

Monday 13th March 2017

15:00 – 17:00

Registration, poster display, and travel award collection

17:00 – 19:00

Keynote lectures (chaired by Yousuke Takahama)

Jonathan Sprent (Garvan Institute)
The Thymus: From the Greeks to Miller

Shigeo Koyasu (Riken)
From T cell to ILC

Nagahiro Minato (Kyoto University)
Aging of Immunity and Immunity in Aging

19:00 – 20:00

Welcome drink

Tuesday 14th March 2017

8:45 – 10:25

Thymus organogenesis (chaired by Nancy Manley and Yoko Hamazaki)

Nancy Manley (University of Georgia)

A molecular mechanism controlling fetal TEC differentiation

Clare Blackburn (University of Edinburgh)

A mechanistic framework for early TEC differentiation

Ellen Richie (MD Anderson Cancer Center)

Molecular regulators and targets of Tbx1 in fetal TEC

10 min - Noam Kadouri (Weizmann Institute of Science)

HDAC1/2 regulate Foxn1 expression and thymus organogenesis

10 min - Brian Larsen (NCI NIH)

The identification of regulatory elements critical for the expression of Foxn1 in thymic epithelial cells

10 min - Carlos Mayer (University of Basel)

Cracking a 200-piece puzzle: Decryption of TEC development – one cell at a time

10 min - Shir Nevo (Weizmann Institute of Science)

Decomposition of the thymic stroma by massively parallel single cell transcriptome analysis

Coffee break

10:55 – 12:15

Thymic epithelial cells (chaired by Graham Anderson and Izumi Ohigashi)

Georg Hollander (University of Basel and University of Oxford)

Polycomb repressive complex 2 is essential for regular thymic epithelial cell development and function

Ann Chidgey (Monash University)

Defining the requirements for postnatal thymic epithelial progenitor cell self-renewal and differentiation

10 min - Julie Sheridan (WEHI)

Intrathymic mesenchymal progenitor cells lacking epithelial differentiation capacity form thymospheres.

10 min – Sayumi Fujimori (Okazaki Institute for Integrative Bioscience)

Activation of Wnt/ β -catenin signaling in thymic epithelial progenitors

10 min - Stephanie de Barros (UCLA)

VEGF regulates neonatal thymic epithelium indirectly through NRPI signaling on thymic mesenchyme

10 min - Matous Voboril (Institute of Molecular Genetics, Prague)

Toll-like receptor signaling in thymic epithelial cells

Break (lunch)

13:45 – 16:15

Thymic medulla (chaired by Jakub Abramson and Manami Itoi)

Graham Anderson (University of Birmingham)
Regulation of the thymic medulla by the type 2 IL4 receptor

Part Peterson (University of Tartu)
APECED autoimmunome

Jakub Abramson (Weizmann Institute of Science)
Aire hijacks DNA damage machinery to induce promiscuous gene expression in the thymus

Matthieu Giraud (Paris Descartes University)
3'UTR shortening of Aire-sensitive genes contributes to their induced stable expression in the thymic epithelium

Hiroyuki Takaba (University of Tokyo)
T cell selection mediated by Fezf2 in thymus

Ludger Klein (Ludwig-Maximilians University)
Clonal deletion vs clonal diversion: Shaping of the polyclonal CD4 T cell repertoire by a CNS auto-antigen

10 min - Taishin Akiyama (University of Tokyo)
RANK and CD40 signaling promote development of mature conventional dendritic cells in the thymus

10 min - Yoko Hamazaki (Kyoto University)
Neutrophil recruitment and activation by Hassall's corpuscles

10 min - Jessica Lancaster (University of Texas at Austin)
2-photon imaging reveals distinct contributions of dendritic cells versus medullary thymic epithelial cells to central tolerance induction in response to tissue restricted antigen variants

Coffee break

16:40 – 19:00

Lineage commitment (chaired by David Wiest and Ichiro Taniuchi)

Hans-Reimer Rodewald (DKFZ)
Deciphering hematopoietic pathways emerging from stem cells in vivo

Ellen Rothenberg (California Institute of Technology)
Transcriptional and epigenetic control of lineage commitment via Bcl11b activation in early T cells

JC Zuniga-Pflucker (University of Toronto)
RBPJ-Inducible in vivo system for addressing the Notch signaling requirements throughout T-cell development

Freddy Radtke (EPFL)
Tcf7 - Lineage repressor and essential mediator of Notch-induced T-ALL

Ichiro Taniuchi (IMS Riken)
Evolutionarily conserved splice variant of Cbfb confers homing capacity to pre-thymic progenitors

10 min - Masaki Miyazaki (Kyoto University)

Innate versus adaptive lymphoid cell fate is controlled by the E-Id protein axis

10 min - Chintan Parekh (UCLA)

BCL11B is a key regulator of the initial stages of human thymopoiesis

10 min - Hiroyuki Hosokawa (California Institute of Technology)

PU.1 regulates gene expression in early T cells via redirection of transcription factor ensembles

10 min - Tomokatsu Ikawa (IMS Riken)

A critical role of non-canonical PRC1 for specification to lymphoid lineage

Wednesday 15th March 2017

8:45 – 10:05

Thymocyte development (chaired by Katia Georgopoulos and Yasutoshi Agata)

Cornelis Murre (UCSD)

Nuclear architecture and thymocyte development

Katia Georgopoulos (Harvard Medical School)

Super-enhancer reprogramming drives a B cell-epithelial transition and high-risk leukemia

10 min - Matthew McCormack (WEHI)

Lmo2-induced repression of IL-7 receptor impedes cellular competition to promote Notch mutations during T-cell leukemogenesis

10 min - Katsuto Hozumi (Tokai University)

Essential role of Lmo2 for the maintenance of T-cell differentiation potential in Ebf1-deficient pro-B cells

10 min - Chia-Jui Ku (University of Michigan)

A Gata3 transcriptional switch regulates Tcrb allelic exclusion

10 min - Yasutoshi Agata (Shiga University of Medical Science)

E2A and CBP/p300 regulate chromosome dynamics of the TCRb locus

Coffee break

10:35 – 11:55

Thymocyte diversity (chaired by JC Zuniga-Pflucker and Tomokatsu Ikawa)

David Wiest (Fox Chase Cancer Center)

A genome wide view of $\gamma\delta$ lineage commitment

Dale Godfrey (University of Melbourne)

Development and diversity of MRI-restricted alpha beta and gamma delta T cells

10 min - Michele Anderson (University of Toronto)

Delineation of two distinct subsets of IL-17 producing gamma-delta T cells by developmental dependence on HEB and expression of CD73

10 min - Howard Xue (University of Iowa)

All is useful: defining the requirements for Tcf1 short isoforms in T cell development and responses

10 min - Christelle Harly (NCI NIH)

T cell factor-1 controls cellular growth and proliferation at β -selection

10 min - Takehito Sato (Tokai University)

Metabolic change plays a role in CD4/8 T cell fate decision?

Group photo

Break (lunch)

13:40 – 15:30

Thymocyte selection (chaired by Harumi Suzuki and Motoko Kimura)

Alfred Singer (NCI NIH)

MHC-restricted TCR recognition is the result of CDR3 sequence constraints imposed during thymic selection

Nicholas Gascoigne (National University of Singapore)

Themis and the control of T cell receptor signaling strength during differentiation

Yousuke Takahama (University of Tokushima)

cTEC-dependent positive selection of CD8 T cells

10 min - Rushika Wirasinha (Monash University)

TCR signal strength at the CCR7- stage of thymocyte development partitions $\alpha\beta$ T cells towards the intestine or spleen

10 min - Andreas Krueger (Hannover Medical School and Goethe University Frankfurt)

The role of microRNA miR-181a/b-1 in thymic selection

10 min - Tadashi Yokosuka (Tokyo Medical University)

Microclusters as a signaling unit for T cell receptor endocytosis

10 min - Dominic Golec (University of Alberta)

Agonist selection of TCR $\alpha\beta$ CD8 $\alpha\alpha$ intestinal intraepithelial lymphocytes requires RasGRP1

10 min - Shawn Fahl (Fox Chase Cancer Center)

Regulation of $\gamma\delta$ T cell development and function by Tcf7 is linked to altered TCR responsiveness

Coffee break

16:00 – 18:30

Thymocyte differentiation (chaired by Stephen Jameson and Takehito Sato)

Remy Bosselut (NCI NIH)

Control of CD4⁺ T cell effector differentiation by the transcription factors Thpok and LRF

Lauren Ehlich (University of Texas at Austin)

CCR7 modulates the generation of thymic regulatory T cells by altering the composition of the thymic dendritic cell compartment

Kris Hogquist (University of Minnesota)

CCR7 defines a multipotent progenitor for iNKT cells in thymus and periphery

Roland Scollay (Independent)

Cellular dynamics in the thymic medulla - many questions remain

10 min - Satoshi Kojo (IMS Riken)

Helper-lineage dominant activity of maturation enhancer in the Cd4 gene is controlled by a silencer-independent and Runx-dependent mechanism

10 min - Miho Shinzawa (NCI NIH)

Impact of 'coreceptor competition' on thymic selection

10 min - Emilie Cosway (University of Birmingham)

Lymphotoxin β receptor signals on thymic stroma regulate the intrathymic dendritic cell pool for central tolerance

10 min - Akira Takeda (University of Turku)

Thymocytes in Lyve1-CRE/S1pr1^{ff} mice accumulate in the thymus due to cell-intrinsic loss of sphingosine-1-phosphate receptor expression

10 min - Tomoya Narita (University of Tokyo)

The Skint gene family is specialized in regulating V γ 5V δ 1 T cells

Adrian Hayday (Francis Crick Institute and King's College London)

Butyrophilins and their relatives are critical regulators of gamma delta cell biology in mice and man

18:30 – 19:30

Poster presentation I + drink

19:30 – 21:30

Mixer

Thursday 16th March 2017

8:45 – 10:15

T cell memory (chaired by Toshinori Nakayama and Masakatsu Yamashita)

Toshinori Nakayama (Chiba University)

Memory type pathogenic Th2 (Tpath2) cells in airway inflammation

J Victor Garcia (University of North Carolina at Chapel Hill)

In vivo analysis of human tissue-resident memory T cells

10 min - Takeshi Yamada (Ehime University)

Histone H3K27 demethylase negatively controls memory formation of Ag-stimulated CD8⁺ T cells

10 min - Thomas Ciucci (NCI NIH)

Memory fate is imprinted in CD4⁺ T-cells by a Thpok-dependent transcriptional program

10 min - Shaun McColl (University of Adelaide)

CCR2 is critical for memory CD8⁺ T cell generation following influenza A virus infection

10 min - Ryoji Yagi (Chiba University)

Role of Th2-associated transcription factors in Th9 cell differentiation

10 min - Stephen Turner (Monash University)

Enhancer commissioning and decommissioning regulates lineage-specific transcriptional activation during virus-specific CD8⁺ T cell differentiation

Coffee break

10:40 – 12:00

T cell function (chaired by Masato Kubo and Ryoji Yagi)

Masato Kubo (IMS Riken)

Role of T follicular helper (Tfh) and Th1 cells in anti-viral immunity

10 min - Taras Kreslavsky (IMP Vienna)

Control of germinal center response by the transcription factor Bhlhe40

10 min - Masatsugu Oh-hora (Kyushu University)

Loss of store-operated Ca²⁺ entry in T cells causes autoimmunity through follicular helper T cell activation

10 min - Tomoyoshi Yamano (Ludwig-Maximilians University)

Deciphering the lineage identity of Aire expressing antigen presenting cells in peripheral lymphoid organs

10 min - Konstantina Alexandropoulos (Icahn School of Medicine at Mount Sinai)

Thymus-resident SIRP α CD8 α ⁺ dendritic cells comprise a heterogeneous population consisting of subsets with distinct antigen uptake and cross-presenting properties

10 min - Ayelet Avin (Weizmann Institute of Science)

Quantitative analysis of protein-protein interactions and post-translational modifications in mTECs and other rare populations

10 min - Erin Baker (University of Georgia)

Whole organ phenotypic analysis of cellular mechanisms that can regulate neonatal thymus organization using CLARITY

Break (lunch; domestic KTCC council meeting)

13:30 – 15:40

Innate cells (chaired by Cynthia Guidos and Kazuyo Moro)

Cynthia Guidos (University of Toronto)

Differential impact of Notch signalling on development of innate T cells in neonatal vs adult thymus

Wilfred Ellmeier (Medical University of Vienna)

Molecular control of innate-like T cell development

Koichi Ikuta (Kyoto University)

Regulation of IL-7 receptor expression by a proximal enhancer

10 min - Sumedha Roy (Duke University Medical Center)

The innate-like T cell developmental program is actively suppressed by ID proteins prior to TCR-mediated selection

10 min - Kazuya Iwabuchi (Kitasato University)

A role of NKT cell - adipocyte interaction in the development of obesity

10 min - Hiroshi Watarai (University of Tokyo)

Differential role of CD1d in the development and functional acquisition of invariant natural killer T cell subtypes

10 min - Satoshi Koga (IMS Riken)

Peripheral tissue-mediated microenvironmental factors optimize terminal differentiation of ILC2

10 min - Yasutaka Motomura (IMS Riken)

Role of group 2 innate lymphoid cells in IL-4-mediated immune responses

10 min - Shinichiro Sawa (Hokkaido University)

Mesenchymal organizer cell-derived RANKL induces terminal differentiation of LT_i cell in the lymph node anlagen

10 min - Akihisa Oda (Tokyo University of Science)

The cell components of perfollicular hematopoietic niche in the spleen

15:40 – 17:00

Poster presentation II + coffee

17:00 – 18:30

T cell regulation (chaired by Daniel Gray and Shohei Hori)

Daniel Gray (WEHI)

Molecular control of FOXP3⁺ regulatory T cell survival and death during chronic viral infection

10 min - Jung-Hyun Park (NCI NIH)

IL-7R α is a negative regulator of IL-2 signaling in Foxp3⁺ Treg and CD4 effector T cells

10 min - Joost van Meerwijk (Centre de Physiopathologie de Toulouse Purpan)

Recirculation of peripheral regulatory T cells back to the thymus

10 min - Xuguang Tai (NCI NIH)

Differentiation of regulatory and helper T cells are both arrested in the thymus of mice expressing a monoclonal TCR repertoire

10 min - Amy Palin (NICHD NIH)

Increased generation of regulatory T cells in the presence of reduced T cell receptor signaling capacity correlates with a reduction in positive selection of thymocytes

10 min - Wanjun Chen (NIDCR NIH)

SUMOylation in Foxp3 regulates Treg function

10 min - Mariko Kashiwagi (Harvard Medical School)

Direct control of regulatory T cells by keratinocytes

10 min - Ei Wakamatsu (Tokyo University of Science)

The responsiveness to TCR stimulation of Treg subsets influences the dependency of their proliferation on CD28

Short break

18:40 – 19:20

Special lecture (chaired by Hiroshi Kawamoto)

Shimon Sakaguchi (Osaka University)

Transcriptional and epigenetic basis of regulatory T cell development

Friday 17th March 2017

8:45 – 10:25

Aging (chaired by Janko Nikolich-Zugich and Ryo Goitsuka)

Janko Nikolich-Zugich (University of Arizona)
Changes in secondary lymphoid organs with aging

Li Wu (Tsinghua University)
Wnt5a in DC differentiation and aging

10 min - Dong-Ming Su (University of North Texas Health Science Center)
Central tolerance establishment under thymic involution

10 min - Aiko Kato (Kyoto University)
Reduced thymic output and subsequent homeostatic proliferation induce phenotypic changes and enhance proinflammatory traits in naïve CD8 T cells

10 min - Mladen Jergovi (University of Arizona)
Impaired priming of cytotoxic T cells due to cell-extrinsic factors underlies the age-related vulnerability to infection with intracellular pathogens

10 min - Martti Laan (Tartu University)
Pregnancy-induced thymic involution is associated with suppression of chemokines essential for T-lymphoid progenitor homing

10 min - Olov Ekwall (University of Gothenburg)
Long term effects of early thymectomy: a population-based cohort study

10 min - Antoine Toubert (Universite Paris Diderot)
Deciphering the human thymic function in healthy adults: the Milieu Intérieur study

Coffee break

10:50 – 12:30

Disease (chaired by Hisashi Arase and Kenji Kabashima)

Hisashi Arase (Osaka University)
MHC class II-associated neo-self antigens are targets for autoantibodies in autoimmune diseases

Mitsuru Matsumoto (Tokushima University)
Paradoxical development of polymyositis-like autoimmunity through augmented expression of AIRE

10 min - Sachiko Ono (Kyoto University)
Functional redundancy of dendritic cell subsets and independency of Ag cross-presentation pathway for T cell activation in the elicitation phase of a murine contact hypersensitivity

10 min - Masamoto Kanno (Hiroshima University)
Identification of DAMPs molecules in mothers' milk; a cohort study on atopic dermatitis in breastfed infants

10 min - Yujin Nakagawa (Kyoto University)
Lymph node stromal cell-mediated deletional tolerance controls the development of GVHD-like skin lesion in involucrin-mOVA mice

10 min - Ulus Atasoy (University of Missouri)
Control of IL-2 homeostasis and CD4 T cell differentiation by HuR in allergic airway inflammation

10 min - Koji Hayashizaki (Chiba University)
Myosin light chains 9 and 12 are functional ligands for CD69 that regulate airway inflammation

10 min - Junichi Kikuta (Osaka University)
Vascular permeability in bone marrow microenvironment analyzed by intravital two-photon microscopy

Break (lunch)

14:00 – 16:30

Reconstruction and therapy (chaired by Georg Hollander and Richard Boyd)

Thomas Boehm (Max Planck Institute of Immunobiology and Epigenetics)
Reconstruction of ancient thymopoietic environments

Marcel van den Brink (Memorial Sloan Kettering Cancer Center)
Neuroendocrine modulation of thymic recovery after injuries

Naomi Taylor (Institute de Genetique Moleculaire de Montpellier)
Fueling T cell differentiation

Richard Boyd (Melbourne)
Sports CAR's: "Off-the-shelf" CAR-T cells with multiple anti-cancer specificities - next generation immunotherapies

Hiroshi Kawamoto (Kyoto University)
Regeneration of CD8 $\alpha\beta$ type T cells with potent tumor antigen-specific cytotoxic activity from T cell-derived iPSCs

10 min - Immo Prinz (Hannover Medical School)
Human $\gamma\delta$ T cells are quickly reconstituted after stem cell transplantation and show adaptive clonal expansion in response to viral infection

10 min - Michael Hun (Monash University)
Native thymic extracellular matrix improves in vivo thymic organoid T cell output, and drives in vitro thymic epithelial cell differentiation

10 min - Charles Earnshaw (University of Liverpool)
CD8+ T cell response to HPV vaccine antigen in nasopharynx-associated lymphoid tissue provides insight into potential protection against oropharyngeal cancer

10 min - Naoko Nakano (Tokyo University of Science)
Differential activation of T cells in tumor microenvironment

10 min - Muhammad Baghdadi (Hokkaido University)
IL34-modified tumor-associated macrophages suppress anti-tumor T cell response at the local tumor microenvironment

Closing remarks

18:00 – 22:00

Farewell party @ Ace cafe

Posters

- P1. Jennifer Cowan (NCI NIH)
Discovering novel transcriptional controllers of thymic epithelial cells
- P2. Song Baik (University of Birmingham)
Identifying mTEC progenitors and understanding mTEC developmental pathways
- P3. Izumi Ohigashi (University of Tokushima)
A human Psmb11 polymorphism affects molecular processing of thymoproteasome and thymic production of CD8 T cells
- P4. Takeshi Nitta (University of Tokyo)
Thymoproteasome mutations impact CD8 T cell development
- P5. Anna Chuprin (Weizmann Institute of Science)
Aire hijacks DNA damage machinery to induce promiscuous gene expression in the thymus
- P6. Miho Sekai (Kyoto University)
Thymopoiesis regulates clonogenic activity of thymic epithelial cells
- P7. Yael Goldfarb (Weizmann Institute of Science)
Dominant negative breakdown of central tolerance by AIRE Δ PHD2
- P8. Jianwei Wang (Kyoto University)
Identification and analysis of medullary thymic epithelial cells constituting Hassall's corpuscles in the murine thymus
- P9. Beth Lucas (University of Birmingham)
Lymphotoxin β receptor controls T cell progenitor entry to the thymus
- P10. Roland Ruscher (University of Minnesota)
CD8 α IEL arise from two major thymic precursor subsets
- P11. Ivan Dzhagalov (National Yang-Ming University)
The importance of heparan sulfate for the development of the thymus
- P12. David Davis (Australian National University)
Novel role for heparan sulfate in intrathymic T cell development
- P13. Shlomit Reich-Zeliger (Weizmann Institute of Science)
Multiparameter mass cytometry of T cell development and selection
- P14. Takeshi Ito (Kyoto University)
Bone marrow endothelial cells cross-present blood-borne antigens to CD8⁺ T cells.
- P15. Takahiro Hara (Kyoto University)
Identification of bone marrow IL-7 niche critical for B lymphopoiesis
- P16. Ronay Cetin (Sabanci University)
Identification of transcription factor binding sites in the IL-7R gene enhancer by CRISPR/Cas9 genome editing
- P17. Guangwei Cui (Kyoto University)
Competitive signaling between STAT5 and PI3K of IL-7R modulates T cell development and homeostasis in vivo
- P18. Joo-Young Park (NCI NIH)
The IL-4 receptor/STAT6 axis controls IL-4-producing NKT2 cell lineage choice in the thymus

- P19. Elise R Breed (University of Minnesota)
CD301b⁺ SIRPα⁺ dendritic cells are enriched in the thymic medulla
- P20. Tyng-An Zhou (National Yang-Ming University)
Characterization of mouse thymic resident myeloid populations
- P21. Masashi Watanabe (NCI NIH)
Unique roles of TECs, DCs and B cells in Treg repertoire formation
- P22. Maile Romero-Wolf (California Institute of Technology)
Bcl11b-dependent T cell gene regulatory network at commitment
- P23. Jyoti Sen (NIA NIH)
TCF1 and beta-catenin regulate generation of innate cells in the thymus
- P24. Tomonori Hosoya (University of Michigan)
Gata3 gene regulation in the T cell transcriptional network during early T cell development
- P25. Li-Qi Li (NICHD NIH)
Investigating the role of Ldb1 transcription complexes in T cell acute lymphoblastic leukemia
- P26. Marco Craveiro (NCI NIH)
The same TCRβ chain can pair with different TCRα chains to form either MHC-independent or MHC-restricted TCRs
- P27. Ryunosuke Muro (National Center for Global Health and Medicine)
Syk-mediated TCR signaling is required for γδ T cell development and acquisition of proinflammatory potential
- P28. Leston Araujo (Universite Paris Diderot)
Deciphering the human thymic function in healthy adults: the Milieu Intérieur study
- P29. Helena Nunes-Cabaço (Universidade de Lisboa)
IL-4 induces coreceptor reversal in CD4-committed human thymocytes
- P30. Eri Ishikawa (Kyushu University)
Protein kinase D regulates positive selection of CD4⁺ thymocytes through phosphorylation of SHP1
- P31. Kieran James (University of Birmingham)
Lymphotoxin β receptor signaling controls thymic T cell egress via regulation of thymic stroma
- P32. Jun Wang (Soochow University)
Roles of ZBTB24 in T cells
- P33. Yasuyo Harada (Tokyo University of Science)
Role of follicular helper TFH in TH2 mediated anaphylaxis
- P34. Yusuke Endo (Chiba University)
Elucidation of the role of fatty acid metabolism in Th17 cell differentiation under obese conditions
- P35. Yun Guo (Hiroshima University)
A role of the ubiquitin-modifying enzyme A20 in regulatory T cells
- P36. Eszter Bakos (Weizmann Institute of Science)
CCR2 regulates the immune response by modulating the conversion and function of effector versus regulatory T cells
- P37. Yumie Tokuanga (Universidade de Lisboa)
Differentiation of FOXP3⁺ regulatory T cells in the human thymus: unbiased approaches circumventing sequential-gating strategy

- P38. Hiroki Satooka (Shiga University of Medical Science)
Impaired CD8⁺ regulatory T cell homeostasis and self-tolerance in moesin-deficient mice
- P39. Jasmine Li (Monash University)
Understanding the importance of demethylating H3K27me3 as an early molecular change in CD8⁺ T cell differentiation
- P40. Nobuko Tokuda (Yamaguchi University)
Localization and function of FABP7 in T cell area fibroblastic reticular cells
- P41. Yurina Miyajima (IMS Riken)
Function of BMP2 and BMP7 produced by ILC2 in the adipose tissue
- P42. Takato Kobayashi (IMS Riken)
Characterization of group 2 innate lymphoid cells in glandular tissue
- P43. Hui Jin (Osaka University)
TSH receptor/MHC class II neo-self complexes are involved in Graves' disease as autoantibody targets
- P44. Davoud Jazayeri (University of Queensland)
Preferential migration of E7 specific activated CD8 T cells to E7 transgenic skin grafts
- P45. Yuki Morimoto (Chiba University)
Tissue fibrosis in eosinophilic chronic rhinosinusitis
- P46. Daisuke Nagakubo (Shiga University of Medical Science)
CCL28 regulates CD4⁺ T cell recruitment to the nasal mucosa in a mouse model of allergic rhinitis
- P47. Manju Jain (Central University of Punjab)
Thymus is a target organ in visceral Leishmaniasis: A new piece in the immunology of Leishmaniasis
- P48. Hyeongjin Na (Seoul National University)
Critical role of ROR γ t on Th2 cell responses in allergic airway inflammation
- P49. Kosuke Miyauchi (IMS Riken)
Intrinsic role of lung recruitment of Th1 cells for mucosal IgA production in influenza virus infection
- P50. Angela Wahl (University of North Carolina at Chapel Hill)
Two new in vivo model systems to directly examine human gut microbiota's role in human T cell development and immunity
- P51. Marie Pouzolles (Université Montpellier)
Intrathymic hematopoietic stem cell transplantation supports the rapid differentiation of regulatory T cells in immunodeficient mice
- P52. Heather Thompson (University of Arizona)
Sex steroid ablation restores the thymus of aged animals but fails to improve naïve T cell numbers and function in peripheral lymph nodes
- P53. Christina Lundqvist (University of Gothenburg)
Deep sequencing of the T and B cell receptor repertoire shows increased T cell receptor oligoclonality in patients after early thymectomy
- P54. Yong Fan (Allegheny Health Network)
Generating injectable thymus organoids with self-assembling hydrogel to restore adaptive immune function

P55. Edward Chen (University of Toronto)

Controlled initiation of T-cell development reveals a temporal regulation in the generation of specific $\gamma\delta$ T-cell receptor repertoires and functional subsets

P56. Takuya Maeda (Kyoto University)

iPSCs transduced with WTI-TCR gene give rise to potent CTLs with antigen specific cytotoxic activity comparable to those from T-iPSCs

P57. Xiubo Fan (Singapore General Hospital)

Combination of CXCL5 and anti-CCL24 antibody substitute mesenchymal stromal cells therapy in graft versus host disease