

Special Issue

Molecular Spectroscopy-Based Targeted Detection

Message from the Guest Editors

This Special Issue invites contributions encompassing, but not limited to, the following themes:

- Developing novel in vivo and in vitro detection strategies using infrared, Raman, UV-Vis, fluorescence, and other molecular spectroscopy techniques.
- Creating specific sensing platforms for disease biomarkers such as nucleic acids, proteins, metabolites, circulating tumor cells, and pathogens.
- Designing and synthesizing targeted probes, including organic dyes, rare-earth nanomaterials, SERS-active substrates, quantum dots, polymer-based sensors, and biomolecular assemblies.
- Enhancing detection sensitivity, specificity, signal-to-noise ratio, and resolution through novel spectroscopic methods or computational approaches.
- Integrating spectroscopic detection with therapeutic strategies such as photodynamic, photothermal, gene, or immuno-therapies for theranostic applications.
- Discovering new biomarker targets and related signaling pathways for diagnostic and therapeutic purposes.
- Engineering multifunctional detection systems to improve analytical performance and facilitate clinical translation.

Guest Editors

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Message from the Editor-in-Chief

Targets is an Open access journal devoted to the fast publication of the latest achievements in bio-detection and therapy. It provides important supports for the development of the related interdisciplinary areas of chemistry, life science, biomedicine, material science, and environment science, particularly in new drug development, disease diagnosis, early warning and targeted therapy, life process study, food and environment safety monitoring, quality control of products, forensic medicine, and even anti-terrorism.

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