Bio

ACADEMIC APPOINTMENTS
• Professor Emeritus-Hourly, Biochemistry
• Member, Bio-X

ADMINISTRATIVE APPOINTMENTS
• Scientific Advisory Board, St. Jude Children's Research Hospital, (2000-2009)
• Co-founder, Public Library of Science, (2001- present)
• Scientific Advisory Board, Canary Foundation, (2004-2012)
• Founder, Kite Hill (Lyrical Foods), (2011- present)
• Founder, Impossible Foods, (2011- present)
• Founder, President, Impossible Foundation, (2022- present)

HONORS AND AWARDS
• Jacob Heskel Gabbay Award, Brandeis University (1998)
• Fellow, American Association for the Advancement of Science (1999)
• NAS Award in Molecular Biology, National Academy of Sciences (2000)
• America's Best - Genomics, TIME Magazine (2001)
• Innovation Award, Discover Magazine (2002)
• Member, National Academy of Sciences (2002)
• Takeda Award, Takeda Foundation (2002)
• ASM-Promega Biotechnology Award, American Society for Microbiology (2003)
• Biotech Helsinki Prize, Finnish National Fund for R & D (2003)
• Rave Award, WIRED Magazine (2004)
• Curt Stern Award, American Society for Human Genetics (2005)
• Medal of Honor, American Cancer Society (2006)
• Member, Institute of Medicine (2009)
• Award for Excellence in Molecular Diagnostics, Association for Molecular Pathology (2010)
• Stanford Inventors Hall of Fame, Stanford University (2012)
• Champion of the Earth Award, UN Environmental Program (2018)
• UN Global Climate Action Award, UNFCCC (2019)
• Inventor of the Year, IPO Education Foundation (2020)
• Honorary Doctor of Science, Duke University (2022)
• Honorary Doctor of Science, SUNY Upstate Medical University (2023)

PROFESSIONAL EDUCATION
• MD, University of Chicago (1982)
• PhD, University of Chicago, Biochemistry (1980)
• BA, University of Chicago, Chemistry (1976)

COMMUNITY AND INTERNATIONAL WORK
• Public Library of Science, San Francisco & Cambridge England

PATENTS
• "United States Patent 10039306 Methods and compositions for consumables"
• "United States Patent 10172381 Methods and compositions for consumables"
• "United States Patent 10314325 Methods and compositions for affecting the flavor and aroma profile of consumables"
• "United States Patent 10327464 Methods and compositions for affecting the flavor and aroma profile of consumables"
• "United States Patent 10863761 Methods and compositions for consumables"
• "United States Patent 10986848 Methods and compositions for consumables"
• "United States Patent 10993462 Methods and compositions for consumables"
• "United States Patent 11013250 Methods and compositions for consumables"
• "United States Patent 11219232 Methods and compositions for affecting the flavor and aroma profile of consumables"
• "United States Patent 11224241 Methods and compositions for affecting the flavor and aroma profile of consumables"
• "United States Patent 5807522 Methods for fabricating microarrays of biological samples"
• "United States Patent 6110426 Methods for fabricating microarrays of biological samples"
• "United States Patent 7118853 Methods of classifying, diagnosing, stratifying and treating cancer patients and their tumors"
• "United States Patent 7323298 Microarray for determining the relative abundances of polynucleotide sequences"
• "United States Patent 7378236 Method for analyzing gene expression patterns"
• "United States Patent 7442499 Substrates comprising polynucleotide microarrays"
• "United States Patent 7625697 Methods for constructing subarrays and subarrays made thereby"
• "United States Patent 7902121 MHC-antigen arrays for detection and characterization of immune responses"
• "United States Patent 7943306 Gene expression signature for prediction of human cancer progression"
• "United States Patent 8383349 Bone morphogenetic protein antagonist and uses thereof"
• "United States Patent 9011949 Methods and compositions for consumables"
• "United States Patent 9700067 Methods and compositions for affecting the flavor and aroma profile of consumables"
• "United States Patent 9737875 Affinity reagents for protein purification"
• "United States Patent 9808029 Methods and compositions for affecting the flavor and aroma profile of consumables"
• "United States Patent 9826772 Methods and compositions for affecting the flavor and aroma profile of consumables"
• "United States Patent 9833768 Affinity reagents for protein purification"
• "United States Patent 9943096 Methods and compositions for affecting the flavor and aroma profile of consumables"
CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dr. Brown's research focuses on replacing humanity's most destructive invention - the use of animals as a food technology - by developing a new and better way to produce the world's most delicious, nutritious and affordable meats, fish and dairy foods directly from plants. He is also working on developing and scaling optimal methods for restoring healthy ecosystems and sequestering carbon on the 45% of Earth's surface that have been devastated by animal agriculture.

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biochemistry (Phd Program)
- Cancer Biology (Phd Program)
- Molecular and Genetic Medicine (Fellowship Program)

Publications

PUBLICATIONS

- Rapid global phaseout of animal agriculture has the potential to stabilize greenhouse gas levels for 30 years and offset 68 percent of CO2 emissions this century. *PLOS Climate*
  Brown, P. O., Eisen, M. B.
  2022

- Directed Chemical Evolution with an Outsized Genetic Code. *PloS one*
  Krusemark, C. J., Tilmans, N. P., Brown, P. O., Harbury, P. B.
  2016; 11 (8)

- Dynamic ASXL1 Exon Skipping and Alternative Circular Splicing in Single Human Cells. *PloS one*
  Koh, W., Gonzalez, V., Natarajan, S., Carter, R., Brown, P. O., Gawad, C.
  2016; 11 (10)

- Evolutionary Conservation and Diversification of Puf RNA Binding Proteins and Their mRNA Targets *PLOS BIOLOGY*
  Hogan, G. J., Brown, P. O., Herschlag, D.
  2015; 13 (11)

- Replacing the world's most destructive industry
  Brown, P.
  AMER CHEMICAL SOC.2015

- Automated Analysis and Classification of Histological Tissue Features by Multi-Dimensional Microscopic Molecular Profiling *PLOS ONE*
  Riordan, D. P., Varma, S., West, R. B., Brown, P. O.
  2015; 10 (7)

- miR-142 regulates the tumorigenicity of human breast cancer stem cells through the canonical WNT signaling pathway *ELIFE*
  Isobe, T., Hisamori, S., Hogan, D. J., Zabala, M., Hendrickson, D. G., Dalerba, P., Cai, S., Scheeren, F., Kuo, A. H., Sikandar, S. S., Lam, J. S., Qian, D., Dirbas, et al
  2014; 3

- Transcriptome-Wide Mapping of Pseudouridines: Pseudouridine Synthases Modify Specific mRNAs in S. cerevisiae *PLOS ONE*
  Lovejoy, A. F., Riordan, D. P., Brown, P. O.
  2014; 9 (10)
Distinct stages of the translation elongation cycle revealed by sequencing ribosome-protected mRNA fragments. *ELIFE*
Lareau, L. F., Hite, D. H., Hogan, G. J., Brown, P. O.
2014; 3

Circular RNA Is Expressed across the Eukaryotic Tree of Life. *PloS one*
Wang, P. L., Bao, Y., Yee, M., Barrett, S. P., Hogan, G. J., Olsen, M. N., Dinnesny, J. R., Brown, P. O., Salzman, J.
2014; 9 (3)

Cell-type specific features of circular RNA expression. *PLoS genetics*
Salzman, J., Chen, R. E., Olsen, M. N., Wang, P. L., Brown, P. O.
2013; 9 (9)

Role of Mitosis-Specific Translation in yeast cytokinesis
Onishi, M., Klass, D. M., Brown, P. O., Pringle, J. R.
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Quantitative proteomic analysis reveals concurrent RNA-protein interactions and identifies new RNA-binding proteins in Saccharomyces cerevisiae. *GENOME RESEARCH*
Klass, D. M., Scheibe, M., Butter, F., Hogan, G. J., Mann, M., Brown, P. O.
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An interview with Patrick O Brown on the origins and future of open access. *BMC BIOLOGY*
Brown, P. O.
2013; 11

High Levels of Genomic Aberrations in Serous Ovarian Cancers Are Associated with Better Survival. *PLOS ONE*
Baumbusch, L. O., Helland, A., Wang, Y., Liestol, K., Schaner, M. E., Holm, R., Etemadmoghadam, D., Alsop, K., Brown, P., Mitchell, G., Fereday, S., deFazio, A., Bowtell, et al
2013; 8 (1)

Improved Discovery of Molecular Interactions in Genome-Scale Data with Adaptive Model-Based Normalization. *PLOS ONE*
Salzman, J., Klass, D. M., Brown, P. O.
2013; 8 (1)

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Bates, J. G., Salzman, J., May, D., Garcia, P. B., Hogan, G. J., McIntosh, M., Schlissel, M. S., Brown, P. O.
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AMER ASSOC CANCER RESEARCH.2012

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*AMER CHEMICAL SOC.* 2011

- Identification of RNA recognition elements in the *Saccharomyces cerevisiae* transcriptome *NUCLEIC ACIDS RESEARCH*  
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Rubins, K. H., Hensley, L. E., Relman, D. A., Brown, P. O.  
2011; 6 (1)

- Three-dimensional tracking of single mRNA particles in *Saccharomyces cerevisiae* using a double-helix point spread function *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Thompson, M. A., Casolari, J. M., Badicierostami, M., Brown, P. O., Moerner, W. E.  
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- Proteome-Wide Search Reveals Unexpected RNA-Binding Proteins in *Saccharomyces cerevisiae* *PLOS ONE*  
Tsvetanova, N. G., Klass, D. M., Salzman, J., Brown, P. O.  
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- Dissecting Interferon-Induced Transcriptional Programs in Human Peripheral Blood Cells *PLOS ONE*  
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- Concordant Regulation of Translation and mRNA Abundance for Hundreds of Targets of a Human microRNA *PLOS BIOLOGY*  
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- The Preclinical Natural History of Serous Ovarian Cancer: Defining the Target for Early Detection *PLOS MEDICINE*  
Brown, P. O., Palmer, C.  
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Chen, R., Pan, S., Crispin, D., McIntosh, M., Goodlett, D., Aebersold, R., Hawley, S., Palmer, C., Auman, H., Anton-Culver, H., Ziogas, A., Brown, P., Nelson, et al  
*AMER ASSOC CANCER RESEARCH* 2009

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- **BIOL 182-** Small molecule substrates for in vivo imaging of protein kinase activity generated by DNA-programmed combinatorial synthesis  *236th National Meeting of the American-Chemical-Society*  
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• Transcriptional modulation of genes encoding structural characteristics of differentiating Enterocytes during development of a polarized epithelium in vitro MOLECULAR BIOLOGY OF THE CELL
Halbleib, J. M., Saeaeif, A. M., Brown, P. O., Nelson, W. J.
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Klapholz-Brown, Z., Walmsley, G. G., Nusse, Y. M., Nusse, R., Brown, P. O.
2007; 2 (9)

• Gene expression programs of human smooth muscle cells: Tissue-specific differentiation and prognostic significance in breast cancers PLOS GENETICS
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• Discovery and validation of breast cancer subtypes (vol 8, pg 101, 2007) BMC GENOMICS
Kapp, A. V., Jeffrey, S. S., Langerod, A., Borresen-Dale, A., Han, W., Noh, D., Bukholm, I. K., Nicolau, M., Brown, P. O., Tibshirani, R.
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• Gene Expression Patterns in Pancreatic Tumors, Cells and Tissues PLOS ONE
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2007; 2 (5)

• Characterization of heterotypic interaction effects in vitro to deconvolute global gene expression profiles in cancer GENOME BIOLOGY
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• Gene-expression patterns reveal underlying biological processes in Kawasaki disease GENOME BIOLOGY
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2005 Curt Stern Award address. Exploring along a crooked path. *American Journal of Human Genetics* Brown, P. O. 2006; 79 (3): 429-433

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  Soen, Y., Mori, A., Palmer, T. D., Brown, P. O.
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