

Special Issue

The Advanced Research on Cancer Immunology

Message from the Guest Editors

Cancer immunology has transformed oncology by unlocking new therapeutic avenues that mobilize the immune system to recognize and eliminate tumors. While approaches such as immune checkpoint inhibitors, adoptive cell transfer, monoclonal antibodies, and therapeutic cancer vaccines have achieved meaningful clinical successes, their effectiveness is often hindered by the immunosuppressive tumor microenvironment (TME). Tumors evade immune destruction through several mechanisms, including upregulation of checkpoint ligands, recruitment of regulatory T cells and myeloid-derived suppressor cells, and secretion of inhibitory cytokines. This chapter highlights current insights into how the TME orchestrates immune suppression, the resulting challenges for immunotherapy resistance, and emerging strategies aimed at overcoming these barriers. A deeper understanding of these processes will be critical for developing next-generation immunotherapies with greater efficacy and long-lasting patient benefit.

Guest Editors

Dr. Pasupathi Sundaramoorthy
InVen Bioscience, Raleigh, NC, USA

Dr. Naresh Poondla
Department of Neurology, Icahn School of Medicine at Mount Sinai,
New York, NY, USA

Dr. Cody C. Mchale
Molecular Targeted Therapeutics Laboratory, Levine Cancer Institute,
Atrium Health, Charlotte, NC 28204, USA

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
vaccines@mdpi.com

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Message from the Editor-in-Chief

Vaccines (ISSN 2076-393X) has had a 6-year history of publishing peer-reviewed state of the art research that advances the knowledge of immunology in human disease protection. Immunotherapeutics, prophylactic vaccines, immunomodulators, adjuvants and the global differences in regulatory affairs are some of the highlights of the research published that have shaped global health. Our open access policy allows all researchers and interested parties to immediately scrutinize the rigorous evidence our publications have to offer. We are proud to present the work and perspectives of many to contribute to future decisions concerning human health.

Editor-in-Chief

Prof. Dr. Ralph A. Tripp

Department of Infectious Diseases, College of Veterinary Medicine,
University of Georgia, Athens, GA 30602-7387, USA

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