



Division of Cancer Biology, National Cancer Institute
National Institutes of Health

Strategic Workshop

Immune Privilege of Stem Cells and Cancer Immunotherapy

*May 1, 2023
NCI Shady Grove Campus
9609 Medical Center Drive
Rockville, MD 20850*

Planning Committee

Elaine Fuchs, Ph.D., Rockefeller University, Co-Chair
Justin Lathia, Ph.D., Cleveland Clinic, Co-Chair
Kevin Howcroft, PhD, NCI
Yin Liu, PhD, NCI

Agenda – May 1, 2023

8:00 – 8:10am Dr. Daniel Gallahan (Division Director, DCB/NCI)
Opening remarks and Logistics

Morning Session chairs: Drs. Justin Lathia and Tannishtha Reya

8:10 – 9:30am Session I: Immune Evasion Mechanisms of Stem Cells

8:10 – 8:30am Justin Lathia, PhD, (Cleveland Clinic)

8:30 – 8:50am Judith Agudo, PhD, (Dana Farber Cancer Institute)

8:50 – 9:10am Yuxuan Miao, PhD, (University of Chicago)

9:10 – 9:30am Omer Yilmaz, MD, PhD, (Massachusetts Institute of Technology)

9:30 – 10:00am Break

10:00 – 11:40am Session II: Signaling Networks, Transcriptional and Epigenetic Regulations Underlying Cancer Stem Cell Immune Evasion

10:00 – 10:20am Tannishtha Reya, PhD, (Columbia University)

10:20 – 10:40am Linheng Li, PhD, (Stowers Institute)

10:40 – 11:00am Bradley Bernstein, MD, PhD, (Harvard University)

11:00 – 11:20am Joan Massague, PhD, (Memorial Sloan Kettering Cancer Center)

11:20am – 12:40pm Lunch Break

Afternoon Session Chairs: Drs. Elaine Fuchs and Ronald DePinho

12:40 – 2:00pm Session III: Stem Cells, Niche Microenvironment and Immune Homeostasis

12:40 – 1:00pm Elaine Fuchs, PhD, (Rockefeller University)

1:00 – 1:20pm Alexander Rudensky, PhD, (Memorial Sloan Kettering Cancer Center)

1:20 – 1:40am Michael Karin, PhD, (University of California, San Diego)

1:40 – 2:00pm Rosandra Kaplan, MD, (National Cancer Institute)

2:00 – 2:30pm Break

2:30 – 3:30pm Session IV: Stemness, Plasticity in Immune Evasion and Immunotherapy

2:30 – 2:50pm Catriona Jamieson, MD, PhD, (University of California, San Diego)

2:50 – 3:10pm Carla Kim, PhD, (Boston Children’s Hospital)
3:10 – 3:30pm Ronald DePinho, MD, (MD Anderson Cancer Center)

3:30 – 3:50pm break

3:50 – 4:45pm **Session V: Round Table Discussion On Questions Below to be mediated by
Drs. Ronald DePinho, Justin Lathia and Elaine Fuchs**

1. Mechanisms of stem cell immune evasion: whether and how it is connected to the initiation and maintenance of the immune suppressive environment in tumor?
 2. What are the roles of transcriptional and epigenetic regulation, post translational modifications, metabolism and microbiome in immune evasion of cancer stem cells?
 3. Immune cells and stem cell interaction: what are their roles in tissue homeostasis, and in health and diseases?
 4. What is the relationship between cancer stemness/plasticity and immune evasion?
 5. Can we target cancer stem cells in immunotherapy?
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