

AGENDA

WEDNESDAY, SEPTEMBER 27, 2023

8:30 a.m. Welcome Remarks

Glenn Merlino, Ph.D., Scientific Director for Basic Research, Center for Cancer Research, NCI

8:40 a.m. Welcome Remarks

Naomi Taylor, M.D., Ph.D., Center for Cancer Research, NCI

SESSION 1 Immune Cell Development, Thymus-Style

Chairs: Christian Mayer, Ph.D., and Stanley Adoro, Ph.D.

8:45 a.m. **Transcriptional Determination of T Lineage Fate**

Alfred Singer, M.D., Center for Cancer Research, NCI

9:05 a.m. CD4 T Cell Differentiation, in the Thymus and Beyond

Rémy Bosselut, M.D., Ph.D., Center for Cancer Research, NCI

9:25 a.m. Thymic Formation of CD8 T Cell Repertoire

Yousuke Takahama, Ph.D., Center for Cancer Research, NCI

9:45 a.m. The Anatomy, Regulation, and Function of Glucocorticoids Produced in the Thymus

Jonathan Ashwell, M.D., Center for Cancer Research, NCI

10:05 a.m. **BREAK**

10:35 a.m. The Role of the Transcription Factor BRD4 in Thymic Development

Dinah Singer, Ph.D., Center for Cancer Research, NCI

10:55 a.m. Notch1 Sets the Molecular Clock for T Cell Development

Roxane Tussiwand, Ph.D., Center for Cancer Research, NCI

11:05 a.m. Gene Regulatory Mechanisms Establishing T-Cell Identity

Ellen Rothenberg, Ph.D., California Institute of Technology

11:30 a.m. LUNCH BREAK AND POSTER SESSION

SESSION 2 Immunity-Pathophysiology Crosstalk

Chairs: Alfred Singer, M.D., and Avinash Bhandoola, Ph.D.

12:45 p.m. Not Done Yet: Unexpected Facets of Complement Activities in Cell Physiology

Claudia Kemper, Ph.D., National Heart, Lung, and Blood Institute, NIH

1:05 p.m. Immune-Mediated Mechanisms of Adaptive and Maladaptive Tissue Responses

Shruti Naik, Ph.D., New York University

AGENDA (CONTINUED)

1:30 p.m. EGR2: Steering Pathogenic Th17 Cell Function in CNS Autoimmune Disease

Vanja Lazarevic, Ph.D., Center for Cancer Research, NCI

1:50 p.m. Immune Calibration of Neuroendocrine Homeostasis

Chuan Wu, M.D., Ph.D., Center for Cancer Research, NCI

2:10 p.m. Neuroimmune Interactions in Enteric Nervous System

Vijay Kuchroo, DVM., Ph.D., Harvard Medical School

2:35 p.m. **BREAK**

SESSION 3 Cancer Immunology: Part 1

Chairs: Pamela L Schwartzberg, M.D., Ph.D. and Hyun Park, Ph.D.

3:05 p.m. The Role of the Intestinal Microbiome in Cancer Immunotherapy

Marcel van den Brink, M.D., Ph.D., Memorial Sloan Kettering Cancer Center

3:30 p.m. Understanding Microbiota Regulation of the Tumor Microenvironment and Response to Cancer Therapy

Romina Goldszmid, Ph.D., Center for Cancer Research, NCI

3:50 p.m. Turning the Table on Oncogenic Herpesviruses: Vaccination with a Gammaherpesvirus with

Targeted Mutations in Genes Required for Replication and Latency Protects Against Wild-Type

Virus Pathogenesis in the Host

Laurie Krug, Ph.D., Center for Cancer Research, NCI

4:10 p.m. Discovery of Novel Epigenetic Mechanisms that Control T Cell-Mediated Tumor Immunity

Kai Wucherpfenning, M.D., Ph.D., Dana-Farber Cancer Institute

THURSDAY, SEPTEMBER 28, 2023

SESSION 4 Innate Immunity

Chairs: Romina Goldszmid, Ph.D., and Vanya Lazarevic, Ph.D.

8:30 a.m. Innate Lymphoid Cells: Development, Differentiation, and Dynamics

James Di Santo, M.D., Ph.D., Pasteur Institute

8:55 a.m. Different Developmental Pathways Generate Functionally Distinct Populations of Natural Killer Cells

Avinash Bhandoola, M.B., B.S., Ph.D., Center for Cancer Research, NCI

9:15 a.m. The Cytokine Receptor DR3 Controls iNKT Cell Immunity

Hyun Park, Ph.D., Center for Cancer Research, NCI

9:35 a.m. Memory Responses by Innate T Cells

Mitchell Kronenberg, Ph.D., La Jolla Institute for Immunology

10:00 a.m. Regulation of Barrier Immunity

David Artis, Ph.D., Weill Cornell Medical School

10:25 a.m. **BREAK**

SESSION 5 Immune Cell Signaling

Chairs: Laurie Krug, Ph.D., and Jonathan Ashwell, M.D.

10:55 a.m. **Dynamic Membrane Changes Controlling TCR Signaling**

Gillian Griffiths, FMedSci, FRS, Cambridge University

11:20 a.m. Apoptosis and B Lymphocyte Repertoire Selection

Christian Mayer, Ph.D., Center for Cancer Research, NCI

AGENDA (CONTINUED)

11:40 a.m.	Defining the Role of Lck-Coreceptor Association in T Cell Receptor Signaling and Fate Specification Nicole La Gruta, Ph.D., Monash University
12:05 p.m.	Formation of the Tetrameric Protein Complex Containing Phospholipase-Cγ1 During T Cell Activation Lawrence Samelson, M.D., Center for Cancer Research, NCI
12:25 p.m.	LUNCH BREAK AND POSTER SESSION
SESSION 6	Immune Cell Function Chairs: Daniel McVicar, Ph.D., and Chuan Wu, M.D., Ph.D.
1:40 p.m.	PI3 Kinase and Balancing T Cell Activation Under Exhaustion Pamela Schwartzberg, M.D., Ph.D., National Institute of Allergy and Infectious Diseases, NIH
2:00 p.m.	A Proteostasis Link to Cell Autonomous T Cell Dysfunction Stanley Adoro, Ph.D., Center for Cancer Research, NCI
2:20 p.m.	Nutrient-Driven Proliferation in Mucosal Germinal Centers Jagan Muppidi, M.D., Ph.D., Center for Cancer Research, NCI
2:40 p.m.	BREAK
2:40 p.m. SESSION 7	Cancer Immunology: Part 2 Chairs: Dinah Singer, Ph.D., and Jagan Muppidi, M.D., Ph.D.
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SESSION 7 3:10 p.m.	Cancer Immunology: Part 2 Chairs: Dinah Singer, Ph.D., and Jagan Muppidi, M.D., Ph.D. LAG3: The Third Checkpoint Inhibitor Dario Vignali, Ph.D., University of Pittsburg A Role for Acod1-Mediated Itaconate in Cancer and Metabolic Disease
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