



Lipid and Cholesterol Metabolism in Health and Disease: A Focus on the Cross-Talk between Peripheral Tissues and Central Nervous System

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Message from the Guest Editor

Cholesterol plays a fundamental role in the human body, at the central nervous system (CNS) level, cholesterol contributes to maintaining physiological brain function. Cholesterol can be obtained through diet and through endogenous synthesis. The correct metabolism of lipids also contributes to ensure key physiological functions.

On the other hand, the alteration of cholesterol and lipid homeostasis represents a major risk for metabolic and cardiovascular disorders, whereas at the CNS level, its impairment appears to be involved in several neurological diseases. Moreover, although cholesterol metabolism in peripheral tissues is independent from metabolism in the brain due to the blood–brain barrier, the crosstalk between central and peripheral lipid metabolism still remains an underestimated item in both physiological and pathological conditions.

Consequently, the main purpose of this Special Issue is to shed new knowledge on the possible connections between peripheral and central metabolism of lipid and cholesterol metabolism to identify possible novel targets aimed to develop a therapeutic strategy to counteract detrimental effects of their dysregulation in chronic diseases.





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Message from the Editor-in-Chief

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