Cancer Immunology and Immunotherapy: Taking a Place in Mainstream Oncology

March 19–23, 2017 | Fairmont Chateau Whistler | Whistler, British Columbia | Canada

Scientific Organizers:
Robert D. Schreiber, Washington University School of Medicine, USA
James P. Allison, University of Texas MD Anderson Cancer Center, USA
Philip D. Greenberg, University of Washington, USA
Glenn Dranoff, Novartis Institutes for BioMedical Research, USA

Part of the Keystone Symposia Global Health Series, supported by the Bill & Melinda Gates Foundation

The fields of cancer immunology and immunotherapy continue to make great strides in providing both a comprehensive understanding of the basic mechanisms underlying tumor-immune system interactions and applying this knowledge to the development of effective immune-based cancer therapies. This Keystone Symposia meeting is organized to highlight recent insights into the complex roles of immune components and pathways in controlling or alternatively promoting cancer and to showcase recent uses of cancer vaccines, checkpoint blocking strategies, adoptive cell therapies and cellular engineering approaches, either as mono- or combinatorial therapies, that have resulted in durable, effective and safe therapeutic responses to an increasing number of cancer patients. Part of the meeting will also focus on new, developing technologies that are likely to expand our capacity to monitor the effects of cancer immunotherapy with a precision, refinement and at a level that has not been possible in the past.

Session Topics:
• Multimodal Approaches to Immunotherapy
• Immunosuppressive Cells in the Tumor Microenvironment
• Cancer Immunotherapy: Targeting Immune Checkpoints
• Cancer Immunotherapy: Combinatorial Approaches
• Cancer Immunotherapy: Cancer Vaccines that Work and Why
• Cancer Immunotherapy: Cellular Engineering
• Nex-Gen Technologies

Global Health Travel Award Application Deadline: October 18, 2016
Scholarship Application & Discounted Abstract Deadline: November 16, 2016
Abstract Deadline: December 19, 2016
Discounted Registration Deadline: January 18, 2017

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SUNDAY, MARCH 19
Arrival and Registration

MONDAY, MARCH 20
Welcome and Keynote Session
*Robert D. Schreiber*, Washington University School of Medicine, USA
Glenn Dranoff, Novartis Institutes for BioMedical Research, USA
Mechanisms of Protective Tumor Immunity
Andreas G. Plückthun, University of Zürich, Switzerland
Future Biologics: Exploiting the Opportunities for Protein Engineering

Multimodal Approaches to Immunotherapy
*James P. Allison*, University of Texas MD Anderson Cancer Center, USA
Immune Blockade in Cancer Therapy: New Insights and Opportunities
Padmanee Sharma, University of Texas MD Anderson Cancer Center, USA
From the Clinic to the Lab: Investigating Immune Responses to Immune Checkpoint Therapies
Nicholas P. Restifo, NCI, National Institutes of Health, USA
Genome-Scale CRISPR-Cas9 Screen Identifies Genes Essential for T Cell-Based Cancer Therapies

Workshop 1: Neoantigens, Vaccines and Responses
Nicholas K. Akers, Icahn School of Medicine at Mount Sinai, USA
Modeling Tumor Immuno-Dynamics to Predict Patient Survival & Immunotherapy Efficacy
Govinda Sharma, BC Cancer Agency, Canada
A Novel High-Throughput Screening Approach for the Detection of Cytotoxic T-Cell Receptor Epitopes
Sanja Stevanovic, NCI, National Institutes of Health, USA
Landscape of Immunogenic Tumor Antigens in Successful Immunotherapy of Virally-Induced Epithelial Cancer
Alice Tzeng, Cleveland Clinic Lerner College of Medicine, USA
Temporarily Programmed CD8alpha+ DC Activation Enhances Combination Cancer Immunotherapy
Aileen Li, Harvard University, USA
Mesoporous Silica (MPS) Vaccine to Enhance Anti-Tumor Immunity
*Jay A. Berzofsky*, NCI, NIH, USA
Translation of Cancer Vaccines from Mice to Human Clinical Trials

Immunosuppressive Cells in the Tumor Microenvironment
*Glenn Dranoff*, Novartis Institutes for BioMedical Research, USA
Alexander Y. Rudensky, HHMI/Memorial Sloan Kettering Cancer Center, USA
Tregs in Cancer Immunity
Vincenzo Bronte, University of Verona, Italy
Role of Myeloid-Derived Suppressor Cells in Tumor Immunity

Alberto Mantovani, Humanitas University, Italy
Role of Macrophages in Tumor Immunity
Garry P. Nolan, Stanford University, USA
System-Wide Order, from Disorder, at the Cancer-Immune Interface

Poster Session 1

TUESDAY, MARCH 21
Cancer Immunotherapy: Targeting Immune Checkpoints
*Ira Mellman*, Genentech, Inc., USA
PD-1/PD-L1
Riccardo Mezzadra, NKI-AvL, Netherlands
Short Talk: Identification of CMTM6 and CMTM4 as PD-L1 Protein Regulators
Andrew D. Weinberg, Earle A. Chiles Research Institute/Oregon Health & Science University, USA
OX40 Agonists: Past, Present and Future
Ana Carrizosa Anderson, Harvard Medical School, USA
Targeting Tim-3 in Cancer
Randolph J. Noelle, Dartmouth College, USA
Targeting the VISTA Pathway in Oncology
Vinidhra Mani, Harvard Medical School, USA
Short Talk: Visualizing the Mechanistic Basis of Checkpoint Blockade Therapy in Cancer

Workshop 2: Cellular Engineering and Therapy
*Stanley R. Riddell*, Fred Hutchinson Cancer Research Center, University of Washington, USA
Engineering Adaptive T Cell Therapy for Efficacy in Ovarian Cancer
Mauro Castellari, University of Pennsylvania, USA
A Comparison of Affinity-Tuned Her2 CARs Using a New Mouse Model for On-Target Off-Tumor CAR T Cell Cytotoxicity
Ashwini Balakrishnan, Fred Hutchinson Cancer Research Institute, USA
Designed Ankyrin Repeat Proteins (DARPins) as Recognition Motifs in Chimeric Antigen Receptors
Kristin Anderson, University of Washington, USA
Regulators
Short Talk: Identification of CMTM6 and CMTM4 as PD-L1 Protein Regulators
Riccardo Mezzadra, NKI-AvL, Netherlands

Cancer Immunotherapy: Combinatorial Approaches
*Robert D. Schreiber*, Washington University School of Medicine, USA
Personalized Cancer Vaccines

* Session Chair † Invited but not yet accepted  Program current as of August 28, 2018. Program subject to change. Meal formats are based on meeting venue. For the most up-to-date details, visit www.keystone symposia.org/17C7.
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Thursday, March 23

Poster Session 3

Cancer Immunotherapy: Cellular Engineering

*Philip D. Greenberg, University of Washington, USA
Adaptive T Cell Therapy with TCR-Engineered T Cells

Michel Sadelain, Memorial Sloan Kettering Cancer Center, USA
Targeting CARs to the TRAC Locus Enhances T Cell Potency

Carli H. June, University of Pennsylvania, USA
CAR-T Therapy of ALL

Stanley R. Riddell, Fred Hutchinson Cancer Research Center, University of Washington, USA
CAR-T Cells for Hematopoietic and Solid Tumors

Agne Taraseviciute, Seattle Children's Research Institute, USA
Short Talk: A Comparison of T Cell Sensitivity using TCR and CAR Constructs with the Same pepMHC Binding Domain

Friday, March 24

Departure

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