

Special Issue

Remodeling of Mitochondria in Cancer and Other Diseases

Message from the Guest Editors

Mitochondria are highly dynamic and responsive organelles that are capable of undergoing fission and fusion and are the hub for diverse signal processors, which are fundamental to cellular homeostasis, energy production, metabolism, survival, and death. Mitochondrial remodeling, including rearranging, recycling, and reprogramming, is essential for mitochondrial quality control, structural integrity, and functional interaction with other cellular organelles. Although we are still far from fully understanding the complexity of mitochondrial remodeling, this process has been, nonetheless, implicated in the pathogenesis of many human disorders, including cancer and aging-related diseases. With the advent of new technologies, and methodologies, it is time to delineate the significance and mechanisms relevant to the dynamic remodeling of mitochondria in response to pathophysiological stresses in a more precise and comprehensive way. This Special Issue aims to increase our understanding of the role, regulation, and impact of mitochondrial remodeling in disease-specific pathology and possibly translate these findings into therapeutics, from basic research to the clinic.

Guest Editors

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