

Special Issue

Label-Free Cancer Detection

Message from the Guest Editor

Label-free techniques have emerged as transformative tools in biomedical research and clinical applications, offering cancer detection capabilities without the need for external labeling agents. These approaches minimize sample preparation time and reduce potential perturbations, paving the way for real-time, cost-effective practice. Label-free detection also fosters minimally and non-invasive identification of cancer biomarkers, enabling home and point-of-care sampling of liquid biopsies. This Special Issue seeks to highlight cutting-edge advancements in the field, including but not limited to optical, spectroscopic, nanotechnological, and biosensing methods, as well as their integration into diagnostic platforms (e.g., microfluidics and arrays). We welcome contributions that showcase the development, optimization, and clinical translation of label-free systems for cancer detection, with the goal of enhancing early diagnosis and improving patient outcomes.

Guest Editor

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