

BIOGRAPHICAL SKETCH

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NAME		POSITION TITLE	
Robert H. Waterston		William H. Gates III Endowed Chair in Biomedical Sciences and Chairman, Dept. of Genome Sciences	
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Princeton University, Princeton, New Jersey	B.S.E.	1965	
University of Chicago, Chicago, Illinois	Ph.D., M.D.	1972	
MRC Laboratory of Molecular Biology, Cambridge, England	Postdoc	1972-74	Genetics
Children's Hospital Medical Center, Boston, Massachusetts	Postdoc	1974-75	Genetics
MRC Laboratory of Molecular Biology, Cambridge, England	Postdoc	1975-76	Genetics

A. Positions and Honors.

1976-1980	Assistant Professor, Department of Anatomy and Neurobiology, Washington University, St. Louis, Missouri
1980-1981	Assistant Professor of Genetics, Washington University School of Medicine
1981-1987	Associate Professor of Genetics, Washington University School of Medicine
1985-1986	Sabbatical Visitor, Director's Division, MRC Laboratory of Molecular Biology, Cambridge, England
1987-1991	Professor of Genetics, Washington University School of Medicine
1991-1993	Professor and Acting Head, Department of Genetics, Washington University School of Medicine
1993-2002	James S. McDonnell Professor and Chairman, Department of Genetics, Washington University School of Medicine
2003-present	William H. Gates III Endowed Chair in Biomedical Sciences and Chairman, Department of Genome Sciences, University of Washington, Seattle, WA
1968-1971	NIH Predoctoral Trainee
1972-1974	American Cancer Society Postdoctoral Fellowship
1975-1976	Muscular Dystrophy Association Postdoctoral Fellowship
1980-1985	American Heart Association Established Investigator
1985-1986	John Simon Guggenheim Fellowship
National Academy of Sciences	Institute of Medicine
American Academy of Arts and Sciences	City of Medicine Award
Beadle Medal, The Genetics Society of America	Gairdner Award, The Gairdner Foundation
Dan David Prize, The Dan David Foundation	
Sigma Xi	
Alpha Omega Alpha	
Genetics Society	
American Society of Cell Biology: STS	
1977, 1983, 1985, 1986	<i>ad hoc</i> member, Molecular Cytology Study Section, National Institutes of Health
1982-1987	Member, Fellowship Review Subcommittee, Muscular Dystrophy Association
1983-	Member, Task Force on Genetics, Muscular Dystrophy Association
1983	<i>ad hoc</i> member of the Molecular Biology Study Section, National Institutes of Health
1985	Member, Organizing Committee, Fourth International <i>C. elegans</i> Meeting, Cold Spring Harbor, New York
1987-1988	Regular member, Molecular Cytology Study Section, National Institutes of Health
1989-1991	Chairman, Molecular Cytology Study Section, National Institutes of Health
1998-2004	Member, National Advisory Council for Human Genome Research, National Institutes of Health
2004-2006	Member, Council of the Institute of Medicine
2004	Liaison to the National Cancer Policy Board for the Council of the Institute of Medicine
2004	Member, National Academies Committee on Intellectual Property in Genomic and Protein Research and Innovation

B. Selected peer-reviewed publications.

Waterston R, Martin C, Craxton M, Huynh C, Coulson A, Hillier L, Durbin R, Green P, Shownkeen R, Halloran N, Metzstein M, Hawkins T, Wilson R, Berks M, Du Z, Thomas K, Thierry-Mieg J, Sulston J: A survey of expressed genes in *Caenorhabditis elegans*. *Nature Genetics* 1992; 1:114-123.

Williams BD, Schrank B, Huynh C, Shownkeen R, Waterston RH: A genetic mapping system in *Caenorhabditis elegans* based on polymorphic sequence-tagged sites. *Genetics* 1992; 131: 609-624.

Green P, Lipman D, Hillier L, Waterston R, States D, Claverie J-M: Ancient conserved regions in new gene sequences and the protein databases. *Science* 1993; 259:1711-1716.

Waterston R, Ainscough R, Anderson K, Berks M, Blair Det al.: The genome of the nematode *Caenorhabditis elegans*. Cold Spring Harbor

- Johnston M, Andrews S, Brinkman R, Cooper J, Ding H *et al.*: Complete nucleotide sequence of *Saccharomyces cerevisiae* chromosome VIII. *Science* 1994; 265: 2077-2081.
- Hodgkin J, Plasterk RHA, Waterston RH: The nematode *Caenorhabditis elegans* and its genome. *Science* 1995; 270:414-414.
- Waterston R, Sulston J: The genome of *Caenorhabditis elegans*. *PNAS* 1995; 92: 10836-10840.
- Jacq C, *et al.*: The nucleotide sequence of *Saccharomyces cerevisiae* chromosome IV. *Nature* 1997; 387: 75-77.
- Johnston M, *et al.*: The nucleotide sequence of *Saccharomyces cerevisiae* chromosome XII. *Nature* 1997; 387: 87-89.
- Bussey H, *et al.*: The nucleotide sequence of *Saccharomyces cerevisiae* chromosome XVI. *Nature* 1997; 387: 103-105.
- The *C. elegans* Genome Sequencing Consortium: Genome sequence of the nematode *Caenorhabditis elegans*: A platform for investigating biology. *Science* 1998; 282: 2012-2018.
- The Sanger Centre and the Washington University Genome Sequencing Center: Toward a complete human genome sequence. *Genome Research* 1998; 8: 1097-1108.
- Waterston R, Sulston JE: The Human Genome Project: reaching the finish line. *Science* 1998; 282(5386): 53-4.
- Marra M, Hillier L, Kucaba T, Allen M, Barstead R, *et al.*: An encyclopedia of mouse genes. *Nature Genetics* 1999; 8: 191-194.
- The *C. elegans* Genome Sequencing Consortium: Washington University Genome Sequencing Center, St. Louis, MO, USA, and The Sanger Centre, Hinxton, UK: How the worm was won: The *C. elegans* genome sequencing project. *Trends in Genetics* 1999; 15: 51-58.
- Marra M, Kucaba T, Sekhon M, Hillier L, Martienssen R, *et al.*: A map for sequence analysis of the *Arabidopsis thaliana* genome. *Nature Genetics* 1999; 22(3): 265-70.
- Dunham I, Hunt AR, Collins JE, Bruskiewich R, Beare DM, *et al.*: The DNA sequence of human chromosome 22. *Nature* 2000; 402 : 489-495.
- The Genome International Sequencing Consortium: Initial sequencing and analysis of the human genome. *Nature* 2001; 409: 860-921.
- The International Human Genome Mapping Consortium: A physical map of the human genome. *Nature* 2001; 409: 934-941.
- The International SNP Map Working Group: A map of human genome sequence variation containing 1.42 million single nucleotide polymorphisms. *Nature* 2001; 409: 928-933.
- Tilford CA, Waguchi TK-W, Skaletsky H, Rozen S, Brown LG, *et al.*: A physical map of the human Y chromosome. *Nature* 2001; 409: 943-945.
- Cliften PF, Hillier LW, Fulton L, Graves T, Miner T, Gish WR, Waterston RH, Johnston M: Surveying *Saccharomyces* genomes to identify functional elements by comparative DNA sequence analysis. *Genome Research* 2001; 11: 1175-1186.
- Shoemaker R, Keim P, Vodkin L, Retzel E, Clifton SW, *et al.*: A compilation of soybean ESTs: generation and analysis. *Genome* 2002; 45: 329-338.
- Mouse Genome Sequencing Consortium: Initial sequencing and comparative analysis of the mouse genome. *Nature* 2002; 420: 520-562.
- Gregory SG, Sekhon M, Schein J, Zhao S, Osoegawa K, *et al.*: A physical map of the mouse genome. *Nature* 2002; 418(6899): 743-50.
- Li L, Brunk BP, Kissinger JC, Pape D, Tang K *et al.*: Gene discovery in the Apicomplexa as revealed by EST sequencing and assembly of a comparative gene database. *Genome Res.* 2003; 13(3): 443-54.
- [Heilig R, Eckenberg R, Petit JL, Fonknechten N, Da Silva C, et al.](#): The DNA sequence and analysis of human chromosome 14. *Nature*. 2003; 421(6923): 601-7.
- Rozen S, Skaletsky H, Marszalek JD, Minx PJ, Cordum HS, Waterston RH, Wilson RK, Page DC: Abundant gene conversion between arms of palindromes in human and ape Y chromosomes. *Nature* 2003; 423(6942): 873-876.
- Skaletsky H, Kuroda-Kawaguchi T, Minx PJ, Cordum HS, Hillier L, *et al.*: The male-specific region of the human Y chromosome is a mosaic of discrete sequence classes. *Nature* 2003; 423(6942): 825-837.
- Cliften P, Sudarsanam P, Desikan A, Fulton L, Fulton B, Majors J, Waterston R, Cohen BA, Johnston M: Finding functional features in *Saccharomyces* genomes by phylogenetic footprinting. *Science* 2003; 301(5629):71-76.
- Waterston RH, Lander ES, Sulston JE: More on the sequencing of the human genome. *Proc Natl Acad Sci USA* 2003; 100(6):3022-3024.
- Hillier LW, Fulton RS, Fulton LA, Graves TA, Pepin KH, *et al.*: The DNA sequence of human chromosome 7. *Nature* 2003; 424(6945):157-64.
- Stein LD, Bao Z, Blasiar D, Blumenthal T, Brent MR, *et al.* The Genome Sequence of *Caenorhabditis briggsae*: A Platform for Comparat Genomics. *PLoS Biol.* 2003 Nov;1(2):E45.
- Mitreva M, McCarter JP, Martin J, Dante M, Wylie T, Chiapelli B, Pape D, Clifton SW, Nutman TB, Waterston RH. Comparative genomics of gene expression in the parasitic and free-living nematodes *Strongyloides stercoralis* and *Caenorhabditis elegans*. *Genome Res.* 2 Feb;14(2):209-20.
- Parkinson J, Mitreva M, Whitton C, Thomson M, Daub J, Martin J, Schmid R, Hall N, Barrell B, Waterston RH, McCarter JP, Blaxter ML. A transcriptomic analysis of the phylum Nematoda. *Nat. Genet.* 2004; 36(12): 1259-67.

C. Research Support.

None