New Journal Targets the Immune System: Cancer Immunology Research



Best known as a master of understanding the mechanisms responsible for the generation of anti-tumor immunity, Dr. Dranoff is credited with laying the foundations for the first approved therapeutic cancer vaccine as well as the first monoclonal antibody that blocks negative immune regulation. In his current research he hopes to combine immunotherapies in the same patient by further studying the mechanisms of priming immune cells, immunomodulation, and the effect of the tumor microenvironment on immune cells. After several decades as professor of medicine at Dana Farber Cancer Institute of Harvard Medical School, Dr. Dranoff recently became Global Head of Exploratory Immuno-oncology at Novartis Institutes for BioMedical Research.

Inaugural Editorial

First Impact Factor: 3.857

GLENN DRANOFF, MD, FOUNDING EDITOR-IN-CHIEF, 2013-2015

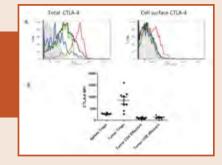


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A Message from the Founding	
Editor-in-Chief	
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del 10.11692229-4098,CIP-13-0217	perspective on how a particular subject fits into the o schema of tumor immunity. These primers will be orgu- into a virtual cancer immunology textbook on the ju-
das 10.1158/2204-4088.CIR-13-0017 C0013 American Association for Cancer Research.	website. Continuing medical education credits will all offered for studying these primers, which should be of pra-

CTLA-4 Blockade Works by Reducing Intratumoral Tregs and Activating Teffs





Combined Local Radiotherapy and Systemic CTLA-4 Antibody Produce Sustained Remission



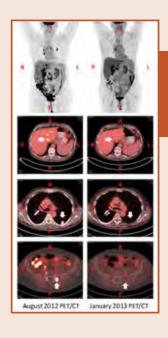
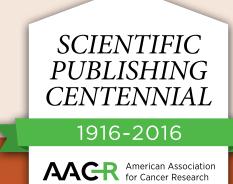


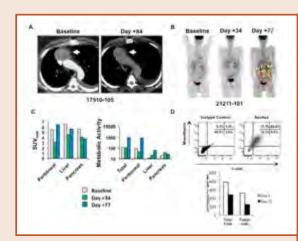
FIGURE 2. Ipilimumab and local radiotherapy result in an abscopal response. PET imaging and select fused PET/CT axial images from August 2012 (left) and January 2013 (right) are displayed. The axial images in the second row reveal the hypermetabolic liver lesion that was targeted and responded to radiotherapy (white arrows, second row). An abscopal response was seen in a left lower lobe lung lesion (white arrows, third row) and a left sacral lesion (white arrows, bottom row). A mixed response was seen in the liter/medicatinal lumph nodes (stringed arrows third row).



2014

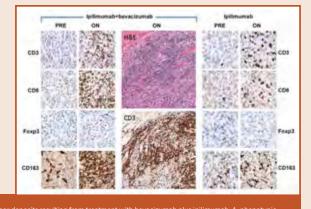
Anti-mesothelin CAR-T Cells Induce Antibodies to Self Epitopes and Antitumor Activity





ARTmeso cells. A, CT imaging of IPM patient 17510-105 showing the atient's dominant mesothelioma mass efore receiving CARTmeso infusion in schedule 1 (baseline) and 35 days fter receiving the first CARTmeso infusion on schedule 1 (baseline) and 35 days fter receiving the first CARTmeso fusion on schedule 2 (day +84). B, thole-body FDG PET/CT imaging f PDA patient 21211-101 obtained at aseline, day +34 after completing iv. ARTmeso cell infusions, and day +77 fter completing intratumoral CARTmeso li infusions. C, analysis of maximum tandardized uptake value (SUVmax) and mean metabolic volumetric product MyPmean) at baseline, day +34, and day 477 is shown for all lesions (total) and dividual sites of disease (peritoneal, ver, and pancreas) for PDA patient 21211-101. D, representative flow cytometric lot of ascites from PDA patient 21211-101 inalyzed with isotype control antibodies ersus antimesothelin and anti-c-met number of cells/mL and tumor ells. Flow cytometric net total number of cells/mL and tumor ells/µL in the ascites that is shown in the bar graph with comparison between ay +3 and day +15 after beginning iv.

Mechanisms Described for How anti-VEGF Aids CTLA-4 Blockade in Melanoma



characterization of immune-cell infiltrates in biopsies from responders before and after initiation of therapy. Tumors after initiation (ON) of ipilimumab-bevacizumab therapy were characterized as compared with pretreatment samples (PRE). Significant infiltration by CD3+CD8+T cells and CD163+ macrophages with minimal change in Foxp3+ component was observed. The enlarged panels (center) emphasize the tumor-infiltrating architecture of the immune response (top left, skeletal muscle). In contrast, patients treated only with ipilimumab showed a lesser degree of immune-cell infiltration while on therapy. The two ipilimumab-bevacizumab specimens are subcutaneous tissues, and the ipilimumab-alone specimen was from the oropharyngeal submucosa.



2015

Immunology Program Heads Named Editors-in-Chief

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