Special Issue

Nanomedicine and Immunotherapy

Message from the Guest Editor

Immunotherapeutic agents have opened new avenues for cancer treatment by stimulating the host's immune system and have attracted significant attention for cancer therapy. The major advantage of cancer immunotherapy over current standard therapies is that it can effectively prevent metastasis and recurrence due to the phenomenon of immunological memory. Moreover, as a result of the induced immune responses with a population of CD8+ T cells and T memory cells, the long-term control of tumors could be facilitated by immune memory without tumor recurrence. The significant success of small-scale trials based on immune-checkpoint inhibition (ICI), with different antibodies and chimeric antigen receptor T cell (CAR-T) engineering, has enormously boosted the applications of immunotherapy in recent years. Thus, the lack of effective therapeutic agents associated with immunotherapies and the existence of an immunosuppressive tumor microenvironment remain the main obstacles for an effective application of immunotherapy. Full papers, communications, and reviews are all welcome.

Guest Editor

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Deadline for manuscript submissions

closed (20 September 2022)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/103917

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Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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