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How Do the Brain Neural Networks Involved in Glucose Homeostasis Affect Cardiovascular Function Through Metabolic Dysregulation?

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Deadline for manuscript submissions:

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Message from the Guest Editors

Dear Colleagues,

Glucose dysregulation contributes to the development of cardiovascular disease through the emergence of metabolic disorders such as obesity, diabetes, and metabolic syndrome, which are becoming increasingly prevalent. The brain, specifically the brainstem and hypothalamus, contains neural networks that regulate glucose homeostasis and play a crucial role in metabolism and cardiovascular function. The aim of this Special Issue of *Metabolites* is to examine the intricate relationship between glucose homeostasis and cardiovascular function within the context of brain neural networks and metabolic dysregulation. The scope of the issue includes, but is not limited to, research on how changes in brain glucose-regulating pathways affect the activity of the sympathetic and parasympathetic nervous systems, the release of hormones and neurotransmitters, inflammation, oxidative stress, appetite, satiety, and energy metabolism in relation to cardiovascular function in both health and disease.

The purpose of this Special Issue is to present a collection of original research articles and reviews toward enabling a comprehensive understanding of the main theme.



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Special Issue



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Editor-in-Chief

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Message from the Editor-in-Chief

The metabolome is the result of the combined effects of genetic and environmental influences on metabolic processes. Metabolomic studies can provide a global view of metabolism and thereby improve our understanding of the underlying biology. Advances in metabolomic technologies have shown utility for elucidating mechanisms which underlie fundamental biological processes including disease pathology. *Metabolites* is proud to be part of the development of metabolomics and we look forward to working with many of you to publish high quality metabolomic studies.

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