Special Issue

ABCG1 and HDL in Health and Disease

Message from the Guest Editors

Intracellular cholesterol content is crucial to influencing several conditions and disease states. Cellular cholesterol metabolism is regulated by numerous factors and the removal of cellular cholesterol is considered to be primarily controlled by cholesterol efflux. Two major proteins which regulate cholesterol efflux are the transporter ABCG1 and the lipoprotein HDL. However, both of these proteins appear to modulate other biological effects besides the removal of cholesterol. While HDL is largely thought to be atheroprotective, some data suggest certain HDL particles may be harmful to health. Moreover, it is not entirely elucidated whether the biological effects that ABCG1 and HDL exhibit rely entirely on ABCG1/HDL-mediated cholesterol efflux. It is also poorly understood whether ABCG1 expression in certain cells and tissues may either promote health or be a factor in the development of certain diseases. This Special Issue of Biology welcomes any novel and innovative research articles as well as comprehensive reviews which focus on the impact of ABCG1 and/or HDL in the context of health and disease.

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