

Special Issue

Effect of Apolipoproteins on Infectious Diseases and Inflammatory Processes

Message from the Guest Editors

Apolipoproteins are a class of molecules related to cholesterol metabolism and its carriage in the blood. Apolipoproteins, such as apoA-I, apoE, and apoB100, in complex with plasma lipoproteins, may interact with LPS and other bacterial products and, thus, affecting their traffic to the liver during either acute or chronic intestinal bacterial infections and enteropathies, altering hepatic macrophage (Kupffer cell) activation and causing various degrees of liver injury. Unravelling novel molecular roadmaps, biomarkers, and mechanisms of action (modelling by in silico studies, intestinal organoids, mini-gut, and novel mouse infection strategies etc.) of LPS/lipoproteins/apolipoproteins during bacterial infections may support future clinical studies and breakthrough drug discovery. This Special Issue should focus on innovative approaches and insights to dissect the molecular roles of apolipoproteins on enteric bacterial infections, intestinal dysbiosis, intestinal immune mucosal barrier dysfunction, and intestinal inflammation with potential strategies and interventions for their amelioration.

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Editor-in-Chief

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