Some changes have been made to the presentation order, but the speakers remain unchanged.

Program

DAY 1, TUESDAY, OCTOBER 27, 2026

14:00–16:00 Registration

16:00–16:05 Opening Remarks: Masaaki MURAKAMI

16:05–17:45 Plenary Lectures

Chairs: Masaaki MURAKAMI
Hiroshi TAKAYANAGI

16:05–16:55 [PL-1]

Treatment of immunological diseases by converting disease-mediating T cells into Tregs ····· 32

Shimon SAKAGUCHI

(Immunology Frontier Research Center, The University of Osaka, Japan / Institute for Life and Medical Sciences, Kyoto University, Japan)

16:55–17:45 [PL-2]

The DNMT-TET-ASXL-OGT axis disrupts heterochromatin integrity in clonal haematopoiesis, cancer, inflammation and ageing ····· 34

Anjana RAO

(Division of Signaling and Gene Expression, La Jolla Institute for Immunology, USA)

17:45–17:55 Short Break

17:55–18:55 Roundtable Discussion with Nobel Laureate Dr. Sakaguchi ····· 36

Panelists: Shimon SAKAGUCHI
Masaaki MURAKAMI
Atsushi KUMANOGOH
Hiroyoshi NISHIKAWA
Facilitator: Izumi NAITO

19:05–20:30 Welcome Reception

DAY 2, WEDNESDAY, OCTOBER 28, 2026

9:00–12:00 Session A

Gut-brain Axis in Immunity and Metabolism

Chairs: Takanori KANAI
Elaine Y. HSIAO

9:00–9:30 [A-1]

Sensory neurons as regulators of immunity, tissue homeostasis, and disease ····· 38

Felipe RIBEIRO

(Washington University School of Medicine, USA)

9:30–10:00 [A-2]
Volitional control of internal organs ……40
Yuji IKEGAYA
(The University of Tokyo, Japan)

10:00–10:30 [A-3]
Microbiome-neuroimmune interactions via gut serotonin ……42
Elaine Y. HSIAO
(University of California, USA)

10:30–11:00 Coffee Break

11:00–11:30 [A-4]
A hypothalamic pathway that signals social stress as pain ……44
Makoto TSUDA
(Kyushu University, Japan)

11:30–12:00 [A-5]
Upper small intestinal bacteria-mediated sugar preference ……46
Takanori KANAI
(Keio University School of Medicine, Japan / AMED-CREST Project,
Japan Agency for Medical Research and Development, Japan)

12:00–12:15 Group photo

12:15–14:00 Lunch

14:00–17:00 Session B
Neuro-osteoimmunology

Chairs: Hiroshi TAKAYANAGI
Mone ZAIDI

14:00–14:30 [B-1]
Can we treat osteoporosis, obesity, and Alzheimer's disease with a single FSH-blocking drug? ……48
Mone ZAIDI
(Icahn School of Medicine at Mount Sinai, USA)

14:30–15:00 [B-2]
RANKL – bones, sex, and mammalian evolution ……50
Josef PENNINGER
(Helmholtz Centre for Infection Research (HZI))

15:00–15:30 [B-3]
Spatio-functional heterogeneity of resident macrophages forming tissue-specific chronic inflammation ……52
Masaru ISHII
(The University of Osaka Graduate School of Medicine, Japan)

15:30–16:00 Coffee Break

16:00–16:30 [B-4]
Foxp3 and the epigenetic and functional identity of Treg cells ……54
Shohei HORI
(The University of Tokyo, Japan)

16:30–17:00 [B-5]
Central innate immune memory in heart failure and multimorbidity ……56
Ichiro MANABE
(Graduate School of Medicine, Chiba University, Japan)

17:00–17:10 Short Break

17:10–18:10 Short Talk I
Chairs: Masaaki MURAKAMI
Hiroshi TAKAYANAGI

17:10–17:22 [PS-11]
Qian LYU ……115
(The University of Osaka, Japan)

17:22–17:34 [PS-13]
Keisuke WATANABE ……119
(National Cancer Center, Japan)

17:34–17:46 [PS-21]
Koji KITAOKA ……130
(Kyoto University, Japan)

17:46–17:58 [PS-27]
Hitomi NISHINAKAMURA ……136
(National Cancer Center, Japan)

17:58–18:10 [PS-43]
Takahiro HORIUCHI ……156
(Tohoku University, Japan)

18:20–19:30 Dinner

19:30–21:30 Poster Session I (Odd Number Posters)

DAY 3, THURSDAY, OCTOBER 29, 2026

9:00–12:00 Session C
Mechanisms of Immunological Diseases and Treatment Potential in Pre-Disease Conditions
Chairs: Masaaki MURAKAMI
Han-Yu SHIH

9:00–9:30 [C-1]
Influence of MHC-II polymorphisms on autoimmune T cell repertoire development and function ……58
Eric HUSEBY
(UMass Chan Medical School, USA)

9:30–10:00 [C-2]
Frontiers of osteoimmunology and its extended impact on cancer research and neuroscience ····60
Hiroshi TAKAYANAGI
(The University of Tokyo, Graduate School of Medicine, Japan / University of Rochester Medical Center, USA)

10:00–10:30 [C-3]
Axon guidance molecules as integrators of neural–metabolic–immune homeostasis ····62
Atsushi KUMANOGOH
(The University of Osaka, Japan)

10:30–11:00 Coffee Break

11:00–11:30 [C-4]
Decoding lymphocyte regulome in homeostasis, inflammation, and neurodegeneration ····64
Han-Yu SHIH
(National Institutes of Health, USA)

11:30–12:00 [C-5]
Challenges in Human Immunology: Regulatory mechanisms of tissue-specific inflammatory diseases ····66
Masaaki MURAKAMI
(Institute for Genetic Medicine, Hokkaido University, Japan / Institute for Quantum Life Science, National Institutes for Quantum Science and Technology (QST) / National Institute for Physiological Sciences, National Institutes of Natural Sciences)

12:00–14:00 Lunch

14:00–17:00 Session D
Frontiers in Research on Metabolic Homeostasis and Diabetes

Chairs: Hideki KATAGIRI
Sarah STANLEY

14:00–14:30 [D-1]
Neural circuits regulating blood glucose ····68
Sarah STANLEY
(Icahn School of Medicine, USA)

14:30–15:00 [D-2]
Brain-body interaction for fluid regulation ····70
Yuki OKA
(California Institute of Technology, USA)

15:00–15:30 [D-3]
Inter-organ metabolic coordination mechanisms for maintaining glucose homeostasis at the whole-body level ····72
Hideki KATAGIRI
(Tohoku University Graduate School of Medicine, Japan)

15:30–16:00 Coffee Break

16:00–16:30 [D-4]
The organ- and pathology-specific redoxome landscapes pinpointing oxidized and reduced cysteine residues ····· **76**
Toshinari TAKAMURA
(Kanazawa University Graduate School of Medical Sciences, Japan)

16:30–17:00 [D-5]
Host metabolic regulation by gut microbial metabolites and FFAR ····· **80**
Ikuo KIMURA
(Kyoto University, Japan)

17:00–17:10 Short Break

17:10–18:10 Short Talk II

Chairs: Masaaki MURAKAMI
Hideki KATAGIRI

17:10–17:22 [PS-04]
Kazuo OKAMOTO ····· **105**
(Cancer Research Institute, Kanazawa University, Japan)

17:22–17:34 [PS-06]
Michio MIYAJIMA ····· **108**
(The University of Tokyo, Japan)

17:34–17:46 [PS-10]
Hiroyuki YOSHITOMI ····· **114**
(Graduate School of Medicine, Kyoto University, Japan / Kyoto University Immunomonitoring Center, Japan / Institute for the Advanced Study of Human Biology, Kyoto University, Japan)

17:46–17:58 [PS-38]
Toshiaki TERATANI ····· **150**
(Keio University School of Medicine, Japan)

17:58–18:10 [PS-48]
Takahiro YAMADA ····· **167**
(Yale School of Medicine, USA)

18:20–19:30 Dinner

19:30–21:30 Poster Session II (Even Number Posters)

DAY 4, FRIDAY, OCTOBER 30, 2026

9:00–11:45 Session E

Inflammation and Cancer - Toward Cancer Prevention and Super-Early Detection -

Chairs: Hiroyoshi NISHIKAWA
Jedd WOLCHOK

9:00–9:30 [E-1]
Interplay with microenvironment provokes tumor formation in the kidney ····· **82**
Hiroyuki MANO
(National Cancer Center, Japan)

9:30–10:00 [E-2]
Immunogenomic cancer evolution controls immune landscapes in the tumor microenvironment ····· **84**
Hiroyoshi NISHIKAWA
(Division of Cancer Immune Multicellular System Regulation, Center for Cancer Immunotherapy and Immunobiology (CCII), Graduate School of Medicine, Kyoto University, Japan / Division of Cancer Immunology, Research Institute, National Cancer Center Japan, Japan / Department of Immunology, Nagoya University Graduate School of Medicine, Japan)

10:00–10:30 [E-3]
Advancing T cell therapies for solid tumors through target discovery, metabolic modulation, and exhaustion resistance ····· **86**
Jedd WOLCHOK
(Weill Cornell Medicine, USA)

10:30–10:45 Coffee Break

10:45–11:15 [E-4]
Immune cells derived from clonal hematopoiesis regulate cancer progression ····· **92**
Mamiko SAKATA-YANAGIMOTO
(University of Tsukuba, Japan)

11:15–11:45 [E-5]
Using immune-based approaches early in therapy ····· **96**
James L. GULLEY
(National Cancer Institute Center for Cancer Research, USA)

11:45–11:50 Information of Naito Grants

11:50–12:00 Announcement of Award Recipients

12:00–12:05 Closing Remarks: Masaaki MURAKAMI

12:05–13:00 Lunch