Special Issue

Yeast Mitochondria

Message from the Guest Editor

Mitochondria are essential organelles with versatile functions in cellular metabolism and homeostasis. In addition to being the best-known function as main producers of energy, they are fully integrated into the cellular metabolism and take part in maintaining cell signaling, cell adaption to external stressors, modulation of ROS signaling and maintaining oxidative homeostasis, and regulation of apoptosis. Recently, not only yeast cells, but also yeast mitochondria, have become a platform for gaining new knowledge with shared value. Using yeast cells as model organisms, much progress has been made in analyzing mitochondrial proteome, following the behavior of individual mitochondria, revealing multiple organelle–membrane tethering sites/factors, such as ER–mitochondria encounter structure, vacuole and mitochondria patch, and mitochondrial contact sites and mitochondrial DNA editing. Additionally, a better understanding of regulatory mechanisms governing mitochondrial biogenesis, mitochondrial motility, mother–daughter age asymmetry, and quantity and quality control of mitochondria in general and during cell cycle progression has been achieved.

Guest Editor

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