Wicked Problems, Wolfpack Solutions • Global Change

Living in a Genetically Engineered World

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ABSTRACT

Americans have been eating genetically engineered foods for 25 years, but that's just the beginning. A researcher who genetically engineered two babies is now in jail, and questions about when it is ethical to engineer people are being debated at many levels. The first attempts to resurrect extinct species are ongoing, while other projects are aimed at causing extinction of the mosquito that transmits malaria. NC State University researchers are right in the middle of the technical advances being made, and our Genetic Engineering and Society Center brings scholars together to examine how we, as a society, could conduct genetic engineering in a responsible manner. Fred Gould, Ph.D. challenges students to think more deeply about genetic engineering and discusses opportunities for students at NC State to delve into the social and biological aspects of this methodology.

Fred Gould was raised in New York City, but worked on a dairy farm in Rhode Island during the summers. A very winding road took him from rejecting medical school to driving a taxi cab, and then finally, following the rigors of graduate school, taking a job at NC State. He is now co-director of the Genetic Engineering and Society Center and director of our interdisciplinary graduate training program on Agricultural Biotechnology at NC State. He conducts research on the application of evolutionary biology and population genetics to enable sustainable use of insect resistant crops and genetically engineered agricultural pests and on strategies for development and use of engineered mosquitoes to decrease human disease. In 2011, Fred Gould was elected to the U.S. National Academy of Sciences (NAS).

Visit the web version of this article to view interactive content.

Living in a Genetically Engineered World (Fred Gould)

This video was originally produced for an audience of entering first-year and transfer students at NC State University as a part of an interdisciplinary experience. It is available for noncommercial reuse under a Creative Commons Attribution Noncommercial 4.0 License, <https://creativecommons.org/licenses/by-nc/4.0/>.

TRANSCRIPT

SUPPLEMENTAL MATERIALS

1. WATCH the movie [Gattaca](#). Available through various streaming services including Amazon Prime Video, YouTube, and Hulu, and also available to [borrow from NC State University Libraries](#).