Special Issue

Adaptation, Aging, and Cell Death in Yeast Stress Response: Models, Mechanisms and Applications

Message from the Guest Editors

Every cell experiences stress in its life cycle, but its capacity to counteract it makes the difference in terms of adaptation, aging, and, ultimately, cell death. The budding yeast *Saccharomyces cerevisiae* is an invaluable model organism for studying the molecular mechanisms underlying stress responses and regulating cell fate. The knowledge gained in yeast, together with the evolutionary conservation of genes, proteins, and pathways, represents a useful asset for studies in other relevant systems, enabling the translation to humans. This Special Issue aims to focus on: - The role of environmental conditions on cell stress responses; - The interplay between stress and nutrient signaling pathways in cell fate determination and aging; - The hormesis paradigm in adaptive stress response; - The relevance of stress responses in industrial fermentation processes; - Omics and systems biology approaches in yeast.

Guest Editors

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Deadline for manuscript submissions

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"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

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