



## Stress Response: Methods and Protocols

By -

Humana Press. Hardcover. Book Condition: New. Hardcover. 488 pages. Dimensions: 9.3in. x 6.3in. x 1.4in. Mammalian cells have evolved a complex multicomponent machinery that enables them to sense and respond to a wide variety of potentially toxic agents present in their environment. These stress responses are often associated with an increased cellular capacity to tolerate normally lethal levels of an insult. The realization that the mammalian stress response may be intimately linked with many human diseases, including rheumatoid arthritis, ischemia, fever, infection, and cancer, has led to an explosion of interest in this research area. Stress Response: Methods and Protocols brings together a diverse array of practical methodologies that may be employed to address various aspects of the response of mammalian cells to environmental stress. The protocols are carefully described by authors who have both devised and successfully employed them, and they represent a mixture not only of well-established techniques, but also new technologies at the leading edge of research. The areas covered include the detection and assay of stress-induced damage, the activation of signal transduction pathways, stress-inducible gene expression, and stress protein function. Although no volume of this size can be comprehensive and the topics covered reflect...



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