Resource Summary Report

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BioBricks Foundation

RRID:SCR_006779
Type: Tool

Proper Citation

BioBricks Foundation (RRID:SCR_006779)

Resource Information

URL: http://biobricks.org/

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Description: The BioBricks Foundation (BBF) is dedicated to advancing synthetic biology to benefit all people and the planet. To achieve this, we must make engineering biology easier, safer, equitable, and more open. We do this in the following ways: by ensuring that the fundamental building blocks of synthetic biology are freely available for open innovation; by creating community, common values and shared standards; and by promoting biotechnology for all constructive interests. We envision a world in which scientists and engineers work together using BioBric parts freely available standardized biological parts to create safe, ethical solutions to the problems facing humanity. We envision synthetic biology as a force for good in the world. We see a future in which architecture, medicine, environmental remediation, agriculture, and many other fields are using the technology of synthetic biology. Our supporters are many and include corporations, individuals, institutions, foundations, government, corporations, and others. Currently, the BBF''s key programs include: * BIOFAB * BioBrick Public Agreement * Technical Standards Framework * Conferences and Workshops * BBF Global Network * OpenWetWare

Abbreviations: BBF

Resource Type: institution

Resource Name: BioBricks Foundation

Resource ID: SCR_006779

Alternate IDs: grid.487833.3, nlx_19572

Alternate URLs: https://ror.org/03kqtp318

Record Creation Time: 20220129T080238+0000

Record Last Update: 20260905T132601+0000

Ratings and Alerts

No rating or validation information has been found for BioBricks Foundation.

No alerts have been found for BioBricks Foundation.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 36 mentions in open access literature.

Listed below are recent publications. The full list is available at Kravitz .

Indibi A, et al. (2025) Through the lens of bioenergy crops: advances, bottlenecks, and promises of plant engineering. The Plant journal : for cell and molecular biology, 123(2), e70294.

Gao Y, et al. (2024) BioBricks.ai: A Versioned Data Registry for Life Sciences Data Assets. ArXiv.

Baabu PRS, et al. (2022) End-to-end computational approach to the design of RNA biosensors for detecting miRNA biomarkers of cervical cancer. Synthetic and systems biotechnology, 7(2), 802.

Danchin A, et al. (2022) In vivo, in vitro and in silico: an open space for the development of microbe-based applications of synthetic biology. Microbial biotechnology, 15(1), 42.

Zhang G, et al. (2021) Highly Sensitive Whole-Cell Biosensor for Cadmium Detection Based on a Negative Feedback Circuit. Frontiers in bioengineering and biotechnology, 9, 799781.

Wan X, et al. (2020) Synthetic protein-binding DNA sponge as a tool to tune gene expression and mitigate protein toxicity. Nature communications, 11(1), 5961.

Gräwe A, et al. (2019) A paper-based, cell-free biosensor system for the detection of heavy metals and date rape drugs. PloS one, 14(3), e0210940.

Castillo-Hair SM, et al. (2019) Optogenetic control of Bacillus subtilis gene expression. Nature communications, 10(1), 3099.

Lopreside A, et al. (2019) Comprehensive Profiling of Diverse Genetic Reporters with Application to Whole-Cell and Cell-Free Biosensors. Analytical chemistry, 91(23), 15284.

de Lorenzo V, et al. (2018) Biological standards for the Knowledge-Based BioEconomy: What is at stake. New biotechnology, 40(Pt A), 170.

Borkowski O, et al. (2018) Cell-free prediction of protein expression costs for growing cells. Nature communications, 9(1), 1457.

Liu Q, et al. (2018) Orthogonality and Burdens of Heterologous AND Gate Gene Circuits in E. coli. ACS synthetic biology, 7(2), 553.

Laurie G, et al. (2017) Liminality and the Limits of Law in Health Research Regulation: What are we Missing in the Spaces in-Between? Medical law review, 25(1), 47.

Kildegaard KR, et al. (2017) Engineering of Yarrowia lipolytica for production of astaxanthin. Synthetic and systems biotechnology, 2(4), 287.

Pinto F, et al. (2015) Improving a Synechocystis-based photoautotrophic chassis through systematic genome mapping and validation of neutral sites. DNA research : an international journal for rapid publication of reports on genes and genomes, 22(6), 425.

Wang B, et al. (2015) Amplification of small molecule-inducible gene expression via tuning of intracellular receptor densities. Nucleic acids research, 43(3), 1955.

Rosales-Colunga LM, et al. (2014) Engineering Escherichia coli K12 MG1655 to use starch. Microbial cell factories, 13, 74.

Wang B, et al. (2014) Engineering modular and tunable genetic amplifiers for scaling transcriptional signals in cascaded gene networks. Nucleic acids research, 42(14), 9484.

Lee YY, et al. (2013) Systematic design methodology for robust genetic transistors based on I/O specifications via promoter-RBS libraries. BMC systems biology, 7, 109.

Zucca S, et al. (2013) A standard vector for the chromosomal integration and characterization of BioBrick™ parts in Escherichia coli. Journal of biological engineering, 7(1), 12.