



Patrick O. Brown

Professor of Biochemistry, Emeritus

 Curriculum Vitae available Online

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)
- Board of Directors, Donald Danforth Plant Science Center, (2023- present)
- Board of Life Sciences, National Academies of Science, Engineering and Medicine, (2025- 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"

LINKS

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

Research & Scholarship

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

- **Depot-specific mRNA expression programs in human adipocytes suggest physiological specialization via distinct developmental programs.** *PloS one*
Clemons, H. J., Hogan, D. J., Brown, P. O.
2024; 19 (10): e0311751
- **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., 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)
- **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
- **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)
- **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 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*
Saeaeef, 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., Saeaeef, 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. R. 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)
- **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
- **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. S. 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.
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., Praopong, 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.
FEDERATION AMER SOC EXP BIOL.2004: A791-A792
- **Presynaptic homeostasis at CNS nerve terminals compensates for lack of a key Ca²⁺ entry pathway** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Piedras-Renteria, E. S., Pyle, J. L., Diehn, M., Glickfeld, L. L., Harata, N. C., Cao, Y. Q., Kavalali, E. T., Brown, P. O., Tsien, R. W.
2004; 101 (10): 3609-3614
- **Cancer characterization and feature set extraction by discriminative margin clustering** *BMC BIOINFORMATICS*
Munagala, K., Tibshirani, R., O Brown, P.
2004; 5
- **Extensive association of functionally and cytologically related mRNAs with Puf family RNA-binding proteins in yeast.** *PLoS biology*
Gerber, A. P., Herschlag, D., Brown, P. O.
2004; 2 (3): E79-?
- **Extensive association of functionally and cytologically related mRNAs with Puf family RNA-binding proteins in yeast** *PLOS BIOLOGY*
Gerber, A. P., Herschlag, D., Brown, P. O.
2004; 2 (3): 342-354
- **Transcriptional remodeling in response to iron deprivation in *Saccharomyces cerevisiae*** *MOLECULAR BIOLOGY OF THE CELL*
Shakoury-Elizeh, M., Tiedeman, J., Rashford, J., Ferea, T., Demeter, J., Garcia, E., Rolfes, R., Brown, P. O., Botstein, D., Philpott, C. C.
2004; 15 (3): 1233-1243
- **Development of an MHC-peptide array for the detection and isolation of antigen-specific T-cells: Applications in bone marrow transplantation for evaluation of T-cell reconstitution, and detection of host reactive and tumor-reactive T-cells** *Tandem BMT 2004 Meeting*
Kraft, D. L., Soen, Y., Chen, D. S., Weissman, I. L., Brown, P. O., DAVIS, M. M.
ELSEVIER SCIENCE INC.2004: 24-24
- **Gene expression signature of fibroblast serum response predicts human cancer progression: Similarities between tumors and wounds** *PLOS BIOLOGY*
Chang, H. Y., Sneddon, J. B., Alizadeh, A. A., Sood, R., West, R. B., Montgomery, K., Chi, J. T., van de Rijn, M., Botstein, D., Brown, P. O.
2004; 2 (2): 206-214
- **Gene expression in the normal adult human kidney assessed by complementary DNA microarray** *MOLECULAR BIOLOGY OF THE CELL*
Higgins, J. P., Wang, L. L., Kambham, N., Montgomery, K., Mason, V., Vogelmann, S. U., Lemley, K. V., Brown, P. O., Brooks, J. D., van de Rijn, M.
2004; 15 (2): 649-656
- **Gene expression signature of fibroblast serum response predicts human cancer progression: similarities between tumors and wounds.** *PLoS biology*
Chang, H. Y., Sneddon, J. B., Alizadeh, A. A., Sood, R., West, R. B., Montgomery, K., Chi, J., van de Rijn, M., Botstein, D., Brown, P. O.
2004; 2 (2): E7-?
- **Gene expression profiling identifies clinically relevant subtypes of prostate cancer** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*

Lapointe, J., Li, C., Higgins, J. P., van de Rijn, M., Bair, E., Montgomery, K., Ferrari, M., Egevad, L., Rayford, W., Bergerheim, U., Ekman, P., DeMarzo, A. M., Tibshirani, et al
2004; 101 (3): 811-816

- **Genomic transcriptional response to loss of chromosomal supercoiling in *Escherichia coli*** *GENOME BIOLOGY*
Peter, B. J., Arsuaga, J., Breier, A. M., Khodursky, A. B., Brown, P. O., Cozzarelli, N. R.
2004; 5 (11)
- **Central carbon metabolism genes that predict disease-free survival in hormone receptor negative tumors.** *27th Annual San Antonio Breast Cancer Symposium*
Funari, V. A., Tibshirani, R., Ji, Y., Nicolau, M., Carlson, R. W., Brown, P. O., Noh, D. Y., Jeffrey, S. S.
SPRINGER.2004: S115–S115
- **Genome-wide analysis of mRNA lengths in *Saccharomyces cerevisiae*** *GENOME BIOLOGY*
Hurowitz, E. H., Brown, P. O.
2004; 5 (1)
- **PLoS Medicine - a medical journal for the internet age** *PLoS Medicine*
Eisen MB, Brown PO, Varmus HE
2004; 1 (1): e31
- **Detection and characterization of cellular immune responses using peptide-MHC microarrays** *PLOS BIOLOGY*
Soen, Y., Chen, D. S., Kraft, D. L., Davis, M. M., Brown, P. O.
2003; 1 (3): 429-438
- **Detection and characterization of cellular immune responses using peptide-MHC microarrays.** *PLoS biology*
Soen, Y., Chen, D. S., Kraft, D. L., Davis, M. M., Brown, P. O.
2003; 1 (3): E65-?
- **Gene expression patterns and gene copy number changes in dermatofibrosarcoma protuberans** *AMERICAN JOURNAL OF PATHOLOGY*
Linn, S. C., West, R. B., Pollack, J. R., Zhu, S., Hernandez-Boussard, T., Nielsen, T. O., Rubin, B. P., Patel, R., Goldblum, J. R., Siegmund, D., Botstein, D., Brown, P. O., Gilks, et al
2003; 163 (6): 2383-2395
- **Determination of the global gene expression response to L-asparaginase (L-asp) in acute lymphoblastic leukemia (ALL) cell lines and clinical samples.** *45th Annual Meeting and Exhibition of the American-Society-of-Hematology*
Fine, B. M., Ho, M., Kaspers, G. J., Loonen, A. H., Brown, P. O., Boxer, L. M.
AMER SOC HEMATOLOGY.2003: 138A–138A
- **Gene expression profiling of cyclical thrombocytopenia.**
Sood, R., Gourley, E. J., Schrier, S. L., Brown, P. O., Zehnder, J. L.
AMER SOC HEMATOLOGY.2003: 789A
- **Gene expression patterns in human embryonic stem cells and human pluripotent germ cell tumors** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Sperger, J. M., Chen, X., Draper, J. S., Antosiewicz, J. E., Chon, C. H., Jones, S. B., Brooks, J. D., Andrews, P. W., Brown, P. O., Thomson, J. A.
2003; 100 (23): 13350-13355
- **Gene expression patterns in ovarian carcinomas** *MOLECULAR BIOLOGY OF THE CELL*
Schaner, M. E., Ross, D. T., Ciaravino, G., Sorlie, T., Troyanskaya, O., Diehn, M., Wang, Y. C., Duran, G. E., Sikic, T. L., Caldeira, S., Skomedal, H., Tu, I. P., Hernandez-Boussard, et al
2003; 14 (11): 4376-4386
- **T cell receptor-independent basal signaling via Erk and Abl kinases suppresses RAG gene expression** *PLOS BIOLOGY*
Roose, J. P., Diehn, M., Tomlinson, M. G., Lin, J., Alizadeh, A. A., Botstein, D., Brown, P. O., Weiss, A.
2003; 1 (2): 271-287
- **T cell receptor-independent basal signaling via Erk and Abl kinases suppresses RAG gene expression.** *PLoS biology*
Roose, J. P., Diehn, M., Tomlinson, M. G., Lin, J., Alizadeh, A. A., Botstein, D., Brown, P. O., Weiss, A.
2003; 1 (2): E53-?

- **Systemic and cell type-specific gene expression patterns in scleroderma skin** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Whitfield, M. L., Finlay, D. R., Murray, J. I., Troyanskaya, O. G., Chi, J. T., Pergamenschikov, A., McCalmont, T. H., Brown, P. O., Botstein, D., Connolly, M. K.
2003; 100 (21): 12319-12324
- **Tissue microarray validation of epidermal growth factor receptor and SALL2 in synovial sarcoma with comparison to tumors of similar histology** *AMERICAN JOURNAL OF PATHOLOGY*
Nielsen, T. O., Hsu, F. D., O'Connell, J. X., Gilks, C. B., Sorensen, P. H., Linn, S., West, R. B., Liu, C. L., Botstein, D., Brown, P. O., van de Rijn, M.
2003; 163 (4): 1449-1456
- **Why PLoS became a publisher.** *PLoS biology*
Brown, P. O., Eisen, M. B., Varmus, H. E.
2003; 1 (1): E36-?
- **Widespread cytoplasmic mRNA transport in yeast: Identification of 22 bud-localized transcripts using DNA microarray analysis** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Shepard, K. A., Gerber, A. P., Jambhekar, A., Takizawa, P. A., Brown, P. O., Herschlag, D., DeRisi, J. L., Vale, R. D.
2003; 100 (20): 11429-11434
- **Endothelial cell diversity revealed by global expression profiling** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Chi, J. T., Chang, H. Y., Haraldsen, G., Jahnsen, F. L., Troyanskaya, O. G., Chang, D. S., Wang, Z., Rockson, S. G., van de Rijn, M., Botstein, D., Brown, P. O.
2003; 100 (19): 10623-10628
- **Variation in gene expression patterns in human gastric cancers** *MOLECULAR BIOLOGY OF THE CELL*
Chen, X., Leung, S. Y., Yuen, S. T., Chu, K. M., Ji, J. F., Li, R., Chan, A. S., Law, S., Troyanskaya, O. G., Wong, J., So, S., Botstein, D., Brown, et al
2003; 14 (8): 3208-3215
- **Repeated observation of breast tumor subtypes in independent gene expression data sets** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Sorlie, T., Tibshirani, R., Parker, J., Hastie, T., Marron, J. S., Nobel, A., Deng, S., Johnsen, H., Pesich, R., Geisler, S., Demeter, J., Perou, C. M., Lonning, et al
2003; 100 (14): 8418-8423
- **Genomewide demarcation of RNA polymerase II transcription units revealed by physical fractionation of chromatin** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Nagy, P. L., Cleary, M. L., Brown, P. O., Lieb, J. D.
2003; 100 (11): 6364-6369
- **Genomewide view of gene silencing by small interfering RNAs** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Chi, J. T., Chang, H. Y., Wang, N. N., Chang, D. S., Dunphy, N., Brown, P. O.
2003; 100 (11): 6343-6346
- **Genome-wide analysis of mRNA translation profiles in *Saccharomyces cerevisiae*** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Arava, Y., Wang, Y. L., Storey, J. D., Liu, C. L., Brown, P. O., Herschlag, D.
2003; 100 (7): 3889-3894
- **Exploration of global gene expression patterns in pancreatic adenocarcinoma using cDNA microarrays** *AMERICAN JOURNAL OF PATHOLOGY*
Iacobuzio-Donahue, C. A., Maitra, A., Olsen, M., Lowe, A. W., van Heek, N. T., Rosty, C., Walter, K., Sato, N., Parker, A., Ashfaq, R., Jaffee, E., Ryu, B., Jones, et al
2003; 162 (4): 1151-1162
- **Generalized singular value decomposition for comparative analysis of genome-scale expression data sets of two different organisms** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Alter, O., Brown, P. O., Botstein, D.
2003; 100 (6): 3351-3356

- **Variation in gene expression patterns in follicular lymphoma and the response to rituximab** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Bohen, S. P., Troyanskaya, O. G., Alter, O., Warnke, R., Botstein, D., Brown, P. O., Levy, R.
2003; 100 (4): 1926-1930
- **Individuality and variation in gene expression patterns in human blood** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Whitney, A. R., Diehn, M., Popper, S. J., Alizadeh, A. A., Boldrick, J. C., Relman, D. A., Brown, P. O.
2003; 100 (4): 1896-1901
- **The Stanford Microarray Database: data access and quality assessment tools** *NUCLEIC ACIDS RESEARCH*
Gollub, J., Ball, C. A., Binkley, G., Demeter, J., Finkelstein, D. B., Hebert, J. M., Hernandez-Boussard, T., Jin, H., Kaloper, M., Matese, J. C., Schroeder, M., Brown, P. O., Botstein, et al
2003; 31 (1): 94-96
- **Array-based comparative genomic hybridization (ACGH) of dermatofibrosarcoma protuberans (DFSP) on cDNA micorarrays using DNA isolated from fresh frozen and paraffin embedded tissue** *92nd Annual Meeting of the United-States-and-Canadian-Academy-of-Pathology*
Jensen, K., West, R. B., Zhu, S. X., Linn, S. C., Nielsen, T. O., Goldblum, J. R., Patel, R., Rubin, B. P., Botstein, D., BROWN, P., Pollack, J., Gilks, B., van de Rijn, et al
NATURE PUBLISHING GROUP.2003: 15A-15A
- **A gene-expression program reflecting the innate immune response of cultured intestinal epithelial cells to infection by *Listeria monocytogenes*** *GENOME BIOLOGY*
Baldwin, D. N., Vanchinathan, V., Brown, P. O., Theriot, J. A.
2003; 4 (1)
- **SOURCE: a unified genomic resource of functional annotations, ontologies, and gene expression data** *NUCLEIC ACIDS RESEARCH*
Diehn, M., Sherlock, G., Binkley, G., Jin, H., Matese, J. C., Hernandez-Boussard, T., Rees, C. A., Cherry, J. M., Botstein, D., Brown, P. O., Alizadeh, A. A.
2003; 31 (1): 219-223
- **Genome-wide analysis of mRNA lengths in *Saccharomyces cerevisiae***. *Genome biology*
Hurowitz, E. H., Brown, P. O.
2003; 5 (1): R2-?
- **Differential gene-expression patterns in genital fibroblasts of normal males and 46,XY females with androgen insensitivity syndrome: evidence for early programming involving the androgen receptor** *GENOME BIOLOGY*
Holterhus, P. M., Hiort, O., Demeter, J., Brown, P. O., Brooks, J. D.
2003; 4 (6)
- **Novel gene FLJ10261 in gastrointestinal stromal tumors** *92nd Annual Meeting of the United-States-and-Canadian-Academy-of-Pathology*
West, R. B., Linn, S. C., Nielsen, T. O., Montgomery, K., Goldblum, J. R., Patel, R., Rubin, B. P., BROWN, P., Botstein, D., van de Rijn, M.
NATURE PUBLISHING GROUP.2003: 20A-20A
- **Array-based comparative genomic hybridization (ACGH) of dermatofibrosarcoma protuberans (DFSP) on cDNA micorarrays using DNA isolated from fresh frozen and paraffin embedded tissue** *92nd Annual Meeting of the United-States-and-Canadian-Academy-of-Pathology*
Jensen, K., West, R. B., Zhu, S. X., Linn, S. C., Nielsen, T. O., Goldblum, J. R., Patel, R., Rubin, B. P., Botstein, D., BROWN, P., Pollack, J., Gilks, B., van de Rijn, et al
NATURE PUBLISHING GROUP.2003: 15A-15A
- **Expression profiling of fibromatosis by cDNA gene array analysis** *92nd Annual Meeting of the United-States-and-Canadian-Academy-of-Pathology*
Cheng, L., West, R. B., Zhu, S., Linn, S. C., Nielsen, T. O., Goldblum, J. R., Patel, R., Rubin, B. P., BROWN, P., Botstein, D., van de Rijn, M.
NATURE PUBLISHING GROUP.2003: 10A-10A
- **Phospholipase A2 group IIA expression in gastric adenocarcinoma is associated with prolonged survival and less frequent metastasis** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Leung, S. Y., Chen, X., Chu, K. M., Yuen, S. T., Mathy, J., Ji, J. F., Chan, A. S., Li, R., Law, S., Troyanskaya, O. G., Tu, I. P., Wong, J., So, et al
2002; 99 (25): 16203-16208
- **Characteristic genome rearrangements in experimental evolution of *Saccharomyces cerevisiae*** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*

- Dunham, M. J., Badrane, H., Ferea, T., Adams, J., Brown, P. O., Rosenzweig, F., Botstein, D.
2002; 99 (25): 16144-16149
- **Expression of cytokeratins 17 and 5 identifies a group of breast carcinomas with poor clinical outcome** *AMERICAN JOURNAL OF PATHOLOGY*
van de Rijn, M., Perou, C. M., Tibshirani, R., Haas, P., Kallioniemi, C., Kononen, J., Torhorst, J., Sauter, G., Zuber, M., Kochli, O. R., Mross, F., Dieterich, H., Seitz, et al
2002; 161 (6): 1991-1996
 - **Gene expression profiling of breast carcinomas.** *25th San Antonio Breast Cancer Symposium*
Langerod, A., Zhao, H., Ji, Y., Bukholm, I. R., BROWN, P., Botstein, D., Borresen-Dale, A. L., JEFFREY, S.
SPRINGER.2002: S101-S101
 - **Nonparametric methods for identifying differentially expressed genes in microarray data** *BIOINFORMATICS*
Troyanskaya, O. G., Garber, M. E., Brown, P. O., Botstein, D., Altman, R. B.
2002; 18 (11): 1454-1461
 - **Genome-wide analysis of epithelial cell polarization** *42nd Annual Meeting of the American-Society-for-Cell-Biology*
Saaf, A. M., Halbleib, J. M., Nelson, J. W., Brown, P. O.
AMER SOC CELL BIOLOGY.2002: 135A-135A
 - **Adaptation to famine: A family of stationary-phase genes revealed by microarray analysis** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Tani, T. H., Khodursky, A., Blumenthal, R. M., Brown, P. O., Matthews, R. G.
2002; 99 (21): 13471-13476
 - **Microarray analysis reveals a major direct role of DNA copy number alteration in the transcriptional program of human breast tumors** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Pollack, J. R., Sorlie, T., Perou, C. M., Rees, C. A., Jeffrey, S. S., Lonning, P. E., Tibshirani, R., Botstein, D., Borresen-Dale, A. L., Brown, P. O.
2002; 99 (20): 12963-12968
 - **Diversity, topographic differentiation, and positional memory in human fibroblasts** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Chang, H. Y., Chi, J. T., Dudoit, S., Bondre, C., van de Rijn, M., Botstein, D., Brown, P. O.
2002; 99 (20): 12877-12882
 - **Public-access group supports PubMed Central** *NATURE*
Eisen, M. B., Brown, P. O., Varmus, H. E.
2002; 419 (6903): 111-111
 - **Genomic expression programs and the integration of the CD28 costimulatory signal in T cell activation** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Diehn, M., Alizadeh, A. A., Rando, O. J., Liu, C. L., Stankunas, K., Botstein, D., Crabtree, G. R., Brown, P. O.
2002; 99 (18): 11796-11801
 - **Genome-wide analysis of gene expression regulated by the calcineurin/Crz1p signaling pathway in *Saccharomyces cerevisiae*** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Yoshimoto, H., Saltsman, K., Gasch, A. P., Li, H. X., Ogawa, N., Botstein, D., Brown, P. O., Cyert, M. S.
2002; 277 (34): 31079-31088
 - **A transcriptional response to Wnt protein in human embryonic carcinoma cells.** *BMC developmental biology*
Willert, J., Epping, M., Pollack, J. R., Brown, P. O., Nusse, R.
2002; 2: 8-?
 - **Microarray analysis of leukocyte gene expression in Hepatitis C patients treated with interferon-alpha**
He, X. S., Ji, X. H., Cheung, R., Cooper, S., Brown, P., Greenberg, H.
W B SAUNDERS CO.2002: 79
 - **Transformation of follicular lymphoma to diffuse large-cell lymphoma: Alternative patterns with increased or decreased expression of c-myc and its regulated genes** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Lossos, I. S., Alizadeh, A. A., Diehn, M., Warnke, R., Thorstenson, Y., Oefner, P. J., Brown, P. O., Botstein, D., Levy, R.

2002; 99 (13): 8886-8891

- **Transcriptional response of human mast cells stimulated via the Fc(epsilon)RI and identification of mast cells as a source of IL-11.** *BMC immunology*
Sayama, K., Diehn, M., Matsuda, K., Lunderius, C., Tsai, M., Tam, S., Botstein, D., Brown, P. O., Galli, S. J.
2002; 3: 5-?
- **Gene expression patterns in human liver cancers** *MOLECULAR BIOLOGY OF THE CELL*
Chen, X., Cheung, S. T., So, S., Fan, S. T., Barry, C., Higgins, J., Lai, K. M., Ji, J. F., Dudoit, S., Ng, I. O., van de Rijn, M., Botstein, D., Brown, et al
2002; 13 (6): 1929-1939
- **Identification of genes periodically expressed in the human cell cycle and their expression in tumors** *MOLECULAR BIOLOGY OF THE CELL*
Whitfield, M. L., Sherlock, G., Saldanha, A. J., Murray, J. I., Ball, C. A., Alexander, K. E., Matese, J. C., Perou, C. M., Hurt, M. M., Brown, P. O., Botstein, D.
2002; 13 (6): 1977-2000
- **Precision and functional specificity in mRNA decay** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Wang, Y. L., Liu, C. L., Storey, J. D., Tibshirani, R. J., Herschlag, D., Brown, P. O.
2002; 99 (9): 5860-5865
- **Molecular characterisation of soft tissue tumours: a gene expression study** *LANCET*
Nielsen, T. O., West, R. B., Linn, S. C., Alter, O., Knowling, M. A., O'Connell, J. X., Zhu, S., Fero, M., Sherlock, G., Pollack, J. R., Brown, P. O., Botstein, D., van de Rijn, et al
2002; 359 (9314): 1301-1307
- **Autoantigen microarrays for multiplex characterization of autoantibody responses** *NATURE MEDICINE*
Robinson, W. H., DiGennaro, C., Hueber, W., Haab, B. B., KAMACHI, M., Dean, E. J., Fournel, S., Fong, D., Genovese, M. C., de Vegvar, H. E., Skriner, K., Hirschberg, D. L., Morris, et al
2002; 8 (3): 295-301
- **In vivo regulation of human skeletal muscle gene expression by thyroid hormone** *GENOME RESEARCH*
Clement, K., Viguerie, N., Diehn, M., Alizadeh, A., Barbe, P., Thalamas, C., Storey, J. D., Brown, P. O., Barsh, G. S., Langin, D.
2002; 12 (2): 281-291
- **Stereotyped and specific gene expression programs in human innate immune responses to bacteria** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Boldrick, J. C., Alizadeh, A. A., Diehn, M., Dudoit, S., Liu, C. L., Belcher, C. E., Botstein, D., Staudt, L. M., Brown, P. O., Relman, D. A.
2002; 99 (2): 972-977
- **Genome-wide mRNA expression profiling of dermatofibrosarcoma protuberans using cDNA microarrays**
Linn, S. C., West, R. B., Zhu, S., Nielsen, T., Goldblum, J. R., Patel, R., Rubin, B. P., Alter, O., Brown, P. O., Botstein, D., van de Rijn, M.
NATURE PUBLISHING GROUP.2002: 18A-18A
- **Transcriptional programs activated by exposure of human prostate cancer cells to androgen** *GENOME BIOLOGY*
DePrimo, S. E., Diehn, M., Nelson, J. B., Reiter, R. E., Matese, J., Fero, M., Tibshirani, R., Brown, P. O., Brooks, J. D.
2002; 3 (7)
- **Distinction between low grade endometrial stromal sarcoma and smooth muscle tumors by cDNA gene array analysis**
West, R. B., Linn, S. C., Nielsen, T., Zhu, S., Longacre, T., Husain, A., Alter, O., Patel, R., Brown, P. O., Botstein, D., Rubin, B. P., Goldblum, J. R., van de Rijn, et al
NATURE PUBLISHING GROUP.2002: 213A-214A
- **Exploration of global gene expression of pancreatic cancer by cDNA microarray analysis**
Iacobuzio-Donahue, C. A., Brown, P. O., Olsen, M., Maitra, A., Walter, K., Jaffe, E., Ryu, B., Jones, J., Yeo, C. J., Cameron, J. L., Goggins, M., Kern, S. E., Hruban, et al
NATURE PUBLISHING GROUP.2002: 287A-287A
- **Software tools for high-throughput analysis and image retrieval of immunohistochemistry stains obtained on tissue microarrays**
Lui, C. L., Natkunam, Y., Prapong, W., Montgomery, K., Botstein, D., Brown, P. O., van de Rijn, M.
NATURE PUBLISHING GROUP.2002: 341A-341A

- **Transcriptional programs activated by exposure of human prostate cancer cells to androgen** *GENOME BIOLOGY*
DePrimo, S. E., Diehn, M., Nelson, J. B., Reiter, R. E., Matese, J., Fero, M., Tibshirani, R., Brown, P. O., Brooks, J. D.
2002; 3 (7)
- **Physical mapping of genes in somatic cell radiation hybrids by comparative genomic hybridization to cDNA microarrays** *GENOME BIOLOGY*
Lin, J. Y., Pollack, J. R., Chou, F., Rees, C. A., Christian, A. T., Bedford, J. S., Brown, P. O., Ginsberg, M. H.
2002; 3 (6)
- **The mRNA expression signature of solitary fibrous tumors**
West, R. B., Linn, S. C., Foxman, E., Neilson, T., Zhu, S., Alter, O., Goldblum, J. R., Patel, R., Rubin, B. P., Brown, P. O., Botstein, D., van de Rijn, M.
NATURE PUBLISHING GROUP.2002: 24A–24A
- **Exploratory screening of genes and clusters from microarray experiments** *STATISTICA SINICA*
Tibshirani, R., Hastie, T., Narasimhan, B., Eisen, M., Sherlock, G., Brown, P., Botstein, D.
2002; 12 (1): 47-59
- **Three cell wall mannoproteins facilitate the uptake of iron in *Saccharomyces cerevisiae*** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Protchenko, O., Ferea, T., Rashford, J., Tiedeman, J., Brown, P. O., Botstein, D., Philpott, C. C.
2001; 276 (52): 49244-49250
- **A second iron-regulatory system in yeast independent of Aft1p** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Rutherford, J. C., Jaron, S., Ray, E., Brown, P. O., Winge, D. R.
2001; 98 (25): 14322-14327
- **Relation of gene expression phenotype to immunoglobulin mutation genotype in B cell chronic lymphocytic leukemia** *JOURNAL OF EXPERIMENTAL MEDICINE*
Rosenwald, A., Alizadeh, A. A., Widhopf, G., Simon, R., Davis, R. E., Yu, X., Yang, L. M., Pickeral, O. K., Rassenti, L. Z., Powell, J., Botstein, D., Byrd, J. C., Grever, et al
2001; 194 (11): 1639-1647
- **Comprehensive mutational analysis of the moloney murine leukemia virus envelope protein** *JOURNAL OF VIROLOGY*
Rothenberg, S. M., Olsen, M. N., Laurent, L. C., Crowley, R. A., Brown, P. O.
2001; 75 (23): 11851-11862
- **Diversity of gene expression in adenocarcinoma of the lung** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Garber, M. E., Troyanskaya, O. G., Schluens, K., Petersen, S., Thaessler, Z., Pacyna-Gengelbach, M., van de Rijn, M., Rosen, G. D., Perou, C. M., Whyte, R. I., Altman, R. B., Brown, P. O., Botstein, et al
2001; 98 (24): 13784-13789
- **Transcript profiling of human umbilical vein endothelial cell activation by homocysteine using cDNA microarray.**
Chuang, Y. J., Zheng, G., Ross, D., Brown, P. O., Leung, L. L.
AMER SOC HEMATOLOGY.2001: 246A–246A
- **Microarray gene expression patterns in myelodysplastic syndrome.**
Sridhar, K. J., Ross, D., Brown, P. O., Greenberg, P. L.
AMER SOC HEMATOLOGY.2001: 63A
- **Acute lymphoblastic leukemia cell lines with different chromosomal translocations have distinct patterns of gene expression.**
Fine, B. M., Brown, P. O., Boxer, L. M.
AMER SOC HEMATOLOGY.2001: 305A–305A
- **RERG is a novel ras-related, estrogen-regulated and growth-inhibitory gene in breast cancer** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Finlin, B. S., Gau, C. L., Murphy, G. A., Shao, H. P., Kimel, T., Seitz, R. S., Chiu, Y. F., Botstein, D., Brown, P. O., Tamanoi, F., Andres, D. A., Perou, C. M.
2001; 276 (45): 42259-42267
- **Universal human and mouse reference RNA for microarrays**
Novoradovskaya, N., Perou, C., Pesich, R., Aprelikova, O., Sotiriou, C., Fero, M., Brown, P., Botstein, D., Braman, J.

AMER SOC CELL BIOLOGY.2001: 98A

- **Haa1, a protein homologous to the copper-regulated transcription factor Ace1, is a novel transcriptional activator** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Keller, G., Ray, E., Brown, P. O., Winge, D. R.
2001; 276 (42): 38697-38702
- **Genomic expression responses to DNA-damaging agents and the regulatory role of the yeast ATR homolog Mec1p** *MOLECULAR BIOLOGY OF THE CELL*
Gasch, A. P., Huang, M. X., Metzner, S., Botstein, D., Elledge, S. J., Brown, P. O.
2001; 12 (10): 2987-3003
- **Gene expression patterns of breast carcinomas distinguish tumor subclasses with clinical implications** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Sorlie, T., Perou, C. M., Tibshirani, R., Aas, T., Geisler, S., Johnsen, H., Hastie, T., Eisen, M. B., van de Rijn, M., Jeffrey, S. S., Thorsen, T., Quist, H., Matese, et al
2001; 98 (19): 10869-10874
- **Microarrays in primary breast cancer - lessons from chemotherapy studies** *4th International Forum on Current Topics in Breast Cancer Research*
Lonning, P. E., Sorlie, T., Perou, C. M., Brown, P. O., Botstein, D., Borresen-Dale, A. L.
BIOSCIENTIFICA LTD.2001: 259-63
- **Regulation of CSF1 promoter by the SWI/SNF-like BAF complex** *CELL*
Liu, R., Liu, H., Chen, X., Kirby, M., Brown, P. O., Zhao, K. J.
2001; 106 (3): 309-318
- **Promoter-specific binding of Rap1 revealed by genome-wide maps of protein-DNA association** *NATURE GENETICS*
Lieb, J. D., Liu, X. L., Botstein, D., Brown, P. O.
2001; 28 (4): 327-334
- **Use of cDNA microarrays to analyze dioxin-induced changes in human liver gene expression** *TOXICOLOGY LETTERS*
Frueh, F. W., Hayashibara, K. C., Brown, P. O., Whitlock, J. P.
2001; 122 (3): 189-203
- **Missing value estimation methods for DNA microarrays** *BIOINFORMATICS*
Troyanskaya, O., Cantor, M., Sherlock, G., BROWN, P., Hastie, T., Tibshirani, R., Botstein, D., Altman, R. B.
2001; 17 (6): 520-525
- **Comparative gene expression profiles following UV exposure in wild-type and SOS-deficient Escherichia coli** *GENETICS*
Courcelle, J., Khodursky, A., Peter, B., Brown, P. O., Hanawalt, P. C.
2001; 158 (1): 41-64
- **Comparative genome-scale analysis of gene expression profiles in T cell lymphoma cells during malignant progression using a complementary DNA microarray** *AMERICAN JOURNAL OF PATHOLOGY*
Li, S. Y., Ross, D. T., Kadin, M. E., Brown, P. O., Wasik, M. A.
2001; 158 (4): 1231-1237
- **Information access - Building a "GenBank" of the published literature** *SCIENCE*
Roberts, R. J., Varmus, H. E., Ashburner, M., Brown, P. O., Eisen, M. B., Khosla, C., Kirschner, M., Nusse, R., Scott, M., Wold, B.
2001; 291 (5512): 2318-2319
- **The transcriptional program in human mast cells stimulated via the Fc[epsilon]RI: New insights into the immunological functions of mast cells in allergic inflammation.**
Tsai, M., Sayama, K., Diehn, M., Zehnder, J., Jones, C., Botstein, D., Brown, P. O., GALLI, S. J.
FEDERATION AMER SOC EXP BIOL.2001: A1020-A1020
- **Protein array characterization of the specificity of the autoantibody response in experimental autoimmune encephalomyelitis: Examination of the role of epitope spreading in disease progression**
Robinson, W. H., DiGennaro, C., Garren, H., Hirschberg, D., Haab, B., Brown, P., Utz, P. J., Steinman, L.
FEDERATION AMER SOC EXP BIOL.2001: A1064

- **Delineating developmental and metabolic pathways in vivo by expression profiling using the RIKEN set of 18,816 full-length enriched mouse cDNA arrays** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Miki, R., Kadota, K., Bono, H., Mizuno, Y., Tomaru, Y., Carninci, P., Itoh, M., Shibata, K., Kawai, J., Konno, H., Watanabe, S., Sato, K., Tokusumi, et al
2001; 98 (5): 2199-2204
- **Global and specific translational regulation in the genomic response of *Saccharomyces cerevisiae* to a rapid transfer from a fermentable to a nonfermentable carbon source** *MOLECULAR AND CELLULAR BIOLOGY*
Kuhn, K. M., DeRisi, J. L., Brown, P. O., Sarnow, P.
2001; 21 (3): 916-927
- **Genomic analysis of renal allograft dysfunction using cDNA microarrays** *18th World Congress of the Transplantation-Society*
Sarwal, M., Chang, S., Barry, C., Chen, X., Alizadeh, A., Salvatierra, O., BROWN, P.
ELSEVIER SCIENCE INC.2001: 297-98
- **Role of thioredoxin reductase in the Yap1p-dependent response to oxidative stress in *Saccharomyces cerevisiae*** *MOLECULAR MICROBIOLOGY*
Carmel-Harel, O., Stearman, R., Gasch, A. P., Botstein, D., Brown, P. O., Storz, G.
2001; 39 (3): 595-605
- **Genomic binding sites of the yeast cell-cycle transcription factors SBF and MBF** *NATURE*
Iyer, V. R., Horak, C. E., Scafe, C. S., Botstein, D., Snyder, M., Brown, P. O.
2001; 409 (6819): 533-538
- **Protein microarrays for highly parallel detection and quantitation of specific proteins and antibodies in complex solutions** *GENOME BIOLOGY*
Haab, B. B., Dunham, M. J., Brown, P. O.
2001; 2 (2)
- **The Stanford Microarray Database** *NUCLEIC ACIDS RESEARCH*
Sherlock, G., Hernandez-Boussard, T., Kasarskis, A., Binkley, G., Matese, J. C., Dwight, S. S., Kaloper, M., Weng, S., Jin, H., Ball, C. A., Eisen, M. B., Spellman, P. T., Brown, et al
2001; 29 (1): 152-155
- **Supervised harvesting of expression trees** *GENOME BIOLOGY*
Hastie, T., Tibshirani, R., Botstein, D., Brown, P.
2001; 2 (1)
- **Visualizing associations between genome sequences and gene expression data using genome-mean expression profiles.** *Bioinformatics*
Chiang, D. Y., Brown, P. O., Eisen, M. B.
2001; 17: S49-55
- **Visualizing associations between genome sequences and gene expression data using genome-mean expression profiles.** *Bioinformatics*
Chiang, D. Y., Brown, P. O., Eisen, M. B.
2001; 17: S49-55
- **Coordinate regulation of yeast ribosomal protein genes is associated with targeted recruitment of Esa1 histone acetylase** *MOLECULAR CELL*
Reid, J. L., Iyer, V. R., Brown, P. O., Struhl, K.
2000; 6 (6): 1297-1307
- **Microarray analysis of chromosome structure during replication in *Escherichia coli***
Peter, B. J., Khodursky, A. B., Brown, P. O., Cozzarelli, N. R.
AMER SOC CELL BIOLOGY.2000: 438A
- **Genomic expression programs in the response of yeast cells to environmental changes** *MOLECULAR BIOLOGY OF THE CELL*
Gasch, A. P., Spellman, P. T., Kao, C. M., Carmel-Harel, O., Eisen, M. B., Storz, G., Botstein, D., Brown, P. O.
2000; 11 (12): 4241-4257
- **New components of a system for phosphate accumulation and polyphosphate metabolism in *Saccharomyces cerevisiae* revealed by genomic expression analysis** *MOLECULAR BIOLOGY OF THE CELL*
Ogawa, N., DeRisi, J., Brown, P. O.

2000; 11 (12): 4309-4321

- **DNA microarray analysis of gene expression in response to physiological and genetic changes that affect tryptophan metabolism in *Escherichia coli*** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Khodursky, A. B., Peter, B. J., Cozzarelli, N. R., Botstein, D., Brown, P. O., Yanofsky, C.
2000; 97 (22): 12170-12175
- **Identification of the copper regulon in *Saccharomyces cerevisiae* by DNA microarrays** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Gross, C., Kelleher, M., Iyer, V. R., Brown, P. O., Winge, D. R.
2000; 275 (41): 32310-32316
- **Global mapping of meiotic recombination hotspots and coldspots in the yeast *Saccharomyces cerevisiae*** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Gerton, J. L., DeRisi, J., Shroff, R., Lichten, M., Brown, P. O., Petes, T. D.
2000; 97 (21): 11383-11390
- **Genome-wide study of human hepatocellular carcinoma with 23K cDNA microarray.**
Chen, X., Cheung, S., Barry, C., Fan, S., Lai, K. M., Ji, J. F., Prapong, W., Botstein, D., Brown, P. O., So, S.
WILEY-BLACKWELL.2000: 324A-324A
- **Ongoing immunoglobulin somatic mutation in germinal center B cell-like but not in activated B cell-like diffuse large cell lymphomas** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Lossos, I. S., Alizadeh, A. A., Eisen, M. B., Chan, W. C., Brown, P. O., Botstein, D., Staudt, L. M., Levy, R.
2000; 97 (18): 10209-10213
- **Singular value decomposition for genome-wide expression data processing and modeling** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Alter, O., Brown, P. O., Botstein, D.
2000; 97 (18): 10101-10106
- **Molecular portraits of human breast tumours** *NATURE*
Perou, C. M., Sorlie, T., Eisen, M. B., van de Rijn, M., Jeffrey, S. S., Rees, C. A., Pollack, J. R., Ross, D. T., Johnsen, H., Akslen, L. A., Fluge, O., Pergamenschikov, A., Williams, et al
2000; 406 (6797): 747-752
- **Analysis of topoisomerase function in bacterial replication fork movement: Use of DNA microarrays** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Khodursky, A. B., Peter, B. J., Schmidt, M. B., DeRisi, J., Botstein, D., Brown, P. O., Cozzarelli, N. R.
2000; 97 (17): 9419-9424
- **Two yeast forkhead genes regulate the cell cycle and pseudohyphal growth** *NATURE*
Zhu, G. F., Spellman, P. T., Volpe, T., Brown, P. O., Botstein, D., Davis, T. N., Futcher, B.
2000; 406 (6791): 90-94
- **Genome-wide characterization of the Zap1p zinc-responsive regulon in yeast** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Lyons, T. J., Gasch, A. P., Gaither, L. A., Botstein, D., Brown, P. O., Eide, D. J.
2000; 97 (14): 7957-7962
- **Exploring gene expression signatures of host responses to infection**
Boldrick, J. C., Belcher, C. E., Alizadeh, A. A., Liu, C. L., Diehn, M., Brown, P. O., Relman, D. A.
OXFORD UNIV PRESS INC.2000: 218-18
- **Examining the living genome in health and disease with DNA microarrays** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*
Diehn, M., Alizadeh, A. A., Brown, P. O.
2000; 283 (17): 2298-2299
- **Large-scale identification of secreted and membrane-associated gene products using DNA microarrays** *NATURE GENETICS*
Diehn, M., Eisen, M. B., Botstein, D., Brown, P. O.
2000; 25 (1): 58-62

- **Desferrioxamine-mediated iron uptake in *Saccharomyces cerevisiae* - Evidence for two pathways of iron uptake** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Yun, C. W., Ferea, T., Rashford, J., Ardon, O., Brown, P. O., Botstein, D., Kaplan, J., Philpott, C. C.
2000; 275 (14): 10709-10715
- **Degradation of proteins from the ER of *S-cerevisiae* requires an intact unfolded protein response pathway** *MOLECULAR CELL*
Casagrande, R., Stern, P., Diehn, M., Shamu, C., Osario, M., Zuniga, M., Brown, P. O., Ploegh, H.
2000; 5 (4): 729-735
- **Whole-genome expression analysis of *snf/swi* mutants of *Saccharomyces cerevisiae*** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Sudarsanam, P., Iyer, V. R., Brown, P. O., Winston, F.
2000; 97 (7): 3364-3369
- **Genome microarray analysis of transcriptional activation in multidrug resistance yeast mutants** *FEBS LETTERS*
DeRisi, J., van den Hazel, B., Marc, P., Balzi, E., BROWN, P., Jacq, C., Goffeau, A.
2000; 470 (2): 156-160
- **Functional characterization of the human immunodeficiency virus type 1 genome by genetic footprinting** *JOURNAL OF VIROLOGY*
Laurent, L. C., Olsen, M. N., Crowley, R. A., Savilahti, H., Brown, P. O.
2000; 74 (6): 2760-2769
- **Systematic variation in gene expression patterns in human cancer cell lines** *NATURE GENETICS*
Ross, D. T., Scherf, U., Eisen, M. B., Perou, C. M., Rees, C., Spellman, P., Iyer, V., Jeffrey, S. S., van de Rijn, M., Waltham, M., Pergamenschikov, A., Lee, J. C., Lashkari, et al
2000; 24 (3): 227-235
- **A gene expression database for the molecular pharmacology of cancer** *NATURE GENETICS*
Scherf, U., Ross, D. T., Waltham, M., Smith, L. H., Lee, J. K., Tanabe, L., Kohn, K. W., Reinhold, W. C., Myers, T. G., Andrews, D. T., Scudiero, D. A., Eisen, M. B., SAUSVILLE, et al
2000; 24 (3): 236-244
- **Distinct types of diffuse large B-cell lymphoma identified by gene expression profiling** *NATURE*
Alizadeh, A. A., Eisen, M. B., Davis, R. E., Ma, C., Lossos, I. S., Rosenwald, A., Boldrick, J. G., Sabet, H., Tran, T., Yu, X., Powell, J. I., Yang, L. M., Marti, et al
2000; 403 (6769): 503-511
- **Genomic views of the immune system** *ANNUAL REVIEW OF IMMUNOLOGY*
Staudt, L. M., Brown, P. O.
2000; 18: 829-859
- **Protein microarrays for highly parallel detection and quantitation of specific proteins and antibodies in complex solutions** *GENOME BIOLOGY*
Haab, B. B., Dunham, M. J., Brown, P. O.
2000; 1 (6)
- **Shotgun DNA microarrays and stage-specific gene expression in *Plasmodium falciparum* malaria** *MOLECULAR MICROBIOLOGY*
Hayward, R. E., DeRisi, J. L., Alfadhli, S., Kaslow, D. C., Brown, P. O., Rathod, P. K.
2000; 35 (1): 6-14
- **Arrest, adaptation, and recovery following a chromosome double-strand break in *Saccharomyces cerevisiae*** *Cold Spring Harbor Symposium on Quantitative Biology*
Lee, S. E., Pellicoli, A., Demeter, J., Vaze, M. P., Gasch, A. P., Malkova, A., Brown, P. O., Botstein, D., Stearns, T., Foiani, M., Haber, J. E.
COLD SPRING HARBOR LAB PRESS, PUBLICATIONS DEPT.2000: 303-314
- **Identification of clinically distinct types of diffuse large B-cell lymphoma based on gene expression patterns.** *Nature*
Brown, P.O., Alizadeh, A., Eisen, M.B., Davis, R.E., Ma, C., Rosenwald, A., Sherlock, G., Boldrick, J.C., Sabet, H., Tran, T., Yu, X., Powell, J.I., Yang, et al
2000: 503-511
- **'Gene shaving' as a method for identifying distinct sets of genes with similar expression patterns.** *Genome biology*

- Hastie, T., Tibshirani, R., Eisen, M. B., Alizadeh, A., Levy, R., Staudt, L., Chan, W. C., Botstein, D., BROWN, P.
2000; 1 (2): RESEARCH0003-?
- **Observing the living genome** *CURRENT OPINION IN GENETICS & DEVELOPMENT*
Ferea, T. L., Brown, P. O.
1999; 9 (6): 715-722
 - **Stereospecificity of reactions catalyzed by HIV-1 integrase** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Gerton, J. L., Herschlag, D., Brown, P. O.
1999; 274 (47): 33480-33487
 - **Anti-apoptosis is a prominent response of endothelial cells to inflammatory cytokine stimulation.**
Zheng, Z., Ross, D. T., Brown, P. O., Leung, L. L.
AMER SOC HEMATOLOGY.1999: 226A-226A
 - **Gene expression in large B-cell lymphoma using cDNA microarray technology.**
Chan, W. C., Alizadeh, A., Eisen, M., Davis, R. E., Ma, C., Sabet, H., Tran, T., Powell, J. I., Yang, L., Greiner, T. C., Weisenburger, D. D., Armitage, J. O., Marti, et al
AMER SOC HEMATOLOGY.1999: 698A-698A
 - **Identification of eukaryotic mRNAs that are translated at reduced cap binding complex eIF4F concentrations using a cDNA microarray** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Johannes, G., Carter, M. S., Eisen, M. B., Brown, P. O., Sarnow, P.
1999; 96 (23): 13118-13123
 - **Zap1**
Lyons, T. J., Gasch, A., Brown, P., Botstein, D., Eide, D.
AMER SOC CELL BIOLOGY.1999: 269A
 - **Genome-wide patterns of gene expression in cancer**
Botstein, D., Brown, P. O.
AMER SOC CELL BIOLOGY.1999: 1A
 - **Exploring drug-induced alterations in gene expression in Mycobacterium tuberculosis by microarray hybridization** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Wilson, W., DeRisi, J., Kristensen, H. H., Imboden, P., Rane, S., Brown, P. O., SCHOOLNIK, G. K.
1999; 96 (22): 12833-12838
 - **Analysis of differential gene expression at the response of human liver cells to hepatitis C virus core protein expression**
An, S., Kawai, H., Berry, C., Feinstone, S. M., He, X. S., Brown, P. O., Greenberg, H. B.
WILEY-BLACKWELL.1999: 512A-512A
 - **Genome-wide analysis of DNA copy-number changes using cDNA microarrays** *NATURE GENETICS*
Pollack, J. R., Perou, C. M., Alizadeh, A. A., Eisen, M. B., Pergamenschikov, A., Williams, C. F., Jeffrey, S. S., Botstein, D., Brown, P. O.
1999; 23 (1): 41-46
 - **Systematic changes in gene expression patterns following adaptive evolution in yeast** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Ferea, T. L., Botstein, D., Brown, P. O., Rosenzweig, R. F.
1999; 96 (17): 9721-9726
 - **Distinctive gene expression patterns in human mammary epithelial cells and breast cancers** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Perou, C. M., Jeffrey, S. S., van de Rijn, M., Rees, C. A., Eisen, M. B., Ross, D. T., Pergamenschikov, A., Williams, C. F., Zhu, S. X., Lee, J. C., Lashkari, D., Shalon, D., Brown, et al
1999; 96 (16): 9212-9217
 - **Quantitative monitoring of gene expression during endothelial cell activation using a cDNA microarray**
Zheng, Z., Ross, D., Lashkari, D., Shalon, D., Brown, P. O., Leung, L. L.
SCHATTAUER GMBH-VERLAG MEDIZIN NATURWISSENSCHAFTEN.1999: 205-205

- **Genomic analysis of hepatitis C virus infection using dna microarrays.**
Barry, C. T., He, X. S., Greenberg, H. B., Brown, P. O.
LIPPINCOTT WILLIAMS & WILKINS.1999: S581–S581
- **Analysis of host viral interactions in CMV infection using DNA microarrays.**
Barry, C. T., Watanabe, S., Mocarski, E. S., Brown, P. O.
LIPPINCOTT WILLIAMS & WILKINS.1999: S611–S611
- **Transduction of human progenitor hematopoietic stem cells by human immunodeficiency virus type 1-based vectors is cell cycle dependent** *JOURNAL OF VIROLOGY*
Sutton, R. E., Reitsma, M. J., Uchida, N., Brown, P. O.
1999; 73 (5): 3649-3660
- **Genomic tools to analyze metabolism**
Kao, C. M., Botstein, D., Brown, P. O.
FEDERATION AMER SOC EXP BIOL.1999: A1334–A1334
- **Genomic analysis of human hepatocellular carcinoma gene expression using cDNA microarrays.**
Barry, C. T., MILLAN, M., Monge, H., Esquivel, C., BROWN, P., So, S.
LIPPINCOTT WILLIAMS & WILKINS.1999: S142–S142
- **Genome-wide characterization of NF-01 kappa B target genes in human epithelial cells via high density cDNA microarrays**
Hinata, K., Barry, C., BROWN, P., Khavari, P.
NATURE PUBLISHING GROUP.1999: 637–37
- **Analysis of human basal cell carcinoma gene expression at a genomic scale via cDNA microarrays**
Fan, H., Barry, C. T., Baek, S. C., Lin, Q., Brown, P. O., Khavari, P. A.
NATURE PUBLISHING GROUP.1999: 528–28
- **MYCN and neuroblastoma in transgenic mice**
Weiss, W. A., Brown, P. O., Francisco, C., Godfrey, T., Milshteyn, N., Pollack, J., Wade, J., Yee, G., Zhu, J., BISHOP, J. M.
NATURE PUBLISHING GROUP.1999: 154A–154A
- **Genomic analysis of human squamous cell carcinoma gene expression via cDNA microarrays**
Fan, H., Barry, C., Lin, Q., Baek, S., BROWN, P., Khavari, P.
NATURE PUBLISHING GROUP.1999: 558–58
- **cDNA microarray screening for genes differentially expressed in keratinocyte stem cell enriched populations**
Freiberg, R., Barry, C., Fang, M., Alvarez-Saavedra, E., Robbins, P., BROWN, P., Khavari, P.
NATURE PUBLISHING GROUP.1999: 560–60
- **Identification of new keratinocyte differentiation candidates genes by a genome-wide screening approach**
Freiberg, R., Barry, C., BROWN, P., Khavari, P.
NATURE PUBLISHING GROUP.1999: 624–24
- **Combining SSH and cDNA microarrays for rapid identification of differentially expressed genes** *NUCLEIC ACIDS RESEARCH*
Yang, G. P., Ross, D. T., Kuang, W. W., Brown, P. O., Weigel, R. J.
1999; 27 (6): 1517-1523
- **Mediator protein mutations that selectively abolish activated transcription** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Myers, L. C., Gustafsson, C. M., Hayashibara, K. C., Brown, P. O., Kornberg, R. D.
1999; 96 (1): 67-72
- **DNA arrays for analysis of gene expression** *CDNA PREPARATION AND CHARACTERIZATION*
Eisen, M. B., Brown, P. O.
1999; 303: 179-205
- **The transcriptional program in the response of human fibroblasts to serum** *SCIENCE*

- Iyer, V. R., Eisen, M. B., Ross, D. T., Schuler, G., Moore, T., Lee, J. C., Trent, J. M., Staudt, L. M., Hudson, J., Boguski, M. S., Lashkari, D., Shalon, D., Botstein, et al
1999; 283 (5398): 83-87
- **Exploring the new world of the genome with DNA microarrays** *NATURE GENETICS*
Brown, P. O., Botstein, D.
1999; 21: 33-37
 - **The lymphochip: A specialized cDNA microarray for the genomic-scale analysis of gene expression in normal and malignant lymphocytes** *64th Symposia: Signaling and Gene Expression in the Immune System*
Alizadeh, A., Eisen, M., Davis, R. E., Ma, C., Sabet, H., Tran, T., Powell, J. I., Yang, L., Marti, G. E., Moore, D. T., Hudson, J. R., Chan, W. C., Greiner, et al
COLD SPRING HARBOR LAB PRESS, PUBLICATIONS DEPT.1999: 71-78
 - **Cluster analysis and display of genome-wide expression patterns** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Eisen, M. B., Spellman, P. T., Brown, P. O., Botstein, D.
1998; 95 (25): 14863-14868
 - **Characterization of three related glucose repressors and genes they regulate in *Saccharomyces cerevisiae*** *GENETICS*
Lutfiyya, L. L., Iyer, V. R., DeRisi, J., DeVit, M. J., Brown, P. O., Johnston, M.
1998; 150 (4): 1377-1391
 - **Comprehensive identification of cell cycle-regulated genes of the yeast *Saccharomyces cerevisiae* by microarray hybridization** *MOLECULAR BIOLOGY OF THE CELL*
Spellman, P. T., Sherlock, G., Zhang, M. Q., Iyer, V. R., Anders, K., Eisen, M. B., Brown, P. O., Botstein, D., Futcher, B.
1998; 9 (12): 3273-3297
 - **Drug target validation and identification of secondary drug target effects using DNA microarrays** *NATURE MEDICINE*
Marton, M. J., DeRisi, J. L., Bennett, H. A., Iyer, V. R., Meyer, M. R., Roberts, C. J., Stoughton, R., Burchard, J., Slade, D., Dai, H. Y., Bassett, D. E., Hartwell, L. H., Brown, et al
1998; 4 (11): 1293-1301
 - **Identification of cell cycle regulated genes in yeast by DNA microarray hybridization**
Spellman, P. T., Sherlock, G., Futcher, B., Brown, P. O., Botstein, D.
AMER SOC CELL BIOLOGY.1998: 371A
 - **Probing lymphocyte biology by genomic-scale gene expression analysis** *JOURNAL OF CLINICAL IMMUNOLOGY*
Alizadeh, A., Eisen, M., Botstein, D., Brown, P. O., Staudt, L. M.
1998; 18 (6): 373-379
 - **The transcriptional program of sporulation in budding yeast** *SCIENCE*
Chu, S., DeRisi, J., Eisen, M., Mulholland, J., Botstein, D., Brown, P. O., Herskowitz, I.
1998; 282 (5389): 699-705
 - **Human immunodeficiency virus type 1 vectors efficiently transduce human hematopoietic stem cells** *JOURNAL OF VIROLOGY*
Sutton, R. E., Wu, H. T., Rigg, R., Bohnlein, E., Brown, P. O.
1998; 72 (7): 5781-5788
 - **Supramolecular organization of immature and mature murine leukemia virus revealed by electron cryo-microscopy: Implications for retroviral assembly mechanisms** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Yeager, M., Wilson-Kubalek, E. M., Weiner, S. G., Brown, P. O., Rein, A.
1998; 95 (13): 7299-7304
 - **Effects of mutations in residues near the active site of human immunodeficiency virus type 1 integrase on specific enzyme-substrate interactions** *JOURNAL OF VIROLOGY*
Gerton, J. L., Ohgi, S., Olsen, M., DeRisi, J., Brown, P. O.
1998; 72 (6): 5046-5055
 - **Photo-cross-linking studies suggest a model for the architecture of an active human immunodeficiency virus type 1 integrase-DNA complex** *BIOCHEMISTRY*

- Heuer, T. S., Brown, P. O.
1998; 37 (19): 6667-6678
- **Genomics and human disease - variations on variation** *NATURE GENETICS*
Brown, P. O., Hartwell, L.
1998; 18 (2): 91-93
 - **Supramolecular organization of immature and mature murine leukemia virus revealed by electron cryo-microscopy: Implications for retroviral assembly mechanisms**
Yeager, M., Wilson-Kubalek, E. M., Weiner, S. G., Brown, P. O., Rein, A.
BIOPHYSICAL SOCIETY.1998: A72
 - **Enrichment for loci identical-by-descent between pairs of mouse or human genomes by genomic mismatch scanning** *GENOMICS*
McAllister, L., Penland, L., Brown, P. O.
1998; 47 (1): 7-11
 - **Yeast microarrays for genome wide parallel genetic and gene expression analysis** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
LASHKARI, D. A., DeRisi, J. L., McCusker, J. H., Namath, A. F., Gentile, C., Hwang, S. Y., Brown, P. O., Davis, R. W.
1997; 94 (24): 13057-13062
 - **Quantitative monitoring of gene expression during endothelial cell activation using a cDNA microarray.**
Zheng, Z., Ross, D., Perales, S., Lashkari, D., Shalon, D., Brown, P. O., Leung, L. L.
AMER SOC HEMATOLOGY.1997: 1263-63
 - **Use of cDNA microarray technology to analyze gene expression in a myeloid cell line expressing the APL-specific fusion PML-RAR alpha.**
Slack, J. L., Ross, D. T., Lashkari, D., Shalon, D., Stanley, L., Yu, M., Brown, P. O.
AMER SOC HEMATOLOGY.1997: 1432-32
 - **Exploring the metabolic and genetic control of gene expression on a genomic scale** *SCIENCE*
DeRisi, J. L., Iyer, V. R., Brown, P. O.
1997; 278 (5338): 680-686
 - **The core domain of HIV-1 integrase recognizes key features of its DNA substrates** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Gerton, J. L., Brown, P. O.
1997; 272 (41): 25809-25815
 - **DNA microarrays and Genomic Mismatch Scanning: New genetic tools**
McAllister, L., Penland, L., Hayashibara, K., Brown, P. O.
UNIV CHICAGO PRESS.1997: A239
 - **Mapping features of HIV-1 integrase near selected sites on viral and target DNA molecules in an active enzyme-DNA complex by photo-cross-linking** *BIOCHEMISTRY*
Heuer, T. S., Brown, P. O.
1997; 36 (35): 10655-10665
 - **High-resolution functional mapping of a cloned gene by genetic footprinting** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Singh, I. R., Crowley, R. A., Brown, P. O.
1997; 94 (4): 1304-1309
 - **3'-end processing and kinetics of 5'-end joining during retroviral integration in vivo** *JOURNAL OF VIROLOGY*
Roe, T., Chow, S. A., Brown, P. O.
1997; 71 (2): 1334-1340
 - **Disruption of the terminal base pairs of retroviral DNA during integration** *Cold Spring Harbor Retroviruses Meeting*
SCOTTOLINE, B. P., Chow, S., Ellison, V., Brown, P. O.
COLD SPRING HARBOR LAB PRESS.1997: 371-82
 - **Use of microgenomic technology for analysis of alterations in DNA copy number and gene expression in malignant melanoma** *CLINICAL AND EXPERIMENTAL IMMUNOLOGY*

- Trent, J. M., Bittner, M. H., Zhang, J., Wiltshire, R., Ray, M., Su, Y., Gracia, E., MELTZER, P., DeRisi, J., Penland, L., BROWN, P.
1997; 107: 33-40
- **Functional analysis of the genes of yeast chromosome V by genetic footprinting** *SCIENCE*
Smith, V., Chou, K. N., Lashkari, D., Botstein, D., Brown, P. O.
1996; 274 (5295): 2069-2074
 - **Use of a cDNA microarray to analyse gene expression patterns in human cancer** *NATURE GENETICS*
DeRisi, J., Penland, L., Brown, P. O., Bittner, M. L., Meltzer, P. S., Ray, M., Chen, Y. D., Su, Y. A., Trent, J. M.
1996; 14 (4): 457-460
 - **Parallel human genome analysis: Microarray-based expression monitoring of 1000 genes** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Schena, M., Shalon, D., Heller, R., Chai, A., Brown, P. O., Davis, R. W.
1996; 93 (20): 10614-10619
 - **A DNA microarray system for analyzing complex DNA samples using two-color fluorescent probe hybridization** *GENOME RESEARCH*
Shalon, D., Smith, S. J., Brown, P. O.
1996; 6 (7): 639-645
 - **Monoclonal antibodies against human immunodeficiency virus type 1 integrase: Epitope mapping and differential effects on integrase activities in vitro** *JOURNAL OF VIROLOGY*
Nilsen, B. M., Haugan, I. R., Berg, K., Olsen, L., Brown, P. O., Helland, D. E.
1996; 70 (3): 1580-1587
 - **QUANTITATIVE MONITORING OF GENE-EXPRESSION PATTERNS WITH A COMPLEMENTARY-DNA MICROARRAY** *SCIENCE*
Schena, M., Shalon, D., Davis, R. W., Brown, P. O.
1995; 270 (5235): 467-470
 - **GENETIC FOOTPRINTING - A GENOMIC STRATEGY FOR DETERMINING A GENES FUNCTION GIVEN ITS SEQUENCE** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Smith, V., Botstein, D., Brown, P. O.
1995; 92 (14): 6479-6483
 - **STATISTICAL-METHODS FOR LINKAGE ANALYSIS OF COMPLEX TRAITS FROM HIGH-RESOLUTION MAPS OF IDENTITY BY DESCENT** *GENETICS*
Dupuis, J., Brown, P. O., Siegmund, D.
1995; 140 (2): 843-856
 - **AN ESSENTIAL INTERACTION BETWEEN DISTINCT DOMAINS OF HIV-1 INTEGRASE MEDIATES ASSEMBLY OF THE ACTIVE MULTIMER** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Ellison, V., Gerton, J., Vincent, K. A., Brown, P. O.
1995; 270 (7): 3320-3326
 - **CHARACTERIZATION OF RECOMBINANT MURINE LEUKEMIA-VIRUS INTEGRASE** *JOURNAL OF VIROLOGY*
Dotan, I., SCOTTOLINE, B. P., Heuer, T. S., Brown, P. O.
1995; 69 (1): 456-468
 - **JUXTAPOSITION OF 2 VIRAL-DNA ENDS IN A BIMOLECULAR DISINTEGRATION REACTION MEDIATED BY MULTIMERS OF HUMAN-IMMUNODEFICIENCY-VIRUS TYPE-1 OR MURINE LEUKEMIA-VIRUS INTEGRASE** *JOURNAL OF VIROLOGY*
Chow, S. A., Brown, P. O.
1994; 68 (12): 7869-7878
 - **2-DIMENSIONAL CRYSTALLIZATION OF HISTIDINE-TAGGED, HIV-1 REVERSE-TRANSCRIPTASE PROMOTED BY A NOVEL NICKEL-CHELATING LIPID** *JOURNAL OF STRUCTURAL BIOLOGY*
KUBALEK, E. W., LeGrice, S. F., Brown, P. O.
1994; 113 (2): 117-123
 - **DNA STRAND EXCHANGE AND SELECTIVE DNA ANNEALING PROMOTED BY THE HUMAN-IMMUNODEFICIENCY-VIRUS TYPE-1 NUCLEOCAPSID PROTEIN** *JOURNAL OF VIROLOGY*
Tsuchihashi, Z., Brown, P. O.

1994; 68 (9): 5863-5870

- **A STABLE COMPLEX BETWEEN INTEGRASE AND VIRAL-DNA ENDS MEDIATES HUMAN-IMMUNODEFICIENCY-VIRUS INTEGRATION IN-VITRO** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Ellison, V., Brown, P. O.
1994; 91 (15): 7316-7320
- **SUBSTRATE FEATURES IMPORTANT FOR RECOGNITION AND CATALYSIS BY HUMAN-IMMUNODEFICIENCY-VIRUS TYPE-1 INTEGRASE IDENTIFIED BY USING NOVEL DNA SUBSTRATES** *JOURNAL OF VIROLOGY*
Chow, S. A., Brown, P. O.
1994; 68 (6): 3896-3907
- **Genome scanning methods.** *Current opinion in genetics & development*
Brown, P. O.
1994; 4 (3): 366-373
- **GAUSSIAN MODELS FOR GENETIC-LINKAGE ANALYSIS USING COMPLETE HIGH-RESOLUTION MAPS OF IDENTITY BY DESCENT** *AMERICAN JOURNAL OF HUMAN GENETICS*
Feingold, E., Brown, P. O., Siegmund, D.
1993; 53 (1): 234-251
- **INTEGRATION OF MURINE LEUKEMIA-VIRUS DNA DEPENDS ON MITOSIS** *EMBO JOURNAL*
ROE, T. Y., Reynolds, T. C., Yu, G., Brown, P. O.
1993; 12 (5): 2099-2108
- **GENOMIC MISMATCH SCANNING - A NEW APPROACH TO GENETIC-LINKAGE MAPPING** *NATURE GENETICS*
Nelson, S. F., McCusker, J. H., SANDER, M. A., Kee, Y., Modrich, P., Brown, P. O.
1993; 4 (1): 11-18
- **CHARACTERIZATION OF HUMAN-IMMUNODEFICIENCY-VIRUS TYPE-1 INTEGRASE EXPRESSED IN ESCHERICHIA-COLI AND ANALYSIS OF VARIANTS WITH AMINO-TERMINAL MUTATIONS** *JOURNAL OF VIROLOGY*
Vincent, K. A., Ellison, V., Chow, S. A., Brown, P. O.
1993; 67 (1): 425-437
- **SEQUENCE REQUIREMENTS FOR EFFICIENT TRANSLATIONAL FRAMESHIFTING IN THE ESCHERICHIA-COLI-DNAX GENE AND THE ROLE OF AN UNSTABLE INTERACTION BETWEEN TRANSFER RNA(LYS) AND AN AAG LYSINE CODON** *GENES & DEVELOPMENT*
Tsuchihashi, Z., Brown, P. O.
1992; 6 (3): 511-519
- **REVERSAL OF INTEGRATION AND DNA SPLICING MEDIATED BY INTEGRASE OF HUMAN-IMMUNODEFICIENCY-VIRUS** *SCIENCE*
Chow, S. A., Vincent, K. A., Ellison, V., Brown, P. O.
1992; 255 (5045): 723-726
- **INS AND OUTS OF RETROVIRAL INTEGRATION**
BROWN, P., Chow, S., Dotan, I., Ellison, V., Reynolds, T., Roe, T., SCOTTOLINE, B., Vincent, K., Yu, G.
FEDERATION AMER SOC EXP BIOL.1992: A140-A140
- **HOST SEQUENCES FLANKING THE HIV PROVIRUS** *NUCLEIC ACIDS RESEARCH*
Vincent, K. A., YORKHIGGINS, D., Quiroga, M., Brown, P. O.
1990; 18 (20): 6045-6047
- **HUMAN-IMMUNODEFICIENCY-VIRUS INTEGRATION IN A CELL-FREE SYSTEM** *JOURNAL OF VIROLOGY*
Ellison, V., Abrams, H., ROE, T. Y., Lifson, J., BROWN, P.
1990; 64 (6): 2711-2715
- **INTEGRATION OF RETROVIRAL DNA** *CURRENT TOPICS IN MICROBIOLOGY AND IMMUNOLOGY*
Brown, P. O.
1990; 157: 19-48
- **RETROVIRAL INTEGRATION - STRUCTURE OF THE INITIAL COVALENT PRODUCT AND ITS PRECURSOR, AND A ROLE FOR THE VIRAL IN PROTEIN** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*

Brown, P. O., Bowerman, B., Varmus, H. E., BISHOP, J. M.
1989; 86 (8): 2525-2529

● **A NUCLEOPROTEIN COMPLEX MEDIATES THE INTEGRATION OF RETROVIRAL DNA** *GENES & DEVELOPMENT*

Bowerman, B., Brown, P. O., BISHOP, J. M., Varmus, H. E.
1989; 3 (4): 469-478

● **CORRECT INTEGRATION OF RETROVIRAL DNA INVITRO** *CELL*

Brown, P. O., Bowerman, B., Varmus, H. E., BISHOP, J. M.
1987; 49 (3): 347-356

● **CATENATION AND KNOTTING OF DUPLEX DNA BY TYPE-1 TOPOISOMERASES - A MECHANISTIC PARALLEL WITH TYPE-2 TOPOISOMERASES** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA-BIOLOGICAL SCIENCES*

Brown, P. O., Cozzarelli, N. R.
1981; 78 (2): 843-847

● **STRUCTURE AND ACTIVITIES OF ESCHERICHIA-COLI DNA-GYRASE** *COLD SPRING HARBOR SYMPOSIA ON QUANTITATIVE BIOLOGY*

Peebles, C. L., Higgins, N. P., Kreuzer, K. N., Morrison, A., Brown, P. O., Sugino, A., Cozzarelli, N. R.
1979; 43: 41-52

● **TOPOISOMERASE FROM ESCHERICHIA-COLI RELATED TO DNA GYRASE** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*

Brown, P. O., Peebles, C. L., Cozzarelli, N. R.
1979; 76 (12): 6110-6114

● **SIGN INVERSION MECHANISM FOR ENZYMATIC SUPERCOILING OF DNA** *SCIENCE*

Brown, P. O., Cozzarelli, N. R.
1979; 206 (4422): 1081-1083

● **ENERGY COUPLING IN DNA GYRASE AND MECHANISM OF ACTION OF NOVOBIOCIN** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*

Sugino, A., Higgins, N. P., Brown, P. O., Peebles, C. L., Cozzarelli, N. R.
1978; 75 (10): 4838-4842