WHAT WE’RE READING

755 Literature Round-Up: Impactful Published Papers

MILESTONES IN CANCER IMMUNOLOGY

756 The Sixth Annual AOCR–CRI Lloyd J. Old Award in Cancer Immunology

CANCER IMMUNOLOGY MINIATURE

758 The Clinical Activity of PD-1/PD-L1 Inhibitors in Metastatic Clear Cell Renal Cell Carcinoma

766 Adaptive NK Cells Resist Regulatory T-cell Suppression Driven by IL37

768 IL22 Promotes Kras-Mutant Lung Cancer by Induction of a Protumor Immune Response and Protection of Stemness Properties

776 A CS1-NKG2D Bispecific Antibody Collectively Activates Cytolytic Immune Cells against Multiple Myeloma

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RESEARCH ARTICLES

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788 IL22 Promotes Kras-Mutant Lung Cancer by Induction of a Protumor Immune Response and Protection of Stemness Properties

Mitochondrial Morphological and Functional Reprogramming Following CD137 (4-1BB) Costimulation

CAR-T Cells Surface-Engineered with Drug-Encapsulated Nanoparticles Can Ameliorate Intratumoral T-cell Hypofunction

Tumor-Specific Inhibition of In Situ Vaccination by Distant Untreated Tumor Sites
Subcellular Localization of Antigen in Keratinocytes Dictates Delivery of CD4⁺ T-cell Help for the CTL Response upon Therapeutic DNA Vaccination into the Skin
Nikolina Bąbał, Astrid Bovens, Evert de Vries, Victoria Iglesias-Guimarais, Tomasz Ahrends, Matthew F. Krummel, Jannie Borst, and Adriaan D. Bins

Optimal vaccination relies on the confluence of multiple factors. An examination of how subcellular localization of antigen affects priming of CD8⁺ T cells reveals that secreted vaccine protein best solicits CD4⁺ T-cell help, leading to efficient CTL priming.

Whole Exome and Transcriptome Analyses Integrated with Microenvironmental Immune Signatures of Lung Squamous Cell Carcinoma
Jeong-Sun Seo, Ji Won Lee, Ahreum Kim, Jong-Yeon Shin, Yoo Jin Jung, Saë Bomi Lee, Yoon Ho Kim, Samina Park, Hyun JoLee, In-Kyu Park, Chang-Hyun Kang, Ji-Young Yun, JiHy Lee, and Young Tae Kim

Subtypes of lung cancer are revealed by patterns of genomic alteration and immune infiltration. These patterns of mutation and immune cell presence could be used to guide choices of immunotherapy in a subtype-specific manner.

Drug-Induced Senescent Multiple Myeloma Cells Elicit NK Cell Proliferation by Direct or Exosome-Mediated IL15 Trans-Presentation
Cristiana Borrelli, Biancamaria Ricci, Elisabetta Vulpi, Cinzia Fionda, Maria Rosaria Ricciardi, Maria Teresa Petrucci, Laura Masuelli, Agnese Peri, Marco Cippitelli, Alessandra Zingoni, Angela Santoni, and Alessandra Soriani

Low-dose chemotherapy induced a senescent phenotype in multiple myeloma cells, which enhanced expression of IL15 and membrane IL15/IL15RA complex. This promoted IL15 trans-presentation that enhanced NK cell activation and proliferation, providing insights for the use of senescence-based therapies.

Nanobody–Antigen Conjugates Elicit HPV-Specific Antitumor Immune Responses
Andrew W. Woodham, Ross W. Cheloha, Jingjing Ling, Mohammad Rashidian, Stephen C. Kolifrath, Maia Mesnygier, Joao N. Duarte, Justin M. Bader, Joseph G. Skeate, Diane M. Da Silva, W. Martin Kast, and Hidde L. Ploegh

A targeted purely protein-based therapeutic vaccine elicits CD8⁺ T-cell responses in an HPV model of cancer, resulting in tumor regression.