

Curriculum Vitae

Lee M. Silver, Ph.D.

Professor of Molecular Biology & Public Affairs
Princeton University
Princeton, New Jersey 08544-1014 USA

Personal Data

Birth date & city: April 27, 1952; Philadelphia, Pennsylvania USA
Sex: Male
Marital status: Married with three children

Education

1973 B.A., University of Pennsylvania, magna cum lauda with distinction
1973 M.S., University of Pennsylvania, physics
1978 Ph.D., Harvard University, biophysics
1977-1979 Postdoctoral Fellow, Sloan-Kettering Institute for Cancer Research

Professional Positions

1984-pres. Professor at Princeton University
From 1999 Professor, Woodrow Wilson School of Public and International Affairs
Member, The Program in Science, Technology & Environmental Policy
Member, The Center for Research on Health and Wellbeing
Member, The Office of Population Research
From 1992 Professor, Department of Molecular Biology
Member, Princeton Environmental Institute
1992-2002 Member, Program in Neuroscience
1990-1999 Faculty Associate, Department of Ecology and Evolutionary Biology
1987-1992 Associate Professor, Department of Molecular Biology
1984-1987 Assistant Professor, Department of Molecular Biology
1996-1997 Visiting Scientist, Université de Nice, Faculté de Médecine, Nice, France
1989-1990 Visiting Scientist, Institut Pasteur, Paris, France
1982-1984 Assistant Professor of Genetics & Adjunct Assistant Professor of Microbiology,
State University of New York at Stony Brook
1980-1984 Senior Staff Investigator, Cold Spring Harbor Laboratory
1979-1980 Associate at the Sloan-Kettering Institute for Cancer Research
1979-1980 Assistant Professor of Biology, Sloan-Kettering Division, Cornell University
Graduate School of Medical Sciences

Professional Service

- 2000-pres. Scientific Advisory Board, Institute of Systems Biology (Seattle)
- 2000-pres. American Council on Science and Health: Board of Scientific and Policy Advisors
- 2000-2003 Scientific Advisory Board, IDgene (Tel Aviv)
- 1997-pres. The Encyclopedia of Genetics (Academic Press): Associate Editor
- 1994-pres. *Genetics Abstracts*: editorial advisor
- 2000-2002. Scientific Advisory Board, McGraw-Hill Companies trade science program
- 1990-2001 *Mammalian Genome*: co-editor-in-chief
- 1999-2001 Genetics Society of America: Elected Member of the Board of Directors
- 1997-2000 International Committee on Standardized Genetic Nomenclature for Mice: elected member
- 1997-1999 International Mammalian Genome Society: elected member of the Governing Secretariat
- 1997-1998 NIH Mammalian Genetics Study Section: Member
- 1998 Co-chair of the Second Annual Congress on Transgenics and Cloning
- 1990-1996 Mouse Chromosome 17 Committee of the International Mammalian Genome Society: chair
- 1991-1992 NIH Genome Study Section: member
- 1988-1990 Task Force on New Reproductive Practices for the New Jersey State Commission on Legal & Ethical Problems in the Delivery of Health Care: member
- 1987-1990 *Journal of Heredity*: Associate Editor
- 1987 Governor's Scientific Advisory Committee (New Jersey): member
- 1984-1988 American Cancer Society Scientific Advisory Committee on Cell and Developmental Biology: member
- 1984-1987 Genetics Society of America: Meetings and Programs Committee
- 1982 Cold Spring Harbor Laboratory Teratocarcinoma meeting: Co-organizer

Awards and Honors

- 1995-2005 MERIT award by the National Institutes of Health
- 1993 Elected Fellow of the American Association for the Advancement of Science (AAAS)
- 1989-1990 American Cancer Society Scholar
- 1978-1979 Postdoctoral Fellowship from the NIH
- 1977-1978 Postdoctoral Fellowship from the Population Council
- 1975-1977 National Institutes of Health Predoctoral Fellow
- 1973-1975 Harvard University Graduate School Fellowship
- 1972 National Science Foundation Summer Scholarship in Physics at the Bartol Research Foundation, Swarthmore, Pennsylvania

Community Activities

- 1994-1996 Elected to the Princeton Regional Board of Education

Academic Activities

- 2003-2005 Member of the University Committee on Public Lectures (Chair, 2004-2005)
2000-2003 Elected member of the University Committee on Admissions
1998-pres. Faculty Fellow at Forbes College, Princeton University
1994-1996 Elected member of the University Committee on Course of Study
1992-1994 Member, Princeton University Resources Committee
1990-1995 Molecular Biology representative to the DeCamp Committee
1985-1999 Departmental Representative for Molecular Biology.
1986-1993 Faculty Fellow at Mathey College, Princeton University
1990-1991 Chair, Faculty Search Committee in the area of mouse molecular biology
1990-1991 Chair, Pew Committee for the bridge program between Molecular Biology and Ecology and Evolutionary Biology
1991 Lead organizer for the Pew Symposium on Ecology & Molecular Biology, May 17.
1984-2000 Member, Animal Care and Use Committee at Princeton University
1982-1984 Cold Spring Harbor Laboratory representative and Executive Committee member, Graduate Degree Program in Genetics, SUNY, Stony Brook
1981-1984 Director of the Cold Spring Harbor Laboratory Animal Facility
1975-1977 Tutor at Dunster House, Harvard University

Teaching (Princeton University)

- 1999-present WWS 320 Human Genetics, Reproduction, & Public Policy
2003-present MOL 561 Scientific Integrity in the Practice of Molecular Biology,
2002-present WWS 586 Biotechnology Policy
1991-94, 1997 MOL 342 Genetics
1990, 1997 MOL 427 Biotechnology and Society
1989,91,95-99 MOL 560 Mouse Molecular Genetics
1995 FRS 123 Sex, Babies, Genes, and Choices
1992-1994 MOL 507 Developmental Biology
1991 SNR 402 Genetics and Politics in a Brave New World
1985-1988 MOL 421 Mammalian Genetics
1988 WWS Policy Task Force: New Reproductive Technologies Policy Task

Professional Societies

- Genetics Society of America (elected to Board of Directors)
American Society for the Advancement of Science (elected AAAS Fellow)
The International Mammalian Genome Society (founding member & elected to Secretariat)

Invited Lectures, Conference Presentations, Public Lectures (Most recent first)

- 2005 December 6. Global Forum on Civilization and Peace in recognition of the 60th Anniversary of Korean Liberation (Seoul, Korea). Public lecture.
- 2005 November 17. Institute of International Studies at the University of California, Berkeley (Berkeley, CA). University lecture: "Societal responses to emerging biotechnologies in America, Europe, and Asia."
- 2005 October 11. Wesleyan University (Middletown, CT). University lecture: "Challenging Nature: Biotechnology in a Spiritual World."
- 2005 October 6. University of Massachusetts (Amherst, MA). University lecture: "Biotechnology in a Spiritual World."
- 2005 May 8. Happy Chaos Symposium (Amsterdam, Holland). Keynote address: "Biotechnology in a Spiritual World."
- 2005 April 23. Graduate Student Conference sponsored by the American Association for the Advancement of Science, (Washington, D.C.) Keynote address: "Biotechnology in a Spiritual World."
- 2005 April 18. One-on-one debate with Professor William Hurlbut, member of President George W. Bush's Council on Bioethics, held at Princeton University. "The ethics of stem cell research."
- 2005 April 7. One-on-one debate with William Dembski of the Discovery Institute, held at Princeton University. "Intelligent Design, Is it science? No, it isn't."
- 2005 March 7. DeLange Conference on Frontiers in Medicine at Rice University (Houston, Texas). Keynote address: "Biotechnology in a Spiritual World." (click to see slide show)
- 2005 February 25. Western Regional Bioethics Conference at Arizona State University (Phoenix, AZ). Keynote address: "Why do bioethicists disagree?: A sometimes hidden spiritual component."
- 2005 January 30. Gender and Genomics Symposium at UCLA Center for Society and Genetics (Los Angeles, CA). Public lecture: "Sex, God and Unethical Behavior"
- 2005 January 13. Rochester Institute of Technology (Rochester, NY). University lecture: "Biotechnology in a Spiritual World."
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- 2004 December 2. Rutgers University Department of Genetics (New Brunswick, NJ). University lecture: "Ethical considerations in genetic research and technology."
- 2004 October 29. One-on-one "Fight Club" debate hosted by the International Design Society of America. (Pasadena, CA). "Should embryonic stem cell research be funded?"
- 2004 October 28. Choices and Challenges Forum at the Virginia Polytechnical Institute (Blacksburg, VA). University panel discussion and debate.
- 2004 October 13. Law and Science Seminar Series at Amherst College (Amherst, MA). College speaker.
- 2004 October 6. Interdisciplinary Bioethics Program at Yale University (New Haven, CN). University lecture: "Biotechnology in a Spiritual World."
- 2004 September 22. Department of Genome Sciences at the University of Washington (Seattle, WA). Keynote address: "Biotechnology in a Spiritual World."

- 2004 August 17. United Nations University and the Korean National Commission for UNESCO (Seoul, South Korea). Invited lecture.
- 2004 June 10. Panel on Reproductive Technologies hosted by the New York Academy of Sciences (New York, NY). Public lecture and panel discussion.
- 2004 March 31. Pew Forum on Religion and Public Life hosted by the Brookings Institute (Washington, D.C.). Panel lecture and response.
- 2004 March 25. Symposium on Genomics, Health and Society hosted by the Government of Canada (Ottawa, Canada) Invited public speaker.
- 2004 March 15. The 21st Annual Bochner Lecture at Rice University (Houston, Texas). University Lecture: "Biotechnology in a Spiritual World."
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- 2003 November 10. Hillsdale College (Hillsdale, Michigan). Public Lecture.
- 2003 September 7. Institute of Systems Biology (Seattle, Washington). Keynote Speaker.
- 2003 September 6. United States Conference of Catholic Bishops: Bishop's Committee on Science and Human Values.(Washington, D.C.) Invited Speaker.
- 2003 August 11. Roche Genetics Symposium (Zurich, Switzerland). Keynote speaker.
- 2003 July 13. The Sero Symposium on Preimplantation Genetic Diagnosis (Santa Barbara, California). Invited speaker.
- 2003 June 7. The Jones Institute for Reproductive Medicine (Norfolk, Virginia). Keynote Speech.
- 2003 April 26. Institute of Ideas and Battersea Arts Centre Genes & Society Festival (London, England). Invited speaker.
- 2003 April 10. Boston University Conference "The Future of Human Nature." Opening Lecture.
- 2003 April 2. Boston University Great Debate on Reproductive Cloning (broadcast on C-SPAN).
- 2003 March 19. Duke University Center for Human Genetics (Durham, North Carolina). Public Lecture
- 2003 January 7. Santa Clara Law School Symposium on Humaning Cloning (Santa Clara, California). Invited speaker.
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- 2002 June 29. Vail Valley Institute (Vail, Colorado). Symposium on Genetic Engineering. Invited speaker.
- 2002 June 15. Engelsberg Seminar on Consciousness, Genetics, and Society. Stockholm, Sweden. Invited speaker.
- 2002 June 6. Cornell University Genetics Department Retreat. Keynote speaker.
- 2002 April 1. Princeton University Bioethics Forum. "When does human life begin?"
- 2002 March 23. European Academy Otzenhausen (Germany). Colloquium on Evolution. Invited speaker.
- 2002 March 1. Center of Theological Inquiry, Princeton, NJ. Invited speaker
- 2002 February 28. Jackson Laboratory Governing Board (Philadelphia, PA). Keynote speaker.
- 2002 February 23. Fred Friendly Symposium for broadcast on PBS. Major speaker.
- 2002 January 26. Hastings Law Center Symposium on Human Cloning (San Francisco, CA). Invited Speaker
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- 2001 December 11. Princeton University Symposium on Human Cloning and the role of an ethics advisory board. Invited respondent.
- 2001 November 9. Princeton University Center for the Study of Religion conference on "What Does It Mean To Be Human." Invited respondent.
- 2001 November 3. Symposium on Human Development at the University of Kobe in Kobe, Japan. Keynote Address.
- 2001 October 9. Televised public lecture on the future of humankind at the Círculo de Bellas Artes in Madrid, Spain.
- 2001 July 12. A roundtable discussion on Chronic Disease sponsored by the Pfizer Journal in Copenhagen, Denmark. Invited panelist.
- 2001 June 19. The Intersphere Forum Dinner for pharmaceutical industry executives. Keynote address.
- 2001 June 8. Princeton University Conference on "Darwin's Entangled Bank: The Cultural Legacy of Evolution." Invited respondent.
- 2001 May 17. Mitchell Conference on Human Genetics: "Genetic Manipulation and Cloning in Primates " at the University of Chicago. Invited speaker.
- 2001 May 16. New York University School of Medicine Master Scholars Program. Invited colloquium speaker.
- 2001 April 5. Whig-Clio public debate on abortion at Princeton University. Debater.
- 2001 March 30. The Genetical Society of the United Kingdom conference on "Sex" in Warwick, UK. Invited speaker.
- 2001 March 11. MIT-Harvard Conference on Biotechnology in Society in Cambridge, MA. Invited speaker.
- 2001 February 25. 92nd Street Y one-on-one public conversation with Robert Krulwich from ABC Nightline.
- 2001 February 23. The Princeton University Bioethics Forum 2001 Intercollegiate Conference on the Ethics and Politics of Reproductive Technology. Invited speaker.
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- 2000 October 3. Serono Symposium on "Robert G. Edwards at 75" in Venice, Italy. Invited speaker.
- 2000 April 15. Symposium on "Mexico's imminent future: Paradigms or Paradoxes" in Mexico City, Mexico. Invited speaker.
- 2000 April 7. Luso-American Foundation Symposium on "The Human Condition: Manipulating Human Life" in Lisbon, Portugal. Invited speaker.
- 2000 March 20. Symposium on "Animal Models of Human Disease" sponsored by the Center for Developmental Genetics at Stony Brook, New York. Keynote Speaker.
- 2000 March 6. One hour NPR sponsored two-person debate on "The New Reproductive Technologies," held at Carpenter Hall in Philadelphia and broadcast nationally on the "Justice Talking" program.
- 2000 March 5. Templeton Foundation Debate on "Extended Life, External Life" at the University of Pennsylvania. One of four debaters.
- 2000 February 20. Philadelphia Ethical Society. Invited speaker.
- 2000 February 16. Niagara Community College in Niagara, New York. Public Lecture.

2000 February 5. Big Sky Conference on Cancer Genetics in Bozeman, Montana. Invited speaker.

1999 December 3. "A Symposium on Race and Beauty" sponsored by the program in African American Studies at Princeton University. Invited speaker.

1999 November 19. New York University Law School conference on "Legislating Morality: The Debate over Human Cloning" in New York, NY. Invited speaker.

1999 November 17. Inaugural Centennial Lecture on Science and Society at Rockefeller University in New York, NY.

1999 November 11. Menorah Medical Center Symposium on "Medicine in the 21st Century" in Kansas City, Missouri. Invited Lecturer.

1999 November 9. Danish Council of Ethics and Copenhagen University conference on Genetic Engineering held before the Danish Ministry of Health in Copenhagen, Denmark. Keynote address.

1999 October 27. Federal Judicial Center Seminar for Federal and State Judges entitled "The Art of Judging: Perspectives of Science" at the Banbury Center of Cold Spring Harbor Laboratory, New York. Invited Speaker.

1999 October 19. The Irvington Institute in New York, NY. Public Lecture.

1999 September 14. University of Pittsburgh in Pittsburgh, PA. Invited Public Lecture.

1999 September 3. International Symposium on Genetics and Reproduction hosted by the Japanese newspaper Asahi Shimbun in Tokyo, Japan. Keynote address.

1999 August 22. The annual Jackson Laboratory course on "Experimental Genetics of the laboratory mouse" in Bar Harbor, Maine. Faculty member.

1999 August 1-7. Universidad Internacional Menendez Pelayo: Invited lecturer for a one week Curso Magistral on "Societal conflicts posed by new technologies in human genetics and reproduction" in Santander, Spain. Faculty member.

1999 July 27-28. Conference on Genetics, Identity, and Responsibility sponsored by the Wellcome Trust, The British Academy, the Mind Association, and the British Society for the Philosophy of Science in Cambridge, U.K. Plenary Speaker.

1999 June 10. The Gruter Institute Squaw Valley Conference on "The New Genetics and Reproduction: The Legal Response" in Squaw Valley, CA. Invited Speaker.

1999 June 5. Genetics and Genealogy: An International Forum hosted by The Einstein Forum in Potsdam, Germany. Invited Speaker.

1999 June 1. Boston University Conference on "Issues for the Millennium: Cloning and Genetic Technologies" in Boston, MA. Plenary Address sponsored by the The John Templeton Foundation.

1999 May 28. State of Berlin and Max Delbruck Center for Molecular Medicine Congress on Biotechnology and Medicine in Berlin, Germany. Plenary Lecture.

1999 May 14. U. S. Department of Commerce, National Institute of Standards and Technology Washington D.C. Invited Colloquium Speaker.

1999 May 12. Williams College Public Debate on Human Cloning in Williams, Massachusetts. One of four debaters.

1999 May 6. The Wall Street Journal Health Care Summit 99: Medicine, Business & Public Policy in Washington, D.C. Executive Roundtable discussion. Invited panelist.

- 1999 March 28. Annual Meeting of the International Human Genome Organization in Brisbane, Australia. Invited Panelist for a roundtable discussion of social and ethical implications of the human genome project
- 1999 March 12. Arizona State University Conference on Law, Science, and Technology: “Respecting Genetic Privacy” in Phoenix, Arizona. Invited Speaker.
- 1999 March 4. Ryder College in Lawrenceville, NJ. Public Lecture.
- 1999 February 4-5. Human Reproduction and the Role of International Law: A Texas International Law Journal Symposium in Austin, Texas. Invited Speaker
- 1999 January 20. Sweet Briar Winter Forum, Sweet Briar College, (Sweet Briar VA). Presidential Lecture.
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- 1998 November 30. The New York City 92nd Street Y. Public Lecture.
- 1998 November 13. The Rutherford Institute Second European Conference on Megatrends in Human Rights Issues in Paris France. Invited speaker.
- 1998 October 28. Princeton University Public Lecture Series Panel Discussion on “Cloning: It’s here, do we want it?” Invited panelist.
- 1998 October 28. Federal Judicial Center Seminar for Federal and State Judges entitled “The Art of Judging: Perspectives of Science” at the Banbury Center of the Cold Spring Harbor Laboratory, New York. Invited Speaker
- 1998 October 21. Panel led by Supreme Court Justice Anton Scalia at the San Marino Conference on Immunology in principality of San Marino. Invited Panelist.
- 1998 October 19. Planned Parenthood Conference on “Insights into Women’s Health Issues in St. Petersburg, FL. Keynote Address.
- 1998 October 16-17. Princeton Alumni Studies Program on “Ethical and Moral Issues in a Changing Society.” Faculty Director, Speaker, and Panelist.
- 1998 October 8., Congregation Ahavath Torah in Tanglewood, NJ. Endowed Lecture on Biomedical Ethics.
- 1998 October 1. Hofstra University School of Law: The Joseph Kushner Distinguished Professorship Symposium on Cloning. Invited speaker.
- 1998 September 29. Mississippi State University. Presidential Lecture.
- 1998 September 20. Symposium on “Trends in Cardiovascular Medicine” In Squaw Valley, California. Keynote Speaker.
- 1998 August 22. Annual Board Meeting, Jackson Laboratory in Bar Harbor, Maine. Keynote Address.
- 1998 August 7-10. Conference on “The Human Genome Analyzed: Ethical and Legal Problems Confronting Human Genome Research in Frankfurt-Oder, Germany. Invited speaker.
- 1998 June 24-27. Second Annual Conference on Cloning and Transgenics in Washington, D.C. Co-chair and speaker.
- 1998 May 18. Humanistic Jewish Forum, in Dearborn Michigan. Public Lecture.
- 1998 May 11. Washington National Cathedral Forum on Remaking Eden in Washington, D.C. Invited panelist with four other scholars to discuss my book.
- 1998 May 3. Planned Parenthood Executive Council Meeting on New Trends in Reproductive Technology in Washington, D.C. Invited speaker.

- 1998 April 28. Nassau Community College. Public Lecture.
- 1998 April 24. William Patterson University. Public Lecture.
- 1998 April 21. State University of New York at Plattsburgh. Presidential Lecture.
- 1998 April 18. International House, Columbia University. Public Lecture.
- 1998 March 20. UCLA Conference on the Engineering of the Human Germline in Los Angeles, CA. Invited Speaker and panelist.
- 1998 March 1. The University of South Carolina. The Townsend Lecture (endowed public Presidential Lecture).
- 1998 January 24. Institute of Contemporary Art in London, UK. Forum on Darwinian Thinking and the Family called Evolution Revolution. Invited Keynote Speaker
- 1998 January 22. Darwin Seminar, the London School of Economics in London, UK. Invited speaker.
- 1998 January 22. Science Museum, Imperial College in London, UK. Invited speaker.
- 1988 January 20. Fruitmarket Gallery in Edinburgh, UK. Forum on Remaking Eden.
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- 1997 September 24–25. American Association for the Advancement of Science (AAAS) Scientific Freedom, Responsibility and Law Program Forum on Human Germ-Line Intervention in Washington, D.C. Invited panelist.
- 1997 June 26-27. Conference on Mammalian Cloning: Implications for Science and Society in Washington D. C. Invited speaker.
- 1997 June 18. Congressional Biomedical Research Caucus on Cloning in Washington, D.C. Invited presentation before members of Congress and their staff.
- 1997 March 13. The New York State Senate Committee on Investigations, chaired by Senator Roy Goodman. Invited lead-off testimony on cloning.
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- 1988 July 14. Invited Testimony on New Technologies in Human Reproduction before the Human Resources and Intergovernmental Relations Subcommittee of the Committee on Government Operations of the U.S. House of Representatives.

Publications

Books

Authored

- Silver, L.M., Martin, G.R. & Strickland, S., editors (1983). Teratocarcinoma stem cells (Cold Spring Harbor Laboratory, Cold Spring Harbor).
- Silver, L.M. (1995). Mouse Genetics: Concepts and Applications (Oxford University Press, New York).
- Silver, L.M. (1997). Remaking Eden: Cloning and Beyond in a Brave New World (Avon Books, New York; also published in 15 foreign languages).
- Silver, L.M. (1998). Remaking Eden: How Genetic Engineering and Cloning will Transform the American Family {revised paperback edition of Remaking Eden: Cloning and Beyond in a Brave New World supplemented with a new 15 page Afterward} (Avon Books, New York).
- Hartwell, L., Hood, L., Goldberg, M., Reynolds, A., Silver, L.M. & Veres, R. (1999). Genetics: From Genes to Genomes (McGraw-Hill, New York). {Textbook for undergraduate course in genetics}; Second edition published in 2003; Third edition in press for 2006.
- Silver, L.M. (2006 in press). Challenging Nature: The Clash of Science and Spirituality at the New Frontiers of Life (Ecco Press, New York).

Articles

1. Silver, L. M. & Elgin, S. C. (1976). A method for determination of the in situ distribution of chromosomal proteins. *Proc Natl Acad Sci U S A* **73**, 423-7.
2. Elgin, S. C., Silver, L. M. & Serunian, L. (1977). "Mapping" with antibodies to nonhistone chromosomal proteins: a brief review. pp. 233-42. In: Sparkes RS, et al., ed. *Molecular human cytogenetics*. New York, Academic Press,.
3. Elgin, S. C. R., Silver, L. M. & Wu, C. E. C. (1977). The in situ distribution of *Drosophila melanogaster* nonhistone chromosomal proteins. In *The Molecular Biology Of The Mammalian Genetic Apparatus* (Tso, P., ed.), pp. 126-141.
4. Silver, L. M. & Elgin, S. C. (1977). Distribution patterns of three subfractions of drosophila nonhistone chromosomal proteins: possible correlations with gene activity. *Cell* **11**, 971-83.
5. Elgin, S. C., Serunian, L. A. & Silver, L. M. (1978). Distribution patterns of *Drosophila* nonhistone chromosomal proteins. *Cold Spring Harb Symp Quant Biol* **42**, 839-50.
6. Mayfield, J. E., Serunian, L. A., Silver, L. M. & Elgin, S. C. (1978). A protein released by DNAase I digestion of drosophila nuclei is preferentially associated with puffs. *Cell* **14**, 539-44.
7. Silver, L. M. & Elgin, S. C. (1978). Production and characterization of antisera against three individual NHC proteins; a case of a generally distributed NHC protein. *Chromosoma* **68**, 101-14.
8. Silver, L. M. & Elgin, S. C. R. (1978). Immunological analysis of nonhistone protein distributions in *Drosophila* chromatin. In *The Cell Nucleus Part B*, Chapter 7 edit. (Busch, H., ed.), Vol. 5, pp. 216-262. Academic Press, New York.

9. Silver, L. M., Feldman, L., Stollar, B. D. & Elgin, S. C. (1978). An immunofluorescent analysis of *Drosophila* polytene chromosomes with antisera directed against H3, H4, and a native H3-H4 complex. *Exp Cell Res* **114**, 479-84.
10. Silver, L. M., Wu, C. E. & Elgin, S. C. (1978). Immunofluorescent techniques in the analysis of chromosomal proteins. *Methods Cell Biol* **18**, 151-67.
11. Silver, L. M., Artzt, K. & Bennett, D. (1979). A major testicular cell protein specified by a mouse T/t complex gene. *Cell* **17**, 275-84.
12. Silver, L. M. & Elgin, S. C. (1979). Immunofluorescent analysis of chromatin structure in relation to gene activity: a speculative essay. *Curr Top Dev Biol* **13**, 71-88.
13. Alton, A. K., Silver, L. M., Artzt, K. & Bennett, D. (1980). Molecular analysis of the genetic relationship of trans interacting factors at the T/t complex. *Nature* **288**, 368-70.
14. Danska, J. S. & Silver, L. M. (1980). Cell-free translation of a T/t complex cell surface-associated gene product. *Cell* **22**, 901-4.
15. Silver, L. M., White, M. & Artzt, K. (1980). Evidence for unequal crossing over within the mouse T/t complex. *Proc Natl Acad Sci U S A* **77**, 6077-80.
16. Zegarelli-Schmidt, E., Silver, L. M., Eastman, E. & Goodman, R. M. (1980). Conservation of nonhistone chromosomal proteins through Dipteran evolution. *Chromosoma* **79**, 65-74.
17. Christensen, M. E., LeSturgeon, W. M., Jamrich, M., Howard, G. C., Serunian, L. A., Silver, L. M. & Elgin, S. C. (1981). Distribution studies on polytene chromosomes using antibodies directed against hnRNP. *J Cell Biol* **90**, 18-24.
18. Silver, L. M. (1981). Genetic organization of the mouse t complex. *Cell* **27**, 239-40.
19. Silver, L. M. (1981). A structural gene (Tcp-1) within the mouse t complex is separable from effects on tail length and lethality but may be associated with effects on spermatogenesis. *Genet Res* **38**, 115-23.
20. Silver, L. M. & Artzt, K. (1981). Recombination suppression of mouse t-haplotypes due to chromatin mismatching. *Nature* **290**, 68-70.
21. Magnuson, T., Epstein, C. J., Silver, L. M. & Martin, G. R. (1982). Pluripotent embryonic stem cell lines can be derived from tw5/tw5 blastocysts. *Nature* **298**, 750-3.
22. Silver, L. M. (1982). Genomic analysis of the H-2 complex region associated with mouse t haplotypes. *Cell* **29**, 961-8.
23. Silver, L. M. & White, M. (1982). A gene product of the mouse t complex with chemical properties of a cell surface-associated component of the extracellular matrix. *Dev Biol* **91**, 423-30.
24. Magnuson, T., Martin, G. R., Silver, L. M. & Epstein, C. J. (1983). Studies of the viability of tw5/tw5 embryonic cells in vitro and in vivo. In *Teratocarcinoma Stem Cells* (Silver, L. M., Martin, G. R. & Strickland, S., eds.), Vol. 10, pp. 671-681. Cold Spring Harbor Laboratory, Cold Spring Harbor.
25. Silver, L. M. (1983). Reevaluation of the evidence for the generation of new lethal t haplotypes by mutation. *Immunogenetics* **18**, 91-6.
26. Silver, L. M., Lukralle, D. & Garrels, J. I. (1983). TOR1 is a novel, variant form of mouse chromosome 17 with a deletion in a partial t haplotype. *Nature* **301**, 422-4.
27. Silver, L. M., Uman, J., Danska, J. & Garrels, J. I. (1983). A diversified set of testicular cell proteins specified by genes within the mouse t complex. *Cell* **35**, 35-45.

28. Fox, H. S., Silver, L. M. & Martin, G. R. (1984). An alpha globin pseudogene is located within the mouse t complex. *Immunogenetics* **19**, 125-30.
29. Hecht, N. B., Kleene, K. C., Distel, R. J. & Silver, L. M. (1984). The differential expression of the actins and tubulins during spermatogenesis in the mouse. *Exp Cell Res* **153**, 275-80.
30. Rohme, D., Fox, H., Herrmann, B., Frischauf, A. M., Edstrom, J. E., Mains, P., Silver, L. M. & Lehrach, H. (1984). Molecular clones of the mouse t complex derived from microdissected metaphase chromosomes. *Cell* **36**, 783-8.
31. Silver, L. M., Garrels, J. I. & Lehrach, H. (1984). Molecular studies of mouse chromosome 17 and the t complex. In *Genetic Engineering: Principles and Methods* (Hollaender, J. K. S. a. A., ed.), Vol. 6, pp. 141-156. Plenum Press, New York.
32. Silver, L. M., Lukrally, D., Garrels, J. I. & Willison, K. R. (1984). Persistence of a lethal t haplotype in a laboratory stock of outbred mice. *Genet Res* **43**, 21-5.
33. Silver, L. M. & Olds-Clarke, P. (1984). Transmission ratio distortion of mouse t haplotypes is not a consequence of wild-type sperm degeneration. *Dev Biol* **105**, 250-2.
34. Winking, H. & Silver, L. M. (1984). Characterization of a recombinant mouse T haplotype that expresses a dominant lethal maternal effect. *Genetics* **108**, 1013-20.
35. Fox, H. S., Martin, G. R., Lyon, M. F., Herrmann, B., Frischauf, A. M., Lehrach, H. & Silver, L. M. (1985). Molecular probes define different regions of the mouse t complex. *Cell* **40**, 63-9.
36. Silver, L. M. (1985). Mouse t haplotypes. *Annu Rev Genet* **19**, 179-208.
37. Silver, L. M. (1985). Molecular studies of the structure and evolution of mouse t haplotypes. In *Genetic Manipulation of the Early Mammalian Embryo* (Costantini, F. & Jaenish, R., eds.), Vol. 20, pp. 3-9. Cold Spring Harbor Laboratory.
38. Silver, L. M., Cisek, L., Jackson, C. & Lukrally, D. (1985). A new spontaneous mutation at the tufted locus within a mouse t haplotype. *Genet Res* **45**, 107-12.
39. Herrmann, B., Bucan, M., Mains, P. E., Frischauf, A. M., Silver, L. M. & Lehrach, H. (1986). Genetic analysis of the proximal portion of the mouse t complex: evidence for a second inversion within t haplotypes. *Cell* **44**, 469-76.
40. Mann, E. A., Silver, L. M. & Elliott, R. W. (1986). Genetic analysis of a mouse t complex locus that is homologous to a kidney cDNA clone. *Genetics* **114**, 993-1006.
41. Sarvetnick, N., Fox, H. S., Mann, E., Mains, P. E., Elliott, R. W. & Silver, L. M. (1986). Nonhomologous pairing in mice heterozygous for a t haplotype can produce recombinant chromosomes with duplications and deletions. *Genetics* **113**, 723-34.
42. Schimenti, J. & Silver, L. M. (1986). Amplification and rearrangement of DNA sequences during the evolutionary divergence of t haplotypes and wild-type forms of mouse chromosome 17. *Curr Top Microbiol Immunol* **127**, 247-52.
43. Silver, L. M. (1986). Software package for record-keeping and analysis of a breeding mouse colony. *J Hered* **77**, 479.
44. Bucan, M., Herrmann, B. G., Frischauf, A. M., Bautch, V. L., Bode, V., Silver, L. M., Martin, G. R. & Lehrach, H. (1987). Deletion and duplication of DNA sequences is associated with the embryonic lethal phenotype of the t9 complementation group of the mouse t complex. *Genes Dev* **1**, 376-85.

45. Martin, G. R., Silver, L. M., Fox, H. S. & Joyner, A. L. (1987). Establishment of embryonic stem cell lines from preimplantation mouse embryos homozygous for lethal mutations in the t-complex. *Dev Biol* **121**, 20-8.
46. Schimenti, J., Vold, L., Socolow, D. & Silver, L. M. (1987). An unstable family of large DNA elements in the center of the mouse t complex. *J Mol Biol* **194**, 583-94.
47. Silver, L. M., Hammer, M., Fox, H., Garrels, J., Bucan, M., Herrmann, B., Frischauf, A. M., Lehrach, H., Winking, H., Figueroa, F. & et al. (1987). Molecular evidence for the rapid propagation of mouse t haplotypes from a single, recent, ancestral chromosome. *Mol Biol Evol* **4**, 473-82.
48. Silver, L. M., Kleene, K. C., Distel, R. J. & Hecht, N. B. (1987). Synthesis of mouse t complex proteins during haploid stages of spermatogenesis. *Dev Biol* **119**, 605-8.
49. Silver, L. M. & Remis, D. (1987). Five of the nine genetically defined regions of mouse t haplotypes are involved in transmission ratio distortion. *Genet Res* **49**, 51-6.
50. Martin, G. R., Joyner, A., Silver, L. M., Lehrach, H. & Bucan, M. (1988). Analysis of a lethal mutation (tw18) in the mouse t-complex. *Prog Clin Biol Res* **284**, 147-61.
51. Schimenti, J., Cebra-Thomas, J. A., Decker, C. L., Islam, S. D., Pilder, S. H. & Silver, L. M. (1988). A candidate gene family for the mouse t complex responder (Tcr) locus responsible for haploid effects on sperm function. *Cell* **55**, 71-8.
52. Silver, L. M. (1988). Mouse t haplotypes: a tale of tails and a misunderstood selfish chromosome. *Curr Top Microbiol Immunol* **137**, 64-9.
53. Silver, L. M. (1988). Sperm genetics and sex determination (book review). *Cell* **52**, 485-486.
54. Silver, L. M. (1988). The gene that makes a man a man (book review). *BioEssays* **9**, 182.
55. Bibbins, K. B., Tsai, J. Y., Schimenti, J., Sarvetnick, N., Zoghbi, H. Y., Goodfellow, P. & Silver, L. M. (1989). Human homologs of two testes-expressed loci on mouse chromosome 17 map to opposite arms of chromosome 6. *Genomics* **5**, 139-43.
56. Blanche, H., de Gouyon, B., Kolaga, V., Dausset, J., Silver, L. M., Cann, H. & Spielman, R. (1989). Three loci homologous with murine t complex genes are localized in a 4 point linkage group on the long arm of chromosome 6 (6q). *Cytogenet. Cell Genet.* **51**, 963.
57. Brown, J., Cebra-Thomas, J. A., Bleil, J. D., Wassarman, P. M. & Silver, L. M. (1989). A premature acrosome reaction is programmed by mouse t haplotypes during sperm differentiation and could play a role in transmission ratio distortion. *Development* **106**, 769-73.
58. Hammer, M. F., Schimenti, J. & Silver, L. M. (1989). Evolution of mouse chromosome 17 and the origin of inversions associated with t haplotypes. *Proc Natl Acad Sci U S A* **86**, 3261-5.
59. Sarvetnick, N., Tsai, J. Y., Fox, H., Pilder, S. H. & Silver, L. M. (1989). A mouse chromosome 17 gene encodes a testes-specific transcript with unusual properties. *Immunogenetics* **30**, 34-41.
60. Silver, L. M. (1989). Gene dosage effects on transmission ratio distortion and fertility in mice that carry t haplotypes. *Genet Res* **54**, 221-5.
61. Cebra-Thomas, J. A. & Silver, L. M. (1990). Genetic aspects of sperm differentiation and function in the mouse. In *Elements of Mammalian Fertilization* (Wassarman, P. M., ed.), Vol. 1, pp. 29-56. CRC Press, Boca Raton.

62. Rosen, L. L., Bullard, D. C., Silver, L. M. & Schimenti, J. C. (1990). Molecular cloning of the t complex responder genetic locus. *Genomics* **8**, 134-40.
63. Silver, L. M. (1990). At the crossroads of developmental genetics: the cloning of the classical mouse T locus. *Bioessays* **12**, 377-80.
64. Silver, L. M. (1990). New reproductive technologies in the treatment of human infertility and genetic disease. *Theor Med* **11**, 103-10.
65. Silver, L. M. & Babinet, C. (1990). Le clonage du locus T de la souris: une mutation du développement connue depuis longtemps entre dans l'âge de la biologie moléculaire. *MS (Med Sci)* **6**, 574-575.
66. Artzt, K., Barlow, D., Dove, W. F., Fischer-Lindahl, K., Klein, J., Lyon, M. F. & Silver, L. M. (1991). Mouse chromosome 17. *Mamm Genome* **1**, S280-300.
67. Cebra-Thomas, J. A., Decker, C. L., Snyder, L. C., Pilder, S. H. & Silver, L. M. (1991). Allele- and haploid-specific product generated by alternative splicing from a mouse t complex responder locus candidate. *Nature* **349**, 239-41.
68. Gogolin, K. J., Wright, L. G., Kolaga, V. J., Silver, L. M. & Spielman, R. S. (1991). RFLPs detected with the human TCP10 gene, a homologue of a mouse t- complex gene. *Nucleic Acids Res* **19**, 4313.
69. Hammer, M. F., Bliss, S. & Silver, L. M. (1991). Genetic exchange across a paracentric inversion of the mouse t complex. *Genetics* **128**, 799-812.
70. Pilder, S. H., Hammer, M. F. & Silver, L. M. (1991). A novel mouse chromosome 17 hybrid sterility locus: implications for the origin of t haplotypes. *Genetics* **129**, 237-46.
71. Sheppard, R. D., Montgutelli, X., Jean, W. C., Tsai, J. Y., Rose, A., Guenet, J. L., Cole, M. D. & Silver, L. M. (1991). Two-dimensional gel analysis of complex DNA families: methodology and apparatus. *Mamm Genome* **1**, 104-11.
72. Silver, L. M. (1991). In memoriam Dorothea Bennett 1929-1990. *Mamm Genome* **1**, 68-70.
73. Silver, L. M., Nadeau, J. & Klein, J. (1991). Mammalian Genome: Editorial. *Mamm Genome* **1**, 1.
74. Snyder, L. C. & Silver, L. M. (1991). The mouse t complex responder locus. In *Genome Analysis* (Tilghman, K. D. a. S., ed.), Vol. 3: Genes and phenotypes, pp. 37-57. Cold Spring Harbor Laboratory Press, New York.
75. Tsai, J. Y. & Silver, L. M. (1991). Escape from genomic imprinting at the mouse T-associated maternal effect (Tme) locus. *Genetics* **129**, 1159-66.
76. Blanche, H., Wright, L. G., Vergnaud, G., de Gouyon, B., Lauthier, V., Silver, L. M., Dausset, J., Cann, H. M. & Spielman, R. S. (1992). Genetic mapping of three human homologues of murine t-complex genes localizes TCP10 to 6q27, 15 cM distal to TCP1 and PLG. *Genomics* **12**, 826-8.
77. Cebra-Thomas, J. A., Tsai, J. Y., Pilder, S. H., Copeland, N. G., Jenkins, N. A. & Silver, L. M. (1992). Localization of the Mas proto-oncogene to a densely marked region of mouse chromosome 17 associated with genomic imprinting. *Genomics* **13**, 444-6.
78. Mancoll, R. E., Snyder, L. C. & Silver, L. M. (1992). Delineation of the t complex on mouse chromosome 17 by in situ hybridization. *Mamm Genome* **2**, 201-5.
79. Pilder, S. H., Decker, C. L., Islam, S., Buck, C., Cebra-Thomas, J. A. & Silver, L. M. (1992). Concerted evolution of the mouse Tcp-10 gene family: implications for the functional basis of t haplotype transmission ratio distortion. *Genomics* **12**, 35-41.

80. Silver, L. M. (1992). Bouncing off microsatellites. *Nat Genet* **2**, 8-9.
81. Silver, L. M., Artzt, K., Barlow, D., Fischer-Lindahl, K., Lyon, M. F., Klein, J. & Snyder, L. (1992). Mouse chromosome 17. *Mamm Genome* **3**, S241-60.
82. Snyder, L. C. & Silver, L. M. (1992). Distortion of transmission ratio by a candidate t complex responder locus transgene. *Mamm Genome* **3**, 588-96.
83. Hammer, M. F. & Silver, L. M. (1993). Phylogenetic analysis of the alpha-globin pseudogene-4 (Hba-ps4) locus in the house mouse species complex reveals a stepwise evolution of t haplotypes [published erratum appears in *Mol Biol Evol* 1994 Jan;11(1):158]. *Mol Biol Evol* **10**, 971-1001.
84. Himmelbauer, H., Artzt, K., Barlow, D., Fischer-Lindahl, K., Lyon, M., Klein, J. & Silver, L. M. (1993). Encyclopedia of the mouse genome III. October 1993. Mouse chromosome 17. *Mamm Genome* **4**, S230-52.
85. Himmelbauer, H. & Silver, L. M. (1993). High-resolution comparative mapping of mouse chromosome 17. *Genomics* **17**, 110-20.
86. Islam, S. D., Pilder, S. H., Decker, C. L., Cebra-Thomas, J. A. & Silver, L. M. (1993). The human homolog of a candidate mouse t complex responder gene: conserved motifs and evolution with punctuated equilibria. *Hum Mol Genet* **2**, 2075-9.
87. Phillips, D. M., Pilder, S. H., Olds-Clarke, P. J. & Silver, L. M. (1993). Factors that may regulate assembly of the mammalian sperm tail deduced from a mouse t complex mutation. *Biol Reprod* **49**, 1347-52.
88. Pilder, S. H., Olds-Clarke, P., Phillips, D. M. & Silver, L. M. (1993). Hybrid sterility-6: a mouse t complex locus controlling sperm flagellar assembly and movement. *Dev Biol* **159**, 631-42.
89. Sheppard, R. D. & Silver, L. M. (1993). Two-dimensional gel analysis of repetitive DNA families. *Methods Enzymol* **225**, 701-15.
90. Silver, L. M. (1993). The peculiar journey of a selfish chromosome: mouse t haplotypes and meiotic drive. *Trends Genet* **9**, 250-4.
91. Silver, L. M. (1993). Encyclopedia of the mouse genome III. October 1993. Master locus list. *Mamm Genome* **4**, S2-9.
92. Silver, L. M. (1993). Recordkeeping and database analysis of breeding colonies. *Methods Enzymol* **225**, 3-15.
93. Silver, L. M. & Buck, C. (1993). The mouse t complex distorter-3 (Tcd-3) locus and transmission ratio distortion. *Genet Res* **62**, 133-7.
94. Silver, L. M., Nadeau, J. H. & Klein, J. (1993). Gene list of the laboratory mouse. In *Genetic Maps, Locus Maps of complex genomes, 6th edition* (O'Brien, S. J., ed.), pp. book 4, 53-109. Cold Spring Harbor Laboratory Press, Cold Spring Harbor.
95. Bollag, R. J., Siegfried, Z., Cebra-Thomas, J. A., Garvey, N., Davison, E. M. & Silver, L. M. (1994). An ancient family of embryonically expressed mouse genes sharing a conserved protein motif with the T locus. *Nat Genet* **7**, 383-9.
96. Forejt, J., Artzt, K., Barlow, D. P., Hamvas, R. M., Lindahl, K. F., Lyon, M. F., Klein, J. & Silver, L. M. (1994). Mouse chromosome 17. *Mamm Genome* **5**, S238-58.
97. Himmelbauer, H., Harvey, R. P., Copeland, N. G., Jenkins, N. A. & Silver, L. M. (1994). High-resolution genetic analysis of a deletion on mouse chromosome 17 extending over the fused, tufted, and homeobox Nkx2-5 loci. *Mamm Genome* **5**, 814-6.

98. Silver, L. M. (1994). Master locus list. *Mamm Genome* **5**, S291-5.
99. Silver, L. M. (1994). Genes and Gender (book review). *Science* **264**, 116.
100. Tsai, J. Y., Namin-Gonzalez, M. L. & Silver, L. M. (1994). False association of human ESTs. *Nat Genet* **8**, 321-2.
101. Agulnik, S. I., Bollag, R. J. & Silver, L. M. (1995). Conservation of the T-box gene family from *Mus musculus* to *Caenorhabditis elegans*. *Genomics* **25**, 214-9.
102. Forejt, J., Gregorova, S., Landikova, M., Capkova, J. & Silver, L. M. (1995). Genetic variations in parental imprinting on mouse chromosome 17. In *Genomic Imprinting: Causes and Consequences* (Ohlsson, R., Hall, K. & Ritzen, M., eds.), pp. 29-45. Cambridge University Press, Cambridge, UK.
103. Law, D. J., Gebuhr, T., Garvey, N., Agulnik, S. I. & Silver, L. M. (1995). Identification, characterization, and localization to chromosome 17q21- 22 of the human TBX2 homolog, member of a conserved developmental gene family. *Mamm Genome* **6**, 793-7.
104. Reddi, P. P., Naaby-Hansen, S., Agulnik, I., Tsai, J. Y., Silver, L. M., Flickinger, C. J. & Herr, J. C. (1995). Complementary deoxyribonucleic acid cloning and characterization of mSP- 10: the mouse homologue of human acrosomal protein SP-10. *Biol Reprod* **53**, 873-81.
105. Yee, A. J. & Silver, L. M. (1995). Contraceptive vaccine formulations with sperm proteins. In *Reproductive Immunology* (Bronson, R., Alexander, N. J., Anderson, D., Branch, D. W. & Kutteh, W. H., eds.). Blackwell Scientific, Boston.
106. Agulnik, S. I., Garvey, N., Hancock, S., Ruvinsky, I., Chapman, D. L., Agulnik, I., Bollag, R., Papaioannou, V. & Silver, L. M. (1996). Evolution of mouse T-box genes by tandem duplication and cluster dispersion. *Genetics* **144**, 249-54.
107. Agulnik, S. I. & Silver, L. M. (1996). The Cairo spiny mouse *Acomys cahirinus* shows a strong affinity to the Mongolian gerbil *Meriones unguiculatus*. *Mol Biol Evol* **13**, 3-6.
108. Ardlie, K. G. & Silver, L. M. (1996). Low frequency of mouse t haplotypes in wild populations is not explained by modifiers of meiotic drive. *Genetics* **144**, 1787-97.
109. Ardlie, K. G. & Silver, L. M. (1996). Recent evolution of mouse t haplotypes at polymorphic microsatellites associated with the t complex responder. *Genet Res* **67**, 1-10.
110. Chapman, D. L., Agulnik, I., Hancock, S., Silver, L. M. & Papaioannou, V. E. (1996). Tbx6, a mouse T-Box gene implicated in paraxial mesoderm formation at gastrulation. *Dev Biol* **180**, 534-42.
111. Chapman, D. L., Garvey, N., Hancock, S., Alexiou, M., Agulnik, S. I., Gibson-Brown, J. J., Cebra-Thomas, J., Bollag, R. J., Silver, L. M. & Papaioannou, V. E. (1996). Expression of the T-box family genes, Tbx1-Tbx5, during early mouse development. *Dev Dyn* **206**, 379-90.
112. Ewulonu, U. K., Snyder, L., Silver, L. M. & Schimenti, J. C. (1996). Promoter mapping of the mouse Tcp-10bt gene in transgenic mice identifies essential male germ cell regulatory sequences. *Mol Reprod Dev* **43**, 290-7.
113. Gibson-Brown, J. J., Agulnik, S. I., Chapman, D. L., Alexiou, M., Garvey, N., Silver, L. M. & Papaioannou, V. E. (1996). Evidence of a role for T-box genes in the evolution of limb morphogenesis and the specification of forelimb/hindlimb identity. *Mech Dev* **56**, 93-101.

114. Hamvas, R., Trachtulec, Z., Forejt, J., Williams, R. W., Arzt, K., Fischer-Lindahl, K. & Silver, L. M. (1996). Encyclopedia of the mouse genome V. Mouse chromosome 17. *Mamm Genome* **6**, S281-99.
115. Melo, J. A., Shendure, J., Pociask, K. & Silver, L. M. (1996). Identification of sex-specific quantitative trait loci controlling alcohol preference in C57BL/6 mice. *Nat Genet* **13**, 147-53.
116. Silver, L. M. (1996). Maps of the mouse t-complex. In *Genetic Variants and Strains of the Laboratory Mouse* Third edit. (Lyon, M. F., Rastan, S. & Brown, S. D. M., eds.), pp. 69-72. Oxford University Press, Oxford.
117. Tsai, J. Y. & Silver, L. M. (1996). Sperm-egg binding protein or proto-oncogene? *Science* **271**, 1432-4; discussion 1434-5.
118. Agulnik, S. I., Ruvinsky, I. & Silver, L. M. (1997). Three novel T-box genes in *Caenorhabditis elegans*. *Genome* **40**, 458-64.
119. Chieffo, C., Garvey, N., Gong, W., Roe, B., Zhang, G., Silver, L., Emanuel, B. S. & Budarf, M. L. (1997). Isolation and characterization of a gene from the DiGeorge chromosomal region homologous to the mouse Tbx1 gene. *Genomics* **43**, 267-77.
120. Durand, D., Ardlie, K., Buttel, L., Levin, S. A. & Silver, L. M. (1997). Impact of migration and fitness on the stability of lethal t-haplotype polymorphism in *Mus musculus*: a computer study. *Genetics* **145**, 1093-108.
121. Eppig, J. T. & Silver, L. M. (1997). Chromosome Committee Reports for the Mouse Genome. *Mamm Genome* **7**, 1-2.
122. Ruvinsky, I. & Silver, L. M. (1997). Newly identified paralogous groups on mouse chromosomes 5 and 11 reveal the age of a T-box cluster duplication. *Genomics* **40**, 262-6.
123. Silver, L. M. (1997). My Lesson in School Politics. In *New York Times*, pp. Op-Ed page, New York.
124. Silver, L. M. (1997). Who says Mother Nature knows best? In *The Sunday Times London*, pp. Op-Ed page.
125. Silver, L. M. (1997). Genetics goes to Hollywood. *Nature Genetics* **17**, 260-261.
126. Silver, L. M. (1997). Alcohol addictability may be in the genes, but drunk driving is not! In *Washington Post*.
127. Agulnik, II, Agulnik, S. I., Saatkamp, B. D. & Silver, L. M. (1998). Sex-specific modifiers of tail development in mice heterozygous for the brachyury (T) mutation. *Mamm Genome* **9**, 107-10.
128. Agulnik, S. I., Papaioannou, V. E. & Silver, L. M. (1998). Cloning, mapping, and expression analysis of TBX15, a new member of the T-Box gene family. *Genomics* **51**, 68-75.
129. Ardlie, K. G. & Silver, L. M. (1998). Low frequency of t haplotypes in natural populations of house mice (*Mus musculus domesticus*). *Evolution* **52**, 1185.
130. Derr, R. L., Peirce, J. L. & Silver, L. M. (1998). Genetics of Alcohol Consumption in the House Mouse. *Zoological Studies* **37**, 31-38.
131. Gibson-Brown, J. J., Agulnik, S. I., Silver, L. M., Niswander, L. & Papaioannou, V. E. (1998). Involvement of T-box genes Tbx2-Tbx5 in vertebrate limb specification and development. *Development* **125**, 2499-509.

132. Gibson-Brown, J. J., S, I. A., Silver, L. M. & Papaioannou, V. E. (1998). Expression of T-box genes Tbx2-Tbx5 during chick organogenesis. *Mech Dev* **74**, 165-9.
133. Juneja, R., Agulnik, S. I. & Silver, L. M. (1998). Sequence divergence within the sperm-specific polypeptide TCTE1 is correlated with species-specific differences in sperm binding to zona- intact eggs. *J Androl* **19**, 183-8.
134. Law, D. J., Garvey, N., Agulnik, S. I., Perlroth, V., Hahn, O. M., Rhinehart, R. E., Gebuhr, T. C. & Silver, L. M. (1998). TBX10, a member of the Tbx1-subfamily of conserved developmental genes, is located at human chromosome 11q13 and proximal mouse chromosome 19. *Mamm Genome* **9**, 397-9.
135. Papaioannou, V. E. & Silver, L. M. (1998). The T-box gene family. *Bioessays* **20**, 9-19.
136. Peirce, J. L., Derr, R., Shendure, J., Kolata, T. & Silver, L. M. (1998). A major influence of sex-specific loci on alcohol preference in C57BL/6 and DBA/2 inbred mice. *Mammal. Genome* **9**, 942-948.
137. Ruvinsky, I., Silver, L. M. & Ho, R. K. (1998). Characterization of the zebrafish tbx16 gene and evolution of the vertebrate T-box family. *Dev Genes Evol* **208**, 94-9.
138. Shendure, J., Melo, J. A., Pociask, K., Derr, R. & Silver, L. M. (1998). Sex-restricted non-mendelian inheritance of mouse chromosome 11 in the offspring of crosses between C57BL/6J and (C57BL/6J x DBA/2J)F1 mice [In Process Citation]. *Mamm Genome* **9**, 812-5.
139. Sheppard, R. D., Samant, S. A., Rosenberg, M., Silver, L. M. & Cole, M. D. (1998). Transgenic N-myc mouse model for indolent B cell lymphoma: tumor characterization and analysis of genetic alterations in spontaneous and retrovirally accelerated tumors. *Oncogene* **17**, 2073-2085.
140. Silver, L. M. (1998). Cloning, Ethics, and Religion. *Camb Quart. Healthcare Ethics* **7**, 168-72. {Also, reprinted in (1) "Contemporary Issues in Bioethics," p.682-687; fifth edition (1999), edited by Tom L. Beauchamp and LeRoy Walters; (2) "Bioethics, Justice, and Healthcare," pp.656-660; (2001) edited by Wanda Teays and Laura M. Purdy (Wadsworth Pub.); "Readings in Healthcare Ethics," pp.573-576; (2001), ed. Wilfrid Waluchow and Elisabeth Boetzkes Broadview Press}.
141. Silver, L. M. (1998). Why I'm Giving Up on School Boards. In *The School Administrator*, pp. 50.
142. Silver, L. M. (1998). Year 2350: A Remade Eden. *International Journal of Prenatal and Perinatal Psychology*, in press.
143. Silver, L. M. (1998). Scientific Notes: Mankind is on the verge of self-evolution. In *The Independent, London*, pp. Op-Ed, London.
144. Silver, L. M. (1998). Reprogenetics: How It Will Change Our World. *Humanistic Judaism* **26**, 20-26.
145. Silver, L. M. (1998). A quandary that isn't: picking a baby's sex won't lead to disaster. In *Time Magazine*, pp. 83.
146. Silver, L. M. (1998). Fertility for sale (very brief comments). In *New York Times*, pp. A21.
147. Silver, L. M., Nadeau, J. H., Brown, S. D. M., Eppig, J. T. & Peters, J. (1998). Mammalian Genome, Incorporating Mouse Genome (editorial). *Mamm Genome* **9**, 1.
148. Silver, L. M. & Silver, S. R. (1998). Confused Heritage and the Absurdity of Genetic Ownership. *Harvard Journal of Law & Technology* **11**, 593-618.

149. Hancock, S. N., Agulnik, S. I., Silver, L. M. & Papaioannou, V. E. (1999). Mapping and expression analysis of the mouse ortholog of Xenopus Eomesodermin. *Mech. Develop.* **81**, 205-208.
150. Samant, S. A., Fossella, J., Silver, L. M. & Pilder, S. H. (1999). Mapping and cloning recombinant breakpoints demarcating the Hybrid Sterility 6-specific sperm tail assembly defect. *Mamm. Genome* **10**, 88-94.
151. Silver, L. M. (1999). Reprogenetic Technologies and the Forces that Will Drive Their Use. *Annual Review of Law and Ethics* **7**, 3-12.
152. Silver, L. M. (1999). How Reprogenetics will Transform the American Family. *Hofstra Law Review* **27**, 649-658.
153. Silver, L. M. (1999). The Meaning of Genes and "Genetic Rights". *Jurimetrics: The Journal of Law, Science, and Technology (Quarterly journal of the American Bar Association Section on Science and Technology)* **40**, 9-19.
154. Silver, L. M. (1999). Human Cloning: Popular fictions versus scientific facts. *Prometheus* **1**, issue **2**, 77-83.
155. Silver, L. M. (1999). Bioethicists must come down to earth. *Nature* **399**, 728 (brief correspondence).
156. Silver, L. M. (1999). Can you make my kid smarter? A dispatch from the frontiers of 21st century genetics. In *Time Magazine (special issue titled "Beyond 2000: Your Body, our Planet")*, Vol. 154, pp. 68-69.
157. Silver, L. M. (1999). Frankenstein by Mary Shelley and Brave New World by Aldous Huxley (book review). In *Reason magazine*, Vol. December, 1999, pp. 28.
158. Silver, L. M. (1999). Human Cloning: Is it copying people. *Prometheus* **1**, issue **2**, 89-91.
159. Ahn, D. G., Ruvinsky, I., Oates, A. C., Silver, L. M. & Ho, R. K. (2000). tbx20, a new vertebrate T-box gene expressed in the cranial motor neurons and developing cardiovascular structures in zebrafish. *Mech Dev* **95**, 253-8.
160. Fossella, J., Samant, S. A., Silver, L. M., King, S. M., Vaughan, K. T., Olds-Clarke, P., Johnson, K. A., Mikami, A., Vallee, R. B. & Pilder, S. H. (2000). An axonemal dynein at the Hybrid Sterility 6 locus: implications for t haplotype-specific male sterility and the evolution of species barriers. *Mamm Genome* **11**, 8-15.
161. Lanza, R. P., Caplan, A. L., Silver, L. M., Cibelli, J. B., West, M. D. & Green, R. M. (2000). The ethical validity of using nuclear transfer in human transplantation. *Journal of the American Medical Association* **284**, 3175-3179.
162. Ruvinsky, I., Oates, A. C., Silver, L. M. & Ho, R. K. (2000). The evolution of paired appendages in vertebrates: T-box genes in the zebrafish. *Dev Genes Evol* **210**, 82-91.
163. Ruvinsky, I., Silver, L. M. & Gibson-Brown, J. J. (2000). Phylogenetic analysis of T-Box genes demonstrates the importance of amphioxus for understanding evolution of the vertebrate genome. *Genetics* **156**, 1249-57.
164. Silver, L. M. (2000). Reprogenetics: How Reproductive and Genetic Technologies will be Combined to Provide New Opportunities for People to Reach their Reaching Reproductive Goals. In *Engineering the Human Germline: An Exploration of the Science and Ethics of Altering the Genes We Pass to Our Children* (Stock, G. & Campbell, J., eds.), pp. 57-71. Oxford University Press, New York.

165. Silver, L. M. (2000). Mice as Experimental Organisms. In *The Encyclopedia of the Life Sciences*, Vol. 2000. Elsevier Publishers.
166. Silver, L. M. (2000). The Meaning of Life and Clones. In *The Befuddled Stork: Helping persons of faith debate beginning-of-life issues* (Geis, S. B. & Messer, D. E., eds.), pp. 165-173. Abingdon Press, Nashville.
167. Silver, L. M. (2000). Map of Life {Review of "Genome" by Matt Ridley}. In *The Sunday New York Times Book Review*, pp. 8.
168. Silver, L. M. (2000). A Sheep and a Metaphor. *Science* **287**, 1404-1405.
169. Silver, L. M. (2000). Reprogenetics: Third Millennium speculation: The consequences for humanity when reproductive biology and genetics are combined. *EMBO Reports* **1**, 375-378.
170. Silver, L. M. (2000). The bioethics of human cloning. In *The Encyclopedia of the Life Sciences*, Vol. 2000. Elsevier Publishers.
171. Silver, L. M. (2000). Who owns the human genome? (Op-Ed). In *New York Times*, pp. A16, New York.
172. Yelon, D., Ticho, B., Halpern, M. E., Ruvinsky, I., Ho, R. K., Silver, L. M. & Stainier, D. Y. (2000). The bHLH transcription factor hand2 plays parallel roles in zebrafish heart and pectoral fin development. *Development* **127**, 2573-82.
173. Silver, L. M. (2001). Thinking Twice, or Thrice, about Cloning. In *The Cloning Sourcebook* (Klotzko, A. J., ed.), pp. 61-69. Oxford University Press, New York City.
174. Silver, L. M. (2001). Popular Cloning versus Scientific Cloning in Ethical Debates. *New York University Journal of Legislation and Public Policy* **4**, 47-57.
175. Silver, L. M. (2001). Confused Meanings of Life, Genes and Parents. *Studies in History and Philosophy of Biological and Biomedical Sciences* **32**, 647-661.
176. Silver, L. M. (2001). What are clones?: They're not what you think they are. *Nature* **412**, 21.
177. Silver, L. M. (2001). The Reproducers (book review of the Cooperative Gene). In *The New York Times Book Review*, pp. 13.
178. Silver, L. M. (2001). Watch What You Are Calling an Embryo, and Other Subtleties That Define the Debate. In *The Washington Post*, pp. B04.
179. Ahn, D.-g., Kourakis, M. J., Rohde, L. A., Silver, L. M. & Ho, R. K. (2002). T-box gene *tbx5* is essential for formation of the pectoral limb bud. *Nature* **417**, 754-758.
180. Brodtkin, E. S., Goforth, S. A., Keene, A., Fossella, J. & Silver, L. M. (2002). Identification of quantitative trait loci that affect aggressive behavior in mice. *Journal of Neuroscience* **22**, 1155-1170.
181. Ruvinsky, I., Chertkov, O., Borue, X. t., Agulnik, S. I., Gibson-Brown, J. J., Lyle, S. R. & Silver, L. M. (2002). Genetics analysis of mouse mutations Abnormal feet and tail and rough coat, which cause developmental abnormalities and alopecia. *Mamm Genome* **13**, 675-9.
182. Silver, L. M. (2002). Public Policy Crafted in Response to Public Ignorance is Bad Public Policy (lecture transcript). *Hastings Law Journal* **53**, 1037-1047.
183. Silver, L. M. (2002). Commentary: Brave New World Dawning. In *The Edge, Malaysia*, Kuala Lumpur.

184. Bruce, A. E., Howley, C., Zhou, Y., Vickers, S. L., Silver, L. M., King, M. L. & Ho, R. K. (2003). The maternally expressed zebrafish T-box gene eomesodermin regulates organizer formation. *Development* **130**, 5503-17.
185. Silver, L. M. (2003). Biotechnology and conceptualizations of the soul. *Camb Q Healthc Ethics* **12**, 335-41.
186. Silver, L. M. (2003). Die Evolution und die Zukunft des Menschen (Evolution and the Future of Humankind). In *Evolution: Geschichte und Zukunft der Lebensdauer. (Evolution: The history and future of human life)* (Fischer, E. P. & Wiegandt, K., eds.), pp. 324-337. Fischer Taschenbuch Verlag, Berlin.
187. Brodtkin, E. S., Hagemann, A., Nemetski, S. M. & Silver, L. M. (2004). Social approach-avoidance behavior of inbred mouse strains towards DBA/2 mice. *Brain Res* **1002**, 151-7.
188. Harrelson, Z., Kelly, R. G., Goldin, S. N., Gibson-Brown, J. J., Bollag, R. J., Silver, L. M. & Papaioannou, V. E. (2004). Tbx2 is essential for patterning the atrioventricular canal and for morphogenesis of the outflow tract during heart development. *Development* **131**, 5041-5052.
189. Peirce, J. L., Lu, L., Gu, J., Silver, L. M. & Williams, R. W. (2004). A new set of BXD recombinant inbred lines from advanced intercross populations in mice. *BMC Genet* **5**, 7.
190. Silver, L. M. (2004). Future Stories of Human Evolution. In *Consciousness, Genetics and Society: Perspectives from the Engelsberg Seminar* (Linklater, A., ed.), pp. 63-78. Axel and Margaret Ax:son Johnson Foundation, Stockholm.
191. Silver, L. M. (2004). Stalking life's second secret. *Nature* **431**, 905-906.
192. Silver, L. M. (2004). The God Effect. In *Newsweek International*, pp. Cover Story.