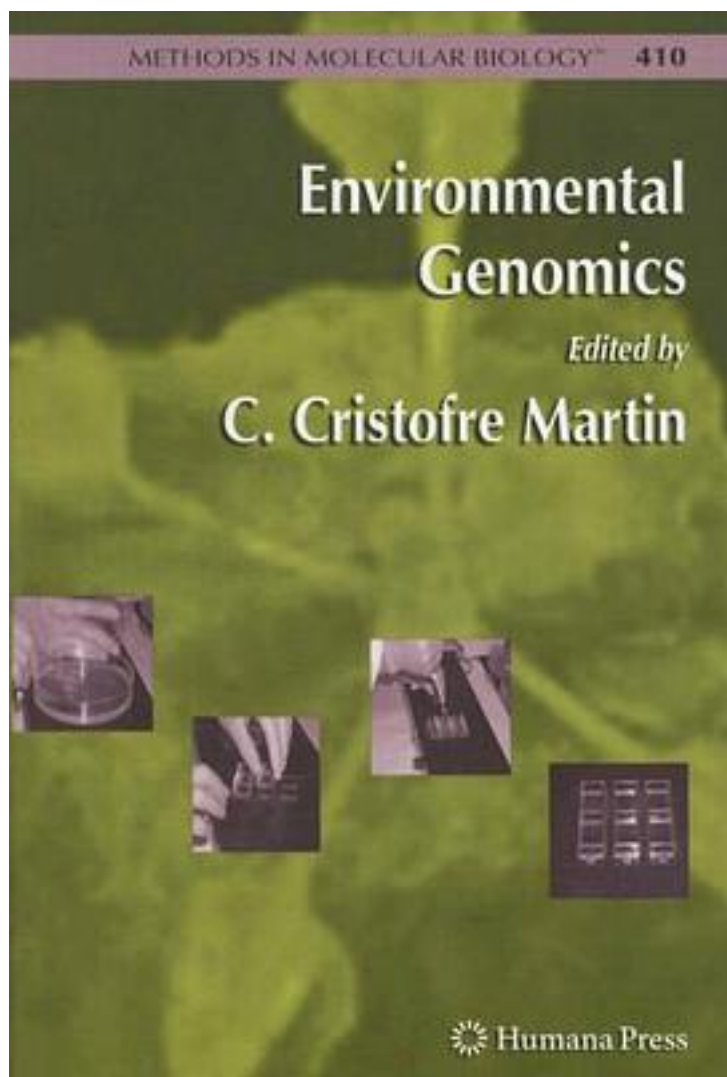


Environmental Genomics



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Environmental genomics seeks to predict how an organism or organisms will respond, at the genetic level, to changes in their external environment. These genome responses are diverse and, as a result, environmental genomics must integrate molecular biology, physiology, toxicology, ecology, systems biology, epidemiology and population genetics into an interdisciplinary research program. "Environmental Genomics" serves as a manual for an environmental scientist who wishes to embrace genomics in an effort to answer environmental questions. The volume is divided into the sections: gene expression profiling, whole genome and chromosome mutation detection, and methods to assay genome diversity and polymorphisms within a particular environment. The studies presented will reduce the uncertainties associated with environmental risk assessment and provide a systematic framework for determining environmental impact and ensuring human health and the sustainability of natural populations. "Environmental Genomics" should aid researchers looking to reduce the uncertainties associated with environmental risk assessment and provide a systematic framework for determining environmental impact and ensuring human health and the sustainability of natural populations.

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