

Special Issue

Human Mitochondrial Proteomics

Message from the Guest Editors

Mitochondria are multifaceted and regulate cellular bioenergetics, the degradation of fatty acids and amino acids, calcium levels, reactive oxygen species, and apoptosis. Because of their central function in many essential pathways, they are inherently involved in many different diseases. Defective mitochondria can be the primary causative factor, for example for inherited respiratory chain defects; however, they are also involved in cancer, diabetes, neurodegenerative disorders (Alzheimer's, Parkinson's, etc.), mental diseases (depression, schizophrenia), and cardiomyopathy.

Mitochondrial proteomics shed light on perturbation in mitochondrial functions and metabolic pathways, and are a powerful tool to delineate protein interactions, and for activity regulation by protein post-translational modifications, as well as for mitochondrial dynamics and stress responses.

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