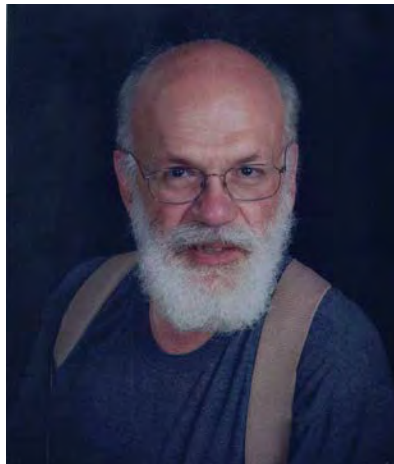


CURRICULUM VITAE

BRUCE J. TURNER

Department of Biological Sciences
VIRGINIA TECH
Blacksburg, VA 24061-0406



GENERAL BIOGRAPHY

1. Born 19 September, 1945, at Brooklyn, New York.
2. Divorced; two adult children from first marriage; two grandchildren.
3. E-mail: fishgen@vt.edu

EDUCATION

1. Bachelor of Science; Brooklyn College, City University of New York; June, 1966.
2. Master of Arts; University of California at Los Angeles; June 1967.
3. Doctor of Philosophy; University of California at Los Angeles; March 1972.
[Dissertation: "Genetic Divergence and Variation of Death Valley Pupfish Populations," major professors: B. W. Walker (dec.) and V. Walters (dec.).]

HONORS, SCHOLARSHIPS, FELLOWSHIPS, AND AWARDS

1. *New York State Regents Scholarship*; September, 1962 to June, 1966.
2. *United States Public Health Service Predoctoral Fellowship* (General Medical

Biology); September, 1968 to September 1970.

3. *Patronym: Campellolebias brucei* Vaz-Ferreira and Sierra, 1974 (Commun. Zool. Museo. Hist. Natur. Montevideo No. 138, Vol. **10**).
4. *Invited Participant: Third International Conference on Isozymes*, Yale University, 18 April 1974.
5. *Invited Participant: International Meeting, "Mechanisms of Speciation"*, Accademia Nazionale dei Lincei, Rome; May, 1981.
6. *Invited Participant: First International Symposium, Systematics and Ecology of Neotropical Freshwater Fishes*. DeKalb, IL. June 1982.
7. *Invited Participant: Symposium on the Evolution of Fish Species Flocks*. Tallahassee, FL. June 1983.
8. *Invited Participant: Symposium on the Evolution of Salmonid Fishes*. Brighton, Sussex, England. July 1985.
9. *Invited Participant: Symposium on the Evolution and Ecology of Unisexual Vertebrates*, Albany, NY. 1987.
10. *Invited Participant: DNA Fingerprinting Workshop*, Nottingham, England. December 1989.
11. *Keynote Address: International Symposium Biochemical Genetics and Taxonomy of Fishes*; Belfast, Northern Ireland; July 1991.
12. *Invited Symposium Speaker: 7th Biotechnology Symposium; DNA Fingerprinting/Profiling*, Biological Council of the UK/CIBA, Cambridge; 12 December 1991.
13. *Keynote Address: First Annual Harrington Conference: Rivulus marmoratus as a Research Tool*. Charleston, SC; 13 Feb. 1992.
14. *Invited Participant: Gordon Conference on Molecular Evolution*, Ventura, CA. Jan. 1996.
15. *Invited Participant: American Society of Ichthyologists & Herpetologists Symposium: Nuclear DNA and the Evolutionary Genetics of Fishes, Amphibians, and Reptiles*. Seattle, WA. June 26-July 2, 1997.
16. *Invited Participant: NATO Advanced Study Institute, Advances in Molecular Ecology*, Erice, Sicily, March 20-31, 1998.

17. *Invited Participant. Gordon Conference on Molecular Evolution, Ventura, CA. Jan. 2002.*
18. *Elected Fellow, American Killifish Assoc. May 2009.*

PROFESSIONAL EXPERIENCE

1. Undergraduate Research Assistant, 1964-1966; Dept. Ichthyol., American Museum Natural History.
2. Teaching Assistant; September, 1967 to June, 1968; Dept. of Zoology (now Dept. of Biology), UCLA.
3. Associate Instructor; September, 1970 to June 1971; Dept. of Zoology, UCLA.
4. Postdoctoral Fellow; Biochemical and Human Genetics (with S. D. Cedarbaum); January, 1972 to August, 1974; Division of Medical Genetics, Mental Retardation unit, UCLA Neuropsychiatric Institute.
5. Research Associate; Rockefeller University (with A. E. Mirsky); September, 1974 to May, 1976.
6. Visiting Research Scientist; Fish Division, Museum of Zoology, University of Michigan (with R. R. Miller); September, 1976 to June, 1978.
7. Ass't Prof. of Zoology, Dept. Biol. Va Tech. September 1978 to April, 1984.
8. Assoc. Prof. of Biology, Dept. Biol., Va Tech. April, 1984- Dec. 2010 (ret).
9. Assoc. Prof. Emeritus & Instructor, Dept. Biol. Sciences, Va Tech, Jan. 2011 – present.

PUBLICATIONS

I. Invited Chapters in Symposia or Professional Books

1. Turner, B. J. and S. D. Cedarbaum, 1975. Gel isoelectric focusing and the microheterogeneity of human glucose-6-phosphate dehydrogenase. Pp. 653-660. *in: C. L. Markert (ed.). Isozymes. I. Molecular Structure.* Academic Press, New York.
2. Turner, B. J. 1982. The evolutionary genetics of a unisexual fish, *Poecilia formosa*. Proc. Int. Mtg. Mechanisms of Speciation Rome, May 1980. Pp.

265-306 in: C. Barigozzi (ed.) *Mechanisms of Speciation*. Progr. Clin. Biol. Res. Vol. 96. Alan R. Liss, Inc. N.Y.

3. Turner, B. J., T. A. Grudzien, K. P. Adkisson and M. M. White. 1983. Evolutionary genetics of trophic differentiation in goodeid fishes of the genus *Ilyodon*. pp. 81-94 in: *Evolutionary Ecology of Neotropical Freshwater Fishes*, T. W. Zaret (ed.). *Environ. Biol. Fish.* Vol. 3 (E. K. Balon, ser. ed). W. Junk, The Hague *Proc. 1st Int. Symp. Syst. Evol. Ecol. Neotrop. Freshw. Fish.* June 1982, Dekalb. IL.
4. Davis, W.P., S. S. Taylor & B. J. Turner. 2003. Relevance of Mangrove Rivulus biology to ecological and laboratory studies: an encapsulated summary. pp 91- 93 in: : *Proc. 9th Symp. On the Natural History of the Bahamas*, D. L. Smith & S. Smith (eds.) Gerace Research Ctr., San Salvador, Bahamas.
5. Taylor, D.S. W.P. Davis & B. J. Turner. 2003. The status of *Rivulus marmoratus* (Pisces: Aplocheilidae) in the Bahamas. pp 94-99 in: *Proc. 9th Symp. On the Natural History of the Bahamas*, D. L. Smith & S. Smith (eds.) Gerace Research Ctr., San Salvador, Bahamas.

II. Peer-Reviewed Contributions

1. Turner, B. J. 1966. A new record and preliminary observations of the teleost *Pantanodon podoxys* Myers (Atheriniformes: Cyprinodontidae). *J. American Killifish Assoc.* **3**: 31-32.
2. Turner, B. J. 1967. Discovery of the rivuline cyprinodontid teleost *Rachovia hummelincki* near Barranquilla, Colombia, with notes on its biology and distribution. *Copeia* **1967**(4): 843-846.
3. Thomerson, J. E. and B. J. Turner. 1973. *Rivulus stellifer*, a new species of annual killifish from the Orinoco basin of Venezuela. *Copeia* **1973**(4): 783-787.
4. Turner, B. J. 1974. Genetic divergence of Death Valley pupfish species: biochemical versus morphological evidence. *Evolution* **28**: 281-294.
5. Thomerson, J. E., D. C. Taphorn, N. R. Foster and B. J. Turner. 1976. *Rachovia splendens* Dahl, a synonym of the annual killifish *Rachovia brevis* (Regan). *Copeia* **1976**(1): 204-207.

6. Turner, B. J. and R. K. Liu. 1976. The specific identity of the introduced pupfish population at Zzyzx Springs, California. *Copeia* **1976**(1): 211-212.
7. Turner, B. J. and R. K. Liu. 1977a. Extensive interspecific genetic compatibility in the New World killifish genus *Cyprinodon*. *Copeia* **1977**(2): 259-269.
8. Turner, B. J. and R. K. Liu. 1977b. Xanthic variants in a natural population of the Salt Creek pupfish, *Cyprinodon salinus*. *Southwestern Nat.* **22**:538-540.
9. Turner, B. J., B. L. H. Brett, E. M. Rasch and J. S. Balsano. 1980. Evolutionary genetics of a gynogenetic fish, *Poecilia formosa*, the Amazon molly. *Evolution* **34**:246-258.
10. Turner, B. J. and D. J. Grosse. 1980. Trophic differentiation in *Ilyodon*, a genus of stream-dwelling goodeid fishes: speciation versus ecological polymorphism. *Evolution* **34**: 259-270.
11. Turner, B. J., R. R. Miller and E. M. Rasch. 1980. Significant differential gene duplication without ancestral tetraploidy in a genus of Mexican fishes. *Experientia* **36**: 927-930.
12. Turner, B. J., and B. L. H. Brett & R. R. Miller. 1980. Interspecific hybridization and the evolutionary origin of a gynogenetic, fish, *Poecilia formosa*. *Evolution* **34**: 917-922.
13. Monaco, P. J., E. M. Rasch, J. S. Balsano and B. J. Turner. 1982. Muscle protein phenotypes and the probable evolutionary origin of a unisexual fish, *Poecilia formosa*, and its triploid derivatives. *J. Exp. Zool.* **221**:265-274.
14. Turner, B. J. 1983. Does matrotrophy promote chromosomal evolution in viviparous fishes? *Amer. Nat.* **122**: 152-154.
15. Brett, B. L. H., and B. J. Turner. 1983. Genetic divergence in the *Poecilia sphenops* complex (Pisces: Poeciliidae) of Middle America. *Biochem. Syst. Ecol.* **11**: 127-137.
16. Turner, B. J. 1983. Genic variation and differentiation of remnant natural populations of the desert pupfish, *Cyprinodon macularius*. *Evolution* **37**:690-700.
17. Turner, B. J., J. S. Balsano, P. J. Monaco and E. M. Rasch. 1983. Clonal diversity and evolutionary dynamics in a diploid-triploid breeding complex of unisexual fishes. *Evolution* **37**: 798-809.

18. Murphy, B. R., L. A. Nielsen and B. J. Turner. 1983. Use of genetic tags to evaluate stocking success for reservoir walleyes. *Trans. Amer. Fish. Soc.* **112**: 457-463.
19. Turner, B. J., T. A. Grudzien, K. P. Adkisson and M. M. White. 1983. Evolutionary genetics of trophic differentiation in goodeid fishes of the genus *Ilyodon*. *Env. Biol. Fishes* **9**: 159-172.
20. Grudzien, T. A. and B. J. Turner. 1983. Biochemical systematics of *Allodontichthys*, a genus of goodeid fishes. *Biochem. Syst. Ecol.* **11**: 383-388.
21. White, M. M. and B. J. Turner. 1984. Microgeographic differentiation in a stream population of *Goodea atripinnis*, a ubiquitous fish species from the Mexican plateau. *Env. Biol. Fishes* **10**: 123-127.
22. Grudzien, T. A. and B. J. Turner. 1984. Genic identity and geographic differentiation of trophically dichotomous *Ilyodon* (Teleostei: Goodeidae). *Copeia* **1984**: 102-107.
23. Turner, B. J. 1984. Evolutionary genetics of artificial refugium populations of an endangered species. *Copeia* **1984**: 364-369.
24. Grudzien, T. A. and B. J. Turner. 1984. Direct evidence that the *Ilyodon* morphs are a single biological species. *Evolution* **38**: 402-407.
25. White, M. M. and B. J. Turner. 1985. Intralacustrine differentiation in two species of goodeid fishes. *Copeia* **1985**: 112-118.
26. Turner, B. J., T. A. Grudzien, K. P. Adkisson and R. A. Worrell. 1985. Extensive chromosomal divergence within a single river basin in the goodeid fish, *Ilyodon furcidens*. *Evolution* **39**: 122-134.
27. Rogier, C. C., J. J. Ney and B. J. Turner. 1985. Electrophoretic analysis of genetic variability in a landlocked striped bass population. *Trans. Amer. Fish. Soc.* **114**: 244-249.
28. Ewulonu, U. K., R. Haas and B. J. Turner. 1985. A multiple sex chromosome system in the annual killifish, *Nothobranchius guentheri*. *Copeia* **1985**: 503-508.
29. White, M. M. and B. J. Turner. 1986. Geographic isolation, gene flow and population differentiation in *Goodea atripinnis* (Pisces: Goodeidae). *Genetica* **69**: 157-160.

30. Turner, B. J. and H. R. Steeves. 1989. Induction of spermatogenesis in an all-female fish species by treatment with an exogenous androgen. pp. 113-122 *in*: R. Dawley and J. Bogart (eds). *Evol. and Ecol. of the Unisexual Vertebrates*. N.Y. State Museum, Bull. No. 466, Albany.
31. Davis, W. P., D. S. Taylor and B. J. Turner. 1990. Field observations of the ecology and habits of the Mangrove *Rivulus* (*Rivulus marmoratus*) in Belize and Florida. *Ichthyol. Explor. Freshwater* **1**(2):123-134.
32. Turner, B. J., J. F. Elder, Jr., T. F. Laughlin and W. P. Davis. 1990. Genetic variation in clonal vertebrates detected by simple-sequence DNA fingerprinting. *Proc. Nat. Acad. Sci. USA* **87**: 5653-5657.
33. Elder, J. E., B. J. Turner, J. E. Thomerson and D. C. Taphorn. 1991. Chromosomal divergence and heterogameity in two annual killifishes of the genus *Pterolebias*. *Genome* **34**: 674-676.
34. Turner, B. J., J. F. Elder, Jr and T. F. Laughlin. 1991. Repetitive DNA sequences and the divergence of fish populations: some hopeful beginnings. *J. Fish Biol.* **39** (Suppl. A): 131-142.
35. Turner, B. J., W. P. Davis and D. S. Taylor. 1992. Abundant, naturally-occurring males of a selfing hermaphrodite fish. *J. Fish Biol.* **40**: 307-310.
36. Turner, B. J., N. Diffoot & E. Rasch. 1992. The callichthyid catfish *Corydoras aeneus* is an unresolved diploid-tetraploid sibling species complex. *Ichthyol. Explor. Freshwater* **3**: 17-23.
37. Grudzien, T. A., M. M. White and B. J. Turner. 1992. Biochemical systematics of the viviparous fish family Goodeidae (Teleostei: Cyprinodontoidea). *J. Fish Biol* **40**: 801-814.
38. Turner, B. J., J. F. Elder, Jr., T. F. Laughlin, W. P. Davis, and D. S. Taylor. 1992. Extreme clonal diversity and divergence in populations of a selfing hermaphroditic fish. *Proc. Nat. Acad. Sci. USA* **89**:10643-10647.
39. Heath, A. G., B. J. Turner and W. P. Davis. 1993. Temperature preferences and tolerances of three fish species inhabiting hyperthermal ponds on mangrove islands. *Hydrobiologia* **259**:47-55.
40. Elder, J. E., Jr., B. J. Turner, J. E. Thomerson and D. C. Taphorn. 1993. Karyotypes of nine Venezuelan annual killifishes (Cyprinodontidae) with comments on karyotype differentiation in annual killifishes. *Ichthyol. Explor. Freshw.* **4**:261-268.

41. Jacobson, K. M., O. K. Miller, Jr. and B. J. Turner. 1993. Randomly amplified polymorphic DNA markers are superior to somatic incompatibility tests for discriminating genotypes in natural populations of the ectomycorrhizal fungus *Suillus granulatus*. *Proc. Nat. Acad. Sci. USA* **90**:9159-9163.
42. Elder, J. F., Jr., and B. J. Turner. 1994. Concerted evolution at the population level: Pupfish *HindIII* satellite DNA sequences. *Proc. Nat. Acad. Science USA* **91**:994-998.
43. Laughlin, T. F. and B. J. Turner. 1994. Multilocus DNA fingerprinting detects geographic differentiation in the outbred and abundant fish species *Poecilia latipinna*. *Molec. Ecol.* **4**:263-266.
44. Taylor, D. S., W. P. Davis and B. J. Turner. 1995. *Rivulus marmoratus*: ecology of distributional patterns in Florida and the central Indian River lagoon. *Bull. Mar. Sci.* **57**:202-207.
45. Davis, W. P., D. S. Taylor and B. J. Turner. 1995. Does the autecology of the mangrove *Rivulus* fish (*Rivulus marmoratus*) reflect a paradigm for mangrove ecosystem sensitivity? *Bull. Mar. Sci.* **57**:208-214.
46. Laughlin, T. F., B. Lubinski, E.-H. Park, D. S. Taylor and B. J. Turner. 1995. Clonal stability and mutation in the self-fertilizing hermaphroditic fish, *Rivulus marmoratus*. *J. Hered.* **86**:399-402.
47. Elder, J. F., Jr. and B. J. Turner. 1995. Concerted evolution of repetitive DNA sequences in eukaryotes. *Quart. Rev. Biol.* **70**:297-322.
48. D'Orgeix, C. A. and B. J. Turner. 1995. Multiple-paternity in the red-eyed tree frog, *Agalychnis callidryas* (Cope) *Molec. Ecol.* **5**:505-508.
49. Lubinski, B. A., W. P. Davis, D. S. Taylor, and B. J. Turner. 1995. Outcrossing in a natural population of a selfing hermaphroditic fish. *J. Heredity* **86**:469-473.
50. Laughlin, T. F. and B. J. Turner. 1996. Hypervariable markers reveal high genetic variability within striped bass populations of the lower Chesapeake Bay. *Trans. Amer. Fish. Soc.* **125**: 49-55.
51. Elder, J.F., Jr. and B.J. Turner. 1996. Addendum to: concerted evolution of repetitive DNA sequences in eukaryotes. *Quart. Rev. Biol.* **71**: 79.
52. Sola, L., M. Marzovillo, A.R. Rossi, E. Gornung, S. Bressanello & B.J. Turner. 1997. Cytogenetic analysis of a self-fertilizing fish, *Rivulus marmoratus*: remarkable chromosomal constancy over a vast geographic

- range. *Genome* **40**; 945-949.
53. Duvernell, D.D. & B. J. Turner . 1998. Evolutionary genetics of Death Valley pupfish populations: Mitochondrial DNA sequence variation and population structure. *Molec. Ecol.* **7**: 279-288.
 54. Duvernell, D.D. & B.J. Turner. 1998. *Swimmer 1*, a new LINE family in teleost genomes with sequence similarity to mammalian L1. *Molec. Biol. Evol.* **15**: 1791-1793.
 55. Duvernell, D.D. & B.J. Turner. 1999. Variation and divergence of Death Valley pupfish populations at retrotransposon-defined loci. *Molec. Biol. Evol.* **16**: 363-371.
 56. Weibel, A.C., T.E. Dowling & B.J. Turner. 1999. Evidence that an outcrossing population is a derived lineage in a hermaphroditic fish (*Rivulus marmoratus*). *Evolution* **53**: 1217-1225.
 57. Taylor, D.S., M.T. Fisher & B.J. Turner 2001. Homozygosity and heterozygosity in three populations of *Rivulus marmoratus*. *Environ. Biol. Fishes* **61**: 455-459.
 58. Nirchio, M., B.J. Turner, J.E. Perez, J.I. Gaviria & H. Cequea. 2002. Karyotypes of three species of toadfish (Batrachoididae: Teleostei) from Venezuela. *Scientia Marina* (Barcelona) **66**(1): 1 - 4.
 59. Nirchio , M., H. Cequea & B.J. Turner . 2003. Karyotypic characterization and nucleolus organizer regions in *Cyprinodon dearborni* Meek, 1909 from Venezuela. *Interciencia-* **28** (6): 352-354.
 60. Mackiewicz, M., A. Tatarenkov, B.J. Turner & J.C. Avise. 2006a. A mixed-mating strategy in a hermaphroditic vertebrate. *Proc. Royal Soc. Lond. Ser. B* **273**: 2449-2452.
 61. Mackiewicz, M., A. Tatarenkov, D.S. Taylor, B.J. Turner & J.C. Avise. 2006b Extensive outcrossing and androdioecy in a in a vertebrate species that otherwise reproduces as a self-fertilizing hermaphroditie. *Proc. Nat. Acad. Sci. USA* **103**: 9924 – 9928.
 62. Turner, B.J. , M. T. Fisher, D. S Taylor , W. P. Davis & .B. L. Jarrett. 2006. Evolution of “maleness” and outcrossing in a population of the self-fertilizing killifish, *Kryptolebias marmoratus*. *Evol. Ecol. Res.* **8**: 1475 – 1483.
 63. Tatarenkov, A., Gao, H., Mackiewicz, M., Taylor, D.S., Turner, B.J. & J.C. Avise. 2007. Strong population structure despite evidence of recent

migration in a selfing hermaphroditic vertebrate, the Mangrove Killifish (*Kryptolebias marmoratus*). *Molec. Ecol.* **16**: 2701-2711.

64. Taylor, D.S., B.J. Turner, W.P. Davis, & B.B. Chapman. 2008. A novel terrestrial fish habitat inside emergent logs. *Am. Nat.* **171**: 263-266.
65. Turner, B.J., D.D. Duvernell, T.M. Bunt & M. Barton 2008. Reproductive isolation among endemic pupfishes (*Cyprinodon*) on San Salvador Island, Bahamas: Microsatellite evidence. *Biol. J. Linn. Soc.* **95**: 566-582.
66. Haney, R.A., B.J. Turner & D.M. Rand. 2009. A cryptic lineage within the pupfish *Cyprinodon dearborni* suggests multiple colonizations of South America. *J. Fish Biol.* **75**: 1108-1114.
67. Turner, B, J. 2009. The anthropologist's annuals: a personal memoir of Dr. Louis Leakey and *Nothobranchius*. *J. Amer. Killifish Assoc.* **42**: 77-93. [Note: This article was peer-reviewed. It contains considerable historical scholarship.]
68. Garcia, G., Gutierrez, V., Rios, N. Turner, B. Santinaque, F., Lopez-Carro, B. & Folle, G. 2014. Burst speciation and genomic expansion in the neotropical annual killifish genus *Austrolebias* (Cyprinodontiformes, Rivulidae). *Genetica* **42**: 87–98.
69. Malloy, P.P., J.D. Reynolds, B.J. Turner D.S. Taylor, & I.M. Cote [2014?} Between the devil and the deep blue sea: simultaneous inbreeding and outbreeding depression in a mixed-mating vertebrate. *PLos. Biol.* [submitted]
70. Haney, R.M, B.R. Sullivan, B.J. Turner & D. M. Rand [2015?]. A severe founder event associated with subspecies divergence in the estuarine teleost *Cyprinodon variegatus* leads to diversity loss and clinal variation along the Atlantic coastline. *Evolution* [submitted].
71. Tatarenkov, A., R. Earley, B. Perlman, D. S. Taylor, B.J. Turner, & J.A. Avise, [2014?]. Genetic subdivision and variation in selfing rates among Central American populations of the mangrove rivulus, *Kryptolebias marmoratus*. *J. Heredity* [submitted].

III. Contributions in Professionally Edited Journals

1. Turner, B. J. 1973a. Genetic variation of mitochondrial aspartate aminotransferase in the teleost *Cyprinodon nevadensis*. *Comp. Biochem. Physiol.* **44 B**: 89-92.

2. Turner, B. J. 1973b. Genetic divergence of Death Valley pupfish populations: species-specific esterases. *Ibid.* **46** B: 53-70.

IV. Books

1. *Evolutionary Genetics of Fishes.* (ed. B. J. Turner). 1984. *Monogr. in Evol. Biol.* Vol. **2** (M. K. Hecht, B. Wallace and G. T. Prance, series eds.). Plenum Press, New York and London. ix + 636 pp.

V. Technical Contributions

1. Turner, B. J. 1980a. Reagent economy: an NAD-linked glucose-6-phosphate dehydrogenase as an exogenous coupling enzyme in chromogenic enzyme assays. *Isozyme Bull.* **13**: 119.
2. Turner, B. J. 1980b. A multiple slicer for starch gels. *Isozyme Bull.* **13**: 113.
3. Turner, B. J., J. F. Elder, Jr. & T. F. Laughlin. 1989. Oligonucleotide probes as a general technique for DNA fingerprinting in teleost fishes. *Fingerprint News (Cambridge)* Vol. 1, No. **4**:15-16.
4. Elder, J. F., Jr., and B. J. Turner. 1992. Direct DNA sequencing of genomic repeats without cloning or amplification. *The NEB Transcript* Vol. **4**, No. 1 pg. 14.
5. Elder, J. F., Jr. and B. J. Turner. 1993. A convenient chloroform coloring agent useful in DNA sample preparation. *Biotechniques* **14**:894.
6. Laughlin, T. F., B. Lubinski and B. J. Turner. 1994. Multilocus DNA fingerprinting of fishes with oligonucleotide probes and direct hybridization in agarose gels, pp. 183-190 in: *Techniques in Fish Immunology.* (J. S. Stolen et al., ed). Vol. **3**; SOS Publ., Fair Haven, NJ.

VI. Preliminary Communications

1. Turner, B. J., B. L. H. Brett, E. M. Rasch & J. S. Balsano. 1980. Evolutionary genetics of the Amazon molly, *Poecilia formosa*, a gynogenetic unisexual fish. *Isozyme Bull.* **13**: 103.
2. Turner, B. J. & D. J. Grosse. 1980. Trophic diversity in a genus of Mexican stream fishes: Ecological polymorphism or speciation? *Isozyme Bull.* **13**: 105.

3. Turner, B. J., E. M. Rasch & R. R. Miller. 1980. Apparent differential gene duplication in the evolution of a genus of diploid goodeid fishes. *Isozyme Bull.* **13**: 62.
4. B. L. Brett and B. J. Turner. 1980. Allozymic divergences among the shortfin mollies of the *Poecilia sphenops* species complex. *Isozyme Bull.* **13**:104.
5. Murphy, B. R., L. A. Nielsen and B. J. Turner. 1980. Electrophoretic assessment of walleye (*Stizostedion vitreum*) stock structure in Claytor Lake, Virginia. *Isozyme Bull.* **13**: 100.
6. Guse, C. J., J. J. Ney and B. J. Turner. 1980. Allozymic evidence of reproductive isolation between two components of a landlocked population of striped bass. *Isozyme Bull.* **13**: 101.
7. White, M. M. and B. J. Turner. 1982. Comparative intralacustrine differentiation of two species of goodeid fishes. *Isozyme Bull.* **15**: 130.
8. White, M. M. and B. J. Turner. 1982. Genetic differentiation in Goodea, a lake-dwelling goodeid fish. *Isozyme Bull.* **15**:131.
9. Grudzien, T. A., J. C. Trost, and B. J. Turner. 1982. Genetic differentiation in *Allodontichthys*, a genus of darter-like goodeid fishes. *Isozyme Bull.* **15**: 132.
10. Turner, B. J., P. J. Monaco, E. M. Rasch, and J. S. Balsano. 1982. Clonal heterogeneity and evolutionary dynamics in triploid unisexual fishes (*Poecilia*) from the Rio Soto La Marina, Mexico. *Isozyme Bull.* **15**: 133.
11. Grudzien, T. A., and B. J. Turner. 1982. Allozyme variation in the trophic types of *Ilyodon*, a genus of goodeid fishes. *Isozyme Bull.* **15**: 134.

VII. Book Reviews

1. *Biochemical Systematics and Evolution* by Andrew Ferguson. Halsted Press. John Wiley & Sons. 1980. Reviewed in *Trans. Amer. Fish. Soc.* 110(3): 466-468, 1981.
2. *Fishes in North American Deserts*, ed. by R. J. Naiman and D. L. Soltz. John Wiley and Sons. 1981. Reviewed in *American Scientist* 70: 216-217. 1982.

3. *Ecological Genetics*, by David J. Merrell. Univ. of Minn. Press. 1981. Reviewed in *BioScience* 32: 756, 1982.
4. *Rainbowfishes of Australia and Papua New Guinea*, by G. R. Allen and N. J. Cross. TFH Publ. 1982. Reviewed in *Fisheries* 85: 44, 1983.
5. *The Evolution of Genome Size*, ed by T. Cavalier-Smith. John Wiley and Sons. 1985. Reviewed in *Journal of Heredity* 78: 61, 1987.
6. *Molecular Systematics of Fishes*, ed. by T. Kocher & C. Stapien. John Wiley & Sons. Reviewed in *Quart Rev. Biol.* Dec. 1998.
7. *Darwin's Fishes, An Encyclopedia of Ichthyology, Ecology and Evolution*, by D. Pauly, Cambridge, Univ. Press, 2004. Reviewed in *Trans Amer. Fish. Soc.* 2006.
8. *Fish Life in Special Environments*, ed. By P. Sebert, D.W. Onyango & B.G. Kapoor. Science Publ. 2008. Reviewed In *Quart. Rev. Biol.* Dec. 2008, p 414.
9. *Ecology and Evolution of Poeciliid Fishes*, ed. by J.P. Evans, T. Pilastro & I. Schlupp. Univ. Chicago Press, 2011. Reviewed In *Quart. Rev. Biol.* Dec. 2012, p 397.

VIII. Professional Webpages

1. *Rivulus marmoratus* webpage (Aug. 1998 -).
<http://www.bsi.vt.edu/rivmar/>
2. Evolutionary and Conservation Biology of the Pupfishes (*Cyprinodon*), A Symposium Honoring Robert R. Miller. (Sept. 2001). <http://www.biol.vt.edu/faculty/turner/symposium/>

IX. Popular Articles [1961 - 1965]

1. Turner, B. J. 1961a. A new method of preparing peat moss for the incubation of eggs of soil-breeding killifishes. *Aquarium (Philadelphia)* **30** (2): 109-111.
2. Turner, B. J. 1961b. *Aphyosemion filamentosum* Aquarium J. (San Francisco) **22**(10): 475-478; **22**(11): 515-520.
3. Turner, B. J. 1961c. *Spawning Julidochromis ornatus*. *Tropical Fish Hobbyist (Jersey City)* **9**(12): 39-41.

4. Turner, B. J. 1961d. Lyretails made easy. *Ibid* **10**(1): 19-21.
5. Turner, B. J. 1961e. *Aphyosemion cognatum* *Ibid* **10**(2): 15-22.
6. Turner, B. J. 1962a. A practical method for culturing microworms. *Ibid.* **10**(11): 21-22.
7. Turner, B. J. 1962b. *Nothobranchius palmquistii* *Aquarium (Philadelphia)* **31**(1): 32-33, 35.
8. Turner, B. J. and A. J. Klee. 1962a. *Aphyosemion christyi* *Aquarium J. (San Francisco)* **23**(4): 141-146.
9. Turner, B. J. and A. J. Klee. 1962b. Rare annuals from Colombia. *Ibid.* **23**(10): 407-414.
10. Turner, B. J. and A. J. Klee. 1962c. *Aphyosemion beauforti* *Ibid.* **23**(12): 514-518.
11. Turner, B. J. 1963a. The care and breeding of *Aphyosemion bivittatum* and its close relatives in Africa. *Tropicals (Chicago)* **7**(3): 14-16.
12. Turner, B. J. 1963b. *Micropanchax macrophthalmus*, the lampeye. *Tropical Fish Hobbyist (Jersey City)* **11**(12): 77-78.
13. Turner, B. J. 1964a. Raindrops and snowflakes. *Ibid* **12**(4): 23-27.
14. Turner, B. J. 1964b. An introduction to the fishes of the genus *Nothobranchius*. *African Wild Life (Johannesburg)* **18**(2): 117-121, **18**(3): 205-210, **18**(4): 325-329.
15. Turner, B. J. and A. J. Klee, 1964c. A congo jewel: *Plataplochilus cabindae*. *Aquarium J. (San Francisco)* **24**(6): 286-292.
16. Turner, B. J. and A. J. Klee. 1964d. A new fish: *Aphyosemion spurrelli* *Ibid.* **24**(12): 342-347.
17. Turner, B. J. 1965a. What's in a name? *Classica (Publ. American Killifish Assoc.)* **1**(1): 2-4.
18. Turner, B. J. 1965b. A new place for the medakas. *Ibid.* **1**(2): 1-7. Reprinted 1977, *J. Amer. Killifish Assoc.* **10**: 214-217.
19. Turner, B. J. and J. W. Pafenyk. 1965c. *Enjoy your killifish* (booklet). The Pet Library, New York City.

PAPERS PRESENTED AT PROFESSIONAL MEETINGS ¹

1. The species-specific esterases of Death Valley pupfish: *Amer. Soc. of Ichthyol. Herpetol.*, New York, N.Y. June, 1969.
2. Genetic variation in two Death Valley pupfish populations from markedly different environments: *Amer. Soc. of Ichthyol. Herpetol.*, Los Angeles, Cal. June, 1971.
3. Molecular heterogeneity of glucose-6-phosphate dehydrogenase in *Salmo gairdneri* (with S. D. Cedarbaum). Symposium: Biochemical Genetics of Fishes: *Amer. Soc. of Ichthyol. Herpetol.*, Boston, Mass. June, 1972 (invited paper).
4. Genetic divergence of Death Valley pupfish species: biochemical versus morphological evidence: *First Internat. Congr. Systematic and Evol. Biol.*, Boulder, Col. August, 1973.
5. Gel isoelectric focusing and the microheterogeneity of human glucose-6-phosphate dehydrogenase (with S. D. Cedarbaum). *Third Internat. Conference Isozymes*, New Haven, Conn. April, 1974 (invited paper).
6. Apparent gene duplications in the evolution of the goodeid fish genus *Skiffia*. *Soc. Study of Evolution*, Ithaca, N.Y. June, 1977.
7. Electrophoretic analysis of hybrid ancestry and clonal diversity of the diploid gynogenetic fish, *Poecilia formosa*, and its associated triploid gynogens. (with B. L. Brett, J. Humphries, J. Balsano and E. M. Rasch). *Amer. Soc. Ichthyol. Herpetol.*, Gainesville, June, 1977.
8. Allozyme divergence in the *Poecilia sphenops* species complex: preliminary analysis (with B. L. Brett). *Amer. Soc. Ichthyol. Herpetol.*, Gainesville, June 1977.
9. Evolutionary genetics of *Ilyodon* (with D. J. Grosse). *International Isozyme Conference*. S. Padre Island, Texas, December 5-9, 1979.

¹ Papers presented at meetings of the *American Society of Ichthyologists and Herpetologists* are accompanied by abstracts. These are not listed separately here. The abstracts are published by the Society and are distributed at its annual meetings. Papers at meetings *Society for The Study of Evolution* are usually not accompanied by abstracts.

10. A multiple slicer for starch gels. *International Isozyme Conference*. S. Padre Island, Texas, December, 1979.
11. Genic variation in morphologically dichotomous populations of *Ilyodon*, a genus of goodeid fishes. (with T. A. Grudzien). *Soc. Study Evolution*. Iowa City, Iowa, 1981.
12. Genetic differentiation among river and lake populations of a goodeid fish, *Goodea atripinnis*. (with M. M. White). *Soc. Study Evolution*. Iowa City, Iowa, 1981.
13. Extreme chromosomal differentiation without geographic isolation among *Ilyodon* populations of the Rio Coahuayana basin. (with R. Worrell). *Soc. Study Evolution*. Iowa City, Iowa, 1981.
14. Ancestry and population structure of a triploid unisexual fish, *Poecilia formosa-mexicana*. (with P. Monaco). *Soc. Study Evolution*. Iowa City, Iowa, 1981.
15. Evolutionary genetics of *Ilyodon* (with T. A. Grudzien). *Amer. Soc. Ichthyol. Herpetol.* Dekalb, IL. June, 1982 (invited paper).
16. Apparent resolution of the hybrid ancestry of the Amazon molly, *Poecilia formosa* at the population level, (with P. J. Monaco, K. Adkisson, B. L. H. Brett). *Amer. Soc. Ichthyol. Herpetol.* Dekalb, IL. June, 1982.
17. Clonal diversity and evolutionary dynamics in a diploid-triploid complex of unisexual fishes (*Poecilia*). (with J. S. Balsano, P. J. Monaco and E. M. Rasch). *Amer. Soc. Ichthyol. Herpetol.* Dekalb, IL. June, 1982.
18. Genetic variation and divergence of remnant natural populations of the desert pupfish, *Cyprinodon macularius* *Amer. Soc. Ichthyol. Herpetol.* Dekalb, IL. June, 1982.
19. Evolutionary genetics of artificial refugium populations of an endangered fish species. *Amer. Soc. Ichthyol. Herpetol.* Dekalb, IL. June, 1982.
20. Apparent resolution of the hybrid ancestry of the Amazon molly, *Poecilia formosa* at the population level, (with P. J. Monaco, K. Adkisson, B. L. H. Brett). *Soc. Study Evolution*. Stony Brook, N.Y. June, 1982.
21. Extreme chromosomal differentiation in *Ilyodon*: "Karyotypic orthoselection" at the population level (with K. Adkisson and R. Worrell). *Soc. Study Evolution*. Stony Brook, N.Y. June, 1982.

22. The *Ilyodon* morphs are a single biological species (with T. A. Grudzien). *Amer. Soc. Ichthyol. Herpetol.* Tallahassee, FL. June, 1983.
23. Allelic variation among chromosomally variable populations of *Ilyodon* (with T. A. Grudzien) *Amer. Soc. Ichthyol. Herpetol.* Tallahassee, FL. June, 1983.
24. Genetic relationships among three genera of goodeid fishes. (with M. M. White). *Amer. Soc. Ichthyol. Herpetol.* Tallahassee, FL. June, 1983.
25. Intralacustrine differentiation in two species of goodeid fishes from Lake Chapala, Mexico. (with M. M. White). *Amer. Soc. Ichthyol. Herpetol.* Tallahassee, FL. June, 1983.
26. Repetitive DNA sequences in the genomes of teleost fishes (with S. Coleman & D. R. Alls). *Amer. Soc. Ichthyol. Herpetol.* Norman, OK. July, 1984.
27. The callichthyid catfish *Corydoras aeneus* is a diploid/tetraploid species complex. (with N. Diffoot). *Amer. Soc. Ichthyol. Herpetol.* Norman, OK. July, 1984.
28. Repetitive DNA sequences and the detection of genetic variation in salmonid fishes. [Invited Paper]. *Third Internatl. Congr. Syst. and Evol. Biol.* Univ. of Sussex, Brighton, England. July, 1985.
29. Induction of spermatogenesis in an all-female fish species [with H. R. Steeves] *Amer. Soc. Ichthyol. Herpetol.* Albany, NY. June, 1987.
30. Biochemical Systematics of the Goodeid Fishes. [Poster session, with T. A. Grudzien and M. M. White]. *Amer. Soc. Ichthyol. Herpetol.* Albany, NY. June 1987.
31. Turner, B. J., J. F. Elder, Jr. & T. F. Laughlin. Clonal diversity in the unisexual fish, *Poecilia formosa*: assessment by DNA fingerprinting. *Genetics Society of America* Atlanta, June, 1989, [abstract published].
32. Turner, B. J. Steroid-mediated sex inversion techniques: evolutionary probes in an all-female species. *Soc. Study Evolution & Amer. Soc. Naturalists.* Penn. State Univ., June, 1989.
33. Turner, B. J., J. F. Elder, Jr., T. F. Laughlin & W. P. Davis. DNA fingerprinting and genetic heterogeneity in two clonal fishes, *Poecilia formosa* and *Rivulus marmoratus*. *Soc. Study Evol. & Amer. Soc. Naturalists.* Penn State Univ., June, 1989.

34. Elder, J. F., Jr. & B. J. Turner. Geographic variation of a satellite DNA in the pupfish *Cyprinodon variegatus*: concerted evolution at the population level? *Soc. Study Evol. & Amer. Soc. Naturalists*. Penn State Univ., June, 1989.
35. Elder, J. F., Jr. & B. J. Turner. Preliminary study of geographic variation in a newly-discovered satellite DNA in the Atlantic pupfish, *Cyprinodon variegatus*. *Amer. Soc. Ichthyol. Herpetol.* San Francisco State Univ./Calif. Acad. Sci., June, 1989.
36. Turner, B. J., J. F. Elder, Jr. & T. F. Laughlin. DNA fingerprinting and clonal heterogeneity in the Amazon molly, *Poecilia formosa*. *Amer. Soc. Ichthyol. Herpetol.* San Francisco State Univ./Calif. Acad. Sci., June, 1989.
37. Turner, B. J., J. F. Elder, Jr. & W. P. Davis. DNA fingerprinting and clonal heterogeneity in *Rivulus marmoratus*, the only known vertebrate selfing hermaphrodite. *Amer. Soc. Ichthyol. Herpetol.* San Francisco State Univ./Calif. Acad. Sci., June, 1989.
38. Turner, B. J. DNA fingerprinting and the genetic heterogeneity of clonal organisms: cornucopia or conundrum? [INVITED PAPER]. *British Pop. Genetics Group, Univ. Nottingham*, Dec., 1989.
39. Turner, B. J. Oligonucleotide probes and the DNA fingerprinting of fishes. *Amer. Fish. Soc.*, Pittsburg, 1990 [Invited symposium presentation].
40. Turner, B. J. Repetitive DNA and the divergence of fish populations: some hopeful beginnings. *Symp. Biochem. Genet. Taxonomy Fish.* (sponsor: Fish. Soc. Brit. Isles), Belfast, July, 1991. [invited keynote address].
41. Turner, B. J. DNA fingerprinting and the genetic variation of a clonal vertebrate: polymorphism without heterozygosity? *7th Biotechnology Symposium; DNA Fingerprinting/Profiling* (sponsor: Biological Council of the UK/CIBA). Cambridge, 12 Dec. 1991 [invited symposium presentation].
42. Poster: Autecology of the neotropical fish, *Rivulus marmoratus* (W. P. Davis, F. S. Taylor, and B. J. Turner) Ann. mtg. *Estuarine Research Federation*, San Francisco, CA. Aug. 1991.
43. Molecular genetic perspectives on the biology of a selfing hermaphroditic fish. [Invited keynote address]. *First Annual Harrington Conference: Rivulus marmoratus as a Research Tool*. Charleston, SC. 13 February 1992.

44. Sieving, K. & B. J. Turner. Exploring the role of inbreeding in extinctions of birds from Barro Colorado Island, Panama. 6th Ann. Mt. *Soc. for Conservation Biol.*, 27 June-1 July, 1992, Blacksburg, VA.
45. *Rivulus marmoratus*: the challenges of a selfing hermaphrodite [poster; with B. Lubinski, W. P. Davis and D. S. Taylor]. *Amer. Genet. Assoc. Symposium: The Evolution of Sex*, 10-11 July, 1992, Blacksburg, VA.
46. Extensive clonal diversity and marked genotypic divergence within populations of a selfing hermaphrodite fish. [Poster; with J. F. Elder, Jr., T. F. Laughlin and D. S. Taylor]. *Amer. Genet. Assoc. Symposium: The Evolution of Sex*, 10-11 July, 1992, Blacksburg, VA.
47. First evidence of recombination in *Rivulus marmoratus*, a clonal selfing hermaphrodite. [poster; with B. Lubinski]. *Amer. Genet. Assoc. Symposium: The Evolution of Sex*, 10-11 July, 1992, Blacksburg, VA.
48. Independent vs concerted evolution of a pupfish Hind III satellite DNA [with D. Duvernell]. *Soc. Study Evol.* Montreal, July 1995.
49. Outcrossing in a male-rich population of the selfing hermaphroditic fish, *Rivulus marmoratus* [with B. Lubinski, W. Davis and F. S. Taylor]. *Soc. Study Evol. Montreal*, July 1995.
50. An Active L1-like LINE mobile sequence family in fish genomes: Its variation and divergence in Death Valley Pupfishes. [with D. Duvernell & H. Wichman]. *Society for the Study of Evolution*, St. Louis, MO. June, 1996; also *American Society of Ichthyologists and Herpetologists*, New Orleans, June, 1996.
51. An Active L1-like mobile sequence family in fish genomes: Its variation and divergence in Death Valley Pupfishes. [with D. Duvernell] *Southeastern Population Ecology and Genetics Group*. Mountain Lake Biological Station. Pembroke, VA. September 13-15, 1996.
52. A family of L1-like retrotransposons in teleost genomes: molecular studies and population variation in Death Valley pupfishes. [with D. Duvernell]. *American Society of Ichthyologists & Herpetologists Symposium: Nuclear DNA and the Evolutionary Genetics of Fishes, Amphibians, and Reptiles*. Seattle, WA. June 26-July 2, 1997 [Invited Paper]
53. Clonal variation in low temperature induction of males and developmental anomalies in *Rivulus marmoratus*. [with M. Fisher]. *American Society of Ichthyologists & Herpetologists*. Seattle, WA. June

26-July 2, 1997

54. Population variation and divergence in Death Valley pupfishes delineated by a new family of retrotransposable elements. [with D. Duvernell] .*Desert Fishes Council*, Death Valley National Park, CA. November 20-23, 1997
55. Population variation and divergence in Death Valley pupfishes delineated by mitochondrial D loop sequence variation. [with D. Duvernell] .*Desert Fishes Council*, Death Valley National Park, CA. November 20-23, 1997.
56. Molecular evidence for reproductive isolation between two sympatric trophic morphs of San Salvador pupfishes (*Cyprinodon*). [with T. Bunt, D. Duvernell, C. Holtmeier and M. Barton]. *8th Symp. Fauna Bahamas*, San Salvador, Bahamas, June, 1999.
57. Mhc-1 variation and divergence in Death Valley pupfish populations: a preliminary analysis. [with M.T. Fisher]. *Desert Fishes Council*, Cd. Victoria, Tamaulipas, Mexico. November 17 – 20, 1999.
58. Molecular evidence for reproductive isolation between two sympatric trophic morphs of San Salvador pupfishes (*Cyprinodon*). [with T. Bunt, D. Duvernell, C. Holtmeier and M. Barton]. *Desert Fishes Council*, Cd. Victoria, Tamaulipas, Mexico. November 17 – 20, 1999.
59. *Rivulus marmoratus*: Does homozygosity matter? – Evidence for intense natural selection on mhc loci.” *Ethology, Evolutionary Biology, and Conservation Ecology of Fishes (EEEEF)*, Athens, GA, 20-25 May, 2000. Symposium: *The Biology of Unisexual Fishes.*) Introductory Keynote Address: [with M. T. Fisher].
60. Evidence for intense natural selection at mhc1 loci in a self-fertilizing and. homozygous vertebrate, *Society for the Study of Evolution*, Bloomington, IN, 23-27 June, 2000. [with M.T. Fisher]
61. A very young species flock of pupfishes from San Salvador island: molecular evidence for reproductive isolation. *Society for the Study of Evolution*, Bloomington, IN, 23-27 June, 2000. [with T. Bunt, C. Holtmeier, D. Duvernell, & M. Barton.]
62. A young species flock of pupfishes from San Salvador island: evidence for reproductive isolation between sympatric trophic morphs. [Poster].*Proc. 9th Symp. Fauna Bahamas*, San Salvador, Bahamas June, 2001. [with T. Bunt, C. Holtmeier, D. Duvernell, & M. Barton].
63. The status of *Rivulus marmoratus* (Pisces: Aplocheilidae) in the

- Bahamas. *Proc. 9th Symp. on the Natural History of the Bahamas*. San Salvador, June, 2001 [with D.S. Taylor and W.P. Davis]
64. Relevance of Mangrove *Rivulus* biology to ecological and laboratory studies: an encapsulated summary. *Proc. 9th Symp. on the Natural History of the Bahamas*. San Salvador, June, 2001. [with W.P. Davis & D.S. Taylor]
 65. The youngest species flock: evidence for reproductive isolation between sympatric trophic morphs of San Salvador pupfishes. *Society for the Study of Evolution*, Knoxville, TN, 26 June - 1 July, 2001. [with T. Bunt, C. Holtmeier, D. Duvernell, & M. Barton.].
 66. A young species flock of pupfishes from San Salvador island: evidence for reproductive isolation among sympatric trophic morphs. *Evolutionary and Conservation Biology of the Pupfishes (Cyprinodon)*, A Symposium Honoring Robert R. Miller. *Amer. Society Ichthyol. Herpetol.* State College, PA. 10 July, 2001.
 67. Phylogeographic structure of the Atlantic pupfish, *Cyprinodon variegatus*: evidence from mitochondrial nucleotide sequences. *Evolutionary and Conservation Biology of the Pupfishes (Cyprinodon)*, A Symposium Honoring Robert R. Miller. *Amer. Society Ichthyol. Herpetol.* State College, PA. 10 July, 2001. [with M. Fisher & K. Finne].
 68. Extensive variation at an MHC1 locus in *Cyprinodon diabolis*: implications for overdominant selection and the genetic monitoring of endangered populations. *Evolutionary and Conservation Biology of the Pupfishes (Cyprinodon)*, A Symposium Honoring Robert R. Miller. *Amer. Society Ichthyol. Herpetol.* State College, PA. 10 July, 2001. [with M.T. Fisher].
 69. Intense natural selection at an *mhc1* locus in a naturally occurring, homozygous vertebrate: A return to the evolutionary arms race? [Invited Poster]. *Gordon Research Conference on Molecular Evolution*, Ventura, CA. January, 2002. [with M.T. Fisher].
 70. A young species flock of pupfishes from San Salvador island: evidence for reproductive isolation between sympatric trophic morphs. [Invited Poster]. *Gordon Research Conference on Molecular Evolution*, Ventura, CA. January, 2002. [with T. Bunt, D. Duvernell, & M. Barton].
 71. Reproductive Isolation among Endemic Pupfish Morphotypes on San Salvador, Bahamas [with D. Duvernell, T. Bunt & M. Barton]. *Society*

for the Study of Evolution. Moscow, ID. June 18 - 23, 2009.

POSTGRADUATE STUDENTS

I. Doctoral Students Completed

1. Betty Lou H. Brett. Univ. Michigan. Ph.D. March 1980 (joint with Ribert R. Miller). "Evolutionary genetics of the mollies of the *Poecilia sphenops* complex."
2. Matthew M. White. Ph.D. June, 1983. "Gene flow and genetic differentiation in two species of goodeid fishes."
3. Thaddeus A. Grudzien. Ph.D. October, 1983. "Genic identity and differentiation of *Ilyodon* (Cyprinodontoidea: Goodeidae): morphological polymorphism and chromosomal divergence."
4. John F. Elder. Ph.D. April, 1993. "Satellite DNA variation among natural populations of the Atlantic pupfish, *Cyprinodon variegatus*."
5. T. Laughlin. Ph.D. December 1993. "Hypervariable markers and the geographic structure of fish populations."
6. C. A. D'Orgeix. Ph.D. June, 1996; "Mating strategies in the red-eyed tree frog, *Agalychnis callidryas*."
7. David Duvernell .Ph.D., May, 1998; "Molecular variation and divergence of isolated pupfish populations."
8. Neval Ertuk. Ph.D. Feb. 1999. [admin. responsibility only, joint with Dr. R. Grene, Dept. of Plant Pathology]. "Superoxide dimutase and its evolution."
9. Michael Fisher, Ph.D. Oct. 2000. "Immunogenetic variation in a homozygous clonal vertebrate."

II. Masters Students Completed

1. Robert A. Worrell. M. S. August, 1982. Extreme chromosomal divergence in the Mexican fish genus *Ilyodon*.
2. Nanette Diffoot. M.S. May, 1986. A diploid-tetraploid species complex of neotropical catfishes.

3. John Elder. M.S. 1989. Chromosomal divergence in some annual killifishes from the Orinoco basin.
4. Diane Stanley. M.S. 1992. DNA fingerprinting of horse breeds.
5. Barbara Lubinski. M.S. 1993. Outcrossing in natural populations of a selfing hermaphrodite fish.
6. Michael Fisher. M.S., 1997. Low temperature induction of males and other developmental anomalies in a self-fertilizing hermaphroditic fish species.
7. Katherine Finne M.S., June, 2001. Glacial refugia and population differentiation in *Cyprinodon variegatus*.
8. Thomas Bunt M.S., June, 2001. Gene flow and divergence in a newly-discovered pupfish species flock from San Salvador Island in the Bahamas.

PROFESSIONAL ACTIVITIES

1. Book Review Editor (1985-89, *J. of Heredity*).
2. Elected member of council, American Genetic Association (1985-87).
3. Participation in National Granting Agency Advisory Panels
 - a. **USDA.** *National Research Initiative Competitive Grants Program.* Animal Molecular Genetics. June 1992.
 - b. **USDA.** *National Research Initiative Competitive Grants Program.* Animal Molecular Genetics. June 1993.
 - c. **USDA.** *National Research Initiative Competitive Grants Program.* Animal Molecular Genetics. June 1994.
 - d. **National Science Foundation,** *Division of Environmental Biology.* Postdoctoral Program. Dec. 1991.
 - e. **National Science Foundation,** *Division of Environmental Biology,* Dissertation Improvement Grants. Dec. 1993.
 - f. **USDA.** *National Research Initiative Competitive Grants Program.* Animal Molecular Genetics and Gene Mapping. May 1997.
4. Symposium co-organizer and convenor (with A. Echelle): *Evolutionary and Conservation Biology of the Pupfishes (Cyprinodon), A Symposium Honoring Robert R. Miller.* Amer. Society Ichthyol. Herpetol. State College, PA. 10 July, 2001.