Stanford



Drew Endy

Associate Professor of Bioengineering and Senior Fellow, by courtesy, at the Hoover Institution and at the Freeman Spogli Institute for International Studies

CONTACT INFORMATION

- **Alternate Contact**

  Lindsey Armeen - Executive Administrator

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Bio

BIO

Drew Endy is the Martin Family University Faculty Fellow in Undergraduate Education. He teaches Introduction to Bioengineering at Stanford. His lab undertakes foundational research in synthetic biology. His goals are civilization-scale flourishing and a renewal of liberal democracy. Prof. Endy helped launch new undergraduate majors in bioengineering at both MIT and Stanford and also the iGEM — a global genetic-engineering “Olympics” enabling thousands of students annually. His past students lead various companies. He is married to Dr. Christina Smolke, CEO of Antheia. Endy has served on the US National Science Advisory Board for Biosecurity (NSABB), the US NASEM Committee on Science Technology & Law (CSTL), the International Union for the Conservation of Nature’s (IUCN) Synthetic Biology Task Force, the World Health Organization’s (WHO) Advisory Committee on Variola Virus Research, the Pentagon’s Defense Innovation Board (briefly), the Defense Science Board's Task Force on Emerging Biotechnology & National Security, and the Department of Energy's Office of Science Advisory Committee (currently). In late 2025 he co-founded biotic.org. Esquire magazine named Drew one of the 75 most influential people of the 21st century.

ACADEMIC APPOINTMENTS

- Associate Professor, Bioengineering
- Hoover Senior Fellow (By courtesy), Hoover Institution
- Senior Fellow (By courtesy), Freeman Spogli Institute for International Studies
- Member, Bio-X

ADMINISTRATIVE APPOINTMENTS

- Director, Bio-Strategy & Leadership, Hoover Institution, (2024- present)
- Faculty Co-Director of Degree Programs, Hasso Plattner Institute of Design (aka, the d.school), (2022- present)
- Faculty Council, Stanford Emerging Technology Review, (2022- present)
- Member, Undergraduate Advisory Council (UGAC), (2022- present)
- Chair, Committee on Undergraduate Admissions & Financial Aid (C-UAFA), (2022-2025)
- Member, Committee on Undergraduate Admissions & Financial Aid (C-UAFA), (2021-2022)
- Member, University Committee on Health and Safety, (2018-2021)

HONORS AND AWARDS

- Martin Family University Faculty Fellow for Undergraduate Education, Stanford University (2022)
- Honorary Doctorate, Technische Universiteit Delft (TU Delft) (2017)
- Presidential Champion of Change, The White House (2013)
- Elected Fellow, American Institute for Medical and Biological Engineering (2021)
- Certificate of Appreciation, Synthetic Biology Study Chair, DARPA (2003)
- The Seymour Benzer Lectureship, US National Academy of Sciences (2013)
- CORES Champion, Stanford Data Science Initiative (2021)
- Most Influential People of the 21st Century, Esquire (2009)
- Kavli Fellow, US National Academies of Sciences (2012)
- Best Research Article for 2012, Journal of Biological Engineering (2012)
- Best Research Article for 2011, Journal of Biological Engineering (2011)
- Terman Fellow, Stanford University (2008)
- Best & Brightest, Esquire (2007)
- Cabot Career Development Award, MIT (2005)
- WIRED Rave Awards, WIRED (2005)
- Certificate of Service, DARPA ISAT (2004)
- Goodrich Prize, Thayer School, Dartmouth College (1998)
- Darling Fellowship, Thayer School, Dartmouth College (1994)
- Arthur Humphrey Teaching Award, Lehigh University (1993)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Director, The iGEM Foundation (2019 - 2026)
- President & Director, The BioBricks Foundation (2006 - present)
- Director, The BioBuilder Educational Foundation (2021 - present)
- Member, IUCN Taskforce on Synthetic Biology and Biodiversity Conservation, International Union for Conservation of Nature (2018 - 2021)
- Member, NASEM Standing Committee on Science, Technology, & Law (2010 - 2018)
- Committee Member, WHO Advisory Committee on Variola Virus Research, World Health Organization (2016 - present)
- Chair, United States Delegation to Six Parties Symposia on Synthetic Biology (2011 - 2012)
- Voting Member, United States National Science Advisory Board for Biosecurity (2012 - 2017)
- Member, Secretary of Energy Biomedical Sciences Task Force (2015 - 2016)
- Member, Defense Innovation Board (2020 - 2021)

PROFESSIONAL EDUCATION

- PhD, Dartmouth , Biotechnology & Biochemical Engineering (1998)
- MS, Lehigh , Environmental Engineering (1994)
- BS, Lehigh , Civil Engineering (1992)

LINKS

- http://endy.web.stanford.edu/: http://endy.web.stanford.edu/

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

We work to strengthen the foundations and expand the frontiers of synthetic biology. Our foundational work includes (i) advancing reliable reuse of bio-measurements and -materials via standards that enable coordination of labor, and (ii) developing and integrating measurement and modeling tools for representing and analyzing living matter at whole-cell scales. Our work beyond the frontiers of current practice includes (iii) bootstrapping biotechnology tools in unconventional organisms (e.g., mealworms, wood fungus, skin microbes), and (iv) exploring the limits of whole-genome recoding and building cells from scratch. We also support strategy and policy work related to bio-safety, security, economy, equity, justice, and leadership.

Teaching

COURSES

2026-27

- Introduction to Bioengineering (Engineering Living Matter): BIOE 80, ENGR 80 (Spr)

2025-26

- Introduction to Bioengineering (Engineering Living Matter): BIOE 80, ENGR 80 (Spr)

2024-25

- Introduction to Bioengineering (Engineering Living Matter): BIOE 80, ENGR 80 (Spr)

2023-24

- Introduction to Bioengineering (Engineering Living Matter): BIOE 80, ENGR 80 (Spr)
- Inventing the Future: BIOE 177, DESIGN 259 (Win)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Vivian Zhong

Postdoctoral Faculty Sponsor

Diana Gong

Doctoral Dissertation Advisor (AC)

Emily Hagens, Sebastian Somolinos Cedeno, Jake Stillson, Sean Waterton

Doctoral Dissertation Co-Advisor (AC)

Hank Jones

Doctoral (Program)

Stella Anastasakis, Sydney Covitz, Ravalika Damerla, Nathan Greenwood, Anna Johnson, Santiago Mille Fragoso, Gevork Mkrtchyan, Charles Neuhauser, Soyoon Park, Deniz Sinar, Vivian Zhong

Publications

PUBLICATIONS

- **Creating a Popular Foundation for the Bio-Age** *ISSUES IN SCIENCE AND TECHNOLOGY*
  Chappell, C. R., Quiroz, A., Kong, D., Endy, D.
  2025; 41 (4)

- **Genome-wide transcription response ofStaphylococcus epidermidisto heat shock and medically relevant glucose levels.** *Frontiers in microbiology*
  Benjamin, K. N., Goyal, A., Nair, R. V., Endy, D.
  2024; 15: 1408796
- **Engineering tRNA abundances for synthetic cellular systems.** *Nature communications*
  Maheshwari, A. J., Calles, J., Waterton, S. K., Endy, D.
  2023; 14 (1): 4594
- **Colloidal Physics Modeling Reveals How Per-Ribosome Productivity Increases with Growth Rate in Escherichia coli.** *mBio*
  Maheshwari, A. J., Sunol, A. M., Gonzalez, E., Endy, D., Zia, R. N.
  2022: e0286522
- **Direct and indirect impacts of synthetic biology on biodiversity conservation.** *iScience*
  Macfarlane, N. B., Adams, J., Bennett, E. L., Brooks, T. M., Delborne, J. A., Eggermont, H., Endy, D., Esvelt, K. M., Kolodziejczyk, B., Kuiken, T., Oliva, M. J., Pena Moreno, S., Slobodian, et al
  2022; 25 (11): 105423
- **Simple and multiplexed tracking of bacterial growth in double emulsion droplets.** *PloS one*
  Somolinos Cedeño, S., Thompson, S., Fordyce, P., Endy, D.
  2026; 21 (11): e0362111
- **Autonomous Control of Gene Expression Using Endogenous Transcription Signals.** *Biotechnology and bioengineering*
  Subsoontorn, P., Endy, D., Borkowski, O.
  2026
- **Synthetic toehold biosensors for detecting Listeria monocytogenes in raw milk.** *Frontiers in microbiology*
  Carballo-Uicab, V. M., Casados-Vázquez, L. E., Endy, D., Barboza-Corona, J. E.
  2026; 17: 1891217
- **Isothermal assay targeting the V1-V2 region of the 16S rRNA gene for rapid screening of Listeria spp. in raw milk.** *International dairy journal*
  Barboza-Corona, J. E., Martínez-Zavala, S. A., Mendoza-Valerio, A. P., Rangel-Chávez, C. P., Casados-Vázquez, L. E., Endy, D.
  2026; 173
- **Charting a path for microbial conservation in the IUCN: report on "Conservation in a Microbial World" meeting in San Diego, CA, May 2025.** *Sustainable microbiology*
  Kunselman, E., Minnis, V., Kodera, S., Buschmann, M. M., Jones, A., Dehgan, A., Scholz, A. H., Boetius, A., Hochkirch, A., Dupont, C., Walzer, C., Averill, C., Endy, et al
  2025; 2 (4): qvaf026
- **Isothermal assay targeting the V1-V2 region of the 16S rRNA gene for rapid screening of Listeria spp. in raw milk** *INTERNATIONAL DAIRY JOURNAL*
  Barboza-Corona, J. E., Martinez-Zavala, S. A., Mendoza-Valerio, A. P., Rangel-Chavez, C. P., Casados-Vazquez, L. E., Endy, D.
  2026; 173
- **Toward a framework for risk mitigation of potential misuse of artificial intelligence in biomedical research.** *Nature machine intelligence*
  Trotsyuk, A. A., Waeiss, Q., Bhatia, R. T., Aponte, B. J., Heffernan, I. M., Madgavkar, D., Felder, R. M., Lehmann, L. S., Palmer, M. J., Greely, H., Wald, R., Goetz, L., Trengove, et al
  2024; 6 (12): 1435-1442
- **Toward a framework for risk mitigation of potential misuse of artificial intelligence in biomedical research** *NATURE MACHINE INTELLIGENCE*
  Trotsyuk, A. A., Waeiss, Q., Bhatia, R., Aponte, B. J., Heffernan, I. M. L., Madgavkar, D., Felder, R., Lehmann, L., Palmer, M. J., Greely, H., Wald, R., Goetz, L., Trengove, et al
  2024
- **Modeling the colloidal physics of translation elongation in E. coli**
  Maheshwari, A., Gonzalez-Gonzalez, E., Sunol, A. M., Endy, D., Zia, R. N.
  CELL PRESS.2022: 122
- **Multicolor plate reader fluorescence calibration.** *Synthetic biology (Oxford, England)*

Beal, J., Telmer, C. A., Vignoni, A., Boada, Y., Baldwin, G. S., Hallett, L., Lee, T., Selvarajah, V., Billerbeck, S., Brown, B., Cai, G., Cai, L., Eisenstein, et al
2022; 7 (1): ysac010

- **Correction to 'Fail-safe genetic codes designed to intrinsically contain engineered organisms'.** *Nucleic acids research*
  Calles, J., Justice, I., Brinkley, D., Garcia, A., Endy, D.
  1800
- **Growing a circular economy with fungal biotechnology: a white paper.** *Fungal biology and biotechnology*
  Meyer, V., Basenko, E. Y., Benz, J. P., Braus, G. H., Caddick, M. X., Csukai, M., de Vries, R. P., Endy, D., Frisvad, J. C., Gunde-Cimerman, N., Haarmann, T., Hadar, Y., Hansen, et al
  2020; 7: 5
- **A View from the Counter Terrorism Foxhole: Drew Endy** *Counter Terrorism Center at West Point Sentinel (CTC Sentinel)*
  Hummel, S., Cruickshank, P., Rassler, D.
  2020; 13 (10): 23-34
- **Enabling community-based metrology for wood-degrading fungi.** *Fungal biology and biotechnology*
  Perez, R., Luccioni, M., Kamakaka, R., Clamons, S., Gaut, N., Stirling, F., Adamala, K. P., Silver, P. A., Endy, D.
  2020; 7: 2
- **Development of CRISPR as an Antiviral Strategy to Combat SARS-CoV-2 and Influenza.** *Cell*
  Abbott, T. R., Dhamdhere, G. n., Liu, Y. n., Lin, X. n., Goudy, L. n., Zeng, L. n., Chemparathy, A. n., Chmura, S. n., Heaton, N. S., Debs, R. n., Pande, T. n., Endy, D. n., La Russa, et al
  2020
- **Permutational analysis of Saccharomyces cerevisiae regulatory elements.** *Synthetic biology (Oxford, England)*
  Dhillon, N., Shelansky, R., Townshend, B., Jain, M., Boeger, H., Endy, D., Kamakaka, R.
  2020; 5 (1): ysaa007
- **Colloidal hydrodynamics of biological cells: A frontier spanning two fields** *PHYSICAL REVIEW FLUIDS*
  Maheshwari, A. J., Sunol, A. M., Gonzalez, E., Endy, D., Zia, R. N.
  2019; 4 (11)
- **Definitive demonstration by synthesis of genome annotation completeness.** *Proceedings of the National Academy of Sciences of the United States of America*
  Jaschke, P. R., Dotson, G. A., Hung, K. S., Liu, D., Endy, D.
  2019
- **Modeling the Brownian hydrodynamics of intracellular motion**
  Zia, R., Maheshwari, A., Endy, D., Gonzalez, E., Sunol, A.
  AMER CHEMICAL SOC.2019
- **MILESTONE MEETINGS** *NATURE*
  Gewin, V., Karim, Q., Endy, D., Taylor, J., Schultz, J.
  2019; 571 (7766): S86–S87
- **Author Correction: Reconstruction of cysteine biosynthesis using engineered cysteine-free enzymes.** *Scientific reports*
  Fujishima, K., Wang, K. M., Palmer, J. A., Abe, N., Nakahigashi, K., Endy, D., Rothschild, L. J.
  2019; 9 (1): 6242
- **Reconstruction of cysteine biosynthesis using engineered cysteine-free enzymes (vol 8, 1776, 2018)** *SCIENTIFIC REPORTS*
  Fujishima, K., Wang, K. M., Palmer, J. A., Abe, N., Nakahigashi, K., Endy, D., Rothschild, L. J.
  2019; 9
- **Fail-safe genetic codes designed to intrinsically contain engineered organisms.** *Nucleic acids research*
  Calles, J. n., Justice, I. n., Brinkley, D. n., Garcia, A. n., Endy, D. n.
  2019
- **Tools for Multispecies Futures** *Journal of Design and Science*
  Haraway, D., Endy, D.

2019; 1 (4)

- **MILESTONE MEETINGS** *NATURE*
  Gewin, V., Karim, Q., Endy, D., Taylor, J., Schultz, J.
  2018; 564 (7736): S86–S87
- **Opening options for material transfer.** *Nature biotechnology*
  Kahl, L., Molloy, J., Patron, N., Matthewman, C., Haseloff, J., Grewal, D., Johnson, R., Endy, D.
  2018; 36 (10): 923–27
- **Reconstruction of cysteine biosynthesis using engineered cysteine-free enzymes.** *Scientific reports*
  Fujishima, K. n., Wang, K. M., Palmer, J. A., Abe, N. n., Nakahigashi, K. n., Endy, D. n., Rothschild, L. J.
  2018; 8 (1): 1776
- **Measurements of translation initiation from all 64 codons in E. coli** *NUCLEIC ACIDS RESEARCH*
  Hecht, A., Glasgow, J., Jaschke, P. R., Bawazer, L. A., Munson, M. S., Cochran, J. R., Endy, D., Salit, M.
  2017; 45 (7): 3615-3626
- **Artificial Symmetry-Breaking for Morphogenetic Engineering Bacterial Colonies.** *ACS synthetic biology*
  Nuñez, I. N., Matute, T. F., Del Valle, I. D., Kan, A., Choksi, A., Endy, D., Haseloff, J., Rudge, T. J., Federici, F.
  2017; 6 (2): 256-265
- **Artificial Symmetry-Breaking for Morphogenetic Engineering Bacterial Colonies** *ACS SYNTHETIC BIOLOGY*
  Nunez, I. N., Matute, T. F., Del Valle, I. D., Kan, A., Choksi, A., Endy, D., Haseloff, J., Rudge, T. J., Federici, F.
  2017; 6 (2): 256-265
- **When Wavelengths Collide: Bias in Cell Abundance Measurements Due to Expressed Fluorescent Proteins** *ACS SYNTHETIC BIOLOGY*
  Hecht, A., Endy, D., Salit, M., Munson, M. S.
  2016; 5 (9): 1024-1027
- **Measurement and modeling of intrinsic transcription terminators.** *Nucleic acids research*
  Cambray, G., Guimaraes, J. C., Mutalik, V. K., Lam, C., Mai, Q. A., Thimmaiah, T., Carothers, J. M., Arkin, A. P., Endy, D.
  2016; 44 (14): 7006
- **Voices of biotech.** *Nature biotechnology*
  Amit, I., Baker, D., Barker, R., Berger, B., Bertozzi, C., Bhatia, S., Biffi, A., Demichelis, F., Doudna, J., Dowdy, S. F., Endy, D., Helmstaedter, M., Junca, et al
  2016; 34 (3): 270-275
- **Detection of pathological biomarkers in human clinical samples via amplifying genetic switches and logic gates** *SCIENCE TRANSLATIONAL MEDICINE*
  Courbet, A., Endy, D., Renard, E., Molina, F., Bonnet, J.
  2015; 7 (289)
- **The Synthetic Biology Open Language (SBOL) provides a community standard for communicating designs in synthetic biology** *NATURE BIOTECHNOLOGY*
  Galdzicki, M., Clancy, K. P., Oberortner, E., Pocock, M., Quinn, J. Y., Rodriguez, C. A., Roehner, N., Wilson, M. L., Adam, L., Anderson, J. C., Bartley, B. A., Beal, J., Chandran, et al
  2014; 32 (6): 545-550
- **One-step cloning and chromosomal integration of DNA.** *ACS synthetic biology*
  St-Pierre, F., Cui, L., Priest, D. G., Endy, D., Dodd, I. B., Shearwin, K. E.
  2013; 2 (9): 537-541
- **Composability of regulatory sequences controlling transcription and translation in Escherichia coli** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Kosuri, S., Goodman, D. B., Cambray, G., Mutalik, V. K., Gao, Y., Arkin, A. P., Endy, D., Church, G. M.
  2013; 110 (34): 14024-14029
- **Amplifying genetic logic gates.** *Science*
  Bonnet, J., Yin, P., Ortiz, M. E., Subsoontorn, P., Endy, D.

2013; 340 (6132): 599-603

- **Measurement and modeling of intrinsic transcription terminators** *NUCLEIC ACIDS RESEARCH*
  Cambray, G., Guimaraes, J. C., Mutalik, V. K., Lam, C., Quynh-Anh Mai, Q. A., Thimmaiah, T., Carothers, J. M., Arkin, A. P., Endy, D.
  2013; 41 (9): 5139-5148

- **Quantitative estimation of activity and quality for collections of functional genetic elements** *NATURE METHODS*
  Mutalik, V. K., Guimaraes, J. C., Cambray, G., Quynh-Anh Mai, Q. A., Christoffersen, M. J., Martin, L., Yu, A., Lam, C., Rodriguez, C., Bennett, G., Keasling, J. D., Endy, D., Arkin, et al
  2013; 10 (4): 347-?

- **Precise and reliable gene expression via standard transcription and translation initiation elements** *NATURE METHODS*
  Mutalik, V. K., Guimaraes, J. C., Cambray, G., Lam, C., Christoffersen, M. J., Quynh-Anh Mai, Q. A., Tran, A. B., Paull, M., Keasling, J. D., Arkin, A. P., Endy, D.
  2013; 10 (4): 354-?

- **Switches, Switches, Every Where, In Any Drop We Drink** *MOLECULAR CELL*
  Bonnet, J., Endy, D.
  2013; 49 (2): 232-233

- **A survey of enabling technologies in synthetic biology.** *Journal of biological engineering*
  Kahl, L. J., Endy, D.
  2013; 7 (1): 13-?

- **A fully decompressed synthetic bacteriophage empty setX174 genome assembled and archived in yeast** *VIROLOGY*
  Jaschke, P. R., Lieberman, E. K., Rodriguez, J., Sierra, A., Endy, D.
  2012; 434 (2): 278-284

- **Refactored M13 Bacteriophage as a Platform for Tumor Cell Imaging and Drug Delivery** *ACS SYNTHETIC BIOLOGY*
  Ghosh, D., Kohli, A. G., Moser, F., Endy, D., Belcher, A. M.
  2012; 1 (12): 576-582

- **Rewritable digital data storage in live cells via engineered control of recombination directionality** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Bonnet, J., Subsoontorn, P., Endy, D.
  2012; 109 (23): 8884-8889

- **Engineered cell-cell communication via DNA messaging.** *Journal of biological engineering*
  Ortiz, M. E., Endy, D.
  2012; 6 (1): 16-?

- **Design and analysis of genetically encoded counters** *3rd International Winter Conference of the Neural-Network-Society (INNS-WC) / 11th International Conference on Bioinformatics (InCoB) / 3rd International Conference on Computational Systems-Biology and Bioinformatics (CSBio)*
  Subsoontorn, P., Endy, D.
  ELSEVIER SCIENCE BV.2012: 43–54

- **Engineered cell-cell communication via DNA messaging** *JOURNAL OF BIOLOGICAL ENGINEERING*
  Ortiz, M. E., Endy, D.
  2012; 6 (1)

- **Scaffold number in yeast signaling system sets tradeoff between system output and dynamic range** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Thomson, T. M., Benjamin, K. R., Bush, A., Love, T., Pincus, D., Resnekov, O., Yu, R. C., Gordon, A., Colman-Lerner, A., Endy, D., Brent, R.
  2011; 108 (50): 20265-20270

- **Can we grow buildings? Concepts and requirements for automated nano- to meter-scale building** *ADVANCED ENGINEERING INFORMATICS*
  Rebolj, D., Fischer, M., Endy, D., Moore, T., Sorgo, A.
  2011; 25 (2): 390-398

- **Editorial-Synthetic Biology** *NUCLEIC ACIDS RESEARCH*

Collins, J. J., Endy, D., Hutchison, C. A., Roberts, R. J.
2010; 38 (8): 2513-2513

- **Gemini, a Bifunctional Enzymatic and Fluorescent Reporter of Gene Expression** *PLOS ONE*
  Martin, L., Che, A., Endy, D.
  2009; 4 (11)
- **Measuring the activity of BioBrick promoters using an in vivo reference standard.** *Journal of biological engineering*
  Kelly, J. R., Rubin, A. J., Davis, J. H., Ajo-Franklin, C. M., Cumbers, J., Czar, M. J., de Mora, K., Glieberman, A. L., Monie, D. D., Endy, D.
  2009; 3: 4-?
- **Determination of cell fate selection during phage lambda infection** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  St-Pierre, F., Endy, D.
  2008; 105 (52): 20705-20710
- **The Alpha Project: a model system for systems biology research** *1st q-bio Conference on Cellular Information Processing*
  Yu, R. C., Resnekov, O., Abola, A. P., Andrews, S. S., Benjamin, K. R., Bruck, J., Burbulis, I. E., Colman-Lerner, A., Endy, D., Gordon, A., Holl, M., Lok, L., Pesce, et al
  INST ENGINEERING TECHNOLOGY-IET.2008: 222–33
- **Refinement and standardization of synthetic biological parts and devices** *NATURE BIOTECHNOLOGY*
  Canton, B., Labno, A., Endy, D.
  2008; 26 (7): 787-793
- **Genomics - Reconstruction of the Genomes** *SCIENCE*
  Endy, D.
  2008; 319 (5867): 1196-1197
- **Stimulus design for model selection and validation in cell signaling** *PLOS COMPUTATIONAL BIOLOGY*
  Apgar, J. F., Toettcher, J. E., Endy, D., White, F. M., Tidor, B.
  2008; 4 (2)
- **Engineering BioBrick vectors from BioBrick parts.** *Journal of biological engineering*
  Shetty, R. P., Endy, D., Knight, T. F.
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- **TABASCO: A single molecule, base-pair resolved gene expression simulator** *BMC BIOINFORMATICS*
  Kosuri, S., Kelly, J. R., Endy, D.
  2007; 8
- **Synthetic genomics - Options for governance** *BIOSECURITY AND BIOTERRORISM-BIODEFENSE STRATEGY PRACTICE AND SCIENCE*
  Garfinkel, M. S., Endy, D., Epstein, G. L., Friedman, R. M.
  2007; 5 (4): 359-361
- **DNA synthesis and biological security** *NATURE BIOTECHNOLOGY*
  Bugl, H., Danner, J. P., Molinari, R. J., Mulligan, J. T., Park, H., Reichert, B., Roth, D. A., Wagner, R., Budowle, B., Scripp, R. M., Smith, J. A., Steele, S. J., Church, et al
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- **Engineering life: Building a fab for biology** *SCIENTIFIC AMERICAN*
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- **Foundations for engineering biology** *NATURE*
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- **Regulated cell-to-cell variation in a cell-fate decision system** *NATURE*
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  Chan, L. Y., Kosuri, S., Endy, D.
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- **Signal transduction - Molecular monogamy** *NATURE*
  Endy, D., Yaffe, M. B.
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- **Signal transduction. Decoding NF-kappaB signaling.** *Science*
  Ting, A. Y., Endy, D.
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- **Modelling cellular behaviour** *NATURE*
  Endy, D., Brent, R.
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- **Computation, prediction, and experimental tests of fitness for bacteriophage T7 mutants with permuted genomes** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
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- **Toward antiviral strategies that resist viral escape** *ANTIMICROBIAL AGENTS AND CHEMOTHERAPY*
  Endy, D., Yin, J.
  2000; 44 (4): 1097-1099
- **Intracellular kinetics of a growing virus: A genetically structured simulation for bacteriophage T7** *BIOTECHNOLOGY AND BIOENGINEERING*
  Endy, D., Kong, D., Yin, J.
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PRESENTATIONS

- Synthetic Biology: What Should We Be Vibrating About? - Stanford University