

MARCUS WILLIAM FELDMAN

Personal

Born: November 14, 1942, Perth, Australia
Married: 3 children
Citizenship: U.S. (Naturalized, San Jose, CA, June 1994)

Education

1959: Matriculation, University of Western Australia
1964: B.Sc. (honors), University of Western Australia, Perth, Australia
Majors: Mathematics and Statistics
Degree completed 1963, awarded 1964.
1966: M.Sc., Department of Mathematics, Monash University, Victoria, Australia
Degree completed 1965, awarded 1966.
1969: Ph.D., Stanford University, Stanford, California
Graduate Division Special Program, Mathematical Biology
Committee: Professors S. Karlin, W. Bodmer, J. McGregor, D. Regnery.
Dissertation: Some Topics in Theoretical Population Genetics

Honors and Prizes

1. Government Exhibition (1959)
2. Commonwealth (of Australia) Scholarship (1959)
3. Colonial Sugar Refining Company Scholarship (1959)
4. Monash University Research Scholarship (1964)
5. Research Development Fund Grant, Stanford University (1973)
6. Mellon Junior Faculty Leave (1973-74)
7. J.S. Guggenheim Fellowship (1976-77)
8. Fellow, Center for Advanced Study in the Behavioral Sciences, Stanford, 1983-84
9. Elected Fellow, American Association for the Advancement of Science, 1986
10. Elected Fellow, American Academy of Arts and Sciences, 1987
11. Elected Fellow, California Academy of Sciences, 1996–
12. Jacob Marschak Lecturer, UCLA, November 1998, May 2002
13. China Population Study Award, 1998: Best paper previous four years
14. First Gifford Lecturer in Population Studies, Stanford 2000
15. Burrows Wellcome Lecturer, Princeton University, April 2002
16. Honorary Professor, Beijing Normal University, 2002–2007
17. “Paper of the Year 2002/2003,” *The Lancet* (bibliography number 294)
18. Doctor Philosophiae Honoris Causa, Hebrew University Jerusalem, June 2005

19. Honorary Professor, Xi'an Jiaotong University, 2005–
20. S. Ulam Lecturer, Santa Fe, 2005
21. Doctor Philosophiae Honoris Causa, Tel-Aviv University, Tel Aviv, May 2010
22. Dan David laureate, 2011
23. Elected member, American Philosophical Society, 2011
24. Elected member, National Academy of Sciences, 2013
25. Norman Giles Distinguished Lecturer, University of Georgia, 2015
26. Kimura Motoo Award in Human Evolution, 2016
27. Alumni lifetime achievement award, University of Western Australia, Faculty of Engineering, Computer Science and Mathematics, 2016
28. Allan V. Cox Medal for Fostering Undergraduate Research at Stanford, 2017

Positions Held

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|-----------|-------------------------------------------------------------------------------------------------------------|
| 1960–1963 | Assistant Chemical Analyst and Operations Researcher, Colonial Sugar Refining Company, Australia (vacation) |
| 1963–1964 | Programmer-Analyst, IBM Australia |
| 1964–1965 | Tutor in Mathematics and Statistics, Monash University, Australia |
| 1965–1967 | Teaching Assistant, courses in Mathematical Biology, Stanford University |
| 1965–1969 | Research Assistant for Professor S. Karlin, Department of Mathematics, Stanford University |
| Fall 1968 | Visiting Research Assistant, Mathematics Research Center, U.S. Army, University of Wisconsin |
| 1969–1970 | Acting Assistant Professor, Department of Biology, Stanford University |
| 1970–1971 | Lecturer, Department of Mathematics, La Trobe University, Bundoora, Victoria, Australia |
| 1971 | January, February. Visiting Research Scientist, Weizmann Institute of Science, Rehovot, Israel |
| 1971–1974 | Assistant Professor, Department of Biological Sciences, Stanford University |
| 1973 | April, May. Visiting Senior Fellow, Department of Biology, University of Chicago |
| 1974–1977 | Associate Professor, Department of Biological Sciences, Stanford University |
| 1976–1977 | J.S. Guggenheim Fellow |
| 1977– | Professor, Department of Biological Sciences, Stanford University |
| 1978–1982 | Associate Chairman, Department of Biological Sciences, Stanford University |
| 1983 | February-June. Visiting Professor of Statistics, Tel Aviv University |
| 1983–1984 | Fellow, Center for Advanced Studies in the Behavioral Sciences |

- 1986–1993 Clifford G. Morrison Professor in Population and Resource Studies, Stanford
- 1986–1993– Director, Morrison Institute for Population and Resource Studies, Stanford
Burnet C. and Mildred Finley Wohlford Professor of Biological Sciences
- 1997–2003 Co-director, Center for Computational Genetics and Biological Modeling, Stanford
- 1998–1999 Sackler Scholar, Mortimer and Raymond Sackler Institute for Advanced Studies, Tel Aviv, Israel
- 1999–2000 Lady Davis Scholar, Hebrew University School of Agriculture, Rehovoth, Israel
- 2005– Director, Center for Complexity Studies, Xi’an Jiaotong University, Xi’an, China
- 2013– Co-director, Stanford Center for Computation, Evolutionary and Human Genomics

Other Professional Activities

- 1971–2012 Managing Editor, THEORETICAL POPULATION BIOLOGY (Academic Press)
- 1975–1976 Member NIH Genetics Study Section (ad hoc)
- 1976–1979 Member NIH Genetics Study Section
- 1980–1982 Chairman, NIH Genetics Study Section
- 1984–1990 Editor, AMERICAN NATURALIST
- 1984–2006 Member, Board of Trustees, Santa Fe Institute
- 1985–1989 Member, Appointments and Promotions Committee, School of Humanities and Sciences, Stanford University
- 1987–2010 Member, Science Board and Science Steering Committee, Santa Fe Institute
- 1988–1989 Member, External Review Committee for Biology Departments, University of Chicago
- 1989–1993 Member, Overseers’ Committee, Department of Organismic and Evolutionary Biology, Harvard University
- 1989–2004 Member, Advisory Committee on Evolutionary Biology, Canadian Institute for Advanced Research
- 1989–1993 Member, Executive Committee, Institute for International Studies, Stanford
- 1989–1995 Member, NSF Advisory Committees on Mathematical and Computational Biology
- 1990–1995 Committee on Mathematics in the Life Sciences (Amer. Math. Society)
- 1990–1997 Member, Editorial Board, Biomathematics Series (Springer-Verlag)
- 1992– Member, International Executive Committee, Human Genome Diversity Project

1993– Member, North American Committee, Human Genome Diversity Project

1993–2003 Member, Executive Committee, Board of Trustees, Santa Fe Institute

1994–1998 Member, Advisory Board, MIT Consortium on Global Environment and Sustainable Development

1995–1998 Elected Council Delegate, AAAS Section on Biological Sciences

1995–2003 Associate Editor, COMPLEXITY

1996–1998, 2010–2013 Co-Chair, Science Steering Committee, Santa Fe Institute

1996–2001 Member, Advisory Board, Mountain View Research Incorporated

1997–2005 Member, International Board, Institute of Evolution at the University of Haifa, Israel

1998–2006 Associate Editor, Wiley Series in Mathematical and Computational Biology (John Wiley, Publisher)

1998–2008 Associate Editor, GENETICS

1998–2001 Section Editor, Genetics, Behavior and Society. International Encyclopedia of the Social and Behavioral Sciences

1998–2001 Section Co-editor, Evolutionary Sciences. International Encyclopedia of the Social and Behavioral Sciences

1998–2014 Member, Scientific Board, Institute for Medical Biomathematics, Israel

2000–2004 Member, National Research Council Committee: Frontiers at the Interface of Computing and Biology

2001– Editorial Board, ANNALS OF HUMAN BIOLOGY

2002– Editorial Board, HUMAN GENOMICS

2003–2009 Editorial Board, ANNALS OF HUMAN GENETICS

2004–2009 Academic Director, Bridging the Rift Foundation (promoting and organizing scientific collaborations between Israelis and Jordanians).

2007–2017 Member, Scientific Advisory Board, 23andMe

2007– Member, Selection Committee, Rothschild Foundation Isareli Postdoctoral Fellowships

2008–2009 Chair, Yeshaya Horowitz Foundation review committee, Israel

2009–2016 Member, Human Genetics Foundation advisory board, Italy

2010–2014 Co-Chair, Science Board, Santa Fe Institute

2010–2016 NAS Committee on Science, Technology and Law

2017– Member, Scientific Advisory Board, Steinhardt Museum of Natural History, Tel Aviv University

Research and Publications

1966

1. Feldman, M.W. On the offspring number distribution in a genetic population. *J. Appl. Prob.* **3**: 129–141.

1968

2. Karlin, S. and M.W. Feldman. Analysis of models with homozygote \times heterozygote matings. *Genetics* **39**: 105–116.
3. Karlin, S. and M.W. Feldman. Further analysis of negative assortative mating. *Genetics* **39**: 117–136.

1969

4. Feldman, M.W., M. Nabholz, and W.F. Bodmer. Evolution of the Rh polymorphism: A model for the interaction of incompatibility, reproductive compensation, and heterozygote advantage. *American Journal of Human Genetics* **21**: 171–193.
5. Feldman, M.W. Some topics on theoretical population genetics. Ph.D. Thesis, Stanford University.
6. Karlin, S. and M.W. Feldman. Linkage and selection: New equilibrium properties of the two-locus symmetric viability model. *Proc. Natl. Acad. Sci. USA* **62**: 70–74.

1970

7. Karlin, S. and M.W. Feldman. Linkage and selection: Two locus symmetric viability model. *Theor. Pop. Biol.* **1**: 39–71.
8. Karlin, S. and M.W. Feldman. Convergence to equilibrium of the two locus additive viability model. *J. Appl. Prob.* **7**: 262–271.
9. Feldman, M.W. and J.F. Crow. On quasilinkage equilibrium and the fundamental theorem of natural selection. *Theor. Pop. Biol.* **1**: 371–391.
10. Eshel, I. and M.W. Feldman. On the evolutionary effect of recombination. *Theor. Pop. Biol.* **1**: 88–100.
11. Feldman, M. W. Book Review: *Into the Ecology Breach: “An Introduction to Mathematical Ecology”* by E. C. Pielou. *Science* **169**: 43–44.

1971

12. Feldman, M.W. Equilibrium studies of two locus haploid populations with recombination. *Theor. Pop. Biol.* **2**: 299–317.
13. Feldman, M.W. and S. Karlin. The evolution of dominance: A direct approach through the theory of linkage and selection. *Theor. Pop. Biol.* **2**: 482–492.

1972

14. Karlin, S. and M.W. Feldman. Mathematical genetics: A hybrid seed for educators to sow. *Int. J. Math. Educ. Sci. Technol.* **3**: 169–189.
15. Feldman, M.W. Selection for linkage modification: I. Random mating populations. *Theor. Pop. Biol.* **3**: 324–346.
16. Nei, M. and M.W. Feldman. Identity of genes by descent within and between populations under mutation and migration pressures. *Theor. Pop. Biol.* **3**: 460–465.
17. Feldman, M.W. and B. Balkau. Some results in the theory of three gene loci. pp. 357–384. In T.N.E. Greville (ed.) *Population Dynamics*. Academic Press, New York.

1973

18. Hillel, J., M.W. Feldman, and G. Simchen. Mating systems and population structure in two closely related species of the wheat group. I. Variation between and within populations. *Heredity* **30**: 141–167.
19. Hillel, J., G. Simchen and M.W. Feldman. Mating systems and population structure in two closely related species of the wheat group. II. Environmental factors and population structure. *Heredity* **30**: 73–83.
20. Hillel, J., M.W. Feldman, and G. Simchen. Mating systems and population structure in two closely related species of the wheat group. III. Chiasma frequency and population structure. *Heredity* **31**: 1–9.
21. Cavalli-Sforza, L. and M.W. Feldman. Models for cultural inheritance. I. Group mean and within group variation. *Theor. Pop. Biol.* **4**: 42–55.
22. Sved, J.A. and M.W. Feldman. Correlation and probability methods for one and two loci. *Theor. Pop. Biol.* **4**: 129–132.
23. Johnson, G.B. and M.W. Feldman. On the hypothesis that polymorphic enzyme alleles are selectively neutral. I. The evenness of allele frequency distribution. *Theor. Pop. Biol.* **4**: 209–221.
24. Balkau, B.J. and M.W. Feldman. Selection for migration modification. *Genetics* **74**: 171–174.
25. Feldman, M.W. and B. Balkau. Selection for linkage modification II. A recombination balance for neutral modifiers. *Genetics* **74**: 713–726.
26. Cavalli-Sforza, L.L. and M.W. Feldman. Cultural versus biological inheritance: Phenotypic transmission from parents to children (A theory of the effect of parental phenotypes on children's phenotypes). *Am. J. Hum. Genet.* **25**: 618–637.

1974

27. Feldman, M.W. Basic principles of genetics. In Ehrlich, P.R., R.W. Holm, and P.C. Hanawalt (eds.) *Biocore Unit VII*. McGraw-Hill.

28. Thomson, G.J. and M.W. Feldman. Population genetics of modifiers of meiotic drive. II. Linkage modification in the segregation distortion system. *Theor. Pop. Biol.* **5**: 155–162.
29. Feldman, M.W., I. Franklin, and G.J. Thomson. Selection in complex genetic systems. I. The symmetric equilibria of the three-locus symmetric viability model. *Genetics* **76**: 135–162.
30. Ewens, W.J. and M.W. Feldman. Analysis of neutrality in protein polymorphism. *Science* **183**: 446–448.
31. Ammerman, A.J. and M.W. Feldman. On the “making” of an assemblage of stone tools. *American Antiquity* **39**: 610–616.

1975

32. Feldman, M.W., R.C. Lewontin, I.R. Franklin, and F.B. Christiansen. Selection in complex genetics systems. III. An effect of allele multiplicity with two loci. *Genetics* **79**: 333–347.
33. Roughgarden, J. and M.W. Feldman. Species packing and predation pressure. *Ecology* **56**: 489–492.
34. Feldman, M.W. and F.B. Christiansen. The effect of population subdivision on two loci without selection. *Genet. Res. Camb.* **24**: 151–162.
35. Feldman, M.W. and J. Roughgarden. A population stationary distribution and chance of extinction in a stochastic environment with remarks on the theory of species packing. *Theor. Pop. Biol.* **7**: 197–207.
36. Christiansen, F.B. and M.W. Feldman. Subdivided populations: A review of the one- and two-locus deterministic theory. *Theor. Pop. Biol.* **7**: 13–38.
37. Christiansen, F.B. and M.W. Feldman. Selection in complex genetic systems. IV. Multiple alleles and interactions between two loci. *J. Math. Biol.* **2**: 179–204.
38. Feldman, M.W. and L.L. Cavalli-Sforza. Models for cultural inheritance: a general linear model. *Ann. Hum. Biol.* **2**: 215–226.
39. Payne, R., R. Radvany, F.C. Grumet, M.W. Feldman, and H. Cann. Two third series antigens transmitted together – A possible fourth SD locus? *Proc. VIth Inter. Histocompatibility Workshop*, MUNKSGARD, Copenhagen. pp. 343–347.
40. Thomson, G.J. and M.W. Feldman. Population genetics of modifiers of meiotic drive: IV. On the evolution of sex-ratio distortion. *Theor. Pop. Biol.* **8**: 202–211.
41. Feldman, M.W. Heritability and genetic differences. *Stanford Review*, Spring, pp. 3–7.
42. Feldman, M.W. and R.C. Lewontin. The heritability hang-up. *Science* **190**: 1163–1168.
43. Feldman, M.W. Inside evolutionary genetics. (Lead book review), *The Quart. Rev. Biol.* **50**: 293–295.

1976

44. Ewens, W.J. and M.W. Feldman. The theoretical assessment of selective neutrality. pp. 303–337. In S. Karlin and E. Nevo (eds.) *Population Genetics and Ecology*, Academic Press.
45. Feldman, M.W. and J. Krakauer. Genetic modification and modifier polymorphism. pp. 547–582. In S. Karlin and E. Nevo (eds.) *Population Genetics and Ecology*. Academic Press, New York.
46. Feldman, M.W. and L.L. Cavalli-Sforza. Cultural and biological evolutionary processes, selection for a trait under complex transmission. *Theor. Pop. Biol.* **9**: 239–259.
47. Feldman, M.W. and R.C. Lewontin. Heritability of IQ. *Science* **194**: 12–14.
48. Thomson, G.J. and M.W. Feldman. Population genetics of modifiers of meiotic drive. III. Equilibrium analysis of a general model for the genetic control of segregation distortion. *Theor. Pop. Biol.* **10**: 10–25.
49. Cavalli-Sforza, L.L. and M.W. Feldman. Evolution of continuous variation: Direct approach through joint distribution of genotypes and phenotypes. *Proc. Natl. Acad. Sci. USA* **73**: 1689–1692.
50. Brown, T.H., D.H. Perkel, and M.W. Feldman. Evoked neurotransmitter release statistical effects of nonuniformity and nonstationarity. *Proc. Natl. Acad. Sci. USA* **73**: 2913–2917.
51. Feldman, M.W. and M.A. Asmussen. Density dependent selection. I. A stable feasible equilibrium may not be attainable. *J. Theor. Biol.* **64**: 603–618.

1977

52. Feldman, M.W. and L.L. Cavalli-Sforza. The evolution of continuous variation. II. Complex transmission and assortative mating. *Theor. Pop. Biol.* **11**: 161–181.
53. Feldman, M.W. and L.L. Cavalli-Sforza. Selection and non-Mendelian variability. pp. 519–530. In F.B. Christiansen and T.M. Fenchel (eds.) *Measuring Selection in Natural Populations*. Springer-Verlag, Berlin.
54. Feldman, M.W. and L.L. Cavalli-Sforza. Quantitative inheritance, stabilizing selection and cultural evolution. pp. 761–777 in E. Pollack, O. Kempthorne and T.B. Bailey Jr (eds.), *Proc. Int. Conf. on Quant. Genet.* Iowa State University Press, Ames.
55. Payne, R., M. Feldman, H. Cann, and J.G. Bodmer. A comparison of HLA data of the North American black with African black and North American caucasoid populations. *Tissue Antigens* **9**: 135–147.
56. Franklin, I.R. and M.W. Feldman. Two loci with two alleles: Linkage equilibrium and linkage disequilibrium can be simultaneously stable. *Theor. Pop. Biol.* **12**: 95–113.
57. Payne, R., F.C. Grumet, H. Perkins, H. Cann, B. Colombe, E. Engleman, M.W. Feldman, and K. Cochrum. Segregation of genes for B lymphocyte antigens with other chromosome 6 markers in man. *Histocompatibility Testing*, MUNKSGAARD, Copenhagen, pp. 549–557.

58. Feldman, M.W. and L.L. Cavalli-Sforza. Random sampling drift under non-Mendelian transmission. *Proc. of the 41st Session of the Int. Statistical Inst.*, New Delhi, pp. 151–164.

1978

59. Cavalli-Sforza, L.L. and M.W. Feldman. Phenotypes, Genotypes and Cultural Evolution. (In Italian), *Ricerche di Psicologia*, May, pp. 33–46.
60. Cavalli-Sforza, L.L. and M.W. Feldman. Towards a theory of cultural evolution. *Interdisciplinary Science Reviews* **3**: 99–107.
61. Cavalli-Sforza, L.L. and M.W. Feldman. The evolution of continuous variation. III. Joint transmission of genotype, phenotype and environment. *Genetics* **90**: 391–425.
62. Ammerman, A.J. and M.W. Feldman. Replicated collection of site surfaces. *Amer. Antiquity* **43**: 734–740.
63. Cavalli-Sforza, L.L. and M.W. Feldman. Dynamics and statistics of traits under the influence of cultural transmission. pp. 133–143. In Morton, N.E. and C.S. Chung (Eds.) *Epidemiology*. Academic Press, New York.
64. Cavalli-Sforza, L.L. and M.W. Feldman. Darwinian selection and “altruism”. *Theor. Pop. Biol.* **14**: 268–280.
65. Uyenoyama, M.K. and M.W. Feldman. The genetics of sex ratio distribution by cytoplasmic infection under maternal and contagious transmission: An epidemiological study. *Theor. Pop. Biol.* **14**: 471–497.
66. Karlin, S. and M.W. Feldman. Simultaneous stability of $D=0$ and $D\neq 0$ for multiplicative viabilities at two loci. *Genetics* **90**: 813–825.

1979

67. Perkel, D.H. and M.W. Feldman. Neurotransmitter release statistics: Moment estimates for inhomogeneous Bernoulli trials. *J. Math. Biol.* **7**: 31–40.
68. Feldman, M.W. and L.L. Cavalli-Sforza. On hereditary transmission in diseases of complex etiology. pp. 203–228. In C. Sing and M. Skolnick (eds.) *Genet. Anal. of Common Diseases*.
69. Feldman, M.W. and L.L. Cavalli-Sforza. Aspects of variance and covariance analysis with cultural inheritance. *Theor. Pop. Biol.* **15**: 276–307.
70. Uyenoyama, M., M.W. Feldman, and L.L. Cavalli-Sforza. Evolutionary effects of contagious and familial transmission. *Proc. Natl. Acad. Sci. USA* **76**: 420–424.
71. Burton, R.S., M.W. Feldman, and J.W. Curtsinger. Population genetics of *Tigriopus californicus* (*Copepoda: Harpacticoida*): I. Population structure along the central California coast. *Mar. Ecol. Prog. Ser.* **1**: 29–39.
72. Feldman, M.W. and U. Liberman. On the number of stable equilibria and the simultaneous stability of fixation and polymorphism in two-locus models. *Genetics* **92**: 1355–1360.

1980

73. Uyenoyama, M. and M.W. Feldman. Theories of kin and group selection: A population genetics perspective. *Theor. Pop. Biol.* **17**: 380–414.
74. Curtsinger, J.W. and M.W. Feldman. Experimental and theoretical analysis of the “sex-ratio” polymorphism in *Drosophila pseudoobscura*. *Genetics* **94**: 445–466.
75. Liberman, U. and M.W. Feldman. On the evolutionary significance of Mendel’s ratios. *Theor. Pop. Biol.* **17**: 1–15.
76. Feldman, M.W., F.B. Christiansen, and L.D. Brooks. Evolution of recombination in a constant environment. *Proc. Natl. Acad. Sci. USA* **77**: 4838–4841.
77. Brown, A.H.D., M.W. Feldman, and E. Nevo. Multilocus structure of natural populations of *Hordeum spontaneum*. *Genetics* **96**: 523–536.
78. Feldman, M.W., F.J. Ayala, B. Bengtsson, D. Bruckner, R.H. Crozier, C. Vogel, G.C. Williams, and R.W. Wrangham. Genetics and social behavior. pp. 221–232. In Markl, H. (ed.) *Evolution of Social Behavior: Hypothesis and Empirical Tests*. Verlag Chemie, Weinheim.

1981

79. Uyenoyama, M. and M.W. Feldman. On relatedness and adaptive topography in kin selection. *Theor. Pop. Biol.* **19**: 87–123.
80. Feldman, M.W. and L.L. Cavalli-Sforza. Further remarks on Darwinian selection and “altruism”. *Theor. Pop. Biol.* **19**: 251–260.
81. Clark, A.G. and M.W. Feldman. Disequilibrium between linked inversions: An alternative hypothesis. *Heredity* **46**: 379–390.
82. Clark, A.G., M.W. Feldman, and F.B. Christiansen. The estimation of epistasis in components of fitness in experimental populations of *Drosophila melanogaster* I. A two-stage maximum likelihood model. *Heredity* **46**: 321–346.
83. Clark, A.G. and M.W. Feldman. The estimation of epistasis in components of fitness in experimental populations of *Drosophila melanogaster* II. Assessment of meiotic drive, viability, fecundity and sexual selection. *Heredity* **46**: 347–377.
84. Karlin, S. and M.W. Feldman. A theoretical and numerical assessment of genetic viability. *Genetics* **97**: 475–493.
85. Brown, A.H.D. and M.W. Feldman. Population structure of multilocus associations. *Proc. Natl. Acad. Sci. USA* **78**: 5913–5916.
86. Feldman, M.W. and L.L. Cavalli-Sforza. Assortative mating, selection and mutation models for continuous variation: A reply to Felsenstein. *Theor. Pop. Biol.* **19**: 370–376.
87. Holsinger, K.E. and M.W. Feldman. A single locus model of selection in permanent translocation heterozygotes. *Theor. Pop. Biol.* **20**: 218–240.
88. Burton, R.S. and M.W. Feldman. Population genetics of *Tigriopus californicus*. II. Differentiation among neighboring populations. *Evolution* **35**: 1192–1205.
89. Clark, A.G. and M.W. Feldman. Density-dependent fertility selection in experimental populations of *Drosophila melanogaster*. *Genetics* **98**: 849–869.

90. Uyenoyama, M., M.W. Feldman, and L.D. Mueller. Population genetic theory of kin selection: Multiple alleles at one locus. *Proc. Natl. Acad. Sci. USA* **78**: 5036–5040.
91. Burton, R.S., M.W. Feldman, and S.G. Swisher. Linkage relationships among five enzyme-coding gene loci in the copepod *Tigriopus californicus*: A genetic confirmation of achiasmatic meiosis. *Biochemical Genetics* **19**: 1237–1245.
92. Price, R.A., K-H. Chen, L.L. Cavalli-Sforza, and M.W. Feldman. Models of spouse influence and their application to smoking behavior. *Social Biology* **28**: 14–29.
93. Feldman, M. W. Book review. The Genetics of Altruism. *New Engl. J. Med.* **305**: 352.

1982

94. Feldman, M.W. and L.L. Cavalli-Sforza. Darwinian selection and behavioral evolution. pp. 31–40. In Gove, W.R. and G.R. Carpenter (eds.) *The Fundamental Connection Between Nature and Nurture: A Review of the Evidence*. D.C. Heath and Co.
95. Chen, K-H., L.L. Cavalli-Sforza, and M.W. Feldman. A study of cultural transmission in Taiwan. *Human Ecology* **10**: 365–382.
96. Feldman, M.W. and I. Eshel. On the theory of parent-offspring conflict: A two-locus genetic model. *Amer. Natur.* **119**: 285–292.
97. Cavalli-Sforza, L.L., M.W. Feldman, K.H. Chen, and S.M. Dornbusch. Theory and observation in cultural transmission. *Science* **218**: 19–27.
98. Liberman, U. and M.W. Feldman. On the evolution of fluctuating segregation distortion. *Theor. Pop. Biol.* **21**: 301–317.
99. Eshel, I. and M.W. Feldman. On evolutionary genetic stability of the sex ratio. *Theor. Pop. Biol.* **21**: 430–439.
100. Eshel, I. and M.W. Feldman. On the evolution of sex determination and the sex ratio in haplodiploid populations. *Theor. Pop. Biol.* **21**: 440–450.
101. Uyenoyama, M.K. and M.W. Feldman. Population genetic theory of kin selection. II. The multiplicative model. *Amer. Natur.* **120**: 614–627.
102. Burton, R.S. and M.W. Feldman. Population genetics of coastal and estuarine invertebrate: Does larval behavior influence population structure? pp. 537–551. In V. Kennedy (ed.) *Estuarine Comparisons*. Academic Press.
103. Holsinger, K.E. and M.W. Feldman. The evolution of recombination in permanent translocation heterozygotes. *Theor. Pop. Biol.* **22**: 278–297.
104. Burton, R.S. and M.W. Feldman. Changes in free amino acid concentrations during osmotic response in the intertidal copepod *Tigriopus californicus*. *Comp. Biochem. Physiol.* **73A**: 441–445.

1983

105. Burton, R.S. and M.W. Feldman. Physiological effects of an allozyme polymorphism: Glutamate-pyruvate transaminase and response to hyperosmotic stress in the copepod *Tigriopous californicus*. *Biochemical Genetics* **21**: 239–251.
106. Holsinger, K.E. and M.W. Feldman. Linkage modification with mixed random mating and selfing: A numerical study. *Genetics* **103**: 323–333.
107. Christiansen, F.B. and M.W. Feldman. Selection in complex genetic systems. V. Some properties of mixed selfing and random mating with two loci. *Theor. Pop. Biol.* **23**: 257–272.
108. Cavalli-Sforza and M.W. Feldman. The paradox of the evolution of communication and of social interactivity. *Proc. Natl. Acad. Sci. USA* **80**: 2017–2021.
109. Cavalli-Sforza, L.L., M.W. Feldman, S. Dornbusch, and K-H. Chen. Anthropology and cultural transmission. *Nature* **304**: 124.
110. Feldman, M.W., F.B. Christiansen, and U. Liberman. On some models of fertility selection. *Genetics* **105**: 1003–1010.
111. Holsinger, K.E. and M.W. Feldman. Modifiers of mutation rate: Evolutionary optimum with complete selfing. *Proc. Natl. Acad. Sci. USA* **80**: 6732–6734.

1984

112. Feldman, M.W. and F.B. Christiansen. Population genetic theory of the cost of inbreeding. *Amer. Natur.* **123**: 642–653.
113. Feldman, M.W. and L.L. Cavalli-Sforza. Cultural and biological evolutionary processes: Gene-culture disequilibrium. *Proc. Natl. Acad. Sci.* **81**: 1604–1607.
114. Holsinger, K.E., M.W. Feldman, and F.B. Christiansen. The evolution of self-fertilization in plants: A population genetic model. *Amer. Natur.* **124**: 446–453.
115. Eshel, I. and M.W. Feldman. Initial increase of new mutants and some continuity properties of ESS in two-locus systems. *Amer. Natur.* **124**: 631–640.

1985

116. Feldman, M.W. and U. Liberman. A symmetric two-locus fertility model. *Genetics* **109**: 229–253.
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