



# Cold-adapted Yeasts: Biodiversity, Adaptation Strategies and Biotechnological Significance

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Yeasts are a versatile group of eukaryotic microorganisms, exhibiting heterogeneous nutritional profiles and an extraordinary ability to survive in a wide range of natural and man-associated ecosystems, including cold habitats. Cold-adapted yeasts inhabit numerous low-temperature environments where they are subjected to seasonal or permanent cold conditions. Hence, they have evolved a number of adaptation strategies with regard to growth and reproduction, metabolic activities, survival and protection. Due to their distinctive ability to thrive successfully at low and even subzero temperatures, cold-adapted yeasts are increasingly attracting attention in basic science and industry for their enormous biotechnological potential.

This book presents our current understanding of the diversity and ecology of cold-adapted yeasts in worldwide cold ecosystems, their adaptation strategies, and their biotechnological significance. Special emphasis is placed on the exploitation of cold-adapted yeasts as a source of cold-active enzymes and biopolymers, as well as their benefits for food microbiology, bioremediation and biocontrol. Further, aspects of food biodeterioration are considered.

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