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questions in the field with modular, hands-on investigations that anyone can learn. What is synthetic biology?

There are many definitions, applications, and interested stakeholders. For a quick introduction, watch this short video that was produced for “ Building With Biology, ” a partnership funded by

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the National Science  
Foundation to  
BioBuilder and  
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BioBuilder.org provides  
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underpinnings of  
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find here. Feel free to look around. All the content is modular and so can be looked at in any order and at any time. Once you 've tried the BioBuilder activities, please share your data with the community.

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foundational chapters that cover what synthetic biology is, biodesign, DNA engineering, and importantly, bioethics.

As one Amazon reviewer summarizes, "Rather than providing a biased view, the authors provide a much needed balanced view by going right to the source of some of the famous original debates (and the consequences)

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of the ethical issues.

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The need for STEM education in today ' s educational settings is as great as the need to support its ongoing growth. To that end, BioBuilder takes a comprehensive approach to the emerging field of synthetic biology,

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providing exceptional programming available for students and educators alike. For students, there is the chance to integrate biology and engineering through practical, hands-on lessons and club activities.

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Developed at MIT in collaboration with award-winning high school teachers, BioBuilder teaches the foundational ideas of the emerging synthetic biology field, as well as key aspects of biological engineering that researchers are exploring in labs throughout the world.

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field of synthetic biology  
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Natalie Kuldell ...

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Synthetic  
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Synthetic biologists use many of the same tools that genetic engineers do, as we will discuss in more detail later, but synthetic biology and genetic engineering differ in the scale at which they aim to make these changes.

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Genetic engineers are usually introducing one or two small changes to investigate a specific system, whereas synthetic biologists aim to design new genomes and redesign existing genomes at a grand scale.

1. Fundamentals of  
Synthetic Biology -  
BioBuilder [Book]  
BioBuilder for Teachers

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The comprehensive curricular materials offered here present exciting possibilities in teaching Synthetic Biology, including the chance to engage your students as problem solvers and explorers in this emerging field. You ' ll find tips and practical advice for getting started, as well as assessment tools and

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## Synthetic For Teachers - BioBuilder In The

Synthetic biologists apply engineering principles and extend genetic engineering techniques to construct new genetic systems. The synthetic biology approach provides teachers and students with a means to learn molecular biology,

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genetic engineering and microbiology methods in an engineering setting. The students learn while designing, or testing designs of, engineered biological systems.

BioBuilding: Synthetic Biology for Teachers - OpenWetWare  
An innovative, STEM education nonprofit created by an award-

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winning team at MIT, BioBuilder offers a wide range of open source, free curricula to provide hands-on experiences that foster exploration, innovation, and interest in the emerging area of synthetic biology. For students, learning is taken to a new level through hands-on classroom projects, afterschool clubs, and summer

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internships that delve into problem-solving work in the areas of biology, health, medicine, and the environment.

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synthetic biology field, as well as key aspects of biological engineering that researchers are exploring in labs throughout the world.

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Kuldell, PhD ...

Based on the BioBuilder curriculum, this valuable book provides open-access, modular, hands-

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on lessons in synthetic biology for secondary and post-secondary classrooms and laboratories. It also serves as an introduction to the field for science and engineering enthusiasts.

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As a 2015 Synthetic  
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(Leadership Excellence  
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fellow, Karen is  
recognized as an

emerging leader in  
synthetic biology.

Kathryn M. Hart is a  
research instructor in the  
Department of  
Biochemistry and  
Molecular Biophysics at  
Washington University  
in Saint Louis and a  
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their science skills AND learn to apply the engineering-design process in the context of living systems! This textbook is clearly organized, concisely written, and is well ...

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