

Special Issue

Biosensor Based Advanced Cancer Diagnostics and Therapy

Message from the Guest Editor

In the past decade, progressive development of better-affinity aptamers, antibodies, and engineered antibodies to disease biomarkers has been achieved, with concurrent advances in nanotechnology, which has stimulated and increased the development of nanomaterials-based biosensors to gradually replace the classical diagnostic methods and therapeutic means. In this issue, biomarkers/biosensors (e.g., signaling molecule, cell adhesion molecules, telomerase, tumor suppressors, microRNA, immune checkpoint, circular tumor marker DNA, tumor spheroid, tumor-related exosomes), as well as different types of transducers (e.g., electrochemical, optical, thermal, and piezoelectric) are used to fulfill the above needs. Therapeutic approaches, such as anticancer drug therapy, chem-photothermal therapy, and immune checkpoint therapy, are also included to meet the needs in the field. Original research articles are preferred for this issue. **Keywords:** signaling molecule; METCAM; microRNA; circular tumor marker DNA; tumor-related exosome; telomerase; tumor suppressor; tumor spheroid; LFIS; anticancer drug; chem-photothermal therapy; immune checkpoint therapy

Guest Editor

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