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Cellular and Molecular Aspects of Tracking Endothelial Function for Clinical Diagnosis, Prognosis and Treatment

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Message from the Guest Editors

Dear Colleagues,

Biomarkers of endothelial function are used at research level: nitric oxide production, asymmetric dimethylarginine, adhesion molecules expression, endothelin-1, prostaglandin or thromboxane levels, plasminogen activator inhibitor-1, etc.

In this Special Issue, we intend to describe the state of the art at this point and try to envision the benefits of endothelial function monitoring and the steps to follow to establish clinically useful biomarkers of this function; we also hope to update the information on potential pharmacological targets for the treatment of endothelium-related diseases.

Possible contribution to health care systems of tracking endothelial function. There are possible benefits for cardiovascular and non-cardiovascular diseases (e.g., diabetes mellitus, post-acute coronary syndrome, stroke, etc.).

Technical problems to solve for introducing endothelial function biomarkers in clinical routine.

Current proposals for endothelial function biomarkers.

Possibilities of introducing corrective treatments for endothelial function for the treatment of diseases.

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Special Issue



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