

Special Issue

Novel Insights into Stress and Nutritional Regulation in Animals

Message from the Guest Editors

Environmental, psychological, and metabolic stressors disrupt homeostasis, altering nutrient partitioning, immune competence, and overall resilience.

Conversely, nutritional strategies can modulate neuroendocrine pathways, mitigate stress-induced damage, and enhance adaptive capacity. While this bidirectional relationship is widely acknowledged, novel methodologies are revolutionizing our understanding of these interactions. This Special Issue aims to curate research that pushes the boundaries of this field. We seek contributions that uncover mechanistic insights into how stressors influence nutrient metabolism, gut integrity, and metabolic signaling. We welcome studies exploring innovative nutritional interventions designed to prevent, alleviate, or build resilience against various stress burdens. We invite original research and reviews across species that employ integrative approaches. Topics of interest include, but are not limited to, molecular crosstalk between stress axes and nutrient-sensing pathways, the role of the gut–X axis, microbiome-mediated effects, sustainable nutritional solutions for stress mitigation, and biomarkers for assessing stress–nutrition status.

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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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