

Stress and Environmental Regulation of Gene Expression and Adaptation in Bacteria

Edited by **Frans J. de Bruijn**

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Stress and Environmental Regulation of Gene Expression and Adaptation in Bacteria is a comprehensive two-volume work bringing together both review and original research articles on key topics in stress and environmental control of gene expression in bacteria.

Volume One contains key overview chapters, as well as content on one/two/three component regulatory systems and stress responses, sigma factors and stress responses, small non-coding RNAs and stress responses, toxin-antitoxin systems and stress responses, stringent response to stress, responses to UV irradiation, SOS and double stranded systems repair systems and stress, adaptation to both oxidative and osmotic stress, and desiccation tolerance and drought stress.

Volume Two covers heat shock responses, chaperonins and stress, cold shock responses, adaptation to acid stress, nitrosative stress, and envelope stress, as well as iron homeostasis, metal resistance, quorum sensing, chemotaxis and biofilm formation, and viable but not culturable (VBNC) cells.

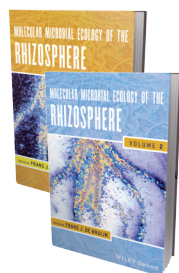
Covering the full breadth of current stress and environmental control of gene expression studies and expanding it towards future advances in the field, these two volumes are a one-stop reference for (non) medical molecular geneticists interested in gene regulation under stress.

About the Editor: **Frans J. de Bruijn** received his Ph.D. (Cellular and Developmental Biology; Microbial Genetics) from Harvard University in 1983. His resume reflects an array of experiences as a teacher, researcher, board member, and he is currently a Director of Research at the Laboratory for Plant-Microbe Interactions in Toulouse, France.

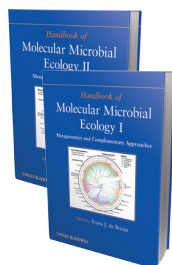
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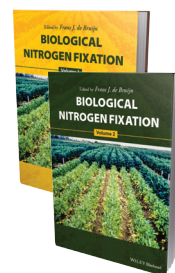
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