



Environmental Stressors and Gene Responses: 1 (Cell and Molecular Response to Stress)

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Cell and Molecular Responses to Stress is a new multi-volume book series from Elsevier Science that focuses on how organisms respond at a molecular level to environmental stresses imposed upon them. All organisms deal with variations in multiple environmental factors including temperature, oxygen, salinity, and water availability. Many show amazing tolerances to extreme stress with remarkable biochemical adaptations that allow life to persist under very difficult circumstances.

This series explores the molecular mechanisms by which cells and organisms respond to stress, focusing on the variations in metabolic response that allow some cells and organisms to deal with extreme stress, others to endure stress within strict limits, and others to have a very low tolerance for changes in environmental parameters.

Articles from within the series highlight the elastic limits of molecular responses in Nature, with examples drawn from animal, plant and bacteria systems.

Volume 1, begins by considering some of the roles of environmental stress in determining the geographic distribution of animals and in promoting species divergence and then explores gene expression and metabolic responses to environmental stress with examples of adaptation to high and low temperature, osmotic, anoxia/ischemia, desiccation, high pressure and heavy metal stresses.

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