrics, Division of Cell Biology, National Jewish Health,

Professor of Pediatrics and Immunology, University of Colorado School of Medicine, Denver Colorado



Philippa Marrack

Distinguished Professor of the University of Colorado Professor, Integrated Department of Immunology, University of Colorado Hearth Science Center (UCHSC) and National Jewish Health

Professor, Department of Biochemistry and Molecular Genetics, UCHSC



Laurent Gapin

Assistant Professor, University of Colorado Hearth Science Center and National Jewish Health



Dale T Umetsu

Prince Turki Bin Abdul Azis al Saud Professor of Pediatrics, Children's Hospital Boston, Harvard Medical School



Anjana Rao

Senior Investigator, Immune Disease Institute (IDI), Harvard Medical School

Professor, Department of Pathology, Harvard Medical School



William E Paul

Chief, laboratory of Immunology, National Institute of Allergy and Infectioous Diseases (NIAID), National Institute of Health (NIH)



John Joseph O'Shea Jr.

Scientific Director, National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS), National Institute of Health (NIH)

Chief, Molecular Immunology and Inflammation Branch,



Remy Bosselut

Senior Investigator, Laboratory of Immune Cell Biology, National Cancer Institute, National Institute of Health (NIH)



David R W Jayne

Consultant in Nephrology and Vasculitis, Department of Medicine, Addenbrooke's Hospital, University of Cambridge, UK



Karl-Heinz Krause

Professor of Medicine, Department of Pathology and Immunology, Faculty of Medicine, University of Geneva



Ming-hui Zhao

Chief, Renal Division, Department of Medicine, Peking University First Hospital Institute of Nephrology, Peking University Key Laboratory of Renal Disease, Ministry of Health of China

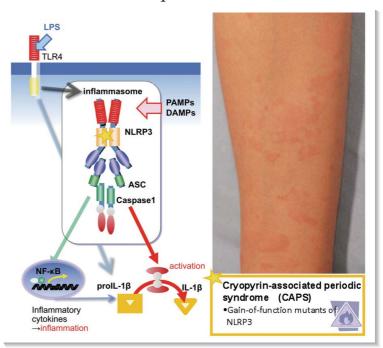
The 1st Annual Best Research Award



Yuumi Nakamura
Graduate Student, Dept. of Dermatology, Graduate School of Medicine, Chiba University

Mast cells mediate neutrophil recruitment and vascular leakage through the NLRP3 inflammasome in histamine-independent urticaria

Urticarial rash observed in cryopyrin-associated periodic syndrome (CAPS) caused by NLRP3 mutations is effectively suppressed by anti-IL-1 treatment, suggesting a pathophysiological role of IL-1 β in the skin. We identified mast cells (MCs) as the main cell population responsible for IL-1 β production in the skin of CAPS patients. Unlike normal MCs that required stimulation with proinflammatory stimuli for IL-1 β production, resident MCs from CAPS patients constitutively produced IL-1 β . Primary MCs expressed inflammasome components and secreted IL-1 β via NLRP3 inflammasome. Furthermore, MCs expressing disease-associated but not wild-type NLRP3 secreted IL-1 β and induced neutrophil migration and vascular leakage, the histological hallmarks of urticarial rash, when transplanted into mouse skin. Our findings implicate MCs as IL-1 β producers in the skin and mediators of histamine-independent urticaria through the NLRP3 inflammasome.



G-COE Research Assistant Members

G-COE-RA 2008 Atsushi Miyajima Lab. of Pharmacology and Toxicology Jiro Terada Dept. of Autonomic Physiology Kaori Kinoshita Dept. of Pediatrics Naoko Kikkawa Dept. of Otorhinolaryngology Daisuke Kashiwakuma Dept. of Molecular Genetics Masayuki Kano Dept. of Frontier Surgery Junji Moriya Dept. of Cardiovascular Science and Medicine Raita Uchiyama Dept. of Cardiovascular Science and Medicine Motoyoshi Kurosaki Dept. of Otorhinolaryngology Guangyu Ma Dept. of Environmental Biochemistry

Akane Suzuki Dept. of Immunology
Yusuke Endo Dept. of Immunology
Kenta Shinoda Dept. of Immunology
Arifumi Iwata Dept. of Allergy & Clin. Immunol., Chiba Univ. Hospital
Masako Kimura-Sato Dept. of Public Health
Keiji Shinozuka Dept. of Clinical Molecular Biology
Jun Ikari Dept. of Developmental Genetics
Jin Yuan Dept. of Cellular and Molecular Medicine
Makoto Kuwahara Dept. of Immunology
Kikuko Ikeda Dept. of Molecular Cell Biology

The 1st Chiba University G-COE Symposium

Immune System Regulation and Treatment

January 6, 2009, Sapia Hall, Tokyo Station Conference, Tokyo



Yasushi Saito (Chiba Univ)



Mitchell Kronenberg (LIAI)

The 1st Chiba University Global COE Symposium "Immune System Regulation and Treatment" was held in cooperation with La Jolla Institute for Allergy & Immunology (LIAI) and RIKEN Research Center for Allergy and Immunology (RCAI).

Following opening addresses by Dr. Yasushi Saito, President of Chiba University, and Dr. Takeshi Tokuhisa, Dean, Graduate School of Medicine, and a presentation of Global COE outline by Dr. Toshinori Nakayama, Program Leader, Dr. Mitchell Kronenberg, President, LIAI, presented the keynote lecture entitled "Activation of invariant NKT cells by microbes and microbial products".

The participants stood at around 120. We invited six foreign researchers from LIAI and Benaroya Research Institute (BRI) with which we have made a collaborative agreement under this program, so that core members in three research fields of this program presented the current research activities, leading to valuable discussion. This symposium was significant as the kick-off activity of this program and gave great momentum to our future research promotion.

Program Opening R

Opening Remarks

Yasushi Saito(Chiba Univ) Takeshi Tokuhisa(Chiba Univ) Toshinori Nakayama(Chiba Univ)

Keynote Address

Mitchell Kronenberg(LIAI)

Session I: Immune System Regulation

Steven F. Ziegler(BRI) Hiroshi Nakajima(Chiba Univ) Masaru Taniguchi(RCAI) Dirk Zajonc(LIAI)

Session II: Immunological Memory

Toshinori Nakayama(Chiba Univ) Takeshi Tokuhisa(Chiba Univ) Stephen P. Schoenberger(LIAI)

Session III: Allergy and Vascular Diseases

Toshiaki Kawakami(LIAI) Klaus Ley(LIAI) Issei Komuro(Chiba Univ)

Session IV: Clinical Application

Shinichiro Motohashi(Chiba Univ) Tadashi Kamada(NIRS) Yoshitaka Okamoto(Chiba Univ)

Closing Remarks

Yoichi Kohno(Chiba Univ)



















The 1st Chiba University G-COE Workshop

LIAI-RCAI Workshop and LIAI-Chiba University Workshop January 7-8, 2009, RCAI, Yokohama and Chiba University, Chiba

This workshop was held at two venues, RIKEN and Chiba University, having 73 participants in Chiba University. We held this activity as part of CVPP (Chiba Visiting Professor Program), the core system for developing human resources in our Global COE Program. In addition to Chiba Visiting Professors' talks, young scientists including the graduate student who was selected via a call for contribution made the oral presentation. They obtained practical and suggestive advice in the discussion.

On the next day, as a discussion tour, Chiba Visiting Professor visited immunology-related labs to discuss and give advice on our research activities. We were so impressed with the ambitious remarks our students made as to believe in the future progress.

Program Coordinated by Kazuo Suzuki

January 7

Lecture and Discussion I

Chair: S. Motohashi, K. Suzuki, T. Tokuhisa Speaker: M. Kronenberg, T. Kawakami, S. Ziegler

Presentation and Discussion I

Chair: H. Nakajima

Speaker: M. Arima, N. Watanabe, H. Bujyo

Presentation and Discussion II

Chair: T. Nakayama

Speaker: N. Shimojyo, T. Arima, Y. Nakamura, T. Fujimura, G-COE graduate students*

Presentation and Discussion III

Chair: A. Iwama

Speaker: H. Yamashita, H. Takano, T. Tanaka G-COE graduate students*

*Call for contributions

January 8

Lecture and Discussion II

Chair: K. Suzuki, M. Yamashita Speaker: K. Ley, S. Schoenberger

Small Group Discussion

Five groups, 1 hour per each visiting professor Free discussion

The 2nd Chiba University G-COE Workshop

February 21, 2009, the 2nd Lecture Hall, Main Building 1F, Faculty of Medicine, Chiba University

"Presentation and discussion by G-COE-RA"

All the programs were carried out in English, which aimed to nourish the ability internationallyactive. The G-COE-RA made an oral presentation on his or her research activity with discussion. Besides the supervisory professor, two advisers, who are appointed from this faculty for each RA, gave advice and comments to the presentation. Some RA gave feedback that it was a good opportunity to continue studying how to make a presentation in English. The participants stood out 92 showing the great interests in our Global COE program among gradu-ate students.

In addition, video recording their presentations was delivered to each RA in order to help RA not only for skill-up English communication but also learn positive behavior at international settings. We look forward to the next time.



D. Kashiwakuma





M. Kuwahara



R. Uchiyama



N. Kikkawa



J. Ikari



K. Shinozuka



PROGRAM

Coordinated by Kazuo Suzuki

Saturday, February 21 Chair: Kazuo Suzuki

Opening remarks by Toshinori Nakayama Program Leader

Session I

Chair: Toshinori Nakayama

Atsushi Miyajima

Lab. of Pharmacology and Toxicology "Epigenetic regulation of pharmacokinetics-associated gene expression by DNA methylation'

Jiro Terada

Dept. of Autonomic Physiology

"Molecular mechanisms of cell-cell communication in pancreatic islets -A clue essential for renovating islets in autoimmune diabetes mellitus-

Kaori Kinoshita

Dept. of Pediatrics "Research on the mechanism of tissue-specific imprinting in human GNAS gene"

Naoko Kikkawa

Dept. of Otorhinolaryngology, Head and Neck Surgery

"Identification of novel therapeutic microRNAs in head and neck squamous cell carcinoma'

Daisuke Kashiwakuma

Dept. of Molecular Genetics

"Development and characterization of IL-21-producing CD4+T cells"

Session II

Chair: Kazuo Suzuki

Masavuki Kano

Dept. of Frontier Surgery

"Development of a novel cancer vaccination using heat shock protein Gp96"

Junji Moriya

Dept. of Cardiovascular Science and Medicine
"A pathological role of

Semaphorin3E/PlexinD1 in impaired angiogenesis of diabetes

Raita Uchiyama

Dept. of Cardiovascular Science and Medicine

"Effect of granulocyte colony-stimulating factor on atherosclerosis in Apolipoprotein E-deficient mice"

Motoyoshi Kurosaki

Dept. of Otorhinolaryngology "Migration of α-Galcer-pulsed antigen presenting cells after submucosal or subcutaneous injection in patients with head and neck cancer

Guangyu Ma

Dept. of Environmental Biochemistry
"Novel immune gene therapy for malignant tumors

Chair: Takeshi Tokuhisa Session III

apoptosis"

Akane Suzuki Dept. of Immunology
"Polycomb group gene product
Ring1B regulates Th2-dependent airway inflammation through the control of Th2 cell differentiation and

Yusuke Endo
Dept. of Immunology
"Identification of IL-5 producing
CD62L" CXCR3" memory Th2 cells
and their roles in allergic airway inflammation"

Kenta Shinoda Dept. of Immunology
"Role of CD69 for the generation and function of memory CD4T cells"

Arifumi Iwata
Dept. of Allergy and Clinical Immunology
"Protective roles of B and T lymphocyte attenuator (BTLA) in NKT cell-mediated experimental hepatitis"

Masako Kimura-Sato Dept. of Public Health "The role of matrix metalloproteinase (MMP)-3 in the pathophysiology of bronchial asthma"

Session IV Chair: Hiroshi Nakajima

Keiji Shinozuka Dept. of Clinical Molecular Biology "Identification of Cisplatinresistance related genes in head and neck squamous cell carcinoma"

Jun Ikari Dept. of Developmental Genetics
"A critical role of Bcl6 in expression of the CC-type chemokine genes and pulmonary epithelial cell-mediated inflammation"

Jin Yuan Dept. of Cellular and Molecular Medicine "Role of Bmi1 in leukemic stem cell"

Makoto Kuwahara Dept. of Immunology "Regulation of GATA3-dependent immune responses by the transcription factor Sox4"

Kikuko Ikeda Dept. of Molecular Cell Biology
"Trafficking of Lyn tyrosine kinase to the Golgi and the nucleus"





















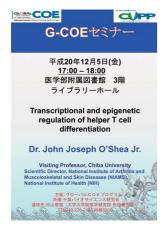


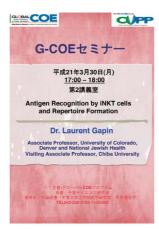


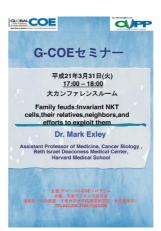


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G-COE Seminar















Basic Science Joint Meeting (BSJM) Coordinated by PhD student working group, Chief:Atsushi Onodera

- 1. Nov 21, 2008 17:00-18:00 Takashi Miki, Professor, Dept. of Autonomic Physiology
- 2. Dec 5, 2008 17:00-18:00 John Joseph O'Shea Jr, Scientific Director, National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS), NIH, USA Visiting Professor, Chiba Univ.
- 3. Dec 12. 2008 17:00-18:00 Shinichiro Motohashi, Associate Professor, Dept. of Medical Immunology
- 4. Jan 9, 2009 18:00-19:00 Kayo Inaba, Professor, Lab. of Immunobiology, Grad. Sch. of Biostudies, Kyoto Univ.
- 5. Jan 16, 2009 17:00-18:00 Daisuke Tohyama, Graduate Student, Dept. of Neurobiology
- 6. Feb 13. 2009 17:00-18:00 Masafumi Arima, Assistant Professor, Dept. of **Developmental Genetics**

- 7. Feb 27, 2009 17:00-18:00 Damon Tumes, G-COE Fellow, Dept of Immunology
- 8. Mar 6, 2009 17:00-18:00 Arifumi Iwata, G-COE RA, Dept. of Allergy and Clinical Immunology
- 9. Apr 3, 2009 17:00-18:00 Shiki Takamura, Assistant Professor, Dept. of Immunology, Kinki Univ. Sch. of Med.
- 10. Apr 10, 2009 17:00-18:00 Lisa Fujimura, Assistant Professor, Biomedical Research Center
- 11. Apr 17, 2009 17:00-18:00 Koji Tokoyoda, G-COE Assistant Professor, Dept. of **Immunology**
- 12. Apr 24, 2009 17:00-18:00 Koji Yasutomo, Professor, Dept. of Immunology & Parasitology, Institute of Health Biosciences, The Univ. of Tokushima Grad, Sch.

Upcoming Events

The 2nd Chiba University G-COE Symposium "Differentiation and Function of Lymphocytes"

Date: May 29, 2009

Venue: The 1st auditorium, University Hospital 3F

The 3rd Chiba University G-COE Workshop

Date: May 30, 2009

Venue: Main Building, Faculty of Medicine, Chiba University

The 4th Chiba University G-COE Workshop (Presentation and discussion by G-COE-RA)

Date: June 13, 2009

Venue: The 1st Lecture Hall, Main Building 1F, Faculty of Medicine, Chiba University

RCAI International Summer Program 2009 (co-organized by G-COE Program)

Date: July 3-10, 2009

Venue: Riken Research Center for Allergy and Immunology

Chiba University G-COE Retreat 2009

Date: September 5 - 6, 2009 Venue: Nihon Aerobics Center

The 3rd Chiba University G-COE Symposium

Date: November 6, 2009 Venue: Chiba University

The 5th Chiba University G-COE Workshop (Presentation and discussion by G-COE-RA)

Date: February 20, 2010

Venue: The 1st Lecture Hall, Main Building 1F, Faculty of Medicine, Chiba University

Office

Global COE Program Office was opened this April, next to the office of the management group Main Building 1F, Faculty of Medicine. Please feel free to inquiry.

Global COE Program Office

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