

Special Issue

Aptamers-Based Biosensing, Diagnostics and Treatment

Message from the Guest Editors

Aptamers are single-stranded structured oligonucleotides (DNA or RNA). Due to their numerous merits, such as high affinity, high specificity, small size, little immunogenicity, stable structures, and ease of chemical modification, aptamers have now been identified as excellent tools for cancer diagnosis and therapy. Furthermore, aptamers can gain more flexibility as cancer targeting tools when conjugated to nanomaterials. On the other hand, the practical applications still require the discovery of high-performance aptamers, modified SELEX techniques with high selection efficiency, and more novel and effective strategies to design aptamer-based probes. Therefore, we would like to organize a Special Issue of Life to introduce the latest methods and advances in aptamer SELEX and aptamer-based probes for cancer diagnostics and treatment. Potential topics include, but are not limited to:

- Aptamer SELEX;
- Aptamer targeted drug delivery;
- Aptamer-based imaging probes;
- Aptamer for cancer therapy;
- Aptamer-based detection of circulating targets;
- Aptamer modification for cancer diagnosis and therapy;
- Aptasensors.

Guest Editors

Dr. Jine Wang

CAS Key Laboratory of Nano-Bio Interface, Suzhou Institute of Nano-Tech and Nano-Bionics, Chinese Academy of Sciences, Suzhou 215123, China

Dr. Tian Gao

CAS Key Laboratory of Nano-Bio Interface, Suzhou Institute of Nano-Tech and Nano-Bionics, Chinese Academy of Sciences, Suzhou 215123, China

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Life
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
life@mdpi.com

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Editor-in-Chief

Prof. Dr. Lluís Ribas de Pouplana

Institute for Research in Biomedicine (IRB Barcelona), The Barcelona
Institute of Science and Technology, 08028 Barcelona, Spain

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