



## Patrick O. Brown

Professor of Biochemistry, Emeritus

 Curriculum Vitae available Online

### Bio

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#### ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Biochemistry
- Member, Bio-X

#### ADMINISTRATIVE APPOINTMENTS

- Scientific Advisory Board, St. Jude Children's Research Hospital, (2000-2009)
- Scientific Advisory Board, Canary Foundation, (2004- present)
- Board of Directors, Co-founder, Public Library of Science, (2001- present)
- Founder, Impossible Foods, (2011- present)
- Founder, Lyrical Foods, (2011- present)

#### HONORS AND AWARDS

- Jacob Hessel Gabbay Award, Brandeis University (1998)
- Fellow, American Association for the Advancement of Science (1999)
- Innovation Award, Discover Magazine (2002)
- Biotech Helsinki Prize, Finnish National Fund for R & D (2003)
- ASM-Promega Biotechnology Award, American Society for Microbiology (2003)
- NAS Award in Molecular Biology, National Academy of Sciences (2000)
- America's Best - Genomics, TIME Magazine (2001)
- Member, National Academy of Sciences (2002)
- Takeda Award, Takeda Foundation (2002)
- 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)

#### 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

## LINKS

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

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dr. Brown, currently an emeritus professor, is CEO and 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](http://impossiblefoods.com) for more information.

### CLINICAL TRIALS

- Genetic & Pathological Studies of BRCA1/BRCA2: Associated Tumors & Blood Samples, Recruiting
- Microarray Analysis of Gene Expression in Prostate Tissues, Not Recruiting

## Teaching

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### GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

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

## Publications

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### PUBLICATIONS

- **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)
- **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., Dinneny, 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)
- **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)
- **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)
- **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)
- **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)
- **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)
- **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
- **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)
- **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

- **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.  
2005; 6 (9)
- **A DNA microarray survey of gene expression in normal human tissues** *GENOME BIOLOGY*  
Shyamsundar, R., Kim, Y. H., Higgins, J. P., Montgomery, K., Jorden, M., Sethuraman, A., van de Rijn, M., Botstein, D., Brown, P. O., Pollack, J. R.  
2005; 6 (3)
- **Stromal expression signatures predict outcome in breast carcinoma** *94th Annual Meeting of the United-States-and-Canadian-Academy-of-Pathology*  
West, R. B., Nuyten, D. S., Subramanian, S., Corless, C., Rubin, B. P., Montgomery, K., Zhu, S. X., Nielsen, T. O., Patel, R., Goldblum, J. R., Brown, P. O., van De Vijver, M., van de Rijn, et al  
NATURE PUBLISHING GROUP.2005: 55A–55A
- **CSF1R expression in soft tissue tumors** *94th Annual Meeting of the United-States-and-Canadian-Academy-of-Pathology*  
West, R. B., Kaygusuz, G., Subramanian, S., Corless, C. L., Rubin, B. P., Montgomery, K., Zhu, S. X., Nielsen, T. I., Patel, R., Goldblum, J. R., Brown, P. O.  
NATURE PUBLISHING GROUP.2005: 23A–23A
- **The host response to smallpox: Analysis of the gene expression program in peripheral blood cells in a nonhuman primate model** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Rubins, K. H., Hensley, L. E., JAHRLING, P. B., Whitney, A. R., Geisbert, T. W., HUGGINS, J. W., Owen, A., LEDUC, J. W., Brown, P. O., Relman, D. A.  
2004; 101 (42): 15190-15195
- **A method for detecting and correcting feature misidentification on expression microarrays** *BMC GENOMICS*  
Tu, I. P., Schaner, M., Diehn, M., Sikic, B. I., Brown, P. O., Botstein, D., Fero, M. J.  
2004; 5

- **A specific gene expression program triggered by gram-positive bacteria in the cytosol** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
McCaffrey, R. L., Fawcett, P., O'Riordan, M., Lee, K. D., Havell, E. A., Brown, P. O., Portnoy, D. A.  
2004; 101 (31): 11386-11391
- **Apo D in soft tissue tumors - A novel marker for dermatofibrosarcoma protuberans** *AMERICAN JOURNAL OF SURGICAL PATHOLOGY*  
West, R. B., Harvell, J., Linn, S. C., Lui, C. L., Prapong, W., Hernandez-Boussard, T., Montgomery, K., Nielsen, T. O., Rubin, B. P., Patel, R., Goldblum, J. R., Brown, P. O., van de Rijn, et al  
2004; 28 (8): 1063-1069
- **The novel marker, DOG1, is expressed ubiquitously in gastrointestinal stromal tumors irrespective of KIT or PDGFRA mutation status** *AMERICAN JOURNAL OF PATHOLOGY*  
West, R. B., Corless, C. L., Chen, X., Rubin, B. P., Subramanian, S., Montgomery, K., Zhu, S., Ball, C. A., Nielsen, T. O., Patel, R., Goldblum, J. R., Brown, P. O., Heinrich, et al  
2004; 165 (1): 107-113
- **Diverse and specific gene expression responses to stresses in cultured human cells** *MOLECULAR BIOLOGY OF THE CELL*  
Murray, J. I., Whitfield, M. L., Trinklein, N. D., Myers, R. M., Brown, P. O., Botstein, D.  
2004; 15 (5): 2361-2374
- **Microarray analysis of allergen-induced immune responses** *Experimental Biology 2004 Annual Meeting*  
Macaubas, C. I., TePas, E., Hoyte, E., Brown, P. O., Botstein, D., Umetsu, D. T.  
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