

Special Issue

Serum Amyloid A: Established Roles and Emerging Questions in Health and Disease

Message from the Guest Editor

Serum Amyloid A (SAA) is an acute-phase protein that increases more than 1000-fold in circulation during acute inflammation. Despite being identified over 50 years ago, its physiological functions remain unclear. While undetectable in healthy individuals, SAA levels rise modestly and persist in chronic inflammatory diseases until the condition resolves. The transient elevation of SAA in acute inflammation is a physiological defense mechanism, whereas its persistent elevation in chronic conditions represents dysregulation and may be harmful. However, significant controversies persist in SAA research. Many *in vitro* findings have not been reproducible *in vivo*, raising concerns about their physiological relevance. Additionally, as SAA circulates primarily bound to high-density lipoprotein (HDL), which masks many of its properties, it remains unclear how SAA exerts its effects *in vivo*. Given these uncertainties, it is crucial to consolidate existing evidence and establish validated insights into SAA's functions.

Guest Editor

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