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THE ETHICS OF GENETIC ENGINEERING

Just as the twentieth century was a golden age of computing, the twenty-first century is the DNA age. The silicon age brought about dramatic changes in how we as a species work, think, communicate, and play. The innovations of the computer revolution helped bring about the current genetic revolution, which promises to do for life what computing did for information. We are on the verge of being able to transform, manipulate, and create organisms for any number of productive purposes. From medicine, to agriculture, to construction and even computing, we are within reach of an age when manipulating the genetic codes of various organisms, or engineering entirely new organisms, promises to alter the way we relate to the natural world.

Biotechnology, specifically genetic engineering, is already a beneficial resource, employed in medicine, manufacturing, and agriculture. We have begun reaping the practical rewards of genetic engineering such as new medical therapies and increased crop yields and so far only a few instances of measurable harm have resulted. Genetic engineering has the potential to improve our health and well-being dramatically, revolutionize our manner of living, help us to conserve limited resources, and produce new wealth. Provided that it is appropriately regulated, bearing in mind ethical concerns relating to dignity, harmful consequences, and justice, its potential benefits outweigh its harms. There is certainly no reason to reject it outright as "unnatural." Biotechnology should be understood as an extension of already accepted and well-established techniques, such as directed breeding, combined with sophisticated understanding of evolution and genetic technologies.

As with any revolutionary technology, anxieties, fears, and moral objections to the promise of genetic engineering abound. Some are well-grounded and suggest

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