

Special Issue

Protein-Based Biosensors and Biomaterials for Diagnostic Application and Drug Discovery

Message from the Guest Editors

Proteins are some of the most versatile and well-studied macromolecules that can be incorporated into cells and biomaterials for the engineering of biosensors with biomedical applications. Protein-based biosensors and biomaterials have gained special attentions as they offer new opportunities in the development of high-throughput screening platforms for drug discovery, laboratory and point-of-care diagnostics, and theranostic tools. Cell-based biosensors have been widely used in the selection of chemical compounds with new pharmaceutical formulations in protein targeting through high-throughput screening to generate lead drug candidates. Similarly, polymeric and lipid-based nanoparticles and nanovesicles have been developed as nanomedicine as well as biosensing tools for biomedical applications and the goal is to translate these therapies and tools into the clinics. We invite authors to submit original articles and review articles highlighting the latest advances in protein-based biosensors and biomaterials with high sensitivity and specificity as well as potential for miniaturization, mass production, and high-throughput applications.

Guest Editors

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Deadline for manuscript submissions

closed (25 April 2024)



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Message from the Editor-in-Chief

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Editor-in-Chief

Prof. Dr. Amélia Pilar Rauter

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