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The Role of Na,K-ATPase in Human Health: From Structure to Function

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Message from the Guest Editors

The transport and receptor functions of the enzyme are sensitive to oxygen concentrations and the redox status of the cell, and one of the key determinants of the enzyme's redox sensitivity is S-glutathionylation of the Na,K-ATPase subunits. Dysregulation of Na,K-ATPase functioning has an important impact on numerous human pathological conditions including cancer; chronic kidney disease; preeclampsia; and cardiovascular, metabolic and neurological disorders. Na,K-ATPase is also of great interest in viral biology because it is a prominent therapeutic target in a broad spectrum of viral infections. Understanding the molecular mechanisms of Na,K-ATPase dysfunction in pathologies will allow us to propose new methods for the prevention or correction of these diseases in the future. This Special Issue welcomes original articles and reviews on the role of Na,K-ATPase in the pathogenesis of various human disorders and the molecular mechanisms underlying Na,K-ATPase dysfunction.



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Message from the Editor-in-Chief

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