

## *Curriculum vitae*

**Name:** J. Michael Cherry

**Address:** Department of Genetics  
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**Date of Birth:** December 23, 1955

**Place of Birth:** Union City, Tennessee, USA

### **Education:**

1979	B.S.	Purdue University (Biological Sciences with Honors)
1979	B.S.	Purdue University (Biochemistry)
1985	Ph.D.	University of California, Berkeley (Molecular Biology). Advisor: Elizabeth Blackburn. Thesis title: Internally Located Telomeric Sequences in the Micronucleus of <i>Tetrahymena thermophila</i> .

### **Postdoctoral Training:**

1985-1988	Research Fellow, Department of Molecular Biology, Massachusetts General Hospital, Boston. In the laboratory of Jack Szostak I worked on modeling the 3D structure of group I self-splicing introns.
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### **Academic Appointments:**

1985-1988	Research Fellow in Genetics, Harvard University. Research Associate in Genetics, Harvard University.
1991-1993	Research Associate in Genetics, Harvard University.
2001-	Associate Professor (Research) in Genetics, Stanford University

### **Positions:**

1988-1993	Director of Computing, Molecular Biology. Massachusetts General Hospital.
1991-1993	Project Leader, AAtDB (An <i>Arabidopsis thaliana</i> Database). Massachusetts General Hospital. PI: Howard Goodman, Harvard University
1993-1996	Head, Computing. Stanford DNA Sequence & Technology Center, Stanford University. PI: Ron Davis, Stanford University. NIH Sequencing Center.
1995-1999	Principal Investigator, <i>Arabidopsis thaliana</i> Database, NSF to Stanford University.
1998-2000	Director, Stanford Microarray Database. NCI to Stanford University, with supplemental funds from several other sources.
1993 -2001	Chief Curator & Director, <i>Saccharomyces</i> Genome Database, Stanford University. PI: David Botstein, Stanford University. NIH National Resource.

1999 -2001 co- Investigator, A Functional Analysis of the *Arabidopsis* Genome via Gene Disruption and Global Gene Expression Analysis, NSF to Carnegie Institution. PI: Pam Green, Michigan State University

2001 - co- Investigator, Gene Ontology Consortium, NIH to Jackson Labs. PI: Judy Blake

2001- Principle Investigator, *Saccharomyces* Genome Database

2002- co- Investigator, Genetics Exhibit Development and Support, NIH to The Tech Museum of Innovation, San Jose. PI: Tom Keating

2003- co- Investigator, Tetrahymena Genome Database, NIH to TIGR. PI: Jonathan Eisen

**Awards and Honors:**

Singleton Award and Lecture, 1979, Department of Biological Sciences, Purdue University.

**Meeting and Workshop Organization:**

BAMBCT. Boston Area monthly meeting of Molecular Biology software developers and computing support managers. Boston, Massachusetts. Founder and Organizer: 1990-1993

ACEDB '93. Workshop for ACEDB Developers and Database Curators. Boston, Massachusetts. July 1993

Computational Tools & Resources Workshop. Plant Genome II. San Diego, California. January 1994

Computational Tools & Resources Workshop. Plant Genome III. San Diego, California. January 1995

ACEDB '95. Workshop for ACEDB Developers and Database Curators. Geyserville, California. May 1995

Computational Tools & Resources Workshop. Plant Genome IV. San Diego, California. January 1996

Genomic Computing Techniques & Applications Workshop. Plant & Animal Genome V. San Diego, California. January 1997

Advances in Genome Biology and Technology, Marco Island, Florida -- Microarray Session. February 2001.

MGED3: The Third International Meeting on Microarray Data Standards, Annotations, Ontologies and Databases. Host and Organizer. Stanford University, March 2001.

Gene Ontology Users & Consortium Meeting. Host and Organizer. Stanford University, January 2004.

International Yeast Genetics & Molecular Biology, Editor Abstract submission and Abstract Book, Göteborg, Sweden, July 2003.

**Committees:**

*Arabidopsis* Genome Initiative (AGI), member advisory committee, International *Arabidopsis* systematic sequencing. 1998-2000

*Arabidopsis* Annotation Project, NSF grant to The Institute for Genomic Research (TIGR). Member Advisory Committee. 1999-2001

The *Arabidopsis* Information Resource (TAIR), NSF grant to the Carnegie Institution of Washington, Department of Plant Biology. Member Advisory Committee. 1999-2002

Mouse Neuroscience Steering Committee. NIH NIMH. 2000-present

Rat Genome Database, Chair, Member Advisory Committee, 2000-2003

MGED – Microarray Standards – Member Steering Committee, 2000-2001

Pseudomonas-Plant Genomics, Member Advisory Committee, NSF, 2000-present

WormDB, Caenorhabditis community database, Member Advisory Committee, NIH, 2002-present

Genetic Interaction map of yeast. Advisory Committee to Jef Boeke, The Johns Hopkins University, Baltimore, MD, March 2003.

DictyBase, Dictyostelium discoideum community database. PI: Rex Chisholm. Member Advisory Committee. 2003-present

The Blueprint Initiative, PI: Chris Hogue, Toronto, Canada. Member of Scientific Advisory Group. 2003 -- present

TIGR Rice Genome Annotation Project, Member Advisory Committee to Robin Buell. 2004-present

EcoCyc Project at SRI. Member Advisory Committee to Peter Karp. 2004-present

Medicago Genome Sequencing, funding by NSF. Member Advisory Committee to Nevin Young at University of Minnesota. 2004-present

**Review Participation:**

NCBI Software Technical Review. Bethesda, Maryland. July 1992

SBIR Panel, NIH. Washington DC. March 1994

DOE Special Review Panel, Human Genome Database. Baltimore, Maryland. April 1994

Site Review Panel, NSF Ribosomal Data Base Project. Urbana, Illinois. August 1994

SBIR Panel on Informatics, DOE. Washington DC. September 1994

NCBI Software Technical Review. Bethesda, Maryland. July 1995

DOE Genome Computing Review. Lawrence Berkeley National Laboratory. Berkeley, California. February 1996

External Reviewer for NSF BIR. May 1996

External Reviewer for Plant Genome Research Initiative, USDA. April 1997

External Reviewer for NSF Databases for Biological Applications. April 1997

Plant Genome Program, USDA, National Agriculture Library. Beltsville, Maryland. Chairman of review committee. May 1997

External Reviewer for NSF BIO. April 1998

SBIR Panel, NIH. Washington DC. November 1998

SBIR Panel, NIH. Washington DC. March 1999

Site Visit Panel, NSF Plant Genome Research – Functional Genomics. Raleigh, South Carolina. May 1999

Special Panel for NIH Rat Genome Database. Teleconference. August 1999

Special Panel for NIH Pharmacogenetics. Washington DC. December 1999

Mouse Mutagenesis & Phenotyping, Teleconference. March 2000

National Science Foundation, Plant Functional Genomics Program, March 2000

ISMB program committee; review for the ISMB-2000 meeting, March 2000

SBIR Panel, NIH. Washington DC. November 2000

ISMB program committee; review for the ISMB-2001 meeting, February 2001

Special Panel for NIH sequencing project. Teleconference. April 2001

National Science Foundation, Plant Genome Research Program, April 2001

National Science Foundation, MaizeDB Site visit. April 2001

Functional Genomics of the Interactions of Tomato and Pseudomonas project site visit for NSF. May 2001.

Genome Canada, Bioinformatics Curriculum Review. Vancouver, British Columbia. April 2002.

USDA-ARS, Genome Informatics Review, Greenbelt, MD, January 2003.

NIH Genome Research Resources Committee (GRR), NHGRI standing review committee, 2003 – present.

NIH NIAID, teleconference review, December, 2003.

## Meeting Presentations:

- Genome Sequencing and Analysis. Hilton Head Island, South Carolina. October 1993
- International Conference on Plant Genomic Research – II. San Diego, California. January 1994
- International Congress of Plant Molecular Biology. Amsterdam, The Netherlands. June 1994
- ACEDB Workshop. Montpellier, France. July 1994
- Yeast Genetics & Molecular Biology. Seattle, Washington. August 1994
- International Conference on Plant Genomic Research – III. San Diego, California. January 1995
- Genome Mapping & Sequencing. Cold Spring Harbor Laboratory, New York. May 1995
- ACEDB '95. Geyserville, California. May 1995
- International Yeast Genetics. Lisbon, Portugal. June 1995
- Yeast Cell Biology. Cold Spring Harbor Laboratory, New York. August 1995
- After the Genome. Santa Fe, New Mexico. October 1995
- International Conference on Plant Genomic Research– IV. San Diego, California. January 1996
- FASEB, Chromosome Structure. Snowmass, Colorado. June 1996
- International Conference on Arabidopsis Research. Norwich, United Kingdom. June 1996
- Yeast Genetics and Molecular Biology. Madison, Wisconsin. August 1996
- Celebration of the Yeast Genome. Trieste, Italy. September 1996
- Genome Sequence and Analysis. Hilton Head, South Carolina. October 1996
- After the Genome. Santa Fe, New Mexico. November 1996
- International Conference on Plant & Animal Genomes – V. San Diego, California. January 1997
- Nomenclature Workshop. Bar Harbor, Maine. May 1997
- International Meetings of the American Society of Plant Physiologist, Vancouver, Canada. August 1997
- Yeast Cell Biology, Cold Spring Harbor Laboratory, New York. August 1997
- Genome Informatics: toward an integrated view of genomes. Cahiers de la Fondation Des

Treilles, France. October 1997

*Arabidopsis* Genome. Cold Spring Harbor Laboratory, New York. December 1997

International Conference on *Arabidopsis* Research. Madison, Wisconsin. June 1998

Yeast Genetics & Molecular Biology. College Park, Maryland. August 1998

Genome Sequence and Analysis. Miami Beach, Florida. September 1998

After the Genome. Jackson, Wyoming. October 1998

*Arabidopsis* Genome. Cold Spring Harbor Laboratory, New York. December 1998

NIH Model Organism Database Workshop, Landsdown, Virginia, December 1998

Genome Sequencing and Analysis. Cold Spring Harbor Laboratory, New York. May 1999

Drosophila Annotation Jamboree, Celera Genomics, November, 1999

Cancer Chromosome Aberration Database Workshop, NCI, Bethesda, MD, March 2000

Experimental Biology 2000, Symposium on Bioinformatics. American Physiological Society, San Diego, California, April 2000

Second International Meeting on Microarray Data Standards, Annotations, Ontologies and Databases. DKFZ and EMBL, Heidelberg, Germany. May 2000

Phenotyping the Mouse Nervous System and Behavior. Airlie Conference Center, Warrenton, Virginia. June 2000

Yeast Genetics and Molecular Biology, University of Washington, Seattle. July 2000

ISMB, San Diego. August 2000

Primate Genome Workshop, University of Washington, Seattle. January 2001

Fungal Genomics Initiative Workshop, Alexandria, Virginia, November 2001

Candida Genome Annotation Workshop, Columbia University, NYC, May 2002.

Yeast Genetics and Molecular Biology. Madison, Wisconsin. August 2002

Genome Informatics, Sanger Centre, Hinxton Hall, Cambridge, United Kingdom. September 2002.

International Yeast Genetics & Molecular Biology, Göteborg, Sweden, July 2003.

International Ciliate Molecular Biology, Vermont Academy, Vermont, July 2003.

Human Genome Database Workshop, NIH, Bethesda, MD, September 2003.

## Invited Seminars:

University of California, San Diego, Plant Sciences. La Jolla, California. January 1994

Yeast Genetics Course. Cold Spring Harbor Laboratory, New York. August 1995

San Diego Informatics. San Diego, California. August 1995

Informatics Group. Bar Harbor, Maine. February 1996

*Arabidopsis* Course. Cold Spring Harbor Laboratory, New York. July 1996

DOE/NIH Genome Informatics, Washington, DC. April 1998

*Arabidopsis* Course, Cold Spring Harbor Laboratory, New York. July 1998

Washington University, St. Louis, Department of Genetics. St. Louis, Missouri. March 1999

University of Georgia, Plant Biology Retreat, Athens, Georgia. May 1999

University of Arizona, Department of Genetics. Tucson, Arizona. October 1999

*Drosophila* Annotation Jamboree, Celera Genomics, Inc., Rockville, Maryland, November 1999

National Research Council, Bioinformatics Workshop, Washington, D.C., February 2000

FEBS Meeting, San Diego. Genomics Session, May 2000.

University of Florida, Gainesville, Florida, September 2000

CSHL Computational Genomics course, W. Pearson and R. Smith instructors. October 2000

Salk Institute for Biological Studies, Genetics Group. February, 2001.

University of California, Riverside. Genetics Retreat -- keynote speaker. April 2001.

Whitehead Institute/MIT, Cambridge, Massachusetts, May 2002.

University of New Mexico, Albuquerque, NM, October 2002.

University of Colorado, Boulder. Genomics Symposium, November 2002.

E. coli Database Workshop, Bethesda, MD, March 2003.

Frontiers in Mathematical Biology and Bioinformatics. Auburn University, May 2004.

**Editorial:**

*YEAST* (the journal), Database Editor. 1994-present

*Plant Molecular Biology*, Associate Editor. 1999-2003

Reviewer for *Genetics*. 1998

Reviewer for *Nucleic Acids Research*. 1998, 1999, 2000, 2002, 2003, 2004

Reviewer for *Genome Research*. 1997, 1998, 1999, 2000, 2001, 2003, 2004

Reviewer for *Bioinformatics*. 1999, 2001, 2002, 2003

## Bibliography

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- 2) **Cherry, J.M.**, Mackellar, W., Moor , D.J., Crane, F.L., Joacobsen, L.B. and Schirmacher, V. (1981) Evidence for a Plasma Membrane Redox System on Intact Ascites Tumor Cells with Different Metastatic Capacity., *Biochim. Biophys. Acta* **634**:11-18
- 3) Blackburn, E.H., Budarf, M.L., Challoner, P.B., **Cherry, J.M.**, Howard, E.A., Katzen, A.L., Pan, W.C., and Ryan, T. (1983) DNA Termini in Ciliate Macronuclei., *Cold Spring Harb. Symp. Quant. Biol.* **47**:1195-1207
- 4) **Cherry, J.M.** and Blackburn, E.H. (1985) The Internally Located Telomeric Sequences in the Germ-Line Chromosomes of *Tetrahymena* are at the Ends of Transposon-like Elements., *Cell* **43**:747-758
- 5) Doudna, J.A., Gerber, A.S., **Cherry, J.M.**, and Szostak, J.W. (1987) Genetic Dissection of an RNA Enzyme., *Cold Spring Harb. Symp. Quant. Biol.* **52**:173-180
- 6) Schultes, N.P., Ellington, A.D., **Cherry, J.M.**, and Szostak, J.W. (1990) *Saccharomyces cerevisiae* homoserine kinase is homologous to prokaryotic homoserine kinases., *Gene* **96**:177-180
- 7) Couture, S., Ellington, A.D., Gerber, A.S., **Cherry, J.M.**, Doudna, J.A., Green, R., Hanna, M., Pace, U., Rajagopal, J., and Szostak, J.W. (1990) Mutational Analysis of Conserved Nucleotides in a Self-splicing Group I Intron., *J. Mol. Biol.* **215**:345-358
- 8) **Cherry, J.M.** (1991) Codon Usage Table for *Xenopus laevis*. *Methods in Cell Biology* **36**:675-677
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- 10) **Cherry, J.M.**, Cartinhour, S.W., and Goodman, H.M. (1992) AAtDB, An Arabidopsis thaliana Database. *Plant Molecular Biology Reporter* **10**: 308-309,409-410
- 11) Cartinhour, S., **Cherry, J.M.**, and Goodman, H.M. (1992) An Introduction to ACEDB: For AAtDB, An Arabidopsis thaliana Database. Massachusetts General Hospital.
- 12) **Cherry, J. Michael** (1993) Internet Network access to the ACeDB Database. *The Worm Breeder's Gazette*. **12**: 10
- 13) Hauge, B.M, Hanley, S.M., Cartinhour, S., **Cherry, J.M.**, Goodman, H.M., Koornneef, M, Stam, P., Chang, C., Kempin, S., Medrano, L. and E.M. Meyerowitz (1993) An integrated genetic/RFLP map of the *Arabidopsis thaliana* genome. *Plant Journal* **3**:745-754
- 14) **Cherry, J.M.** and Cartinhour, S.W. (1994) ACEDB, A tool for biological information, in Automated DNA Sequencing and Analysis, edited by M. Adams, C. Fields, and C. Venter. Academic Press, pages 347-356
- 15) **Cherry, J. M.** (1994) The Internet and Electronic *Arabidopsis* Information Resources, in *Arabidopsis*, edited by E. M. Meyerowitz and C. R. Somerville. Cold Spring Harbor Laboratory Press, pages 1149-1159.

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- 18) Somerville, C., Flanders, D., and **J.M. Cherry** (1997) Plant Biology in the Post-Gutenberg Era. *Plant Physiology* **113**: 1015-1022
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- 27) **Cherry, J.M.**, Adler, C., Ball, C., Chervitz, S.A., Dwight, S.S., Hester, E.T., Jia, Y., Juvik, G., Roe, T., Schroeder, M., Weng, S., and Botstein, D. (1998) SGD - *Saccharomyces* Genome Database. *Nucl. Acids Res.* **26**:73-79
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- 46) Gutierrez, R.A., Ewing, R.M., **Cherry, J.M.** and P.J. Green. (2002) Identification of unstable transcripts in *Arabidopsis* by cDNA microarray analysis: rapid decay is associated with a group of touch- and specific clock-controlled genes. *Proc. Natl. Acad. Sci. U.S.A.* **99**:11513-11518
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