

## Synthetic Biology The Technoscience And Its Societal Consequences

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### Synthetic Biology The Technoscience And

Synthetic biology is becoming one of the most dynamic new fields of biology, with the potential to revolutionize the way we do biotechnology today. By applying the toolbox of engineering disciplines to biology, a whole set of potential applications become possible ranging very widely across.

Synthetic Biology - the technoscience and its societal consequences | Markus Schmidt | Springer.

### Synthetic Biology - the technoscience and its societal ...

Some of the potential benefits of synthetic biology, such as the development of low-cost drugs or the production of chemicals and energy by engineered bacteria are enormous. There are, however, also potential and perceived risks due to deliberate or accidental damage.

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Synthetic Biology: The Technoscience of Artificial Life. John Sullins. ABSTRACT:This paper uses the theory of technoscience to shed light on the current criticisms against the emerging science of Artificial Life. We see that the science of Artificial Life is criticized for the synthetic nature of its research and its over reliance on computer simulations which is seen to be contrary to the traditional goals and methods of science.

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T1 - Synthetic biology: the technoscience and its societal consequences. A2 - Schmidt, M. A2 - Kelle, Alexander. A2 - Ganguli-Mitra, A. A2 - De Vriend, H. PY - 2009. Y1 - 2009. N2 - Synthetic biology is becoming one of the most dynamic new fields of biology, with the potential to revolutionize the way we do biotechnology today.

## **Synthetic biology: the technoscience and its societal ...**

Recent years have witnessed multiple attempts to tell the story of contemporary synthetic biology and its origins. 1 Located as it is at the intersection of science, engineering, and technology, synthetic biology has attracted attention from scholars in the philosophy of technology as much as from historians and sociologists of the life sciences.

## **Synthetic biology between technoscience and thing ...**

Synthetic biology is becoming one of the most dynamic new fields of biology, with the potential to revolutionize the way we do biotechnology today. By applying the toolbox of engineering disciplines to biology, a whole set of potential applications become possible ranging very widely across scientific and engineering disciplines.

## **Synthetic Biology | SpringerLink**

Synthetic biology, in particular, represents a major transition for the life sciences by aiming not only to understand but also to control the processes taking place in, or in connection to, a living cell.

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## **Synthetic biology : the technoscience and its societal ...**

Synthetic biology is becoming one of the most dynamic new fields of biology, with the potential to revolutionize the way we do biotechnology today. Also, ethical issues of synthetic biology just Read more...

## **Synthetic biology : the technoscience and its societal ...**

By contrast, based on an investigation of the field's scientific and technological character, this book focuses on new functionalities provided by synthetic biology and explores the associated opportunities and risks.

## **Synthetic Biology - Character and Impact | Bernd M. Giese ...**

Synthetic biology is the design and construction of new biological systems not found in nature.

## **A priority paper for the societal and ethical aspects of ...**

To address the question of what synthetic biology has to do with biology, this article illustrates some of the ways in which the entanglement of synthetic biology as the epitome of technoscience and synthetic biology as an alternative, artificial biology plays out in three different examples of synthetic biology—one current and two historical.

## **What Does Synthetic Biology Have to Do with Biology ...**

Synthetic biology is a new area of biological research that combines science and engineering. It encompasses a variety of different approaches, methodologies, and disciplines with a variety of definitions.

## **Synthetic biology**

In this chapter, we analyze the current production of bioartefacts derived from synthetic biology, and their ethical and societal consequences. In addition to the socio-economic problems and

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growing technological gap between North and South, synthetic biology raises new environmental and biological risks, triggering a global challenge.

### **The Promises of Synthetic Biology: New Bioartefacts and ...**

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