

Special Issue

Renin-Angiotensin System in Health and Diseases

Message from the Guest Editor

Renin-angiotensin-aldosterone systems (RAAS) play critical roles in the regulation of blood pressure (BP), body fluid homeostasis, and cardiovascular function. Various tissues, including the heart and kidneys, possess individual locally regulated RAASs. Overactivity of the cardiac RAAS is associated with cardiac diseases, including cardiac hypertrophy due to volume and/or pressure overload, heart failure, coronary artery disease with myocardial infarction, and hypertension. The overactivity of the renal RAAS is associated with various kidney diseases such as nephropathies and renal artery stenosis. RAAS blockade with angiotensin-converting enzyme inhibitors (ACEIs) and/or angiotensin receptor AT(1) blockers (ARBs) is very useful for the treatment of arterial hypertension, chronic heart failure (CHF), chronic kidney disease (CKD), atherosclerosis, and diabetes. The purpose of this Special Issue is to present the current efforts in the involvement of the RAAS in the molecular mechanisms underpinning hypertension, CHD, and CKD, as well as procoagulant processes throughout COVID-19, from the viewpoint of pathogenesis of organ complications as well as clinical outcomes.

Guest Editor

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