

## Special Issue

# Impact of Circulating Ketones on Physiology

### Message from the Guest Editor

A Special Issue has been set up to incorporate papers that illustrate the consequences of elevating ketone levels on physiological changes in animal or human models. This Special Issue, edited by Dr. Maleah Winkler, will focus on the physiological effects that occur due to dietary alterations (i.e., ketogenic diet, prolonged fasting) or ketone supplementation. Beta-hydroxybutyrate, a ketone molecule that is measured in the blood to determine ketone status as well as commonly found in supplements, has been shown to act as both a signaling molecule and fuel source for extra-hepatic tissues. As a signaling molecule, beta-hydroxybutyrate has been shown to possibly reduce inflammation and sympathetic activation, while as a fuel source, it has been shown to improve tissue health, and cognitive and exercise performance. More studies revolving around these concepts would allow more depth and understanding to this popular topic. This issue seeks to exhibit related physiological commonalities as well as controversies that experts are finding after increasing circulating ketone levels.

### Guest Editor

Dr. Maleah Holland-Winkler

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### Deadline for manuscript submissions

closed (30 October 2024)



## Life

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### 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.

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