



an Open Access Journal by MDPI

## Aptamers

Guest Editors:

**Dr. Julian Alexander Tanner**

School of Biomedical Sciences, Li  
Ka Shing Faculty of Medicine, The  
University of Hong Kong, Hong  
Pokfulam, Hong Kong, China

**Dr. Andrew Kinghorn**

School of Biomedical Sciences, Li  
Ka Shing Faculty of Medicine, The  
University of Hong Kong, Hong  
Kong SAR 999077, China

**Dr. Yee-Wai Cheung**

School of Biomedical Sciences, Li  
Ka Shing Faculty of Medicine, The  
University of Hong Kong,  
Pokfulam, Hong Kong, China

Deadline for manuscript  
submissions:

**closed (31 October 2017)**

### Message from the Guest Editors

Dear Colleagues,

Aptamers are oligonucleotides capable of specific, high affinity binding to a wide variety of target molecules. These attributes have led to their application in diagnostics, therapeutics, targeted delivery, fluorescence imaging, as well as biosensing. The methods by which aptamers are selected have been iteratively improved for almost three decades, yielding a robust system capable of producing aptamers rapidly and at low cost with many advantages relative to antibodies. In recent years, there has been an explosion of innovation in aptamer science including enhanced selection techniques, riboswitches, unnatural base pairs, nucleic acid nanostructures, DNazymes and aptazymes. This Special Issue of *IJMS* will cover a selection of research topics and current review articles highlighting work at the frontiers of aptamer research and applications.

Dr. Julian Alexander Tanner

Dr. Andrew Kinghorn

Dr. Yee-Wai Cheung

*Guest Editors*



[mdpi.com/si/8280](http://mdpi.com/si/8280)

**Special** Issue



an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Maurizio Battino

Department of  
Odontostomatologic and  
Specialized Clinical Sciences,  
Sez-Biochimica, Faculty of  
Medicine, Università Politecnica  
delle Marche, Via Ranieri 65,  
60100 Ancona, Italy

## Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

## 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, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Inorganic Chemistry)

## Contact Us

---

*International Journal of Molecular  
Sciences* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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

mdpi.com/journal/ijms  
ijms@mdpi.com  
X@IJMS\_MDPI