

Special Issue

Valvular Heart Disease: From Basic to Clinical Advances

Message from the Guest Editor

Calcified aortic valve disease (CAVD) affects over six million Americans and is associated with changes in the mechanical properties of valve leaflets, resulting in impaired valvular blood flow. CAVD is a fibrocalcific disease with multifactorial risk factors related to the complex environment where the aortic valve (AV) resides. The valvular tissue microstructure, particularly the extracellular matrix (ECM), plays an important role in maintaining the normal mechanical behavior of the valve. In the Special Issue, we want to focus on the effect of lipoproteins on the calcification of aortic valves. The Special Issue will take into account the cell signaling and clinical studies showing the implication of ECM–lipid retention in the calcification of aortic valves. In addition, this issue will expose lipid lowering strategies in the context of aortic stenosis.

Guest Editor

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