

Special Issue on
Immune Modulation in Atherosclerosis

CALL FOR PAPERS

Atherosclerosis is a chronic inflammatory disease characterized by an accumulation of lipids in the artery walls, with infiltration of immune cells such as monocytes/macrophages, neutrophils, T and B cells, and the formation by vascular smooth muscle cells of a fibrous cap mainly composed of collagen. Intensified inflammatory activation could lead to plaque rupture and thrombus formation and ensuing ischemia and myocardial infarction. Atherosclerosis is probably initiated by the activation of the vascular endothelium with the expression of adhesion molecules leading to the recruitment of immune cells. Atherosclerosis is probably initiated by the activation of the vascular endothelium with the expression of adhesion molecules leading to the recruitment of immune cells. Nevertheless, initiation and sustainment of chronic inflammation is a complex process, where cytokines have central functions. Because they are expressed by all types of cells involved in atherosclerosis and modulate both innate and adaptive immune systems, they represent crucial targets in atherosclerosis therapy strategies since they are involved also specifically in the sustainment and differentiation of T and B lymphocyte populations.

We invite investigators to contribute original research articles as well as review articles that seek to address the mechanisms and function of cytokines related to B and T lymphocyte differentiation in the pathogenesis of atherosclerosis. A particular interest will be given to papers exploring or discussing the concept of T lymphocyte-dependent cytokine production in the modulation of B lymphocyte differentiation and its relevance in pathological conditions with a specific emphasis on Treg, Tfh, and Breg cells.

Potential topics include but are not limited to the following:

- ▶ Function of Treg-dependent cytokines in the atherosclerosis
- ▶ Importance of cytokines in B lymphocyte differentiation related to atherosclerosis
- ▶ B regulatory cell in atherosclerosis
- ▶ Tfh-dependent cytokines in B lymphocyte differentiation in atherosclerosis
- ▶ Cytokines signaling relative to T lymphocyte differentiation during atherogenesis

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/jir/ima/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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