

# Special Issue

## Advances in Heart–Brain Axis

### Message from the Guest Editor

Once considered as functionally distinct organs, the heart and brain are now recognized as part of an integrated bidirectional axis, interconnected through complex neural, humoral, metabolic, and immune pathways. Disruptions in this dialogue have been implicated in a wide range of disorders, including heart failure, arrhythmias, stroke, depression, and cognitive decline. Mounting evidence demonstrates that alterations in cardiac function can profoundly affect brain structure and activity, while central nervous system dysfunction—including stress, autonomic imbalance, and neuroinflammation—can negatively impact cardiac output and rhythm stability. This Special Issue aims to explore the multifaceted mechanisms that govern heart–brain crosstalk in both physiological and pathological conditions. Topics of interest include neurocardiology, autonomic regulation, the role of neuroinflammation, cardiac–cerebral syndromes, psychocardiology, and emerging molecular and imaging biomarkers. We are particularly interested in translational approaches that bridge basic science and clinical practice and in innovative therapeutic perspectives targeting this axis.

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### Guest Editor

Dr. Teresa Soda

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### Deadline for manuscript submissions

31 December 2025



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### Message from the Editor-in-Chief

*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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