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Nanobiomaterials in Microbiology and Immunology

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Message from the Guest Editors

The field of nanobiomaterials has developed rapidly and continuously in recent years. Innovative techniques have emerged to facilitate the precise manipulation of materials at the nanoscale, providing diverse applications for the biomedical field. When introducing an external material into the mammalian body, the most important challenge is to determine if the body will develop an immune response. Another challenge that researchers need to face is microbial contamination and biofilm development risk, knowing that microbial adherence is in proportionally inverse ratio with the compatibility of foreign biomaterial with host tissues. It is well known that any material to be introduced into the body needs to be sterile, and accidental microbial colonization must be avoided. Numerous antimicrobial nanosystems have been developed based on materials tailored at the nanoscale. This Special Issue aims to provide an updated collection of papers, showing the most relevant progress made in the field of development and characterization of nanobiomaterials, targeting their applications in different prosthetic or therapeutic device production with anti-inflammatory and antibiofilm properties.

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Message from the Editor-in-Chief

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