



Advancing Cancer Immunotherapy: Unleashing the Potential of the Immunological Synapse

Guest Editor:

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Deadline for manuscript
submissions:

30 June 2024

Message from the Guest Editor

Dear Colleagues,

The immunological synapse, is a specialized cell–cell junction formed between immune cells. This Special Issue will primarily highlight the latest research advancements concerning the immunological synapse, including but not limited to:

- Structure and Formation—Investigating the molecular architecture, dynamic formation, and key proteins involved in immunological synapses.
- Signaling and Function—Examining signaling pathways, impact on immune-cell activation and proliferation, and cross-talk between immune cells and antigen-presenting cells in synapses.
- Role in Cancer Immunotherapy—Exploring synapse dysfunction in cancer immune evasion, role in immunotherapies' efficacy, and developing strategies for improved treatment outcomes.
- Microenvironment and Interactions—Understanding how the tumor microenvironment affects synapse formation; investigating interactions among immune, tumor, and stromal cells; and their influence on tumor immune response.
- Technological Advances—Developing real-time imaging techniques, computational modeling for synapse dynamics, and engineering synthetic synapses for targeted therapies.





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Message from the Editor-in-Chief

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