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

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–	Director, Morrison Institute for Population and Resource Studies, Stanford
1993–	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 ⍰ 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? P*roc. 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. I*nterdisciplinary 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. Analy. 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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