

Tentative Outline

Special/Thematic Issue for the journal "Current Gene Therapy - CGT"

Tentative Title: Gene Therapy for Atherosclerosis

Guest Editor: Alexis Stamatikos

Scope of the Thematic Issue:

Atherosclerosis is the predominant cause for myocardial infarctions and ischemic strokes, so leads to more deaths than any other disease globally. Atherosclerosis is the result of cholesterol buildup within arteries and inflammation is thought to play a role in both the initiation of atherosclerosis as well as the progression of this disease. Therapies for atherosclerosis include medications, which are not entirstate-of-the-arts well as surgical procedures, which have complications and do not remedy the disease. However, utilizing gene therapy as a possible treatment for atherosclerosis does have the potential for both the prevention and reversal of this disease. This thematic "Gene Therapy for Atherosclerosis" issue within the "Cardiovascular Gene Therapy" section of the journal *Current Gene Therapy* will highlight the studies, advances, and future of anti-atherosclerotic gene therapy.

Keywords: Apolipoprotein; Atherogenesis; Cholesterol efflux; Endothelial activation; Hepatocyte; High-density lipoprotein; LDL receptor; Low-density lipoprotein; Vascular inflammation.

Sub-topics:

The sub-topics to be covered within the issue should be provided:

- Pro- and Anti-Atherogenic Gene Expression
- Vasoreactivity and Vasoregulation in Atherosclerosis
- Atherosclerosis Therapies involving Exosome Exploitation
- Impact of Inflammation Modulation on Atherosclerosis Development and Progression

Tentative titles:

- Identification of the most important genes associated with the development of atherosclerosis
- Gene therapy directed at RAS in Atherosclerosis
- Endothelial cell to macrophage transgene transfer via lipoparticle- and exosome-based processes

Schedule

Complete Thematic issue submission deadline: **January 01, 2023**

Details of Guest Editors:

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