



life



an Open Access Journal by MDPI

Aptamers-Based Biosensing, Diagnostics and Treatment

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

Deadline for manuscript submissions:

closed (1 December 2022)

Message from the Guest Editors

Dear Colleagues,

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.



mdpi.com/si/106536

Special Issue



life



an Open Access Journal by MDPI

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

Message from the Editor-in-Chief

Life (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

Author Benefits

Open Access: free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [PMC](#), [CAPus / SciFinder](#), [AGRIS](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Biology*) / CiteScore - Q2 (*Paleontology*)

Contact Us

Life Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/life
life@mdpi.com
[X@Life_MDPI](#)