

Special Issue

Brain–Heart Axis: Molecular and Cellular Biology of Cardiovascular Disorders and Mental Health

Message from the Guest Editors

Cellular, molecular, metabolic, and genetic aspects in cardiovascular disorders are intimately interconnected and open new pathophysiological, diagnostic, and therapeutic perspectives. The link between mind and heart is characterized by a continuous and bidirectional exchange: a two-way communication on which the heart–brain axis is based. These are interconnected and interdependent entities, evident from the fact that pathological factors and conditions that affect one of these components can also affect the other. The aim of this Special Issue is to stimulate knowledge of the cellular and molecular mechanisms through which psychological factors, brain suffering and/or damage, epigenetic alterations, and gene mutations are associated with cardiovascular risk factors, predisposing patients to cardiovascular events. Furthermore, this multidisciplinary orientation could allow for more effective management of the clinical course of cardiovascular disease through a personalized therapeutic approach with a consequent reduction in terms of national health cost.

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