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The Role of the Renin–Angiotensin System in Oxidative-Stress-Related Mechanisms in Neurodegenerative Diseases

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Message from the Guest Editors

The renin–angiotensin system (RAS) was initially considered a circulating hormonal system that played a major role in the regulation of blood pressure as well as sodium and water homeostasis. However, local or paracrine RASs were later identified in many tissues, including in the brain. The tissue RAS basically consists of two arms, a pro-oxidative and pro-inflammatory axis in addition to an anti-oxidative and anti-inflammatory axis, that counteract each other to establish a correct balance in physiological conditions. In the brain, results from experimental models and clinical trials have involved the RAS in the progression of major neurodegenerative diseases. Consistent with this, RAS-modulating drugs have been suggested as a possible neuroprotective strategy against the progression of neurodegeneration.

This Special Issue can include both clinical and experimental studies aiming to clarify possible mechanisms connecting the RAS and neurodegeneration as well as possible neuroprotective strategies based on RAS modulation.



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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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