

The 4th International Symposium of Clinical Immunology

Program

Thursday 15 May 2025

Opening Address

9:00-9:10

Hideto Kameda (President, the 4th International Symposium of Clinical Immunology)

Morning Seminar 1

9:10-10:00

Secondary hypogammaglobulinemia in rheumatologic disorders

Sponsored by CSL Behring K.K.

Chairs Tomohiro Morio (Laboratory of Immunology and Molecular Medicine, Advanced Research Institute, Institute of Science Tokyo, Tokyo, Japan)

Hiroaki Dobashi (Division of Hematology, Rheumatology and Respiratory Medicine, Department of Internal Medicine, Faculty of Medicine, Kagawa University, Kagawa, Japan)

MS1 Secondary hypogammaglobulinemia in rheumatologic disorders

Antoine Azar (Interim Director, Division of Allergy and Clinical Immunology, The Johns Hopkins University School of Medicine, Baltimore, Maryland, USA)

Symposium 1

10:10-11:40

Dynamics of clinical immunology

Chairs Rei Watanabe (Department of Dermatology, Juntendo University Faculty of Medicine, Tokyo, Japan)

Yuichiro Fujieda (Department of Rheumatology, Endocrinology and Nephrology, Hokkaido University, Sapporo, Japan)

S1-1 Role of chronic inflammation in MASLD

Sachiyo Yoshio (Department of Human Immunology and Translational Research, National Institute for Global Health and Medicine, Japan Institute for Health Security, Tokyo, Japan)

S1-2 New Insight into the Role of the Tankyrase-RNF146-3BP2 Axis for the immune system

Yoshinori Matsumoto (Department of Nephrology, Rheumatology, Endocrinology and Metabolism, Okayama University Faculty of Medicine, Dentistry and Pharmaceutical Sciences, Okayama, Japan)

S1-3 Understanding the role of CD8⁺ T cells in neurological disease

Norio Chihara (Division of Neurology, Kobe University Graduate School of Medicine, Kobe, Japan)

S1-4 Aging Promotes ER Stress-Associated Dysfunction in Tumor-Infiltrating CD8⁺ T Cells

Tomonori Yaguchi (Department of Immunology and Genomic Medicine, Center for Cancer Immunotherapy and Immunobiology, Kyoto University Graduate School of Medicine, Kyoto, Japan)

S1-5 Molecular Orchestration of Age-Associated B Cells in Autoimmunity

Nan Shen (Shanghai Institute of Rheumatology, Renji Hospital Shanghai JiaoTong University School of Medicine, China)

Educational Lecture 1

11:50-12:40

Advancements in the Treatment of Rheumatoid Arthritis and Psoriatic Arthritis

Sponsored by Eli Lilly Japan K.K.

Chairs Naoto Tamura (Department of Internal Medicine and Rheumatology, Juntendo University School of Medicine, Tokyo, Japan)

Sachiko Miyake (Department of Immunology, Juntendo University School of Medicine, Tokyo, Japan)

EL1-1 Management of Psoriatic Arthritis: Update

Mitsumasa Kishimoto (Department of Nephrology and Rheumatology, Kyorin University School of Medicine, Tokyo, Japan)

EL1-2 Myeloid Cells and JAK Inhibitors in Rheumatoid Arthritis

Keishi Fujio (Department of Allergy and Rheumatology, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan)

Luncheon Seminar 1

13:00-13:50

Sponsored by ASAHI KASEI PHARMA CORPORATION

Chair Yoshiya Tanaka (Department of Molecular Targeted Therapeutics, School of Medicine, University of Occupational and Environmental Health, Japan)

LS1-1 Tips for CAR-T cell therapy in Hematology: Establishment and development of Cytotherapy Management Sciences

Yasuyuki Arai (Department of Hematology / Department of Cytotherapy, Kyoto University Hospital, Kyoto, Japan)

LS1-2 Chimeric antigen receptor T (CAR-T) cell therapy for autoimmune diseases

Shingo Nakayamada (First Department of Internal Medicine, University of Occupational and Environmental Health, Japan, Kitakyushu, Japan)

Educational Lecture 2

14:00-14:50

Sponsored by AstraZeneca K.K.

Chairs Kunihiro Yamaoka (Department of Rheumatology, Kitasato University School of Medicine, Sagamihara, Japan)

Hiroshi Nakajima (Department of Allergy and Clinical Immunology, Graduate School of Medicine, Chiba University, Chiba, Japan)

EL2-1 The role of type I interferon in systemic lupus erythematosus and its potential as a therapeutic target

Shigeru Iwata (Department of Rheumatology and Clinical Immunology, Wakayama Medical University, Wakayama, Japan)

EL2-2 Advances in the Pathophysiology and Treatment of Eosinophilic Granulomatosis with Polyangiitis (EGPA)

Toshihiko Komai (Department of Allergy and Rheumatology, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan)

Oral Session

15:00-16:00

Chairs Jun Miyoshi (Department of Gastroenterology and Hepatology, Kyorin University School of Medicine, Tokyo, Japan)

Kosuke Fujimoto (Department of Immunology and Genomics, Graduate School of Medicine, Osaka Metropolitan University, Osaka, Japan / Division of Metagenome Medicine, Human Genome Center, The Institute of Medical Science, The University of Tokyo, Tokyo, Japan)

O-1 Characterizing Immune Cell Signatures in Idiopathic Inflammatory Myopathies Using Single-Cell RNA Sequencing

Toshihiko Komai (Department of Allergy and Rheumatology, The University of Tokyo, Tokyo, Japan)

O-2 Regulatory function of B cells in contact hypersensitivity

Yutaka Matsumura (Department of Dermatology, Osaka University, Suita, Japan)

O-3 Cytokine receptor dynamics in Tph and Tfh cells: Unveiling new biomarkers and therapeutic targets in autoimmune diseases

Waleed Alshehri (Division of Rheumatology, Department of Internal Medicine, Keio University School of Medicine, Tokyo, Japan)

O-4 Examining the effect of Type III Interferon on intestinal epithelial cells

Yu Matsuzawa (Clinical and Diagnostic Laboratory Science, Institute of Science Tokyo, Tokyo, Japan)

O-5 Tissue-Resident Memory T cell differentiation and pathological relevance in Systemic Lupus Erythematosus

Yuya Fujita (The First Department of Internal Medicine, the University of Occupational and Environmental Health, Fukuoka, Japan)

O-6 ICOS⁺ CD4 T cells and CXCL13 as predictive biomarkers for anti-PD-(L)1 therapy-induced pneumonitis

Mari Yokoi (Division of Clinical Immunology and Cancer Immunotherapy, Center for Cancer Immunotherapy and Immunobiology, Graduate School of Medicine, Kyoto University, Kyoto, Japan)

Educational Lecture 3

16:10-17:00

What Do Autoimmune Diseases Mean for Human Adaptation?

Sponsored by Bristol Myers Squibb

Chairs Toshihiko Torigoe (Department of Pathology 1, Sapporo Medical University School of Medicine, Sapporo, Japan)

Atsushi Kawakami (Department of Immunology and Rheumatology, Division of Advanced Preventive Medical Sciences, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, Japan)

EL3-1 TYK2, HLA-B27, and more? A trade-off between immunosurveillance and autoimmunity

Masaru Kato (The First Department of Internal Medicine, University of Toyama Faculty of Medicine, Toyama, Japan)

EL3-2 Role of TYK2 in Autoimmune Animal Models

Motomu Hashimoto (Department of Clinical Rheumatology, Osaka Metropolitan University, Osaka, Japan)

Evening Seminar 1

17:10-18:00

Sponsored by AbbVie GK

Chairs Tadakazu Hisamatsu (Department of Gastroenterology and Hepatology, Kyorin University School of Medicine, Tokyo, Japan)

Shinsuke Yasuda (Department of Rheumatology, Institute of Science Tokyo, Tokyo, Japan)

ES1-1 Visualization of skin inflammation and resulting immunologic concepts

Kenji Kabashima (Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan)

ES1-2 The involvement of *MEFV* gene mutation in the pathophysiology of inflammatory bowel disease

Hiroshi Nakase (Department of Gastroenterology and Hepatology, Sapporo Medical University School of Medicine, Sapporo, Japan)

P-1 Insidious infections of *Nocardia farcinica* in immunocompetent individuals with fever of unknown origin and generalized lymphadenopathies

Le Lu (Department of Integrative Medicine, Jinling Hospital, Affiliated Hospital of Medical School, Nanjing University, Nanjing, China)

P-2 Immunophenotypic Predictors of Abatacept Response in Elderly Rheumatoid Arthritis Patients: A Focus on Regulatory T cells

Shuntaro Isogai (Department of Respiratory Medicine, Allergy and Clinical Immunology, Nagoya City University Graduate School of Medical Sciences and Medical School, Nagoya, Japan)

P-3 Naive B cells as key pathogenic contributors to interleukin-6 production in idiopathic multicentric Castleman's disease

Koichi Saito (Division of Rheumatology, Department of Internal medicine, Keio University School of Medicine, Tokyo, Japan)

P-4 PGM3-deficiency associated Hyper-IgE Syndrome: defective glycosylation leads to impairment of gp130 expression and gp130-dependent STAT3 signaling

Mohamed Ridha Barbouche (Department of Microbiology, Immunology and Infectious Diseases, Arabian Gulf University, Manama, Bahrain)

P-5 Impact of belimumab on immune phenotypes in refractory and active lupus nephritis: insights from the real-world LOOPS registry and FLOW study

Hidenori Sakai (The First Department of Internal Medicine, School of Medicine, University of Occupational and Environmental Health, Japan, Kitakyushu, Japan)

P-6 Three Cases of Severe irAE Colitis with Rapid Tumor Progression Following Infliximab Administration

Emi Yamazaki (Dermatology, Tohoku University Graduate School of Medicine, Miyagi, Japan)

P-7 Involvement of phosphodiesterase 1B in neuropsychiatric manifestations of lupus-prone mice through microglial activation

Shuhei Takeyama (Department of Rheumatology, Endocrinology and Nephrology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Sapporo, Japan)

P-8 Clinical Features of Autoimmune Hepatitis with Post-treatment Complications from Nationwide Surveys

Kazumichi Abe (Department of Gastroenterology, Fukushima Medical University, Fukushima, Japan)

P-9 Serum cytokine levels towards precision medicine in adult Still's disease: a subanalysis of a randomised controlled trial of an interleukin-6 receptor inhibitor

Koji Suzuki (Division of Rheumatology, Keio University School of Medicine, Tokyo, Japan)

P-10 Distinct roles and metabolic pathways of T-bet⁺CD11c^{high} atypical B cells compared to plasmablasts in patients with systemic lupus erythematosus
Yasuyuki Todoroki (Department of Molecular Targeted Therapies (DMTT), University of Occupational and Environmental Health, Japan, School of Medicine, Fukuoka, Japan)

P-11 Discovery of Novel MDA5 Epitopes and Their Utility in Predicting ILD Prognosis
Tsuneo Sasai (Rheumatology and Clinical Immunology, Graduate School of Medicine, Kyoto University, Kyoto, Japan)

P-12 Clinical Significance of Anti-SMN Antibodies in Patients with Rheumatic Musculoskeletal Diseases
Yuki Imai (Division of Rheumatology, Department of Internal Medicine, Keio University School of Medicine, Tokyo, Japan)

P-13 Clinical Course and Immunological Characteristics of Immune Checkpoint Inhibitor-Induced Myositis: A Case Study
Kosaku Murakami (Division of Clinical Immunology and Cancer Immunotherapy, center for Cancer Immunotherapy and Immunobiology, Graduate School of Medicine, Kyoto University, Kyoto, Japan)

P-14 Monocyte STAT1 phosphorylation and treatment response of JAK inhibitors in pediatric chronic nonbacterial osteomyelitis
Motoshi Sonoda (Pediatrics, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan)

P-15 Role of Sox4 in IL-10-producing lung regulatory T cells
Yuki Hayashi (Department of Allergy and Clinical Immunology, Chiba University, Chiba, Japan)

P-16 The Role of Interleukin-17C in Head and Neck Squamous Cell Carcinoma
Zivile Giedraityte (Department of Oral and Maxillofacial Diseases, Clinicum, University of Helsinki, Helsinki, Finland)

P-17 Roles of IFI6 and G3BP1 in placenta against SARS-CoV-2 infection during the second trimester
Kazuhide Takada (Division of Microbiology, Department of Pathology & Miceobiology, Nihon University School of Medicine, Tokyo, Japan)

P-18 T2T strategy and the glucocorticoid maintenance dose in managing systemic lupus erythematosus.
Chihiro Imaizumi (Division of Rheumatology, Department of Internal Medicine, Faculty of Medicine, Toho University, Tokyo, Japan)

P-19 RasGRP4 in synovial sublining resident macrophages is important in inflammatory arthritis
Rihan Da (Department of Rheumatology, Institute of Science Tokyo, Tokyo, Japan)

P-20 Effect of Chronic Inflammation on Reproductive Function in Infertile Patients
Hirotaka Matsumi (Matsumi Ladies Clinic, Tokyo, Japan)

P-21 Ultrasound Visualizes Peripheral Vascular Dysfunction in Finger Pulp Blood Flow in Patients with Systemic Sclerosis
Kazuhiro Komura (Department of Dermatology, Kanazawa Red Cross Hospital, Kanazawa, Japan)

P-22 Contrasting Roles of CCL5 in Podocytes and Bone Marrow-Derived Cells During Kidney Injury
Kaho Yamasaki (Department of Nephrology, Graduate School of Medicine, Chiba University, Chiba, Japan)

P-23 Dysregulation of Adaptor Protein 3BP2 Exacerbates the Arthritis Phenotype in a Rheumatoid Arthritis Mouse Model
Kazuya Matsumoto (Department of Nephrology, Rheumatology, Endocrinology and Metabolism, Okayama University Faculty of Medicine, Dentistry and Pharmaceutical Sciences, Okayama, Japan)

P-24 Possible implications of innate autoimmunity in the pathogenesis of Kawasaki disease-like murine vasculitis
Akihiro Nakamura (Central Research Facility, Graduate School of Medical Science, Kyoto Prefectural University of Medicine, Kyoto, Japan)

P-25 Current advances in understanding the immunology of atherosclerosis
Stanislav Kotlyarov (Ryazan State Medical University, Ryazan, Russia)

P-26 Nociceptors modulate dermal cDC1 via CGRP signaling to drive autoreactive CD8⁺ T cell responses in vitiligo
Xiuli Yang (Precision Research Center for Refractory Diseases, Institute for Clinical Research, Shanghai General Hospital, Shanghai Jiao Tong University School of Medicine, Shanghai, China)

Morning Seminar 2

9:00-9:50

Multi-disciplinary expert meeting:targeting IL-23 for immune-mediated disease

Sponsored by Janssen Pharmaceutical K.K.

Chairs Yoshihide Asano (Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai, Japan)

Yuko Kaneko (Division of Rheumatology, Department of Internal Medicine, Keio University School of Medicine, Tokyo, Japan)

MS2-1 IL-23 driven Th17 cells in intestinal mucosa: from discovery to become a therapeutic target

Masayuki Fukata (Center for Inflammatory Bowel Disease, Department of Internal Medicine, Tokyo Yamate Medical Center, Japan Community Healthcare Organization, Tokyo, Japan)

MS2-2 Early Intervention in Psoriasis: Insights from the GUIDE Study

Knut Schäkel (Department of Dermatology, Heidelberg University, University Clinic, Heidelberg, Germany)

Symposium 2

10:00-11:30

Difficult-to-manage immune-mediated inflammatory diseases

Chairs Shinsuke Yasuda (Department of Rheumatology, Institute of Science Tokyo, Tokyo, Japan)

Takaki Asano (Department of Pediatrics, Hiroshima University Graduate School of Biomedical & Health Sciences, Hiroshima University, Hiroshima, Japan)

S2-1 Myositis-Associated Interstitial Lung Disease

Ran Nakashima (Rheumatology and Clinical Immunology, Kyoto University Hospital, Kyoto, Japan)

S2-2 Recent advances in the pathogenesis of neuropsychiatric systemic lupus erythematosus

Michihito Kono (Department of Rheumatology, Endocrinology and Nephrology, Faculty of Medicine, Hokkaido University, Sapporo, Japan)

S2-3 Pathophysiology of treatment-resistant rheumatoid arthritis: Is it inevitable?

Haruka Tsuchiya (Department of Allergy and Rheumatology, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan)

S2-4 Navigating the complex landscape of mixed connective tissue disease

Satoshi Kubo (Department of Molecular Targeted Therapies, University of Occupational and Environmental Health, Japan, Kitakyushu, Japan)

S2-5 Juvenile systemic sclerosis in 2025: clinical and therapeutic aspects

Francesco Zulian (Associate Professor of Pediatrics, Director, Pediatric Rheumatology Unit, Department of Woman's and Child's Health, University Hospital of Padua, Italy)

Educational Lecture 4

11:40-12:30

Sponsored by Otsuka Pharmaceutical Co., Ltd.

Chairs Tsutomu Takeuchi (President, Saitama Medical University, Saitama, Japan / Emeritus Professor, Keio University, Tokyo, Japan)

Tatsuya Atsumi (Department of Rheumatology, Endocrinology and Nephrology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Sapporo, Japan)

EL4 Epidemiology and issues of lupus nephritis in Asia

Sandra V. Navarra (University of Santo Tomas, Manila, Philippines)

Luncheon Seminar 2

12:50-13:40

Sponsored by Mitsubishi Tanabe Pharma Corporation

Chairs Koh-Hei Sonoda (Department of Ophthalmology, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan)

Kei Ikeda (Department of Rheumatology, Dokkyo Medical University, Tochigi, Japan)

LS2-1 TNFa in rheumatoid arthritis - for a cross-sectional understanding of autoimmune diseases

Isao Matsumoto (Department of Rheumatology, Institute of Medicine, University of Tsukuba, Tsukuba, Japan)

LS2-2 Update on the pathomechanism and treatment of neuromyelitis optica spectrum disorders

Noriko Isobe (Department of Neurology, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan)

Educational Lecture 5

13:50-14:40

Pathogenesis and Cutting-edge Treatment of Psoriatic Arthritis

Sponsored by UCB Japan Co. Ltd.

Chairs Hideto Kameda (Division of Rheumatology, Department of Internal Medicine, Toho University, Tokyo, Japan)

Rei Watanabe (Department of Dermatology, Faculty of Medicine, Juntendo University, Tokyo, Japan)

EL5 Pathogenesis and Cutting-edge Treatment of Psoriatic Arthritis

Stefan Siebert (School of Infection and Immunity, University of Glasgow, Glasgow, United Kingdom)

Diverse domains in spondyloarthritides

Chairs Hideto Kameda (Division of Rheumatology, Department of Internal Medicine, Toho University, Tokyo, Japan)

Mitsumasa Kishimoto (Department of Nephrology and Rheumatology, Kyorin University School of Medicine, Tokyo, Japan)

S3-1 Uveitis in Spondyloarthritides

Koh-Hei Sonoda (Department of Ophthalmology, Graduate School of Medical Science, Kyushu University, Fukuoka, Japan)

S3-2 Clinical manifestations of PAO(CNO with PPP/SAPHO syndrome) in Japan and Asia

Mitsumasa Kishimoto (Department of Nephrology and Rheumatology, Kyorin University School of Medicine, Tokyo, Japan)

S3-3 Psoriasis and the development of psoriasis arthritis: pathogenesis and prevention

Knut Schäkel (Department of Dermatology, University of Heidelberg, University Clinic, Heidelberg, Germany)

S3-4 Advances in the Understanding and Management of Axial Spondyloarthritis

Stefan Siebert (School of Infection and Immunity, University of Glasgow, UK)

Closing Remarks

Hideto Kameda (President, the 4th International Symposium of Clinical Immunology)

Isao Matsumoto (President, the 5th International Symposium of Clinical Immunology)

Hiroshi Nakajima (President, the 53rd Annual Meeting of the Japanese Society of Clinical Immunology)