



Project no. 043338

Project acronym: EMERGENCE

Project title: A foundation for Synthetic Biology in Europe

Instrument: NEST Pathfinder

Thematic Priority: Synthetic Biology

**Deliverable 2.5: Educational resource at IET available and continuously updated**

Due date of deliverable: month 12

Actual submission date: month 12, continuously updated

Start date of project: 1.12.2006

Duration: 36 months

Organisation name of lead contractor for this deliverable

<b>Project co-funded by the European Commission within the Sixth Framework Programme (2002-2006)</b>		
<b>Dissemination Level</b>		
<b>PU</b>	Public	x
<b>PP</b>	Restricted to other programme participants (including the Commission Services)	
<b>RE</b>	Restricted to a group specified by the consortium (including the Commission Services)	
<b>CO</b>	Confidential, only for members of the consortium (including the Commission Services)	

Please find attached a few screenshots from the website at [www.synbio.org.uk](http://www.synbio.org.uk).



▶ Synthetic Biology news

▶ Synthetic Biology Labs

▶ Jobs

▶ EU Emergence

▶ Royal Society Gateway

▶ SynBioStandards UK

▶ RoSBNetwork UK

▶ Synthetic Biology Project

▶ Community resources

▶ Developing world

▶ Education

▶ IET.tv video channel

▶ IET Synthetic Biology

▶ SynBio Journals

▶ Scientific Journals



## Cambridge website for Synthetic Biology Resources

Compiled by Jim Haseloff at the University of Cambridge

This site contains details of recent papers and activity in Synthetic Biology, with particular emphasis on: (i) development of standards in biology and DNA bioBricks, (ii) microbial and (iii) plant systems, (iv) hardware for scientific computing and instrumentation, (v) tools for scientific productivity and (vi) collected miscellany.



The site also contains details of Synthetic Biology research and teaching at the University of Cambridge, including the annual iGEM team run by [Jim Ajjoka](#), [Jim Haseloff](#) and [Gos Micklem](#) in Cambridge.

# Synthetic Aesthetics

Synthetic Aesthetics is a new project between Stanford and Edinburgh that brings together synthetic biology and design in the interest of encouraging new kinds of collaborations to emerge. For two weeks,

### ▶ EuroSYNBIO Projects

BBSRC, EPSRC fund £1.5M for synthetic biology projects under EuroSYNBIO Programme 19. May 2010 08:09 Four new projects, announced today, will develop biological methods that offer a new approach to antibiotic production, power generation...

### ▶ Bio-Fab Ready to Distribute Building Blocks of Synthetic Life

Bio-Fab Ready to Distribute Building Blocks of Synthetic Life May 2nd, 2010 by Christopher de la Torre The first biological design-build facility in the world announced that it will soon be able to synthesize chemicals....

### ▶ National Academies SynBio grants

National Academies' Grants to Spur Synthetic Biology From GenomeWeb (<http://www.genomeweb.com/n-academies-grants-spur-synthetic-biology>) NEW YORK (GenomeWeb News) – The National Academies' Keck



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LATEST:

[Synthetics Aesthetics call](#)[Synthetic Biology](#)[Synthetic Biology news](#)

## SYNTHETIC BIOLOGY NEWS

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Title and intro



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Results 1 - 25 of 76

1. **EuroSYNBIO Projects** NEW

□ BBSRC, EPSRC fund □ 1.5M for synthetic biology projects under EuroSYNBIO Programme 19. May 2010 08:09 Four new projects, announced today, will develop biological methods that offer a new approach to antibiotic production, power generation for extremely small mechanical components, new classes of medicines and innovative techniques to study cell biology. □ Teams...  
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**biofab**2. **Bio-Fab Ready to Distribute Building Blocks of Synthetic Life**

□ Bio-Fab Ready to Distribute Building Blocks of Synthetic Life May 2nd, 2010 by □ Christopher de la Torre □  
The first biological design-build facility in the world announced that it will soon be able to synthesize chemicals, fuels and new drugs by manipulating the elements necessary to make microbes. Initiated by a grant from the National Science Foundation (NSF)...  
| [Read more](#)

3. **National Academies SynBio grants**

□ National Academies' Grants to Spur Synthetic Biology □ From □ GenomeWeb (<http://www.genomeweb.com/national-academies-grants-spur-synthetic-biology>) □ NEW YORK (GenomeWeb News) – The National Academies' Keck Futures Initiative (NAFKI) has awarded a number of new grants to fund multidisciplinary research efforts aimed at promoting new uses for and advances in...  
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**COMMUNITY RESOURCES FOR SYNTHETIC BIOLOGY**

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**1. Royal Society SynBio Gateway**

<http://rsif.royalsocietypublishing.org/site/misc/syntheticbiology.xhtml>  
Gateway to Synthetic Biology resources at The Royal Society. The site includes access to free articles and resources, and links to information about the new field and community.

**2. Synthetic Biology Project**

<http://www.synbioproject.org/>  
The Synthetic Biology Project was established as an initiative of the Foresight & Governance Program of the Woodrow Wilson International Center for Scholars. The Project aims to foster informed public and policy discourse concerning the advancement...  
[| Read more](#)

**3. Wired: Synthetic Biology reports**

[http://blog.wired.com/wiredscience/synthetic\\_biology/index.html](http://blog.wired.com/wiredscience/synthetic_biology/index.html)  
A collection of popular articles on Synthetic Biology published by Wired magazine.

**4. Gene Designer software**

<https://www.dna20.com/index.php?pageID=220>

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[RVC's Institute for Synthetic Biology displays](#)

Synthetic Biology

Education

## EDUCATION IN SYNTHETIC BIOLOGY

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Results 1 - 11 of 11

**websnappr 2.0**

Thumbnail has been queued

Putting the "social" back into social bookmarking

[www.mister-wong.com](http://www.mister-wong.com)

1. **Plant Sciences teaching resources**

[http://en.wikibooks.org/wiki/Plant\\_Sciences](http://en.wikibooks.org/wiki/Plant_Sciences)

From Wikibooks, the open-content textbooks collection - a collection of plant sciences teaching materials

2. **RCA Design Lab**

<http://www.interaction.rca.ac.uk/index.html>

Royal College of Arts in London houses a group of keen designers who are exploring the wider and future implications of Synthetic Biology.

## SYN BIO NEWS

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## BIOBRICKS MENU

- ▶ Wetware news
- ▶ BioBrick resources
- ▶ DNA assembly software
- ▶ Gene synthesis
- ▶ Protocols

## SITE NEWS FEEDS

-  Synthetic Biology RSS
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-  Instrumentation RSS
-  Productivity RSS
-  Miscellany RSS
-  synbio.org.uk RSS

## CAMBRIDGE RESOURCES

- ▶ Haseloff lab

## LATEST:

[Synthetics Aesthetics call](#)

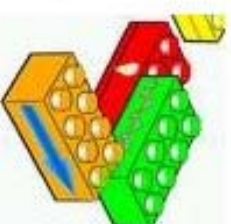


[BioBricks](#)



## BioBricks and the standardisation of biological components

The use of standardised components is found in all fields of engineering, where it allows the benefits of abstraction, decoupling and insulation from unnecessary detail in the design of complex systems. The ability to construct new DNA sequences has far outpaced our capacity to design the genetic circuits that these might encode. Synthetic Biology promises simplified design using modular standardised DNA components, or BioBricks.



### Bacterial rainbow



## WETWARE NEWS

#### ▶ Standard virtual biological parts

Standard virtual biological parts: A repository of modular modeling components for synthetic biology. Cooling MT, Rouilly V, Misirli G, Lawson J, Yu T, Hallinan J, Wipat A. [Bioinformatics. 2010]: Fabrication of synthetic biological...

#### ▶ BIOFAB announcement

Lab to be first 'open-source' for genetic parts With seed money from the National Science Foundation, bioengineers from Stanford and UC-Berkeley, are ramping up efforts to characterize thousands of molecular players and processes critical...

#### ▶ Superfolder GFP

Introduction Green Fluorescent Protein (GFP) offers efficient and convenient means of visualising the dynamic process of gene expression and of obtaining readout of the current state of complex gene regulatory networks – features