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Nanoparticles in Immunology

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Message from the Guest Editor

Dear Colleagues,

Recent developments in nanotechnology have led to a wide range of nanomaterials, with the purpose of interacting with the immune system. These novel nanomaterials are designed as carriers for a drug or antigen cargo to stimulate or suppress the immune system, encompass targeting moieties, such as peptides or antibodies, to direct material to certain cells to enhance immunity or imaging of immune system compartments. Furthermore, the inherent properties of nanomaterials are being used, enhanced, or altered to effect routes of application, delivery, and release of cargo.

This Special Issue of Nanomaterials will capture the current knowledge in this area, through original research and reviews so as to provide critical dialogue in synthesis of nanomaterials for a specific immunological applications.

Prof. Dr. Neil M. O'Brien-Simpson

Guest Editor



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Special Issue



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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal-organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

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