



Carnitine: An Interesting Molecule in Metabolism, Pathophysiology and Nutrition

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Message from the Guest Editors

Carnitine is a natural molecule involved in several metabolic processes in virtually all living organisms. In humans, it plays a well-known role in cell bioenergetics, since it is part of the carnitine shuttle that allows fatty acids to enter the mitochondrial matrix for β -oxidation. Carnitine is also involved in other important functions: participating to peroxisomal fatty acid oxidation, regulating the CoA/acyl-CoA balance among the different cell compartments, shuttling acyl units for VLDL assembly in the endoplasmic reticulum, avoiding acetyl-CoA trapping in mitochondria during glucidic metabolism, helping the excretion of some drugs as carnitine derivatives. In addition, carnitine also plays important roles in the metabolism of microorganisms and plants.

This Special Issue will collect the most recent findings on carnitine, with the purpose of providing a comprehensive and updated overview of this interesting molecule. We welcome submissions of original research papers and reviews from different disciplines including biochemistry and molecular biology, cell biology, genetics, nutrition, medical sciences, plant science, and microbiology.





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Message from the Editor-in-Chief

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