



## The Effects of Ketones on Metabolic Function

Guest Editors:

**Dr. Benjamin T. Bikman**

**Dr. Paul R. Reynolds**

**Dr. Daniel A. Kane**

**Dr. Katsu Funai**

Deadline for manuscript  
submissions:

**closed (30 June 2019)**

### Message from the Guest Editors

Dear Colleagues,

Once considered “metabolic garbage”, ketones have become the focus of significant efforts within the realm of cardiometabolic research. Recent discoveries have revealed that ketones, such as acetoacetate and its precursor  $\beta$ -hydroxybutyrate ( $\beta$ -HB), are not only viable fuel sources for all cells with mitochondria, including the brain, but are also legitimate signaling molecules, eliciting advantageous changes in inflammation, cognition, oxidative stress, and more.

We invite authors to contribute original research articles, as well as review articles that will illustrate and stimulate the blossoming effort to understand the role of ketones in diverse metabolic models and conditions. The accepted papers will highlight to readers the metabolic relevance of ketones and, thus, potentially provide a new paradigm on the role of ketones in altering cellular function.

Dr. Benjamin T. Bikman

Dr. Paul R. Reynolds

Dr. Daniel A. Kane

Dr. Katsu Funai

*Guest Editors*





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 & Molecular Biology*) / CiteScore - Q1 (*Inorganic Chemistry*)

## Contact Us

*International Journal of Molecular  
Sciences* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

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

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