CANCER IMMUNOLOGY MINIATURES

175 Eosinophilic Fasciitis and Acute Encephalopathy Toxicity from Pembrolizumab Treatment of a Patient with Metastatic Melanoma
Leila Khoja, Catherine Maurice, MaryAnne Chappell, Leslie MacMillan, Ayman S. Al-Habeeb, Nada Al-Faraidy, Marcus O. Butler, Patrik Rogalla, Warren Mason, Anthony M. Joshua, and David Hogg

The patterns and kinetics of toxicity with anti–PD-1 agents are emerging. The incidence of grade 3 or above toxicities is low. We identify an idiosyncratic toxicity, eosinophilic fasciitis, that requires particular clinical vigilance to enable diagnosis and management.

179 Melanoma Brain Metastasis Pseudoprogression after Pembrolizumab Treatment

This case report documents pseudoprogression in brain metastases treated with antibodies to PD-1. Use of immune checkpoint inhibitors in melanoma and other malignancies is increasing, making it important to recognize and treat effects unique to brain metastases.

RESEARCH ARTICLES

183 Regulatory T Cells from Colon Cancer Patients Inhibit Effector T-cell Migration through an Adenosine-Dependent Mechanism
Patrik Sundström, Hanna Stenstad, Veronica Langenes, Filip Ahlmanner, Lisa Theander, Bengt Gustavsson, Jérémie Bastid, and Marianne Quiding-Järbrink

Regulatory T cells suppress many effector T-cell functions. Treg from patients with colon cancer were found to inhibit transendothelial migration of conventional T cells, perhaps explaining the paucity of effector T cells within tumors.

194 PD-1 Blockade Expands Intratumoral Memory T Cells
Antoni Ribas, Daniel Sanghooon Shin, Jesse Zaretsky, Julieta Fredeksen, Andrew Cornish, Earl Avramis, Elizabeth Seja, Christine Kivork, Janet Siebert, Paula Kaplan-Leffko, Xiaoyan Wang, Bartosz Chmielewski, John A. Glaspy, Paul C. Tume, Thilde Chodon, Dana Pe’er, and Begeño Comín-Andúix

Tumor biopsies from patients treated with antibodies to PD-1 showed that therapy altered tumor composition. T cells, B cells, and myeloid-derived suppressor cells were increased, and patients who responded to anti-PD-1 therapy had increased memory CD8+ T cells.

204 Identification of T-cell Receptors Targeting KRAS-Mutated Human Tumors
Qiong J. Wang, Zhiya Yu, Kayla Griffith, Ken-ichi Hanada, Nicholas P. Restifo, and James C. Yang

This study identifies HLA-A11*01–restricted T-cell receptors (TCRs) that specifically target mutated KRAS, which is an oncogenic driver mutation found in many types of cancers. These TCRs have antitumor activity and thus show potential for clinical use in multiple cancers.

215 Phase I Study of Random Healthy Donor–Derived Allogeneic Natural Killer Cell Therapy in Patients with Malignant Lymphoma or Advanced Solid Tumors
Yaewon Yang, Okjae Lim, Tae Min Kim, Yong-Oon Ahn, Hana Choi, Hyejin Chung, Bokhyung Min, Jung Hyun Her, Sung Yoo Cho, Bhunmsuk Ream, Se-Hoon Lee, Dong Wan Kim, Yu Kyeong Hwang, and De Seog Heo

Completely allogeneic NK cells could provide a ready source of antitumor activity. This preliminary clinical trial shows that such cells are well tolerated and have potential benefits for cancer patients by upregulating the host immune responses against cancer.

225 Using Quantitative Seroproteomics to Identify Antibody Biomarkers in Pancreatic Cancer
Darshil T. Jhaveri, Min-Sik Kim, Elizabeth D. Thompson, Lanqing Huang, Rajni Sharma, Alison P. Klein, Lei Zheng, Dung T. Le, Daniel A. Laheru, Akbilesh Pandey, Elizabeth M. Jaffe, and Robert A. Anders

Serum samples from patients in a phase II pancreas cancer vaccine clinical trial were subjected to quantitative proteomics. Three highly induced proteins in the pancreas after vaccination became targets of antibodies. Patients harboring these antibodies had improved clinical outcomes.

234 Comprehensive Immune Profiling of Lung Adenocarcinomas Reveals Four Immunosubtypes with Plasma Cell Subtype a Negative Indicator
Yutaka Kurebayashi, Katsuya Emoto, Yuichiroy Hayashi, Ikku Khostiyama, Takashi Ohitsu, Hisao Asamura, and Michiie Sakamoto

Lung cancer is a complex disease with variable outcomes. Immune cells from 174 cases were quantified immunohistochemically, identifying four immunosubtypes of lung adenocarcinoma (CD8, mast cell, macrophage/DC, and plasma cell) that could potentially be useful for therapy selection.
248 Immunotherapy against Metastatic Melanoma with Human iPS Cell–Derived Myeloid Cell Lines Producing Type I Interferons
Azusa Miyashita, Satoshi Fukushima, Satoshi Nakahara, Yosuke Kubo, Aki Tokuzumi, Junji Yamashita, Jun Aoi, Miwa Haruta, Satoru Senju, Yasuharu Nishimura, Masatoshi Jinnin, and Hiroshu Ihn
Human myeloid cell lines derived from iPS cells were genetically modified to express type I IFNs. These cells durably inhibited the growth of human melanoma in xenograft models by infiltrating tumors and providing local antitumor effects.

259 CAR T Cells Targeting Podoplanin Reduce Orthotopic Glioblastomas in Mouse Brains
The glioblastoma subtypes with the worst prognoses often bear podoplanin. T cells expressing a chimeric antigen receptor that targets podoplanin were specific and effective against PDPN-positive glioblastoma cells in vitro and increased survival time in a mouse model.
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