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It further discusses how
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gathers the information
about various systems,
in order to either devise
an entirely new system,
or, to modulate existing

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single cell organisms.

Existing organisms can be altered, novel

organisms can be

created. In doing so,

synthetic biology makes use of specific

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ethical implications.

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out to explore and
evaluate these synthetic
biology worldviews and
it proposes appropriate
governance measures.

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Visions of a synthetic
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have been a prominent and recurring theme in the history of biology in the twentieth century.

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used to develop novel
systems for a wide
range of applications ...

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and manipulation of
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techno-scientific
discipline with the
declared goal of
rationally engineering

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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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biomacromolecules
(proteins, RNAs, and
DNAs), and monomers
(amino acids and
nucleotides).

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biology, combinatorial
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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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