Special Issue

Protein Therapy for Cardiovascular Disease Treatment

Message from the Guest Editors

Myocardial infarction (MI) occurs due to the blockage of coronary arteries, leading to ischemia of the myocardium and inflammatory cell death. The dead cardiac tissue is replaced by fibrous scar tissue, causing a decline in myocardial contractile strength and impacting the functional capacity of the heart. While treatments such as stent placement, vascular bypass, and transplantation are beneficial, they have limitations. There is an urgent need to develop novel protein therapeutics to control inflammation and to improve the regenerative capacity of the heart in the setting of acute MI and chronic heart failure. New approaches involving biologics, cell-based, or a combination of biologics and cell therapies are emerging as potential means for cardiovascular diseases. The development of an effective delivery system is crucial to ensure that therapeutic proteins reach the target tissues in the body. The exploration of various methods, including injections, implants, and other advanced drug and cell delivery technologies, is essential for this purpose.

Guest Editors

Prof. Dr. Jianjie Ma

Department of Surgery, University of Virginia, Charlottesville, VA 22903, USA

Dr. Ki Ho Park

Division of Surgical Sciences, Department of Surgery, University of Virginia, Charlottesville, VA 22903, USA

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
bioengineering@mdpi.com

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Editor-in-Chief

Prof. Dr. Anthony Guiseppi-Elie
Department of Biomedical Engineering, Texas A&M University, College Station, TX 77843, USA

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