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The emerging field of synthetic biology employs biotechnological approaches to recreate and enhance basic biological structures, intracellular processes and whole organisms. The book addresses a broad range of topics, including redesigning complex metabolic pathways, DNA/RNA and protein engineering, as well as novel synthetic biomaterials.

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It further discusses how synthetic biology gathers the information about various systems, in order to either devise an entirely new system, or, to modulate existing systems. The book also tackles the concept of modularity, where biological systems are visualized in terms of their parts.

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Synthetic biology is an emerging technology that aims to design and engineer DNA and molecular structures of single cell organisms. Existing organisms can be altered, novel organisms can be created. In doing so, synthetic biology makes use of specific technoscientific understandings of living beings. This volume sets out to explore and assess synthetic biology and its notions of life from philosophical, ethical, social, and legal perspectives.

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biology.

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Synthetic biology also incorporates a specific technoscientific understanding of its research agenda and its research objects that has philosophical and ethical implications. This edited volume sets out to explore and evaluate these synthetic biology worldviews and it proposes appropriate governance measures.

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Visions of a synthetic engineering-based approach to biology have been a prominent and recurring theme in the history of biology in the twentieth century. Several major moments in this earlier history of attempts to redesign life are discussed: the turn-of-the-century prominence of experimental evolution and the coining of “synthetic biology” in 1912; early synthetic approaches to experimentally investigating the historical origin of life on the early earth; the goal of developing a ...

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This book addresses the design of emerging conceptual tools, technologies and systems including novel synthetic parts, devices,

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circuits, oscillators, biological gates, and small regulatory RNAs (riboregulators and riboswitches), which serve as versatile control elements for regulating gene expression. Synthetic biology, a rapidly growing field that involves the application of engineering principles in biology, is now being used to develop novel systems for a wide range of applications ...

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Introduction This volume highlights recent breakthroughs in the interdisciplinary areas of synthetic biology, metabolic engineering and bioprocess engineering for the production of green chemicals. It also presents practical experimental and computational tools for the design, construction and manipulation of cyanobacteria cell factories.

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Synthetic biology is a techno-scientific discipline with the declared goal of rationally engineering biological systems. Despite its considerable promise - regarding applications in medicine, energy, environmental remediation, and agriculture - synthetic biology raises numerous ethical issues pertaining to intellectual property, the creation of novel life forms, biosafety, and biosecurity.

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Synthetic biology started with an emphasis in experimental molecular biology through the demonstration that characterized DNA sequences which can be taken out of their native context and re-implemented in novel ways. The scope of synthetic biology research has rapidly increased with the improvement and development of tools for direct DNA ...

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Synthetic biology is a biological study, in scientific and engineering fields, depending on the construction of biological systems. A living organism is a system containing multilayers such as cells, biomacromolecules (proteins, RNAs, and DNAs), and monomers (amino acids and nucleotides).

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Correction to: Synthetic biology, combinatorial biosynthesis, and chemo-enzymatic synthesis of isoprenoids

~~Correction to: Synthetic biology, combinatorial ...~~

Synthetic biology is a rapidly evolving field which potentially can change how we live in and understand the world. Given its potential impact it is important to inform and involve the public so that...

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