

## Special Issue

# Pathophysiology of Fatty Acid Metabolism

### Message from the Guest Editors

Fatty acids (FAs) are essential to human health, acting as energy sources, signalling molecules, and regulators of gene expression. Although humans cannot produce them, they can metabolize the essential fatty acid precursors like linoleic and alpha-linolenic acid (LA and ALA, respectively) into their long-chain derivatives through the actions of the elongase and desaturase enzymes. These long-chain FAs significantly influence inflammatory responses, brain function, and overall metabolic health. This Special Issue will highlight new insights into fatty acid metabolism, emphasizing its critical role in CVD, CKD, and other metabolic disorders. We invite original research and reviews that explore how FAs influence human health and contribute to disease prevention by targeting molecular mechanisms, enzymes, and signalling pathways.

### Guest Editors

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### Deadline for manuscript submissions

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*Biomedicines* (ISSN 2227-9059) is an open access journal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to *Biomedicines*, be it original research, review articles, or developing Special Issues of current key topics.

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### Editor-in-Chief

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