

Special Issue

Immunoanalytical and Bioinformatics Methods in Immunology Research

Message from the Guest Editors

A globally strong focus on disease control and prevention requires sensitive, selective, and rapid immunoanalytical methods, while for the control of dynamic biomolecules in organisms and the prediction of biomolecules' interactions bioinformatics methods have high potential. Immunosensors and other immunoanalytical techniques registering a specific interaction between an antigen and a specific antibody immobilized on a corresponding transducer surface have high potential in the biomedical and bioanalytical fields. The sensitivity of immunoanalytical methods can be improved by using various nanomaterials to modify the sensing surface or enhance the analytical signal. Additionally, the proper orientation of biomolecules has a high impact on the sensitivity of immunosensors and immunoassays. This Special Issue aims to provide a multidisciplinary approach for research by applying advanced technologies for the ultrasensitive and selective detection and control of relevant biomarkers. Original research papers, communications, and review articles are welcome.

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