Special Issue

Biosensing Applications and Cancer Cell Diagnosis/Treatment

Message from the Guest Editors

Nanostructures are being studied extensively for developing a wide range of biosensors and theranostic applications. The unique properties of nanostructures (optical, electrical, catalytic, etc.) enable the design of ultrasensitive diagnostic tools for the detection of a wide variety of bio-analytes, including but not limited to small molecules, toxic metal ions, oligonucleotides, proteins, as well as microorganisms such as viruses, bacteria, and cells.

Possible topics include, but are not limited to:

- Advanced materials for sensing applications;
- New approaches for diagnosis of diseases and disorders;
- Novel materials for developing non-invasive therapeutic techniques (e.g., photodynamic therapy, photothermal therapy, etc.);
- •Fundamentals of non-invasive techniques for cancer therapy:
- Multifunctional nanomaterials for theranostic applications;
- Microfluidics and lab-on-chip applications;
- Biofunctionalization for targeted therapy and sensing;
- Bioimaging probes and medical applications;
- Nanoparticles-based biosensors;
- Cancer biology and drug screening

Guest Editors

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Deadline for manuscript submissions

closed (1 March 2021)



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Message from the Editorial Board

A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

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