



## Designer biology : the ethics of intensively engineering biological and ecological systems /

Basl, John,  
 editor. lit  
 Sandler, Ronald L.,  
 editor. lit

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Aspectos éticos Aspectos morales

Monografía

Advances in our scientific understanding and technological power in recent decades have dramatically amplified our capacity to intentionally manipulate complex ecological and biological systems. An implication of this is that biological and ecological problems are increasingly understood and approached from an engineering perspective. In environmental contexts, this is exemplified in the pursuits of geoengineering, designer ecosystems, and conservation cloning. In human health contexts, it is exemplified in the development of synthetic biology, bionanotechnology, and human enhancement technologies. Designer Biology: The Ethics of Intensively Engineering Biological and Ecological Systems consists of thirteen chapters (twelve of them original to the collection) that address the ethical issues raised by technological intervention and design across a broad range of biological and ecological systems. Among the technologies addressed are geoengineering, human enhancement, sex selection, genetic modification, and synthetic biology. This collection advances and enriches our understanding of the ethical issues raised by these technologies and identifies general lessons about the ethics of engineering complex biological and ecological systems that can be applied as new technologies and practices emerge. The insights that emerge will be especially valuable to students and scholars of environmental ethics, bioethics, or technology ethics. (Fuente: Editor)

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**Contenido:** I. Engineering humans -- Sex selection and the value-ladenness of the procreative liberty framework / Inmaculada de Melo Martin -- The ethics of embryo selection / Valentina Urbanek -- Assessing efficacy of "neuroenhancing" drugs : normative problems in empirical controversies / David Frank -- Engineering for virtue? : toward holistic moral enhancement / William Kabasenche -- Radical enhancement and what's wrong with it / Nicholas Agar -- Human engineering and climate change / S. Matthew Liao, Anders Sandberg, and Rebecca Roache -- II. Engineering the environment -- The human influence : moral responsibility for novel ecosystems / Allen Thompson and Stephen Jackson -- Why scientists should get out of nature conservation / Don Meier -- What it takes to justify geoengineering the climate / Nicole Hassoun -- Remediation vs. steering : an act-description approach to approving and funding geoengineering research / Benjamin Hale -- III. Engineering life -- Sensitivity enhancement : the ethics of testing cognitive enhancements on non-human research subjects / John Basl -- The capacities, interests, and organisation of artifactual organisms / Sune Holm -- How to evolve a good of your own : the biological interests of instant organisms / Scott Simmons -- Conclusion: Lessons for the future

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