

Special Issue

The Effects of Ketones on Metabolic Function

Message from the Guest Editors

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 α -hydroxybutyrate (α -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.

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)



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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.

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