



## Ecological Biomarkers: Indicators of Ecotoxicological Effects

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Does a change, which affects a few biological macro-molecules, some cells, or a few individuals within a population, have any ecological significance that would allow the prediction of deleterious effects at higher levels of biological organization, namely the population, community, and ultimately the ecosystem? With contributions from experts in the field, **Ecological Biomarkers: Indicators of Ecotoxicological Effects** explores how biomarkers can be used to predict effects farther down the chain. It presents a synthesis of the state of the art in the methodology of biomarkers and its contribution to ecological risk assessment.

This book describes the core biomarkers currently used in environmental research concerned with biological monitoring, biomarkers which correspond to the defences developed by living organisms in response to contaminants in their environment, and biomarkers that reveal biological damage resulting from contaminant stressors. It examines the efficacy of lysosomal biomarkers, immunotoxicity effects, behavioral disturbances, energy metabolism impairments, endocrine disruption measures, and genotoxicity as all indicative of probable toxic effects at higher biological levels.

It is time to revisit the biological responses most ecologically relevant in the diagnosis of the health status of an aquatic environment well before it becomes unmanageable. Biomarkers provide a real possibility of delivering an easily measured marker at a simple level of biological organization that is predictably linked to a potentially ecologically significant effect at higher levels of biological organization. The text explores the latest knowledge and thinking on how to use biomarkers as tools for the assessment of environmental health and management.

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