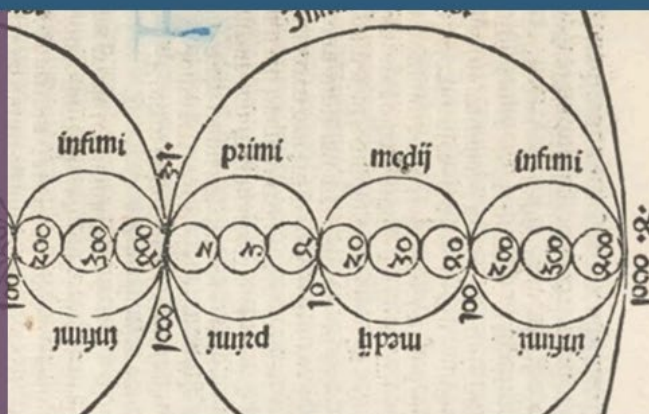




DE DOCTA IGNORANTIA: Cancer Immunology in the Era of Omics and Artificial Intelligence

Hosted by the Center of Excellence in Immunology



AGENDA

August 27-28, 2026

Building 35, Rooms 610/620/630/640 NIH

Thursday, August 27

8:00 am

Welcome

Giorgio Trinchieri, M.D.

8:10 am

Opening Remarks

Anthony Letai, M.D., Ph.D.

Director, National Cancer Institute

8:25 am

Introduction of Keynote Speaker

Chair: Reny Bosselut, Ph.D.

8:30 am

From Machine Learning to Autonomous Intelligence

Yann LeCun, Ph.D.

New York University

SESSION I

DATA SCIENCE AND DEEP LEARNING IN CANCER IMMUNITY

Chair: Eytan Ruppin, Ph.D.

9:15 am

Do T cells have a World Model?

Paul François, Ph.D.

Université de Montréal

9:45 am

Towards Fast and Accessible Precision Oncology

Eytan Ruppin, M.D., Ph.D.

Cedars-Sinai Medical Center

10:15 am

BREAK

10:35 am

AI-Predicted Spatial Transcriptomics Unlocks Breast Cancer Biomarkers from Pathology

Eldad Shulman, Ph.D.

Cedars-Sinai Medical Center

11:00 am

What is Immune Health? Can AI, Perturbation, and Systems Immunology Help

Decode it?

John Tsang, Ph.D., MMath

Yale School of Medicine

11:30 pm	LUNCH AND POSTERS
SESSION II	TUMOR MICROENVIRONMENT Chair: Tim Greten, Ph.D.
1:30 pm	Understanding Microbiota Regulation of the Tumor Microenvironment and Response to Cancer Therapy Romina Goldszmid, Ph.D. Center for Cancer Research, NCI
1:55 pm	Defining the Roles and Mechanisms of Neutrophils in Bone Metastatic Prostate Cancer Leah Cook, Ph.D. Center for Cancer Research, NCI
2:20 am	The Immune Tumor Microenvironment in Liver Cancer Tim Greten, M.D. Center for Cancer Research, NCI
2:45 pm	BREAK
3:05 pm	Deciphering the Multicellular Spatial Architecture of Liver Cancer Lichun Ma, Ph.D. Center for Cancer Research, NCI
3:30 pm	Omics & Agentic AI Discovery of Secreted Proteins as Cancer Immunotherapies Peng Jiang, Ph.D. Center for Cancer Research, NCI
3:55 pm	Guardians Gone Rogue: Dendritic Cells as the Bridge from a Dysbiotic Gut to Autoimmunity Roxane Tussiwand, Ph.D. Limes Institute, University Bonn
4:25 pm	Imaging Tumor Initiation and Progression in Live Animals at Cellular and Sub-Cellular Resolution Roberto Weigert, Ph.D. Center for Cancer Research, NCI
4:50 pm	ADJOURN FOR THE DAY

Friday, August 28

SESSION III MICROBIOME AND CANCER

Chair: Barbara Rehermann, M.D.

Genes, Bugs, Metabolites and Intestinal Inflammation

8:30 am Ramnik Xavier, M.D., Ph.D.
MGH and Broad Institute, Harvard University

Human ICI Response-Associated *Ruminococcus Gnavus* Potentiates Checkpoint Therapy

9:00 am Marlies Meisel, Ph.D.
University of Pittsburgh

Targeting the Gut Microbiome in Cancer Immunotherapy

9:30 am Giorgio Trinchieri, M.D.
Center for Cancer Research, NCI

9:55 am **BREAK**

Immune Checkpoint Inhibitor Therapy and the Gut Microbiome: A Complex Relationship with Significant Implications in Cancer Treatment

10:10 am Amiran Dzutsev, M.D., Ph.D.
Center for Cancer Research, NCI

Commensals Enhance Checkpoint Blockade in Preclinical Models

10:35am Barbara Rehermann, M.D.
National Institute of Diabetes and Digestive Kidney Diseases, NIH

Targeting Intratumor Bacteria to Overcome Immunotherapy Resistance in NSCLC

11:00 am Chen Zhao, M.D.
Center for Cancer Research, NCI

11:25 am **LUNCH**

SESSION IV T CELLS IN CANCER IMMUNITY

Chair: Gregoire Altan-Bonnet, Ph.D.

Genome Organization in T Lymphocytes

12:30 pm Golnaz Vahedi, Ph.D.
University of Pennsylvania School of Medicine

Long Lived Multipotential Precursors Maintain the Adult Mouse Thymus

1:00 pm Avinash Bhandoola, M.D., Ph.D.
Center for Cancer Research, NCI

CD4 T Cell Functions in Tumors

1:25 pm Remy Bosselut, M.D., Ph.D.
Center for Cancer Research, NCI

The Influence of Immunogenetic Variation on Viral Disease and Cancer

1:50 pm Mary Carrington, Ph.D.
Center for Cancer Research, NCI

2:15 pm	The Early Metastatic Microenvironment and Approaches to Rebalance the Dysregulated Niche Rosandra Kaplan, M.D. Center for Cancer Research, NCI
2:40 pm	BREAK
3:00 pm	Human Immunity Over Space and Time Donna Farber, Ph.D. Columbia University
3:30 pm	The Paradoxical Role of anti-Tumor Immunity in Tumor Control and Dormancy Li Yang, PhD Center for Cancer Research, NCI
3:55 pm	Fueling Anti-Tumor T Lymphocytes: CARs and More Naomi Taylor, M.D., Ph.D. Center for Cancer Research, NCI
4:20 pm	Designing Immunotherapies by the Numbers Gregoire Altan-Bonnet, Ph.D. Center for Cancer Research, NCI
4:45 pm	ADJOURN