



Gadd45 Stress Sensor Genes (Hardback)

By -

Springer-Verlag New York Inc., United States, 2013. Hardback. Condition: New. 2013 ed.. Language: English . Brand New Book. Emerging evidence indicates that the Gadd45 family of genes play a unique and critical role as sensors of stress, including genotoxic, physiological and oncogenic stress. The stress response Gadd45 family of genes (Gadd45a, Gadd45b Gadd45g), discovered by Dr. Liebermann and other researchers, encode for small (18 kd) nuclear/cytoplasmic proteins). These genes are rapidly induced by a wide variety of endogenous and exogenous stress stimuli. In spite of marked similarities, Gadd45 genes are regulated differently exhibit functional diversity. Gadd45 are implicated in cell cycle arrest, DNA demethylation repair, apoptosis, cell survival, genomic stability, inflammation, in response to physiological and oncogenic stress. Functions of Gadd45 genes are mediated by protein-protein interactions that modulate structure/function of other cellular proteins implicated in cell cycle regulation and the response of cells to stress; these interactions vary depending upon the biological setting including cell type, developmental stage and stress/stimulus. Protein partners include cdc2/cyclinB1, p21, the p38/JNK stress induced kinase pathways, and PCNA/histones. The purpose of this book is to provide a comprehensive picture of the unique global role Gadd45 genes play as stress sensors the molecular pathways involved.



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