

Special Issue

Applications of Nanomaterials in Immunotherapies

Message from the Guest Editors

Dear colleagues,

Nanomaterials comprise a large selection of tools that can be used as delivery vectors for drugs and bioactive molecules, including immunological agents.

The therapeutic targeting of the immune system, including chimeric antigen receptor T cell therapy, immune checkpoint blockade therapy, neoantigen peptide and mRNA vaccines, and small-molecule modulators, emerges as one of the most effective therapeutic modalities for treating various immune and autoimmune diseases, including cancers and diabetes, as well as cell and tissue transplants in human patients. As long-term and sustained release of immunotherapeutics is necessary for enhancing their efficacy and reducing toxicity, nanotechnology and nanomaterials can ensure the accumulation of immunotherapeutics, controlled release and precision delivery of immune drugs.

In this Special Issue, original research articles and reviews are welcome. Research areas include (but not limited to) the fabrication and applications of the following: Design and synthesis of nanomaterial-based delivery systems; Nano-vaccines; Nanomaterial-based cancer immunotherapy; Nanomaterial-based targeted and/or localized immunomodulatory therapy.

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Editor-in-Chief

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