

Synthetic Biology Teaching resources, Communities, References, Links

Teaching resources – College level

<http://andersonlab.qb3.berkeley.edu/andersonTraining.html>

Videos, tutorials, quizzes, and other teaching/learning resources.

http://www.bio.davidson.edu/projects/GCAT/Synthetic/What_Is_SynBio.html

Lectures, videos, articles, and other teaching resources.

<http://www.weizmann.ac.il/mcb/UriAlon/>

Introduction to Systems Biology - Design Principles of Biological Circuits

Teaching resources – Pre-college level

www.biobuilder.org

Activities, lessons, animations, and teacher resources

<http://teach.genetics.utah.edu/>

Resources and lesson plans that bring bioscience, genetics and health alive.

<http://openwetware.org/wiki/SEED>

Molecular biology/synthetic biology curriculum & labs for high school students.

Articles/Readings

<http://www.bio.davidson.edu/courses/Synthetic/read.html>

Synthetic biology readings gathered by Malcolm Campbell, Davidson College

http://blog.wired.com/wiredscience/synthetic_biology/index.html

Wired: Synthetic Biology reports-A collection of popular articles on synthetic biology published by Wired magazine.

<http://www.nature.com/news/2010/100120/full/463288a.html>

Five Hard Truths for Synthetic Biology, 20 January 2010 | Nature 463

http://www.newyorker.com/reporting/2009/09/28/090928fa_fact_specter

The Future of Synthetic Biology, 09/28/2009, New Yorker Magazine

Community/Resources

http://openwetware.org/wiki/Main_Page

OpenWetWare Wiki site to promote the sharing of information among researchers working in biology & biological engineering.

<http://bbf.openwetware.org/>

BioBricks Foundation - A not-for-profit organization founded by engineers and scientists from MIT, Harvard, and UCSF. BBF encourages the development and responsible use of technologies based on BioBrick™ standard DNA parts.

http://igem.org/Main_Page

iGEM-International Genetically Engineered Machines Competition, the undergraduate Synthetic Biology competition.

<http://diybio.org/>

DIYBIO-Community for citizen biology.

<http://www.biofab.org/>

Biofab-SynBERC, LBNL, Stanford, UC Berkeley. BIOFAB was founded in December 2009 as the world's first biological design-build facility.

<http://www.synbiostandards.co.uk/>

Synthetic Biology Standards Network-An interdisciplinary network for UK academics working in synthetic biology, primarily concerned with issues relating to standards and characterization.

Careers and Degrees in Synthetic Biology

http://scienceblogs.com/oscillator/2010/05/how_to_get_a_phd_in_synthetic.php

“How to Get a Ph.D. in Synthetic Biology,” Christina Agapakis

synberc.org

SynBERC’s Quick Guide to Grad School for Young Synthetic Biologists

References & Links

www.syntheticbiology.org

Hosted by OpenWetWare, a good starting point.

synbio.org.uk

Synthetic Biology resources from Cambridge University. <http://www.synbio.org.uk/>

<http://www3.imperial.ac.uk/syntheticbiology>

Centre for Synthetic Biology-Imperial College, London.

<http://rsif.royalsocietypublishing.org/site/misc/syntheticbiology.xhtml?portal>

Royal Society Gateway to synthetic biology resources. Articles, resources, links to information about the field and community of synthetic biology.

Public Policy/Ethics/Aesthetics

<http://www.thehastingscenter.org/>

The Hastings Center-bioethics think tank researching philosophy and ethics of synthetic biology.

<http://www.synbioproject.org/>

Synthetic Biology Project-Woodrow Wilson International Center for Scholars. The Project aims to foster informed public and policy discourse concerning the advancement of synthetic biology.

<http://www.jcvi.org/cms/research/projects/syngen-options/overview/>

J.Craig Venter Institute - Synthetic Genomics: Options for Governance, research funded by the Sloan Foundation.

<http://www.syntheticaesthetics.org/>

Synthetic Aesthetics, University of Edinburgh and Stanford. Aims to bring together creative practitioners and the synthetic biology community to help with the work of designing, understanding and building the living world.