Special Issue

Breaking through the Barricades: Immune Checkpoint Molecules and Immunotherapy in Cancer

Message from the Guest Editor

This Special Issue will focus on emerging trends in immune checkpoint molecules and immunotherapy in cancer. Although the use of PD-1/PD-L1 and CTLA-4 inhibitors yields unprecedented clinical effects, the role of ICIs in the modulation of the crosstalk between cancer cells and other tumor-associated cell types (e.g., immune and vascular cells) is another key feature that still has not been deeply investigated. The discovery of these mechanisms has the potential to give rise to the development of new therapeutic strategies, and to the development of new prognostic and predictive biomarkers. This Special Issue invites submissions in any area relating to these themes. Possible topics within this scope include (but are not limited to) the following:

- Identification of novel immune checkpoints and inhibitors;
- Molecular mechanisms regulating immune checkpoint molecule expression;
- Mechanisms of resistance to ICIs;
- Strategies to improve the efficacy of ICIs;
- Impact of ICIs on tumor angiogenesis and lymphangiogenesis;
- Mechanisms of tumor cell invasion and metastatic dissemination;
- Evaluation of new biomarkers with predictive value for ICI therapies.

Guest Editor

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Message from the Editor-in-Chief

Biomedicines (ISSN 2227-9059) is an open access iournal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to Biomedicines, be it original research, review articles, or developing Special Issues of current key topics.

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