



Patrick O. Brown

Professor of Biochemistry, Emeritus

 Curriculum Vitae available Online

Bio

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, 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 Hessel 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"

LINKS

- Impossible Foods: <http://impossiblefoods.com>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dr. Brown, currently an emeritus professor, is founder of Impossible Foods, a company dedicated to replacing the world's most destructive technology - the use of animals to transform plant biomass into meat, fish and dairy foods - 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. Visit impossiblefoods.com for more information. He is also founder and president of the Impossible Foundation.

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., Dimmeny, 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.
WILEY-BLACKWELL.2013: 195
- **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.
2013; 23 (6): 1028-1038
- **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)
- **The Yeast Rab GTPase Ypt1 Modulates Unfolded Protein Response Dynamics by Regulating the Stability of HAC1 RNA** *PLOS GENETICS*
Tsvetanova, N. G., Riordan, D. P., Brown, P. O.
2012; 8 (7)
- **Extensive Gene-Specific Translational Reprogramming in a Model of B Cell Differentiation and Abl-Dependent Transformation** *PLOS ONE*
Bates, J. G., Salzman, J., May, D., Garcia, P. B., Hogan, G. J., McIntosh, M., Schlissel, M. S., Brown, P. O.
2012; 7 (5)
- **Molecular function of the RNA binding protein EWS in RNA processing**
Nieves, B. I., Niu, S., Vaka, D., Salzman, J., Brown, P., Sweet-Cordero, A. I.
AMER ASSOC CANCER RESEARCH.2012
- **Widespread mRNA Association with Cytoskeletal Motor Proteins and Identification and Dynamics of Myosin-Associated mRNAs in S. cerevisiae** *PLOS ONE*
Casolari, J. M., Thompson, M. A., Salzman, J., Champion, L. M., Moerner, W. E., Brown, P. O.
2012; 7 (2)
- **Circular RNAs Are the Predominant Transcript Isoform from Hundreds of Human Genes in Diverse Cell Types** *PLOS ONE*
Salzman, J., Gawad, C., Wang, P. L., Lacayo, N., Brown, P. O.
2012; 7 (2)
- **Interferon and Biologic Signatures in Dermatomyositis Skin: Specificity and Heterogeneity across Diseases** *PLOS ONE*
Wong, D., Kea, B., Pesich, R., Higgs, B. W., Zhu, W., Brown, P., Yao, Y., Fiorentino, D.
2012; 7 (1)
- **ESRRA-C11orf20 Is a Recurrent Gene Fusion in Serous Ovarian Carcinoma** *PLOS BIOLOGY*

- Salzman, J., Marinelli, R. J., Wang, P. L., Green, A. E., Nielsen, J. S., Nelson, B. H., Drescher, C. W., Brown, P. O.
2011; 9 (9)
- **Defining the Specificity of Cotranslationally Acting Chaperones by Systematic Analysis of mRNAs Associated with Ribosome-Nascent Chain Complexes** *PLOS BIOLOGY*
del Alamo, M., Hogan, D. J., Pechmann, S., Albanese, V., Brown, P. O., Frydman, J.
2011; 9 (7)
 - **3D tracking of single mRNA particles in *S. cerevisiae* using a double-helix point spread function**
Thompson, M. A., Casolari, J. M., Brown, P. O., Moerner, W. E.
AMER CHEMICAL SOC.2011
 - **Identification of RNA recognition elements in the *Saccharomyces cerevisiae* transcriptome** *NUCLEIC ACIDS RESEARCH*
Riordan, D. P., Herschlag, D., Brown, P. O.
2011; 39 (4): 1501-1509
 - **Stunned Silence: Gene Expression Programs in Human Cells Infected with Monkeypox or Vaccinia Virus** *PLOS ONE*
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., Badieirostami, M., Brown, P. O., Moerner, W. E.
2010; 107 (42): 17864-17871
 - **Proteome-Wide Search Reveals Unexpected RNA-Binding Proteins in *Saccharomyces cerevisiae*** *PLOS ONE*
Tsvetanova, N. G., Klass, D. M., Salzman, J., Brown, P. O.
2010; 5 (9)
 - **Dissecting Interferon-Induced Transcriptional Programs in Human Peripheral Blood Cells** *PLOS ONE*
Waddell, S. J., Popper, S. J., Rubins, K. H., Griffiths, M. J., Brown, P. O., Levin, M., Relman, D. A.
2010; 5 (3)
 - **Small molecule libraries generated by DNA-programmed combinatorial chemistry for the in vitro selection of protein ligands and protein kinase substrates**
Krusemark, C. J., Weisinger, R. M., Tilmans, N. P., Brown, P. O., Harbury, P. A.
AMER CHEMICAL SOC.2010
 - **Concordant Regulation of Translation and mRNA Abundance for Hundreds of Targets of a Human microRNA** *PLOS BIOLOGY*
Hendrickson, D. G., Hogan, D. J., McCullough, H. L., Myers, J. W., Herschlag, D., Ferrell, J. E., Brown, P. O.
2009; 7 (11)
 - **The Preclinical Natural History of Serous Ovarian Cancer: Defining the Target for Early Detection** *PLOS MEDICINE*
Brown, P. O., Palmer, C.
2009; 6 (7)
 - **Pancreatic cancer protein biomarkers for early detection**
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
 - **Diverse RNA-Binding Proteins Interact with Functionally Related Sets of RNAs, Suggesting an Extensive Regulatory System** *PLOS BIOLOGY*
Hogan, D. J., Riordan, D. P., Gerber, A. P., Herschlag, D., Brown, P. O.
2008; 6 (10): 2297-2313
 - **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*
Krusemark, C. J., Tilmans, N. P., Weisinger, R. M., Brown, P. O., Harbury, P. A.
AMER CHEMICAL SOC.2008

- **Comparative Analysis of Viral Gene Expression Programs during Poxvirus Infection: A Transcriptional Map of the Vaccinia and Monkeypox Genomes** *PLOS ONE*
Rubins, K. H., Hensley, L. E., Bell, G. W., Wang, C., Lefkowitz, E. J., Brown, P. O., Relman, D. A.
2008; 3 (7)
- **Systematic Evaluation of Candidate Blood Markers for Detecting Ovarian Cancer** *PLOS ONE*
Palmer, C., Duan, X., Hawley, S., Scholler, N., Thorpe, J. D., Sahota, R. A., Wong, M. Q., Wray, A., Bergan, L. A., Drescher, C. W., McIntosh, M. W., Brown, P. O., Nelson, et al
2008; 3 (7)
- **Systematic Identification of mRNAs Recruited to Argonaute 2 by Specific microRNAs and Corresponding Changes in Transcript Abundance** *PLOS ONE*
Hendrickson, D. G., Hogan, D. J., Herschlag, D., Ferrell, J. E., Brown, P. O.
2008; 3 (5)
- **The Stanford Tissue Microarray Database** *NUCLEIC ACIDS RESEARCH*
Marinelli, R. J., Montgomery, K., Liu, C. L., Shah, N. H., Prapong, W., Nitzberg, M., Zachariah, Z. K., Sherlock, G. J., Natkunam, Y., West, R. B., van de Rijn, M., Brown, P. O., Ball, et al
2008; 36: D871-D877
- **Parallels between global transcriptional programs of polarizing caco-2 intestinal epithelial cells in vitro and gene expression programs in normal colon and colon cancer** *MOLECULAR BIOLOGY OF THE CELL*
Saeaf, A. M., Halbleib, J. M., Chen, X., Yuen, S. T., Leung, S. Y., Nelson, W. J., Brown, P. O.
2007; 18 (11): 4245-4260
- **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., Saeaf, A. M., Brown, P. O., Nelson, W. J.
2007; 18 (11): 4261-4278
- **Transcriptional Program Induced by Wnt Protein in Human Fibroblasts Suggests Mechanisms for Cell Cooperativity in Defining Tissue Microenvironments** *PLOS ONE*
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*
Chi, J., Rodriguez, E. H., Wang, Z., Nuyten, D. S., Mukherjee, S., van de Rijn, M., van de Vijver, M. J., Hastie, T., Brown, P. O.
2007; 3 (9): 1770-1784
- **Development of the human infant intestinal microbiota** *PLOS BIOLOGY*
Palmer, C., Bik, E. M., DiGiulio, D. B., Relman, D. A., Brown, P. O.
2007; 5 (7): 1556-1573
- **Virtual Northern Analysis of the Human Genome** *PLOS ONE*
Hurowitz, E. H., Drori, I., Stodden, V. C., Donoho, D. L., Brown, P. O.
2007; 2 (5)
- **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.
2007; 8
- **Gene Expression Patterns in Pancreatic Tumors, Cells and Tissues** *PLOS ONE*
Lowe, A. W., Olsen, M., Hao, Y., Lee, S. P., Lee, K. T., Chen, X., van de Rijn, M., Brown, P. O.
2007; 2 (3)
- **Characterization of heterotypic interaction effects in vitro to deconvolute global gene expression profiles in cancer** *GENOME BIOLOGY*
Buess, M., Nuyten, D. S., Hastie, T., Nielsen, T., Pesich, R., Brown, P. O.
2007; 8 (9)
- **Gene-expression patterns reveal underlying biological processes in Kawasaki disease** *GENOME BIOLOGY*
Popper, S. J., Shimizu, C., Shike, H., Kanegaye, J. T., Newburger, J. W., Sundel, R. P., Brown, P. O., Burns, J. C., Relman, D. A.

2007; 8 (12)

- **The temporal program of peripheral blood gene expression in the response of nonhuman primates to Ebola hemorrhagic fever** *GENOME BIOLOGY*
Rubins, K. H., Hensley, L. E., Wahl-Jensen, V., DiCaprio, K. M., Young, H. A., Reed, D. S., Jahrling, P. B., Brown, P. O., Relman, D. A., Geisbert, T. W.
2007; 8 (8)
- **The Stanford Microarray Database: implementation of new analysis tools and open source release of software** *NUCLEIC ACIDS RESEARCH*
Demeter, J., Beauheim, C., Gollub, J., Hernandez-Boussard, T., Jin, H., Maier, D., Matese, J. C., Nitzberg, M., Wymore, F., Zachariah, Z. K., Brown, P. O., Sherlock, G., Ball, et al
2007; 35: D766-D770
- **Bone morphogenetic protein antagonist gremlin 1 is widely expressed by cancer-associated stromal cells and can promote tumor cell proliferation** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Sneddon, J. B., Zhen, H. H., Montgomery, K., van de Rijn, M., Tward, A. D., West, R., Gladstone, H., Chang, H. Y., Morganroth, G. S., Oro, A. E., Brown, P. O.
2006; 103 (40): 14842-14847
- **Discovery and validation of breast cancer subtypes** *BMC GENOMICS*
Kapp, A. V., Jeffrey, S. S., Langerod, A., Borresen-Dale, A., Han, W., Noh, D., Bukholm, I. R., Nicolau, M., Brown, P. O., Tibshirani, R.
2006; 7
- **2005 Curt Stern Award address. Exploring along a crooked path.** *American journal of human genetics*
Brown, P. O.
2006; 79 (3): 429-433
- **Anatomic demarcation by positional variation in fibroblast gene expression programs** *PLOS GENETICS*
Rinn, J. L., Bondre, C., Gladstone, H. B., Brown, P. O., Chang, H. Y.
2006; 2 (7): 1084-1096
- **Effects of tumor-stroma interaction on global gene expression in breast cancer**
Buess, M., Nuyten, D. A., Hastie, T., Brown, P. O.
PERGAMON-ELSEVIER SCIENCE LTD.2006: 33
- **Cell-type specific gene expression profiles of leukocytes in human peripheral blood** *BMC GENOMICS*
Palmer, C., Diehn, M., Alizadeh, A. A., Brown, P. O.
2006; 7
- **Gene expression patterns in human placenta** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Sood, R., Zehnder, J. L., Druzin, M. L., Brown, P. O.
2006; 103 (14): 5478-5483
- **Genome-wide identification of mRNAs associated with the translational regulator PUMILIO in *Drosophila melanogaster*** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Gerber, A. P., Luschnig, S., Krasnow, M. A., Brown, P. O., Herschlag, D.
2006; 103 (12): 4487-4492
- **Gene expression programs in response to hypoxia: Cell type specificity and prognostic significance in human cancers** *PLOS MEDICINE*
Chi, J. T., Wang, Z., Nuyten, D. S., Rodriguez, E. H., Schaner, M. E., Salim, A., Wang, Y., Kristensen, G. B., Helland, A., Borresen-Dale, A. L., Giaccia, A., Longaker, M. T., Hastie, et al
2006; 3 (3): 395-409
- **A landscape effect in tenosynovial giant-cell tumor from activation of CSF1 expression by a translocation in a minority of tumor cells** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
West, R. B., Rubin, B. P., Miller, M. A., Subramanian, S., Kaygusuz, G., Montgomery, K., Zhu, S., Marinelli, R. J., De Luca, A., Downs-Kelly, E., Goldblum, J. R., Corless, C. L., Brown, et al
2006; 103 (3): 690-695
- **Rapid quantitative profiling of complex microbial populations** *NUCLEIC ACIDS RESEARCH*
PALMER, C., Bik, E. M., Eisen, M. B., Eckburg, P. B., Sana, T. R., Wolber, P. K., Relman, D. A., Brown, P. O.
2006; 34 (1)
- **Genome-scale identification of membrane-associated human mRNAs** *PLOS GENETICS*

- Diehn, M., Bhattacharya, R., Botstein, D., Brown, P. O.
2006; 2 (1): 39-50
- **Exploring the regulation of human neural precursor cell differentiation using arrays of signaling microenvironments** *MOLECULAR SYSTEMS BIOLOGY*
Soen, Y., Mori, A., Palmer, T. D., Brown, P. O.
2006; 2
 - **Predicting a local recurrence after breast-conserving therapy by gene expression profiling** *BREAST CANCER RESEARCH*
Nuyten, D. S., Kreike, B., Hart, A. A., Chi, J. A., Sneddon, J. B., Wessels, L. F., Peterse, H. J., Bartelink, H., Brown, P. O., Chang, H. Y., van de Vijver, M. J.
2006; 8 (5)
 - **Minimizing off-target effects by using diced siRNAs for RNA interference.** *Journal of RNAi and gene silencing : an international journal of RNA and gene targeting research*
Myers, J. W., Chi, J., Gong, D., Schaner, M. E., Brown, P. O., Ferrell, J. E.
2006; 2 (2): 181-194
 - **Differential gene expression profiles in CD34+myelodysplastic syndrome marrow cells.** *47th Annual Meeting of the American-Society-of-Hematology*
Sridhar, K., Brown, P. O., Tibshirani, R., Jamieson, C., Weissman, I., Ross, D. T., Greenberg, P. L.
AMER SOC HEMATOLOGY.2005: 956A-956A
 - **The temporal gene expression patterns of embryonic hematopoiesis after hemangioblast commitment** *47th Annual Meeting of the American-Society-of-Hematology*
Chen, D., Lewis, R. L., Daigh, C. A., Wang, P., Kendzioski, C. M., Chen, X., Brown, P. O., Thomson, J. A.
AMER SOC HEMATOLOGY.2005: 127B-127B
 - **Marked differences in human melanoma antigen-specific T cell responsiveness after vaccination using a functional microarray** *PLOS MEDICINE*
Chen, D. S., Soen, Y., Stuge, T. B., Lee, P. P., Weber, J. S., Brown, P. O., Davis, M. M.
2005; 2 (10): 1018-1030
 - **Combination of two biological gene expression signatures in predicting outcome in breast cancer as an alternative for supervised classification**
Nuyten, D. S., Chang, H. Y., Chi, J. T., Sneddon, J. B., Bartelink, H., Hastie, T., Brown, P. O., Van de Vijver, M. J.
PERGAMON-ELSEVIER SCIENCE LTD.2005: 71-72
 - **Hypoxia gene expression signature in predicting outcome in breast cancer patients.** *41st Annual Meeting of the American-Society-of-Clinical-Oncology*
Nuyten, D. S., Chi, J. T., Wang, Z., Van't Veer, L., Bartelink, H. G., Brown, P. O., de Vijver, M. J.
AMER SOC CLINICAL ONCOLOGY.2005: 837S-837S
 - **Determination of stromal signatures in breast carcinoma** *PLOS BIOLOGY*
West, R. B., Nuyten, D. S., Subramanian, S., Nielsen, T. O., Corless, C. L., Rubin, B. P., Montgomery, K., Zhu, S., Patel, R., Hernandez-Boussard, T., Goldblum, J. R., Brown, P. O., van De Vijver, et al
2005; 3 (6): 1101-1110
 - **Gene expression profiling reveals molecularly and clinically distinct subtypes of glioblastoma multiforme** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Liang, Y., Diehn, M., Watson, N., Bollen, A. W., Aldape, K. D., Nicholas, M. K., Lamborn, K. R., Berger, M. S., Botstein, D., Brown, P. O., Israel, M. A.
2005; 102 (16): 5814-5819
 - **A gene expression signature of human aging conserved in tissues and cells** *66th Annual Meeting of the Society-for-Investigative-Dermatology*
Chang, H. Y., Segal, E., Zahn, J. M., Bondre, C., Kiim, S., Brown, P. O.
NATURE PUBLISHING GROUP.2005: A20-A20
 - **Robustness, scalability, and integration of a wound-response gene expression signature in predicting breast cancer survival** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Chang, H. Y., Nuyten, D. S., Sneddon, J. B., Hastie, T., Tibshirani, R., Sorlie, T., Dai, H. Y., He, Y. D., Van't Veer, L. J., Bartelink, H., van de Rijn, M., Brown, P. O., van de Vijver, et al
2005; 102 (10): 3738-3743
 - **The Stanford Microarray Database accommodates additional microarray platforms and data formats** *NUCLEIC ACIDS RESEARCH*
Ball, C. A., Awad, I. A., Demeter, J., Gollub, J., Hebert, J. M., Hernandez-Boussard, T., Jin, H., Matese, J. C., Nitzberg, M., Wymore, F., Zachariah, Z. K., Brown, P. O., Sherlock, et al
2005; 33: D580-D582

- **Dissecting eukaryotic translation and its control by ribosome density mapping** *NUCLEIC ACIDS RESEARCH*
Arava, Y., Boas, F. E., Brown, P. O., Herschlag, D.
2005; 33 (8): 2421-2432
- **Differential gene expression in anatomical compartments of the human eye** *GENOME BIOLOGY*
Diehn, J. J., Diehn, M., Marmor, M. F., Brown, P. O.
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