



# Genomics and Environmental Regulation: Science, Ethics, and Law

Gary E. Marchant, Richard R. Sharp, Jamie A. Grodsky

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To reduce the deleterious effects of environmental contamination, governments across the world have enacted regulations broadly conceived for entire populations. Information arising out of the Human Genome Project and other cutting-edge genetic research is shifting the policymaking process. This fascinating volume draws on experts from academia, government, industry, and nongovernmental organizations to examine the science of genomic research as applied to environmental policy.

The first section explores environmental policy applications, including subpopulation genetic profiling, industrial regulations, and standardizing governmental evaluation of genomic data. The second section assesses from multiple angles the legal framework involved in applying genomics to environmental regulation. In the third section, the contributors review closely the implications of genomic research for occupational health, from disease prevention and genetic susceptibility to toxicants, to workers' rights and potential employment discrimination. A fourth section explores the bioethical and philosophical complications of bringing genetic data and research into nonclinical regulatory frameworks.

Genomics and Environmental Regulation points to ways in which information on toxicology and genetics can be used to craft more precise and efficient regulations.



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