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MOLECULAR BIOLOGY AND BIOTECHNOLOGY OF EXTREMOPHILES



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Book Condition: New. Publisher/Verlag: Springer Netherlands | It is now well recognised that many environments considered by man to be extreme are colonised by micro-organisms which are specifically adapted to these ecological niches. These organisms not only survive but actively grow under such conditions. A diverse range of bacteria, cyanobacteria, algae and yeasts has now been isolated from these habitats which are extreme in terms of temperature, pH, salinity and pressure as well as species which are resistant to radiation and toxic chemicals. Whilst originally considered to be mere 'scientific curiosities', it is now generally accepted that many have considerable biotechnological and commercial significance. Recently the term 'extremophile' has been used to describe these organisms. Over the past twenty years extensive studies of the ecology, physiology, taxonomy and molecular biology of these micro-organisms have been undertaken. These have resulted in a complete reassessment of our concept of microbial evolution. The identification of the Archaeobacteria as the third kingdom of living organisms has given considerable impetus to extremophile research and is presenting many new challenges. | 1 Biochemistry and molecular biology of the extremely thermophilic archaeobacteria.- 1.1 Introduction.- 1.2 Archaeobacterial phylogeny.- 1.3 Ecology of the thermophilic Archaea.- 1.3.1 Morphology of the Archaea.- 1.3.2 Physiology and biochemistry of the Archaea.- 1.3.3 Enzymes.- 1.3.4 Structural macromolecules.- 1.3.5 Lipids and lipid biosynthesis.- 1.3.6 Molecular genetics of the extremely thermophilic Archaea.- References.- 2 The molecular genetics and biotechnological application of enzymes from extremely thermophilic eubacteria.- 2.1 Introduction.- 2.2 Aerobic eubacteria.- 2.2.1 The molecular biology and genetics of Thermus.- 2.2.2 Thermus aquaticus DNA polymerase.- 2.2.3 Thermus aquaticus restriction-modification system.- 2.2.4 Expression of other genes from Thermus genomic libraries.- 2.2.5 Proteinases from Thermus spp.- 2.2.6 Genetic transfer and plasmids in Thermus.- 2.2.7 A repetitive sequence in Thermus thermophilus.- 2.2.8 Promoter regions and other control sequences in Thermus.- 2.2.9 Genes and...



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