



Molecular Advances in Aldosterone and Aldosterone Related Disorders

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Aldosterone plays an important role in the pathogenesis of cardiovascular, renal, and metabolic diseases. Aldosterone synthesis is regulated not only by angiotensin II and potassium but also substance P, indicating that the autonomic nervous system exerts a direct stimulatory role. A potential role of aldosterone-producing cell clusters (APCCs) in aldosterone-related disorders has been reported. Several somatic mutations in ion-channel genes have been implicated in the development of aldosterone-producing adenoma and APCCs. Mineralocorticoid receptors (MRs) exist in both epithelial and non-epithelial cells such as vascular endothelial and smooth muscle cells, cardiomyocytes, and adipocytes. Type II lung epithelial cells possess MRs, which may contribute to COVID-19 complications.

The purpose of this Special Issue is to highlight the molecular advances in aldosterone synthesis, and the pathophysiological roles of aldosterone and aldosterone-related disorders.





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Message from the Editor-in-Chief

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