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NOS/NO System and Heart

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Message from the Guest Editors

Nitric oxide is definitively recognized as an essential autocrine–paracrine modulatory molecule for the heart. Generated by differently regulated nitric oxide synthase isoenzymes, it coordinates many intracardiac pathways under basal conditions and in the presence of physiological and pathological challenges. Once produced, NO is rapidly metabolized to nitrite and nitrate, highly reactive metabolites that, under low oxygen, can be reconverted to NO, giving rise to a rich and fine nitrosative equilibrium, crucial for cardiac modulation.

We invite you to contribute with your latest research findings or review articles to this SI with the aim to provide an updated framework of information on the NOS/NO system in cardiac homeostasis of invertebrates and vertebrates, from molecules to organs and systems. Contributions on the old evolutionary roots of the cardiac nitrergic control, its importance during heart development and stress adaptation, and on the translational potential of animal studies, would complete the topic.

Deadline for manuscript submissions:

closed (20 October 2021)



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Special Issue



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Message from the Editor-in-Chief

It has been recognized in medical sciences that in order to prevent adverse effects of "oxidative stress" a balance exists between prooxidants and antioxidants in living systems. Imbalances are found in a variety of diseases and chronic health situations. Our journal *Antioxidants* serves as an authoritative source of information on current topics of research in the area of oxidative stress and antioxidant defense systems. The future is bright for antioxidant research and since 2012, *Antioxidants* has become a key forum for researchers to bring their findings to the forefront.

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