

**R. Paul Evans, PhD**

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Educational History:

<i>Name of Institution</i>	<i>Year</i>	<i>Major</i>	<i>Degree</i>
Medical College of Virginia Virginia Commonwealth University	1983	Molecular Biology	Ph.D.
Brigham Young University	1995	Microbiology	B.S.

Professional Positions:

<i>Employer</i>	<i>Dates</i>	<i>Position</i>
Brigham Young University	1987 - present	Assistant Professor
USDA-ARS, Purdue University	1986-1987	Research Geneticist
Purdue University	1983-1986	Research Associate

Professional Organizations

2004-present	International Society of Biogeography
1990-present	American Fisheries Society
1989-present	Desert Fishes Council
1991-present	American Association for the Advancement of Science

**Peer Reviewed Publications**

[42] Kokkonen, A, P. Searle, D. K. Shiozawa, R. P. Evans. 2024. Using de novo transcriptomes to decipher the relationships in Cutthroat Trout subspecies (*Oncorhynchus clarkii*). Evolutionary Applications 11:17, 14 pp., DOI: 10.1111/eva.13735

[41] Searle, P., D. K. Shiozawa, R. P. Evans, A. Suli, M. Stark, J. Hill, M. Belk. 2024. Heterochronic shift in gene expression leads to ontogenetic morphological divergence between two closely related polyploid species. iScience 24:27 DOI: 10.1016/j.isci.2024.109566

- [40] Searle, P., A. Kokkonen, J. R. Campbell, D. K. Shiozawa, M. C. Belk, R. P. Evans. 2023. Phylogenetic relationships of three rockfish: *Sebastes melanops*, *Sebastes ciliatus* and *Sebastes variabilis* (Scorpaeniformes, Scorpaenidae) based on complete mitochondrial genome sequences. Biodiversity Data Journal DOI: 10.3897/BDJ.11.e98167
- [39] Campbell, J., P. Searle, A. Kokkonen, D. K. Shiozawa, M. Belk. R. P. Evans. 2022. Complete mitochondrial genomes of two rockfish: *Sebastes maliger* and *Sebastes norvegicus* (Scorpaenidae, Scorpaeniformes). Mitochondrial DNA Part B: Resources. 7:9, 1614-1616, DOI: 10.1080/23802359.2022.2116951
- [38] Searle, P., J. Linde, J. Campbell, A. Kokkonen, D. K. Shiozawa, M. Belk, R. P. Evans. 2022. Complete mitochondrial genomes of June sucker and Utah sucker (*Chasmistes liorus* and *Catostomus ardens*). Mitochondrial DNA Part B: Resources. 7:3, 560-562, DOI: 10.1080/23802359.2022.2055984
- [37] Muhlestein, K., R. P. Evans. 2020. Death of a Child: Demographic and preparation trends of child burials in the Graeco-Roman Fayoum. In Routledge Handbook on *Children in Antiquity*.
- [36] Shiozawa, D. K., R. P. Evans, D. D. Houston, P. J. Unmack. 2018. Geographic variation, isolation, and evolution of Cutthroat Trout with comments on future directions for management and research. Pages 129-190 in P. Trotter, P. Bisson, L. Schultz, and B. Roper, editors. Cutthroat Trout: evolutionary biology and taxonomy. American Fisheries Society, Special Publication 36, Bethesda, Maryland.
- [35] Campbell, M. R., E. R. Keeley, C. Kozfkay, J. L. Loxterman, R. P. Evans, D. K. Shiozawa. 2018. Describing and Preserving the Diversity of Cutthroat Trout in the Yellowstone River, Snake River, and Bonneville Basin. Pages 303-321 in P. Trotter, P. Bisson, L. Schultz, and B. Roper, editors. Cutthroat Trout: evolutionary biology and taxonomy. American Fisheries Society, Special Publication 36, Bethesda, Maryland.
- [34] Amin, O, R. P. Evans, R. Heckmann, Y. Tepe. 2016. A description of *Echinorhynchus baeri* Kostylew, 1928 (Acanthocephala: Echinorhynchidae) from *Salmo trutta* Linn. (Salmonidae) in Turkish waters, with notes on synonymy. Parasite doi: 10.1051/parasite/2016067
- [33] Amin, O., R. P. Evans, R. Heckmann, O. Bangou. 2016. Morphological and molecular description of *Tenuisentis niloticus* (Acanthocephala: Tenuisentidae) from Arowana, *Heterotis niloticus*, in Burkina Faso, with emendation of the family diagnosis and notes on new features, cryptic genetic diversity and histopathology. Systematic Parasitology doi:10.1007/s11230-015-9615-7
- [32] Amin, O., R. Heckmann, O. Mohamed, R. P. Evans. 2016. Morphological and molecular descriptions of *Moniliformis saudi* n. sp. (Acanthocephala: Moniliformidae) from the desert hedgehog, *Paraechinus aethiopicus* (Ehrenberg) in Saudi Arabia, with a

key to species and notes on histopathology. *Folia Parasitologica*  
doi:10.14411/fp.2016.014

2016 Impact Factor 1.271

- [31] Sproul, J., D. Houston, C. R. Nelson, K. Crandall, R. P. Evans, D. K. Shiozawa. 2015. Climate oscillations, glacial refugia, and dispersal ability: factors influencing the genetic structure of the least salmonfly, *Pteronarcella badia* (Plecoptera), in Western North America. *BMC Evolutionary Biology*, doi:10.1186/s12862-015-0553-4

2015 Impact Factor 3.368

- [30] Houston, D., R. P. Evans, D. K. Shiozawa. 2015. Pluvial drainage patterns and Holocene desiccation influenced the genetic architecture of relict dace, *Relictus solitarius* (Teleostei: Cyprinidae). *PLOS ONE*, DOI: 10.1371/journal.pone.0138433

2015 Impact Factor 3.234

- [29] Houston, D., R. P. Evans, J. M. Crowley, D. K. Shiozawa. 2015. Genetic Characterization of Two Populations of Bonneville Cutthroat Trout in Great Basin National Park, USA. *Western North American Naturalist* 75:146-156

2015 Impact Factor 0.355

- [28] Evans, R. P., D. Whitchurch, K. Muhlestein. 2015. Rethinking Burial Dates at a Graeco-Roman Cemetery: Fag el Gamous, Fayoum, Egypt. *Journal of Archaeological Science: Reports*, doi:10.1016/j.jasrep.2015.02.004

2015 Impact Factor 2.196

- [27] Sproul, J., D. Houston, N. Davis, E. Barrington, S. Oh, R. P. Evans, D. K. Shiozawa. 2014. Comparative phylogeography of codistributed aquatic insects in western North America: insights into dispersal and regional patterns of genetic structure. *Freshwater Biology*, doi:10.1111/fwb.12406

2014 Impact Factor 2.738

- [26] Muhlestein, K., D. M. Whitchurch, R. P. Evans, G. Tata, K. H. South, J. Smith, L. H. Blumell, B. Benson. 2013. The Fag el-Gamous 2013 Excavation Season. *Annales du Service des Antiquites de l’Egypte*. Ministry of State for Antiquities, Cairo Egypt.

2013 Impact Factor Not Available

- [25] Amin, O., R. P. Evans, R. Heckmann, A. El Nagggar. 2013. The description of *Mediorhynchus africanus* n. sp. (Acanthocephala: Gigantorhynchidae) from galliform birds in Africa. *Parasitology Research* DOI: 10.1007/s00436-013-3461-9

2013 Impact Factor 2.852

- [24] Houston, D. D., D. B. Elzinga, P. J. Maughan, S. M. Smith, J. S. K. Kauwe, R. P. Evans, R. B. Stinger, D. K. Shiozawa. 2012. Single nucleotide polymorphism discovery in cutthroat trout subspecies using genome reduction, barcoding, and 454 pyro-sequencing. *BMC Genomics* 13:724.

2012 Impact Factor 4.397

- [23] Houston, D. D., R. P. Evans, D. K. Shiozawa. 2012. Evaluating the genetic status of a Great Basin endemic minnow: the relict dace (*Relictus solitarius*). *Conservation Genetics* 13:727-742.

2012 Impact Factor 2.183

- [22] Shiozawa, D. K., R. P. Evans, P. Unmack, and J. Mathis. 2011. Cutthroat trout phylogenetic relationships with an assessment of geographical associations between Greenback and Colorado River cutthroat trout. *Wild Trout X* 10:158-166.

2011 Impact Factor not available

- [21] Billman, E. J., J. B. Lee, D. O. Young, D. McKell, R. P. Evans, and D. K. Shiozawa. 2010. Phylogenetic divergence in a desert fish: differentiation of speckled dace within the Bonneville, Lahontan, and Upper Snake River basins. *Western North American Naturalist* 70:100-108.

2010 Impact Factor 0.41

- [20] Stutz, H. L., D. K. Shiozawa, and R. P. Evans. 2010. Inferring dispersal of aquatic invertebrates from genetic variation: a comparative study of an amphipod and mayfly in Great Basin springs. *Journal of the North American Benthological Society* 29:1132-1147.

2010 Impact Factor 2.974

- [19] Metcalf, J.W., V. L. Pritchard, S. M. Silvestri, J.B. Jenkins, J. S. Wood, D. E. Cowley, R. P. Evans, D. K. Shiozawa, A. P. Martin. 2007. Across the great divide: Genetic forensics reveals misidentification of endangered cutthroat trout populations. *Molecular Ecology* 16:4445-4454.

2007 Impact Factor 5.169

- [18] Mock, K. E., R. P. Evans, M. Crawford, B. L. Cardall, S. U. Janecke and M. P. Miller. 2006. Rangewide molecular structuring in the Utah sucker (*Catostomus ardens*) *Molecular Ecology* 15:223-2238

2006 Impact Factor 4.825

- [17] Kauwe, J. S. K., D. K. Shiozawa, and R. P. Evans. 2004. Phylogeographic and nested clade analysis of the stonefly *Pteronarcys californica* (Plecoptera) in the Western United States. *Journal of the North American Benthological Society* 23(4) 824-838.

2004 Impact Factor 1.792

- [16] Smith, G. R., T. Dowling, K. Gobalet, T. Lugaski, D. K. Shiozawa, and R. P. Evans. 2002. Biogeography and Timing of Evolutionary Events among Great Basin Fishes, pp. 175-234, In: *Great Basin Aquatic Systems History*, R. Hershler, D. Madsen, and D. Curry, eds. Smithsonian Contributions to the Earth Sciences; number 33. Smithsonian Institution Press.
- [15] Griggs, C. W., R. P. Evans, K. South, G. Homsey, A. Ellington, N. Iskander. 2001. Brigham Young University Seila Pyramid/Fag el Gamous Cemetery Project - Report of the 2000 Season. *Bulletin of the Australian Centre for Egyptology* 12:34-53.
- [14] Ruas C.F., D.J. Fairbanks, R.P. Evans, H.C. Stutz, W.R. Andersen, and P.M. Ruas. 1998. Male-specific DNA in the dioecious species *Atriplex garrettii* (Chenopodiaceae). *American Journal of Botany* 85:162-167.
- [13] Williams, R. N., R. P. Evans, and D. K. Shiozawa. 1997. Mitochondrial DNA diversity patterns of bull trout in the upper Columbia River basin. Pages 283-297 in Mackay, W. C., M. K. Brewin, and M. Monita, editors. *Friends of the bull trout conference proceedings*. Bull Trout Task Force (Alberta) c/o Trout Unlimited Canada, Calgary.
- [12] Griggs, C.W., R.P. Evans, M.C.J. Kuchar, M.J. Rowe, S.R. Woodward, and N. Iskander, 1993. The genetic and textile analysis of the Hagarsa mummies. In: *The Tombs of El-Hagarsa*, Naguib Kanawati (ed.), vol. II. The Australian Centre for Egyptology, Macquarie University, Australia.
- [11] Proebstel, D. S., R. P. Evans, R. N. Williams, and D. K. Shiozawa. 1993. Preservation of non-frozen tissue samples from a salmonidine fish *Brachymystax lenok* (Pallas) for DNA analysis. *Journal of Ichthyology* 2:9-17.
- [10] Griggs, C.W., M.C. Kuchar, S.R. Woodward, M.J. Rowe, R.P. Evans, N. Kanawati, and N. Iskander. 1993. Evidences of a Christian population in the Egyptian Fayum and genetic and textile studies of the Akhmim noble mummies. *BYU Studies* 33:215-243.
- [9] Shiozawa, D. K., J. Kudo, R. P. Evans, S. R. Woodward and R. N. Williams. 1992. DNA extraction from preserved trout tissues. *Great Basin Naturalist* 52:29-34.

- [8] Xiong, S., R. L. Park, R. W. Andersen, R. P. Evans, and D. J. Fairbanks. 1992. Random amplified polymorphic DNA (RAPD) markers for paternity identification in multiple-sired mink litters. *Norwegian Journal of Agricultural Sciences* 9:201-205.
- [7] Dickenson, C. D., R. P. Evans and N. C. Nielsen. 1988. RY repeats are conserved in the 5' flanking regions of legume seed protein genes. *Nucleic Acids Research* 16:371.
- [6] Evans, R. P., R. B. Winter, J. A. Tobian, K. R. Jones, and F. L. Macrina. 1985. Genetic analysis of streptococci: Useful recombinant plasmids. *Developments in Industrial Microbiology* 26: 63-73.
- [5] Evans, R. P., R. B. Winter, and F. L. Macrina. 1984. Molecular cloning of pIP501-derivative yields a model replicon for the study of streptococcal conjugation. *Journal of General Microbiology* 131: 145-153.
- [4] Macrina, F. L., R. P. Evans, F. A. Tobian, D. L. Hartley, D. B. Clewell, and K. R. Jones. 1983. Novel shuttle plasmid vehicles for *Escherichia-Streptococcus* transgeneric cloning. *Gene* 25: 145-150.
- [3] Evans, R. P. and F. L. Macrina. 1983. Streptococcal R plasmid pIP501: Endonuclease site map, resistance determinant location, and construction of novel derivatives. *Journal of Bacteriology* 154: 1347-1355.
- [2] Macrina, F. L., J. A. Tobian, R. P. Evans, and K. R. Jones. 1982. Molecular cloning strategies for the *Streptococcus sanguis* host-vector system. In: D. Schlessinger (ed.), *Microbiology 1982*. American Society of Microbiology, Washington, D.C., p. 234-238.
- [1] Macrina, F. L., J. A. Tobian, K. R. Jones, R. P. Evans, and D. B. Clewell. 1982. pVA838: A cloning vector able to replicate in *Escherichia coli* and *Streptococcus sanguis*. *Gene* 19: 345-353.

**Scholarly Presentations through 2021**

Total  
154

- Evans, R. P. 2021. Bioarchaeology of mummies in Egypt and the phylogenetics of endangered fish: An adventitious nexus. Fresno State University Department of Biology. November 2021. Fresno, California.
- Searle, P., M. Belk, D. Shiozawa, R. P. Evans, A. Suli, M. Stark. 2021. Epigenetics as an alternative mode to speciation - The June sucker. Annual Meeting, Ecological Society of America. August 2021. Virtual.
- Searle, P., D. Shiozawa, R. P. Evans, A. Suli, M. Stark, M. Belk. 2021. Using an Eco-Evo-Devo Approach to Understand Speciation – The June Sucker. Annual Meeting, American Fisheries Western Division, American Fisheries Society. May 2021. Virtual.
- Campbell, J., P. Searle, A. Kokkonen, M. Belk, D. Shiozawa, R. P. Evans. 2021. The Complete Mitochondrial Genome Sequences of Two Rockfishes, *Sebastes maliger* and *Sebastes norvegicus* (Scorpaenidae, Scorpaeniformes). Annual Meeting, American Fisheries Western Division, American Fisheries Society. May 2021. Virtual.
- Kokkonen, A., D. Houston, D. Shiozawa, R. P. Evans. 2021. Delineation of the Evolutionary History of Cutthroat Trout. Annual Meeting, American Fisheries Western Division, American Fisheries Society. May 2021. Virtual.
- Van Orden, T., P. Searle, A. Kokkonen, D. Houston, D. Shiozawa, R. P. Evans. 2021. Presence of Bull Trout in Southeastern Alaska. Annual Meeting, American Fisheries Western Division, American Fisheries Society. May 2021. Virtual.
- Evans, R. P., B. Pickett, M. Belk, M. Stark, D. Shiozawa. 2019. Comparative Analysis of Gene-Expression Patterns in June Sucker and Utah Sucker. Annual Meeting and Lake Sucker Summit, American Fisheries Society. March 2019. Provo, Utah.
- Evans, R. P., K. Muhlestein. 2019. Burials in the Fag el Gamous Necropolis - C14 and DNA Analyses. Bioarchaeology of Ancient Egypt and The International Symposium of Animals in Ancient Egypt. January 2019. Cairo, Egypt.
- Shiozawa, D. K. and R. P. Evans. 2016. Yellowstone/Bear River cutthroat trout – a classification dilemma. Utah Division of Wildlife Resources. September 2016. Salt Lake City, Utah.
- Evans, R. P. and K. M. Muhlestein. 2016. Death of a child in Graeco-Roman Egypt. Annual Meeting, Society for the Study of Egyptian Antiquity. November 2016. Toronto, Canada.

- Houston, D. D., R. P. Evans, D. K. Shiozawa. 2016. Assessing the Range-wide Genetic Diversity of Relict Dace (*Relictus solitarius*), a Desert Endemic Minnow Influenced by Pluvial Drainage Patterns, Holocene Desiccation, and Anthropogenic Activities. Annual Meeting, Desert Fishes Council, November 2016. Albuquerque, New Mexico.
- Houston, D. D., R. P. Evans, D. K. Shiozawa. 2015. Cutthroat Trout Subspecies Delineation Using Diagnostic Single Nucleotide Polymorphisms. Annual Meeting, American Fisheries Society, August 2015. Portland, Oregon.
- Oh, S., D. K. Shiozawa, P. Ridge, B. Pickett, R. P. Evans. 2015. Phylogeography of Cottids in the Lost River Streams of Idaho. Annual Meeting, American Fisheries Society, August 2015. Portland, Oregon.
- Shiozawa, D. K., P. Ridge, D. Houston, P. Unmack, R. P. Evans. 2015. Refining Phylogenetic Relationships Among Cutthroat Trout. Annual Meeting, American Fisheries Society, August 2015. Portland, Oregon.
- Evans, R. P., D. K. Shiozawa. 2015. Greenback Cutthroat Trout in Utah. 2015. LaSal Restoration Team. August 2015. Green River, Utah.
- Evans, R. P., K. Muhlestein. 2015. Death of a Child: the Demographic and Preparation Trends of Child Burials in the Graeco-Roman Fayoum of Egypt. Children In Antiquity, August 2015. Sydney, Australia.
- Evans, R. P. 2015. Excavating Mummies and Uncovering Christian Burial Traditions. Institute of Coptic Studies Research Program, May 2015. Cairo, Egypt.
- Evans, R. P. 2015. A cemetery in transition: Changes in burial orientation, goods, textiles and the inclusion of children at Fag el-Gamous after 200 AD. The Second International Conference on Christian Egypt "Historiography in Egypt 284-641 A.D.: Historical, Ecclesiastical, Documentary, and Archaeological Evidence", May 2015. Cairo, Egypt.
- Shiozawa, D. K., R. P. Evans. 2014. Phylogenetics to Ecology – the past and a glimpse of the future illustrated with cottids, whitefish, and lake suckers. Tri-State Colorado River Cutthroat Trout Conservation Team, December 2014. Grand Junction, Colorado.
- Shiozawa, D. K., S. Oh, R. P. Evans, D. Houston, N. Davis, J. Page. 2014. Phylogenetic relationships of cottids (*Pisces:Cottidae*) in the upper Snake River Plain of Idaho. Society of Freshwater Science 2014 Annual Meeting and the Joint Aquatic Sciences Meeting, May 2014. Portland, Oregon.
- Shiozawa, D. K., R. P. Evans, P. Unmack, D. Houston. 2014. Phylogenetic relationships of the cutthroat trout - from Behnke to the future. American Fisheries Society, Utah Chapter, March 2014. Price, Utah.



- Shiozawa, D. K., D. Houston, P. Unmack, S. Oh, D. Neely, R. P. Evans. 2014. Molecular studies of fishes as they relate to interrelationships among the Bonneville, Lahontan and Snake River basins. Late Cenozoic to Recent Geologic and Biotic History of the Snake River, Smithsonian Institution, National Museum of Natural History, Idaho State University, March 2014. Boise, Idaho.
- Houston, D. D., N. Davis, J. Page, P. Ridge, R. P. Evans, D. Shiozawa. 2013. Whole transcriptome sequencing facilitates nuclear marker development in salmonid fishes. Evolution 2013, Society for the Study of Evolution, Society of Systematic Biologists, and the American Society of Naturalists, June 2013. Snow Bird, UT.
- Oh, Sunyeong, R. P. Evans, N. Davis, D. Houston, J. Page, D. Shiozawa. 2013. Transcriptomes: a tool for developing phylogenetic markers in Western North American sculpin *Cottus* spp (Pisces:Cottidae). Society for Freshwater Science/North American Benthological Society Annual Meeting. May 2013.
- Houston, D. D., D. B. Elzinga, P. J. Maughan, S. M. Smith, J. S. K. Kauwe, R. P. Evans, R. B. Stinger, D. K. Shiozawa. 2012. Next generation sequencing and bioinformatics procedures identify single nucleotide polymorphisms capable of differentiating cutthroat trout subspecies. Desert Fishes Council, 44<sup>th</sup> Annual Meeting. November 2012. Death Valley, CA.
- Shiozawa, D. K. and R. P. Evans. 2012. Review of greenback cutthroat trout genetics – the multi-basin subdivision of this cutthroat trout and where do we go from here? Utah Division of Wildlife Resources, Colorado River cutthroat trout inter-agency recovery team. November 2012. Salt Lake City, UT
- Shiozawa, D. K., D. D. Houston, R. P. Evans. 2012. Improving molecular studies in aquatic groups with next-generation sequencing: marker discovery and data set generation. Society of Freshwater Science, 2012 Annual Meeting. May 2012. Louisville, KY
- Evans, R.P. and D. Whitchurch. 2012. Burial Landscape of the Graeco-Roman Cemetery at Fag el Gamous, Fayoum: An Initial Synthesis. American Research Center in Egypt Annual Meeting. April 27-29, 2012. Providence, RI, USA
- Evans, R. P. 2012. Genetic research, capabilities, approaches, and interpretation. 2012. Workshop for Utah Chapter of the American Fisheries Society, Annual Meeting. March 26, 2012. Bullfrog, UT, USA.
- Evans, R. P. 2011. Next generation sequencing and mummies. BYU Chemical Engineering. December 2011, Provo, UT
- Evans, R. P., A. Alley, C. Eppich, G. Mullins, C. Newey, D. Whitchurch, R. Heckmann. 2011. Rethinking Burial Dates at a Graeco-Roman Cemetery: Fag el Gamous, Fayoum, Egypt. 7<sup>th</sup> World Congress on Mummy Studies. June 2011, San Diego, CA

- Evans, R. P., D. K. Shiozawa, P. J. Unmack, D. Houston, J. Mathis. 2011. Cutthroat Trout Phylogenetic Relationships: Geologic Processes Preserved in DNA. 92<sup>nd</sup> Annual Meeting of the Pacific Chapter of the American Association for the Advancement of Science (AAAS). June 2011, San Diego, CA
- Sun, Y. O., P. Unmack, R. P. Evans, D. K. Shiozawa. 2011. Phylogeographic Relationships of *Cottus bairdii*. Annual Meeting Utah Chapter of the American Fisheries Society. March 2011, Salt Lake City, UT
- Houston, D., R. P. Evans, D. K. Shiozawa. 2010. Evaluating the genetic purity of relict dace populations in the central Great Basin. 42<sup>nd</sup> Annual Meeting of the Desert Fishes Council November 2010, Moab, UT
- Evans, R. P., D. K. Shiozawa, P. Unmack, J. Mathis. 2010. Greenback Cutthroat Trout in the Colorado River Basin: The original homestead? 42<sup>nd</sup> Annual Meeting of the Desert Fishes Council. November 2010, Moab, UT
- Shiozawa, D. K., R. P. Evans, P. Unmack, A. Johnson. 2010. Cutthroat trout phylogenetic relationships with an assessment of geographical associations among several cutthroat trout subspecies. Wild Trout X. September 2010, West Yellowstone, MT
- Unmack, P., D. K. Shiozawa, R. P. Evans. 2010. Cutthroat trout phylogeny. Annual Meeting of the American Society of Ichthyologists and Herpetologists. July 2010. Providence, RI
- Shiozawa, D. K., R. P. Evans, D. Houston, P. Unmack. 2010. Comparative phylogeography and western drainage history: a geographical view through a genetic window. Annual Meeting Western Division of the American Fisheries Society. April 2010, Salt Lake City, UT
- Evans, R. P., D. K. Shiozawa, P. Unmack. 2010. A mitochondrial DNA phylogeny of *Oncorhynchus clarkii*, cutthroat trout. Annual Meeting Western Division of the American Fisheries Society. April 2010, Salt Lake City, UT
- Shiozawa, D. K., R. P. Evans, B. Weibel. 2009. Comparative phylogeography - the role of history in the structuring of aquatic communities. Annual Meeting North American Benthological Society. August 2009. Grand Rapids, MI
- Peters, R., R. P. Evans, C. W. Griggs. 2009. Demography of an Egyptian necropolis. West Coast Biological Sciences Undergraduate Research Conference. April 2009. San Diego, CA
- Stutz, H., R. P. Evans, K. Tanner, R. Rader, D. K. Shiozawa. 2008. Estimating dispersal of spring invertebrates through genetic diversity in threatened habitats of the Great Basin. Annual Meeting Utah Chapter of the American Fisheries Society. March 2008, Moab, UT

- Laitinen, N., D. K. Shiozawa, R. P. Evans. 2008. Genetic relationships of mountain suckers and bluehead suckers based on mitochondrial DNA. Annual Meeting Utah Chapter of the American Fisheries Society. March 2008, Moab, UT
- Shiozawa, D. K., R. P. Evans, B. Miller, M. McKell. 2008. Westslope native fishes: roundtail chub (*Gila robusta*), bluehead sucker (*Catostomus discobolus*), flannelmouth sucker (*Catostomus latipinnis*). UDWR Three Species Meeting. April 2008, Salt Lake City, UT
- Shiozawa, D. K., D. Christensen, R. P. Evans. 2007. Genetic relationships of *Cottus bairdii* in Butterfield Springs, NV to other populations of *Cottus bairdii*. 39th Annual meeting of the Desert Fishes Council. November 2007. Ventura, CA
- Laitinen, N. D. K. Shiozawa, R. P. Evans. 2007. Genetic relationships of mountain sucker and bluehead sucker based on mitochondrial DNA. 39th Annual meeting of the Desert Fishes Council. November 2007. Ventura, CA
- Janetski, D., D. K. Shiozawa, R. P. Evans. 2007. Genetic evidence for restricted gene flow between cutthroat trout spawning populations in Yellowstone Lake. 55th Annual Meeting of the North American Benthological Society. Columbia, SC
- Johnson, A., D. K. Shiozawa, R. P. Evans. 2007. Resolving phylogenetic relationships of cutthroat trout in the Bear River drainage. Annual Meeting Utah Chapter of the American Fisheries Society. March 2007, Logan, UT
- Evans, R. P., D. K. Shiozawa. 2007. Genetics of Colorado River cutthroat trout. Colorado River Cutthroat Trout Regional Conference. Denver, CO
- Shiozawa, D. K., R. P. Evans, D. Christensen, M. Campbell. 2006. Sculpin and drainage history of the Eastern Snake River Plain, Idaho. 54th Annual Meeting of the North American Benthological Society. Anchorage, AK
- Janetski, D., R. P. Evans, D. K. Shiozawa, A. Johnson. 2006. Evolution, distribution and phylogeny of cutthroat trout in Utah and Wyoming. Annual Meeting of the American Fisheries Society Western Region. April 2006. Idaho Falls, ID
- Shiozawa, D. K., D. Christensen, R. P. Evans, M. Campbell. 2006. Sculpin dispersal and phylogenetics in the interior of Western North America. Deseret Fishes Council. November 2006. Death Valley, CA
- Johnson, A., D. Janetski, D. K. Shiozawa, R. P. Evans. 2006. Evolution, distribution, and phylogeny of the Yellowstone cutthroat trout in the Snake River headwaters and Wind/Bighorn drainage, Wyoming. Annual Meeting of the American Fisheries Society Idaho Chapter. Idaho Falls, ID

- Mock, K. E., R. P. Evans, M. Crawford, B. L. Cardall, S. U. Janecke, M. P. Miller. 2006. Molecular structuring in Utah and June suckers. Annual Meeting of the American Genetics Association, Genetics of Speciation Symposium. July 2006. Vancouver, BC, Canada
- Evans, R. P., A. Moffat, D. K. Shiozawa, J. Crowley. 2005. A Phylogenetic Analysis of Sculpin (genus *Cottus*) in Montana. Annual Meeting of the American Fisheries Society. Anchorage, AK
- Mueller, A., D. K. Shiozawa, R. P. Evans. 2005. Distribution of mitochondrial lineages in the Colorado River Cutthroat trout. Annual Meeting of the American Fisheries Society. Anchorage, AK
- Johnson, A., D. K. Shiozawa, R. P. Evans. 2005. Resolving Phylogenetic Relationships of Selected Cutthroat Trout Subspecies, *Oncorhynchus clarki* (Salmonidae). Annual Meeting of the American Fisheries Society. Anchorage, AK
- Christensen, D., D. K. Shiozawa, J. Crowley, M. Campbell, R. P. Evans. 2005. The Cottids of the Lost River sinks - their relationships and origin. Annual Meeting of the American Fisheries Society. Anchorage, AK
- Janetski, D., D. K. Shiozawa, R. P. Evans. 2005. The genetic structure of spawning populations of cutthroat trout in Yellowstone Lake. Annual Meeting of the American Fisheries Society. Anchorage, AK
- Miller, B., R. P. Evans, D. K. Shiozawa. 2005. The Phylogeography of Mountain Whitefish in Western North America. Annual Meeting of the American Fisheries Society. Anchorage, AK
- Smith, C., J. Crowley, D. K. Shiozawa, R. P. Evans. 2005. Phylogenetic relationships of *Cottus beldingi* in the Basin and Range and Colorado Plateau of Western North America. Annual Meeting of the North American Benthological Society. New Orleans, LA
- Johnson, A., D. K. Shiozawa, D. Janetski, R. P. Evans. 2005. Resolving Phylogenetic Relationships of the Yellowstone Cutthroat Trout Complex. Annual Meeting of the Bonneville Chapter, American Fisheries Society. Garden City, UT
- Shiozawa, D. K. and R. P. Evans. 2004. Insights into the drainage basin history of Western North America - fragmentary information based on phylogenies of aquatic organisms. Annual Meeting of the Desert Fishes Council. November 11-14, 2004, Tucson, AZ, USA.
- Miller, B. A., R. P. Evans, and D. K. Shiozawa. 2004. Phylogeography of *Prosopium* in Western North America.. Annual Meeting of the Desert Fishes Council. November 11-14, 2004, Tucson, AZ, USA.

- Crowley, J., D. K. Shiozawa, and R. P. Evans. 2004. Phylogenetics and cottids. Annual Meeting of the Desert Fishes Council. November 11-14, 2004, Tucson, AZ, USA.
- Evans, R. P. 2003. When Bones Speak. Dead Cats Society, Snow College. October 1, 2003. Ephraim, UT
- Kauwe, J. S., D. K. Shiozawa, and R. P. Evans. 2003. Using DNA markers to investigate interbasin relationships and define species classification of stoneflies. 51<sup>st</sup> Annual meeting of the North American Benthological Society. May 27-June 1, 2003. Athens, Georgia.
- Johnson, A., J. S. Kauwe, D. K. Shiozawa, and R. P. Evans. 2003. The general applicability of a cytochrome B primer for stoneflies. 51<sup>st</sup> Annual meeting of the North American Benthological Society. May 27-June 1, 2003. Athens, Georgia. (Undergraduate poster)
- Hansen, J., A. Johnson, J. S. Kauwe, D. Janetski, D. K. Shiozawa, and R. P. Evans. 2003. Can cytochrome B sequences detect a stream capture event in the Bonneville Basin? 51<sup>st</sup> Annual meeting of the North American Benthological Society. May 27-June 1, 2003. Athens, Georgia. (Undergraduate poster)
- Crowley, J. M., R. P. Evans, and D. K. Shiozawa. 2003. A phylogenetic analysis of sculpin (Cottidae: *Cottus*) in the Basin and Range Province of western North America based on the ND4-L/ND4 region of the mitochondrial genome. Joint meeting of the Colorado-Wyoming and Bonneville Chapters of the American Fisheries Society. March 4-6, 2003. Grand Junction, Colorado.
- Miller, B. A., D. K. Shiozawa, and R. P. Evans. 2003. The phylogeography of the mountain whitefish (*Prosopium williamsoni*) in western North America as reflected in the cytochrome b gene of the mitochondrial genome. Joint meeting of the Colorado-Wyoming and Bonneville Chapters of the American Fisheries Society. March 4-6, 2003. Grand Junction, Colorado. (Undergraduate oral presentation)
- McKell, M. D., D. K. Shiozawa, and R. P. Evans. 2003. Genetic variation and phylogeography of speckled dace in the intermountain west, USA, based on mitochondrial DNA sequences. Joint meeting of the Colorado-Wyoming and Bonneville Chapters of the American Fisheries Society. March 4-6, 2003. Grand Junction, Colorado.
- McKell, M. D., B. A. Miller, D. K. Shiozawa, and R. P. Evans. 2003. Phylogeographic aspects of four native fishes in the Colorado River drainage in western Colorado. Joint meeting of the Colorado-Wyoming and Bonneville Chapters of the American Fisheries Society. March 4-6, 2003. Grand Junction, Colorado.
- McKell, M. D., D. K. Shiozawa, and R. P. Evans. 2003. Phylogeography of speckled dace, *Rhinichthys osculus*, in the Intermountain Region, U. S. A., Based on Mitochondrial DNA Sequences. International Biogeography Society. January 6-2003. Mesquite Nevada .

- Miller, B. A., D. K. Shiozawa, and R. P. Evans. 2003. The phylogeography of the mountain whitefish (*Prosopium williamsoni*) and its phyletic relationships with the endemic Bear Lake whitefishes. International Biogeography Society. January 6-2003. Mesquite Nevada. (Undergraduate poster)
- Shiozawa, D. K. and R. P. Evans. 2002. Cutthroat trout genetics and population viability. Intermountain West Cutthroat Trout Population Viability Workshop. Salt Lake City, UT. June 10, 2002.
- Shiozawa, D. K. and R. P. Evans. 2002. The interbasin dispersal of cutthroat trout: comparing phylogenetic relationships and geological history. 50<sup>th</sup> Annual meeting of the North American Benthological Society. May 27-June 2, 2002. Pittsburgh, Pennsylvania.
- Kauwe, J. S., D. K. Shiozawa, and R. P. Evans. 2002. Using DNA markers to investigate interbasin relationships and dispersal of stoneflies. 50<sup>th</sup> Annual meeting of the North American Benthological Society. May 27-June 2, 2002. Pittsburgh, Pennsylvania.
- Shiozawa, D. K. and R. P. Evans. 2002. Biogeography and genetic patterns of Colorado River Cutthroat Trout - their relationship with other western salmonids. Workshop on Colorado River Cutthroat trout phylogenetics for the Colorado River Cutthroat Trout Recovery Team, with R. P. Evans. Conference sponsored by the Colorado Division of Wildlife. May 21-22, 2002. Montrose, CO.
- Evans, R. P. and D. K. Shiozawa. 2002. The application of DNA analyses to investigations of introgression and phylogeny of Colorado River Cutthroat Trout. Workshop on Colorado River Cutthroat trout phylogenetics for the Colorado River Cutthroat Trout Recovery Team, with R. P. Evans. Conference sponsored by the Colorado Division of Wildlife. May 21-22, 2002. Montrose, CO.
- Evans, R. P. 2001. June Sucker Genetics. Invited paper at June Sucker Summit, Salt Lake City, May 8, 2001
- Shiozawa, D. K. and R. P. Evans. 2001. The evolution of the cutthroat trout with insights into the evolution of the Greenback Cutthroat Trout, *Oncorhynchus clarki stomias*. Invited workshop instruction with the Colorado Division of Wildlife. August 27-28, 2001. Denver, Colorado.
- R. P. Evans and Shiozawa, D. K. 2001. The application and theory of DNA based phylogenetics in the projection and interpretation of phylogenetic relationships among cutthroat trout with insights into the evolution of the Greenback Cutthroat Trout, *Oncorhynchus clarki stomias*. Invited workshop instruction with the Colorado Division of Wildlife. August 27-28, 2001. Denver, Colorado.
- Evans, R. P. Genetic Factors and Recovery. Western Division American Fisheries Society Annual Meeting. July 27, 2000. Telluride, Colorado.

- Shiozawa, B., B. Bogumill, B. Dever, N. Darby, D. Shiozawa, and R. P. Evans. The Genetic Identity of Cutthroat Trout in Great Basin National Park. Bonneville Chapter American Fisheries Society Annual Meeting. March 15, 2000. Salt Lake City, Utah
- Melville, D., and R. P. Evans. A survey of genetic variation in channel catfish in Wyoming. Bonneville Chapter American Fisheries Society Annual Meeting. March 15, 2000. Salt Lake City, Utah
- Shiozawa, D. K. and R. P. Evans. Hybridization issues and cutthroat trout. Inland Interstate Cutthroat Trout Meeting. February 23, 2000. Salt Lake City, Utah.
- Evans, R. P. Genetics and the Endangered Species Act. Utah Valley State College, Pope Science Lecture Symposium. November 29, 2000. Orem, Utah
- Shiozawa, D. K. and R. P. Evans. The ghost of multiple invasions: mitochondrial DNA and cutthroat trout phylogenetics. 47<sup>th</sup> Annual meeting of the North American Benthological Society. May 24-28, 1999. Duluth, Minnesota.
- Shiozawa, D. K. and R. P. Evans. March 31, 1999. Genetic applications to species conservation. Invited paper. Region 4 Cutthroat Trout Conservation and Restoration Workshop. U. S. Forest Service. March 31- April 2, 1999. Salt Lake City, Utah.
- Shiozawa, D. K. , R. P. Evans, and D. Proebstel. March 2, 1999. Future technologies: a DNA based dichotomous key for interior salmonid identification. 34<sup>th</sup> Annual Meeting of the Colorado-Wyoming Chapter American Fisheries Society. March 2-4, 1999. Cheyenne, Wyoming.
- Evans, R. P. and D. K. Shiozawa. March 1999. Prosopium phylogenies. Bonneville Chapter, American Fisheries Society. March 16-18, 1999. Moab, Utah.
- Evans, R. P. September 1998. Molecular Biology and Phylogenetic Systematics. Chinese Academy of Sciences. Beijing, China.
- Shiozawa, D. K. and R. P. Evans. The role of drainage basin history in the mitochondrial DNA diversity of Lahontan, Bonneville, and Colorado River cutthroat trout. Joint meetings of the Colorado/Wyoming and the Bonneville Chapters of the American Fisheries Society. March 3-4, 1998. Grand Junction, Colorado.
- Bray, A., R. P. Evans, and D. K. Shiozawa. The distribution of nuclear DNA markers in an introgressed metapopulation of cutthroat trout in the Sheep Creek Drainage, Utah. Joint meeting of the Colorado/Wyoming and the Bonneville Chapters of the American Fisheries Society. March 3-4, 1998. Grand Junction, Colorado.
- Jones, C., L. Etchberger, R. P. Evans, and D. K. Shiozawa. A cutthroat trout metapopulation study in Sheep Creek -- an overview of mtDNA investigations. Joint meeting of the Colorado/Wyoming and the Bonneville Chapters of the American Fisheries Society.

March 3-4, 1998. Grand Junction, Colorado.

Evans, R. P., L. Tao, and D. K. Shiozawa. June sucker phylogenetic relationships as determined through short fragment PCR. Joint meetings of the Colorado/Wyoming and the Bonneville Chapters of the American Fisheries Society. March 3-4, 1998. Grand Junction, Colorado.

Shiozawa, D. K., and R. P. Evans. Use of mtDNA to identify introgression with exotics: a Case study with cutthroat trout. 46<sup>th</sup> Annual Meeting of the North American Benthological Society. June 2-5, 1998. Prince Edward Island, Canada.

Tao, L., R. P. Evans, and D. K. Shiozawa. Genetic status of June sucker (*Chasmistes liorus*) before the 1930's drought. Bonneville Chapter of the American Fisheries Society. March 20, 1997. Price, Utah.

Shiozawa, D. K. , and R. P. Evans. Mitochondrial DNA variations among basins and subspecies B the role of glaciation and refuges on genetic variability. Lahontan Cutthroat Trout Recovery Team Meetings. January 22, 1998. Reno, Nevada.

Jones, C., L. Etchberger, R. P. Evans, and D. K. Shiozawa. A cutthroat trout metapopulation study in Sheep Creek -- an overview of mtDNA investigations. Cutthroat Trout Management Meeting, Region 4, U. S. Forest Service. April 9, 1997. Vernal, Utah.

Bray, A., D. K. Shiozawa, and R. P. Evans. A cutthroat trout metapopulation study in Sheep Creek -- an overview of allozyme investigations. Cutthroat Trout Management Meeting, Region 4, U. S. Forest Service. April 9, 1997. Vernal, Utah.

Shiozawa, D. K. and R. P. Evans. Cutthroat trout genetic identification - an introduction to some molecular techniques. Invited paper. Conservation and management of wild and native trout fisheries. 17<sup>th</sup> Annual Mitsubishi Motors World Fly-fishing Championship and Symposium. September 8, 1997. Jackson, Wyoming.

Jones, C., D. K. Shiozawa, R. P. Evans, and L. K. Etchberger. Genetic Variations of Colorado River Cutthroat Trout (*Onchorynchus clarki pleuriticus*) Populations of the Sheep Creek Drainage in the Uinta Mountains near Vernal, Utah. Annual Meeting of the Desert Fishes Council. November 22, 1997. Death Valley, California.

Bray, A., D. K. Shiozawa, and R. P. Evans. A cutthroat trout metapopulation study in Sheep Creek -- an overview of allozyme investigations. Annual Meeting of the Desert Fishes Council. November 22, 1997. Death Valley, California.

Shiozawa, D. K. and R. P. Evans. Patterns of mitochondrial diversity within several cutthroat trout subspecies as a reflection of geological history. Western Division of the American Fisheries Society. July 14-18, 1996. Eugene, Oregon.

D. K. Shiozawa, R. N. Williams, and R. P. Evans. The use of mtDNA to determine



relationships among and within cutthroat trout subspecies. Western Division of the American Fisheries Society. July 16-19, 1995. Park City, Utah.

Evans, R. P., R. N. Williams, D. Proebstel, and D. K. Shiozawa. Genetics of Lahontan Basin Cutthroat Trout: the Humboldt subspecies and the Pyramid Lake Lahontan Cutthroat Trout. Western Division of the American Fisheries Society. July 16-19, 1995. Park City, Utah.

Shiozawa, D. K. and R. P. Evans. Mitochondrial DNA haplotype diversity in cutthroat trout. Annual Meeting of the Desert Fishes Council. November 17-18, 1994. Death Valley, California.

Shiozawa, D. K. and R. P. Evans. Use of DNA to identify geographical isolation in trout stocks. Wild Trout V Symposium. September 26-27, 1994. Yellowstone National Park, Mammoth Hot Springs, Montana.

Williams, R. N., R. P. Evans, and D. K. Shiozawa. Mitochondrial DNA diversity patterns of Bull Trout in the Columbia and Klamath river basins. Friends of the Bull Trout Conference. May 5-7, 1994. Calgary, Alberta, Canada.

Shiozawa, D. K., D. L. Davis, and R. P. Evans. Mitochondrial DNA based phylogenetic relationships of some selected catostomids. Bonneville Chapter, American Fisheries Society. March 2-4, 1994. Wendover, Nevada..

Evans, R. P. and D. K. Shiozawa. Cutthroat trout purity from Utah drainages. Bonneville Chapter, American Fisheries Society. March 2-4, 1994. Wendover, Nevada..

Shiozawa, D. K. and R. P. Evans. Mitochondrial DNA haplotype diversity in cutthroat trout. Annual Meeting of the Desert Fishes Council. November 17-18, 1994. Death Valley, California.

Davis, D. L., D. K. Shiozawa, and R. P. Evans. An appraisal of the usefulness of Polymerase Chain Reaction amplified mitochondrial DNA to separate some western catostomids. Annual Meeting of the Desert Fishes. November 10-14, 1993. Monterey, Mexico.

Williams, R. N., R. Leary, E. Bermingham, R. P. Evans, and D. K. Shiozawa. Molecular systematics of polytypic cutthroat trout. American Society of Ichthyology and Herpetology. August 1993. Austin, Texas.

Evans, R.P. and D.K. Shiozawa. October 1993. DNA from ancient and formalin preserved fish. 2nd International Ancient DNA Conference, Smithsonian Institution, Washington, D.C.

Proebstel, D. S., R. P. Evans, R. N. Williams, and D. K. Shiozawa. Preservation of tissue from a salmonine fish, *Brachymystax lenok*, for genetic analysis. International Symposium on Genetics of Subarctic Fish and Shellfish. May 17-19, 1993. Juneau, Alaska.

- Williams, R. N., R. P. Evans, D. K. Shiozawa, and D. S. Proebstel. Genetic and geographic variation among bull trout populations in the Columbia and Klamath River Basins. International Symposium on Genetics of Subarctic Fish and Shellfish. May 17-19, 1993. Juneau, Alaska.
- Evans, R. P., H. Palkki, D. K. Shiozawa, and R. N. Williams. Genetic relationship of morphological forms of Dolly Varden (*Salvelinus malma*). International Symposium on Genetics of Subarctic Fish and Shellfish. May 17-19, 1993. Juneau, Alaska.
- Williams, R. N., D. K. Shiozawa, R. P. Evans, and E. Bermingham. Molecular phylogenies of cutthroat trout (*Onchorynchus clarki*) based on a hierarchical analysis series of mitochondrial DNA polymorphisms. NOAA Workshop: Application of DNA Technology to the Management of Pacific Salmon. March 22, 1993. Seattle, Washington.
- Shiozawa, D. K., R. P. Evans, and R. N. Williams. phylogenetics of Cutthroat Trout with an emphasis on some Utah cutthroat populations. Bonneville Chapter, American Fisheries Society. Technical session: Native cutthroat trout. February 25, 1993. St. George, Utah.
- Shiozawa, D. K., R. P. Evans, and R. N. Williams. Phylogenetic relationships of the Bonneville Cutthroat trout. Status Review of the Bonneville Cutthroat Trout (*Onchorynchus clarki* utah). U.S. Fish and Wildlife Service Meeting. January 12, 1993. Salt Lake City, Utah.
- Shen, Y., R. P. Evans, R. N. Williams and D. K. Shiozawa. Restriction fragment length polymorphism (RFLP) of Cutthroat trout *Onchorynchus clarki* mitochondrial DNA fragments amplified by Polymerase Chain Reaction (PCR). Annual Meeting of the Desert Fishes Council. November 19-20, 1992. Mesa, Arizona.
- Williams, R. N., D. S. Proebstel, D. K. Shiozawa, and R. P. Evans. Genetics and morphological evidence supporting subspecific designation of the Humboldt cutthroat trout. Annual Meeting of the Desert Fishes Council. November 19-20, 1992. Mesa, Arizona.
- Davis, D. L., D. K. Shiozawa, and R. P. Evans. The use of polymerase chain reaction for the identification of catostomid fishes of the Green River system. Annual Meeting of the Desert Fishes Council. November 19-20, 1992. Mesa, Arizona.
- Evans, R. P., D. K. Shiozawa and R. N. Williams. The role of National Parks and wilderness areas in conserving genetic diversity in native cutthroat trout. Western Division, American Fisheries Society. July 13-16, 1992. Colorado State University, Fort Collins, Colorado.
- Kudo, J., R. P. Evans, D. K. Shiozawa, and R. N. Williams. Cutthroat trout (*Onchorynchus clarki*) subspecies relationships: mtDNA D-loop and ribosomal DNA sequences. Annual Meeting of the Desert Fishes Council. November 21, 1991. Death Valley,

California.

- Shiozawa, D. K. , R. N. Williams, R. P. Evans, J. Kudo and R. Sorenson. An overview of cutthroat trout systematics from morphology to DNA analyses: present status and future applications. Western Division of the American Fisheries Society. July 16-19, 1991. Bozeman, Montana.
- Kudo, J., Y. Shen, D. K. Shiozawa, R. P. Evans and R. N. Williams. Molecular genetics and the future of trout systematics: restriction site mapping and mitochondrial and ribosomal DNA sequencing. Western Division of the American Fisheries Society. July 16-19, 1991. Bozeman, Montana.
- Kudo, J., D. K. Shiozawa, R. P. Evans and R. N. Williams. DNA sequence variation in trout. Pacific Division, AAAS. June 24, 1991. Utah State University, Logan, Utah.
- Shiozawa, D. K. , R. N. Williams, R. P. Evans, J. Kudo and R. Sorenson. Cutthroat trout systematics - what have we found and where are we going? Bonneville Chapter, American Fisheries Society. February 27 - March 1, 1991. Wendover, Nevada.
- Kudo, J., D. K. Shiozawa and R. P. Evans. Mitochondrial d-loop sequence variation in trout Bonneville Chapter, American Fisheries Society. February 27 - March 1, 1991. Wendover, Nevada.
- Xiong, S., W. R. Andersen, R. P. Evans, D. J. Weber, Y. Ye and R. L. Park. 1991. Parentage identification in Mink using random amplified polymorphic DNA (RAPD). Proceedings of the American Society of Animal Science 42:77-80.
- Shen, Y., R. P. Evans, D. K. Shiozawa and R. N. Williams. Restriction site and functional mapping of the mitochondrial genome of cutthroat trout. Bonneville Chapter, American Fisheries Society. February 27 - March 1, 1991. Wendover, Nevada.
- Shiozawa, D. K. , R. P. Evans, and R. N. Williams. Taxonomic relationships among cutthroat trout as determined through mitochondrial DNA analysis. Bonneville Chapter, American Fisheries Society. February 21-22, 1990. Wendover, Nevada.
- Evans, R. P., D. Fairbanks, J. Kudo, D. K. Shiozawa, and R. N. Williams. 1990. Analysis of nuclear and mitochondrial DNA from plants, fish, and mummified humans. Automating Molecular Biology: Tools and Techniques for the 90's. Applied Biosystems Seminar series.
- Shiozawa, D. K. J. Kudo, R. P. Evans and S. Woodward. Isolation and characterization of DNA from formalin preserved fish. Annual Meeting of the Desert Fishes Council. November 14-17, 1990. Ensenada, Mexico.
- Evans, R. P., Y. Shen, R. N. Williams and D. K. Shiozawa. A restriction site map for mitochondrial DNA in cutthroat trout. Annual Meeting of the Desert Fishes Council.

- November 14-17, 1990. Ensenada, Mexico.
- Kudo, J., D. K. Shiozawa, R. P. Evans and S. Woodward. Sequencing of PCR amplified DNA from trout. Annual Meeting of the Desert Fishes Council. November 14-17, 1990. Ensenada, Mexico.
- Sorenson, R., D. K. Shiozawa, and R. P. Evans. Ribosomal DNA and cutthroat trout systematics. Annual Meeting of the Desert Fishes Council. November 15-16, 1989. Albuquerque, New Mexico.
- Evans, R. P. Water quality at the USX RCRA site. Utah Senate/House Select Committee. February 1989. Salt Lake City, UT
- Shiozawa, D. K. , R. N. Williams, and R. P. Evans. Cutthroat trout systematics -- combining biochemical and meristic methods. Nevada Department of Wildlife Resources. January 17, 1989. Reno, Nevada.
- Evans, R. P. April 1989. Fingerprinting the Forest. Los Alamos National Laboratories, Los Alamos, New Mexico.
- Evans, R. P. January 1988. The Glycinins- Genes and Proteins. Botany and Range Science Department, Brigham Young University, Provo, Utah.
- Evans, R. P. May 1985. Structure and Genomic Organization of Glycinin Genes from Soybean. Ohio State/Battelle Molecular and Cellular Development Seminar Series, Columbus, Ohio.
- Evans, R. P., and N. C. Nielson. October 1984. Structure, Genomic Organization and Inheritance of Glycinin Genes from Soybean. Symposium on Protein Improvement in Cereals and Oilseeds through Traditional and Modern Genetics Approaches. American Association of Cereal Chemists Annual Meeting, Minneapolis, Minnesota.
- Evans, R. P., and F. Macrina. August 1984. Gene Transfer Systems in Streptococci. Symposium on Plasmid Vectors, Construction and Expression. Society of Industrial Microbiology Annual Meeting, Fort Collins, Colorado.
- Evans, R. P., and N. C. Nielson. March 1984. Molecular Biology of Soybean Storage Proteins. Purdue University Biochemistry Program Research Conference, Turkey Run, Indiana.
- Evans, R. P. December 1983. Genetic and Functional Analysis of a Broad Host Range Streptococcal R Plasmid. Department of Microbiology and Immunology, Virginia Commonwealth University, Richmond, Virginia.
- Evans, R. P. May 1983. The Broad-Host Range Streptococcal Plasmids pIP501: Identification of Plasmid Encoded Proteins. Virginia Academy of Sciences 1983 Annual Meeting, George Mason University, Fairfax, Virginia.

- Evans, R. P. February 1983. Molecular Characterization of the Model Streptococcal Conjugative R Plasmid pIP501. Department of Biology, Brookhaven National Laboratories, Brookhaven, New York.
- Evans, R. P. October 1981. Molecular Organization of the Streptococcal Plasmid pIP501. Mid-Atlantic Extrachromosomal Genetic Elements Meeting, Ocean City, Maryland.
- Evans, R. P. May 1981. Molecular Organization of the Streptococcal Plasmid pIP501. Virginia Academy of Sciences 1981 Annual Meeting, Old Dominion University, Norfolk, Virginia.

Funding through 2021	Total	\$1,603,394
2021 Nuclear and Mitochondrial DNA Analysis of Cutthroat Trout. Co-PI with Dennis K. Shiozawa (BYU) and John Kauwe (BYU)	\$46,200	
2020 Nuclear and Mitochondrial DNA Analysis of Cutthroat Trout. Co-PI with Dennis K. Shiozawa (BYU) and John Kauwe (BYU)	\$46,200	
2019 Nuclear and Mitochondrial DNA Analysis of Cutthroat Trout. Co-PI with Dennis K. Shiozawa (BYU) and John Kauwe (BYU)	\$46,200	
2018 Nuclear and Mitochondrial DNA Analysis of Cutthroat Trout. Co-PI with Dennis K. Shiozawa (BYU) and John Kauwe (BYU)	\$46,200	
2017 Nuclear and Mitochondrial DNA Analysis of Cutthroat Trout. Co-PI with Dennis K. Shiozawa (BYU) and John Kauwe (BYU)	\$46,200	
2016 Nuclear and Mitochondrial DNA Analysis of Cutthroat Trout. Co-PI with Dennis K. Shiozawa (BYU) and John Kauwe (BYU)	\$46,200	
2015 CRCT Genetic Purity of Cutthroat Trout Populations. Co-PI with Dennis K. Shiozawa (BYU)	\$2,140	
2015 Nuclear and Mitochondrial DNA Analysis of Cutthroat Trout. Co-PI with Dennis K. Shiozawa (BYU) and John Kauwe (BYU)	\$46,200	
2014 Nuclear and Mitochondrial DNA Analysis of Cutthroat Trout. Co-PI with Dennis K. Shiozawa (BYU) and John Kauwe (BYU)	\$46,200	
2013 Genetic status of speckled dace in Kelly Warm Spring, Grand Teton National Park, WY. Co-PI with Dennis K. Shiozawa (BYU)	\$1,840	

2013	Nuclear and mitochondrial DNA analysis of Cutthroat trout. Co-PI with Dennis K. Shiozawa (BYU) and John Kauwe (BYU).	\$46,200
2012	Nuclear and mitochondrial DNA analysis of Cutthroat trout. Co-PI with Dennis K. Shiozawa (BYU) and John Kauwe (BYU).	\$46,200
2012	Genetic analysis of Colorado/Greenback Cutthroat trout. Co-PI with Dennis K. Shiozawa (BYU). Colorado Division of Wildlife	\$2,211
2011	Genetic analysis of Colorado/Greenback Cutthroat trout. Co-PI with Dennis K. Shiozawa (BYU). Colorado Division of Wildlife	\$4,950
2011	Genetic testing of relict dace from Ruby Lake National Wildlife refuge. Co-PI with Dennis K. Shiozawa (BYU). US Fish and Wildlife Service, Otis Bay.	\$13,500
2011	Genetic Analysis of Utah Cutthroat trout. Co-PI with Dennis K. Shiozawa (BYU). Utah Division of Wildlife Resources.	\$60,990
2010	Genetic analysis of Colorado/Greenback Cutthroat trout. Co-PI with Dennis K. Shiozawa (BYU). Colorado Division of Wildlife	\$14,592
2010	Genetic evaluation of Bonneville Cutthroat trout conservation. Co-PI with Dennis K. Shiozawa (BYU). US Department of Interior.	\$39,715
2010	Greenback Cutthroat trout: Native or introduced. Co-PI with Dennis K. Shiozawa (BYU). Utah Division of Wildlife Resources.	\$5,000
2009	Genetic Analysis of Utah Cutthroat trout. Co-PI with Dennis K. Shiozawa (BYU). Utah Division of Wildlife Resources.	\$39,375
2009	Genetic analysis of Colorado/Greenback Cutthroat trout. Co-PI with Dennis K. Shiozawa (BYU). Colorado Division of Wildlife	\$4,990
2008	Cutthroat trout DNA analysis. Co-PI with Dennis K. Shiozawa (BYU). Bureau of	

	Land Management.	\$2,400
2008	Genetic Analysis of Utah Cutthroat trout. Co-PI with Dennis K. Shiozawa (BYU). Utah Division of Wildlife Resources.	\$40,500
2007	Genetic Analysis of Utah Cutthroat trout. Co-PI with Dennis K. Shiozawa (BYU). Utah Division of Wildlife Resources.	\$40,500
2006	White River National Forest Colorado River Cutthroat trout analysis. Co-PI with Dennis K. Shiozawa (BYU). US Forest Service.	\$20,000
2005	Colorado River cutthroat trout DNA analysis. Co-PI with Dennis K. Shiozawa (BYU). US Forest Service - Paonia Ranger District.	\$10,030
2004	Geographical patterns in aquatic organisms in the Western North America. Sant Endowment Fund, College of Biology and Agriculture, BYU	\$20,000.
2004	An investigation of the distribution of <i>Cottus bairdi</i> and <i>Cottus cognatus</i> (Cottidae) in Montana. Co-PI with Dennis K. Shiozawa (BYU) and Anne Tews (Montana Fish, Wildlife, and Parks). U. S. Fish and Wildlife Service SWIG grants program.	\$10,000.
2003	Genetic Analysis of Cutthroat Trout Subspecies. Co-PI with Dennis K. Shiozawa (BYU). Utah Division of Wildlife Resources.	\$80,000
2003	Colorado River Cutthroat Trout Genetics . Co-PI with Dennis K. Shiozawa (BYU). Colorado Division of Wildlife.	\$24,800
2003	Genetic analysis of Colorado River Cutthroat Trout. Co-PI with Dennis K. Shiozawa (BYU). U. S. Fish and Wildlife Service. Grand Junction, Colorado.	\$2,480.
2002	Nuclear and Mitochondrial analysis of Colorado River Cutthroat Trout. Co-PI with Dennis K. Shiozawa (BYU). U. S. Fish and Wildlife Service. Grand Junction, Colorado.	\$9,916.
2002	Genetics, introgression, and phylogeography of cutthroat trout in Wyoming. Co-PI with	



	Dennis K. Shiozawa (BYU). Wyoming Game and Fish Commission.	\$25,000.
2002	U.S. Forest Service-Paonia Ranger District- Colorado River Cutthroat Trout. Co-PI with Dennis K. Shiozawa (BYU). U. S. Forest Service.	\$10,030
2002	Genetic Analysis of Native Yellowstone Cutthroat Trout Populations. Co-PI with Dennis K. Shiozawa (BYU). Big Horn National Forest, Wyoming.	\$2,400
2001	Molecular and Cellular Biology Virtual Laboratory. BYU Center for Instructional Design.	\$50,000
2001	U.S. Forest Service-Paonia Ranger District- Colorado River Cutthroat Trout. Co-PI with Dennis K. Shiozawa (BYU). U. S. Forest Service.	\$10,030
2001	West slope native fishes genetic assessment. Co-PI with Dennis K. Shiozawa (BYU). Colorado Division of Wildlife.	\$59,000
2001	Phylogeny, life history, and ecological adaptation among selected populations of a native fish. Co-PI with Mark C. Belk (BYU) and Dennis K. Shiozawa (BYU). Sant Endowment Fund, College of Biology and Agriculture, BYU.	\$9,500
2000	Nuclear and Mitochondrial analysis of Colorado River Cutthroat Trout. Co-PI with Dennis K. Shiozawa (BYU). Wyoming Game and Fish Department.	\$24,999
2000	Nuclear and mitochondrial DNA analysis of Greenback cutthroat trout. Co-PI with Dennis K. Shiozawa (BYU). Colorado Division of Wildlife.	\$20,000
2000	U.S. Forest Service-Paonia Ranger District- Colorado River Cutthroat Trout. Co-PI with Dennis K. Shiozawa (BYU) U. S. Forest Service.	\$9,971
2000	Fag el Gamous Database Development. Center for Instructional Design, BYU	\$8,000
2000	U.S. Forest Service-Paonia Ranger District- Colorado River Cutthroat Trout. Co-PI with Dennis K. Shiozawa (BYU). U. S. Forest Service.	\$9,971
2000	Nuclear and Mitochondrial analysis of Christensen Creek Cutthroat Trout:	

	Hybridization and Whirling Disease. Co-PI with Dennis K. Shiozawa (BYU). Wyoming Cooperative Fish and Wildlife Research Unit, University of Wyoming, Laramie, Wyoming.	\$4,000
1999	Nuclear and Mitochondrial analysis of Colorado River Cutthroat Trout. Co-PI with Dennis K. Shiozawa (BYU). Colorado Department of Natural Resources, Division of Wildlife.	\$10,787
1999	U.S. Forest Service-Paonia Ranger District- Colorado River Cutthroat Trout. Co-PI with Dennis K. Shiozawa (BYU). U. S. Forest Service.	\$6,968
1999	Nuclear and Mitochondrial analysis of Colorado River Cutthroat Trout. Co-PI with Dennis K. Shiozawa (BYU). Wyoming Game and Fish Department.	\$9,400
1999	Utah Cutthroat genetics. Co-PI with Dennis K. Shiozawa (BYU). Utah Division of Wildlife Resources.	\$77,400
1999	The identification of cutthroat trout from Great Basin National Park. Co-PI with Dennis K. Shiozawa (BYU). National Park Service.	\$2,000
1996	The genetic variation of Lahontan Cutthroat Trout based on DNA techniques with special emphasis on trout from Pyramid Lake, Nevada. Co-PI with Dennis K. Shiozawa (BYU). U. S. Fish and Wildlife Service.	\$5,300
1993	Stock Assessment of Salmonid Populations. Co-PI with Dennis K. Shiozawa (BYU). BC Hydro	\$16,000
1993	An examination of concordance and relative resolution of major systematic techniques applied to the cutthroat trout complex. Co-PI with Dennis K. Shiozawa (BYU) and Richard N. Williams (Boise State University). Nevada Department of Wildlife.	\$70,000
1993	The phylogenetics of the bull trout, <i>Salvelinus confluentus</i> based on mitochondrial DNA restriction fragment analysis. Co-PI with Dennis K. Shiozawa (BYU) and Richard N. Williams (Boise State University). National Marine Fisheries Institute	\$20,000

1993	The identification of native cutthroat trout in Utah. Co-PI with Dennis K. Shiozawa (BYU). Utah Division of Wildlife Resources	\$88,350
1993	Dairy cattle trait analyses using random amplified polymorphic DNA. BYU Agriculture Station.	\$3,250
1993	Swine waste utilization and odor control using separation and aeration. Co-PI with Robert L. Park (BYU), W. Ralph Anderson (BYU), and Dan J. Fairbanks (BYU). Utah Department of Agriculture	\$9,000
1992	Determining Parentage with Polyandrous Mink Litters Using Random Polymorphic DNA Procedures. Co-PI with Robert L. Park (BYU). Mink Farmers Research Foundation.	\$3,250
1992	Mink trait analyses using random amplified polymorphic DNA (RAPD) markers. Co-PI with Robert L. Park (BYU), W. Ralph Anderson (BYU), and Dan J. Fairbanks (BYU). Mink Farmers' Research Foundation.	\$3,000
1991	Dairy cattle trait analyses using random amplified polymorphic DNA. Co-PI with Robert L. Park (BYU), W. Ralph Anderson (BYU), and Dan J. Fairbanks (BYU). BYU Agriculture Station	\$3,250
1991	Swine trait analyses using random amplified polymorphic DNA. Co-PI with Robert L. Park (BYU), W. Ralph Anderson (BYU), and Dan J. Fairbanks (BYU). Pig Improvement Company.	\$2,500
1991	Genetic relationships of Arabian Sea Lobster (Homarus) populations from Oman. Co-PI with Richard N. Williams (Boise State University) and Bill Liss (Oregon). US/Sultantate of Oman Joint Science Commission.	\$25,000
1990	June Sucker Taxonomy - DNA Investigation. U. S. Fish and Wildlife Service	\$75,000
1989	Population structure and genetic variation within and among fragmented subpopulations of the Concho water snake, <i>Nerodia Harteri paucimaculata</i> . Co-PI with Jack W. Sites (BYU). Colorado River Municipal Water District.	\$30,770

- 1989 Taxonomic relationships among Cutthroat trout of the Western Great Basin: Subspecific status for the Humboldt Cutthroat? Co-PI with Richard Williams (Boise State University) and Dennis Shiozawa (BYU). Nevada Department of Wildlife.  
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- 1989 Determining Parentage with Polyandrous Mink Litters Using Random Polymorphic DNA Procedures. Co-PI with Robert L. Park (BYU). Mink Farmers Research Foundation.  
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Evans, R. P., and D. K. Shiozawa. April 2015. Genetic Status of Utah Cutthroat Trout Populations: December 2014 Samples. Final Report to Utah Division of Wildlife Resources. Salt Lake City, UT. 14 pp.

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Evans, R. P., D. D. Houston, and Shiozawa, D. K. December 2013. Genetic status of Utah cutthroat trout populations: September 2013 samples. Final Report to Utah Division of Wildlife Resources. Salt Lake City, UT. 11 pp.

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Dowler Colorado Division of Wildlife, Denver, Colorado. 13 pp.

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South Beaver Creek in the Bighorn National Forest, Wyoming. Final Report to David Mandrella. Bighorn National Forest, Wyoming. 8pp.

Shiozawa, D. K. and R. P. Evans. June 22, 2000. The genetic status of six cutthroat trout populations in Colorado: Headache Creek, Bench Lake, West Antelope Creek, Northwater Creek, Roan Creek, and Beaver Creek. Final Report to David Langlois. Colorado Division of Wildlife, Montrose, Colorado. 9pp

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### **Significant Public Service**

2015 - 2024	Chair, State of Utah Fish Health Policy Board
2012 - 2024	State of Utah Fish Health Policy Board (Governor appointed)
2003 - 2012	Federal June Sucker Recovery Team
2004 - present	Chair, Provo City Pleasant View Neighborhood
1994 - 2002	Chair, Provo City Riverbottoms Neighborhood

1998 - 2001	Chair (Governor appointed), Utah Governors Council for People with Disabilities
1996 -1999	Utah State Board of Education Advisory Committee on the Handicapped (State Board of Education appointed)
1991 -1994	Member, Utah Childrens Mental Health Advisory Board
1992 - 1997	Citizen Member (Governor appointed), Utah Governors Council for People with Disabilities

### **Department Committees/Assignments**

2012 - present	Member, Department of Microbiology and Molecular Biology, Undergraduate Education Committee
2011 - 2021	Coordinator, Department of Microbiology and Molecular Biology, Honors Program
2010 - 2012	Chair, Department of Microbiology and Molecular Biology, Resource Committee
2012	Chair, Department of Microbiology and Molecular Biology, Medical Laboratory Science Faculty Search Committee
2011	Chair, Department of Microbiology and Molecular Biology, Molecular/Cellular Biology Faculty Search Committee
2004	Chair, Department of Microbiology and Molecular Biology, Immunology Faculty Search Committee
2003	Chair, Department of Microbiology and Molecular Biology, Core Facility Faculty Search Committee
2002	Chair, Department of Microbiology and Molecular Biology, Molecular Biology Faculty Search Committee
2002 -2004	Chair, Department of Microbiology and Molecular Biology, Resource Committee
2002 - 2004	Member, Department of Microbiology and Molecular Biology, Executive Committee
1995 - 2002	Coordinator, Department of Zoology, Honors Program

1999 - 2000	Member, Department of Zoology, Search and Hiring Committee
1995 - 1999	Member, Department of Zoology, Graduate Committee
1988 - 1996	Manager, Department of Zoology VAX account
1988 - 1996	Member, Department of Zoology, Computer Users Committee
1988 - 1996	Chair, Department of Zoology, Seminar Committee

### **College Committees/Assignments**

2024	Reviewer, College of Life Sciences Grants
2011-2015	Reviewer, Sant Endowment
2001	Organized and accompanied college undergraduate students to West Coast Biological Sciences Undergraduate Research Conference, Santa Clara, CA
1995 - 1997	Member, Molecular Biology Steering Committee
1995 - 2002	Chair, Computer Users Committee
1995 - 1996	Advisor, College of Biology and Agriculture Student Advisory Committee
1995 - 1996	Deputy Computer Support Representative, College of Biology and Agriculture
1995 - 1996	Manager, College of Biology and Agriculture VAX account
1992	Reviewer, College of Biology and Agriculture Grants
1991	Reviewer, College of Biology and Agriculture Grants
1989	Chair, Botany/Microbiology/Zoology Core Courses (BMZ375, BMZ385, BMZ526) Review and Development Committee

### **University Committees/Assignments**

2018 - 2020	University Traffic Committee
2017 - 2020	University Faculty Advisory Council
2011 - 2018	Beta Tester, BYU Learning Suite

2012-2015	Grant Reviewer, ORCA
2012	Member, University Catalog Review Committee
2011	Member, Blended Classrooms Survey
2011	Faculty Advisory Council [note: elected by peers but not appointed]
2011	Grant Reviewer, ORCA
2009	Faculty, London Study Abroad
2010	Grant Reviewer, ORCA
2006	Faculty Advisor, Gospel Choir Student Club
2005	Beta Tester, Blackboard Implementation
2005	Registration Focus Group
2003	Beta Tester, Blackboard 6.0
2002	Faculty Advisory Council [note: elected by peers but not appointed]
2001	Beta Tester, IP Telephony
2001	Beta Tester, Network Services Manager
2001	Beta Tester, RouteY Post Office v.3
2001	Blackboard Users Group Design Critique
1997 -2002	Member, Information Technology Requirements Committee
1995	Department Representative, University Web Expo
1994 - 2004	Faculty Advisor, Operation Smile Student Club
1989 - 1992	Member, University Biohazard Review Committee

### **Professional Service**

2024 - present	NSF GRFP Review Panel
2015 - 2024	Chair, State of Utah Fish Health Policy Board

2012 - 2024	State of Utah Fish Health Policy Board (Governor appointed)
2003 - 2012	Federal June Sucker Recovery Team
1990 - 2004	Technical Advisor, Colorado Basin Conservation and Recovery Team
1997 - 2004	Editor, American Fisheries Society, Western Division Newsletter
1991 - 1996	Editor, American Fisheries Society, Bonneville Chapter Newsletter
1984-1988	Member, Society for Industrial Microbiology, Education Committee

### **Teaching Improvement Grants**

2006	Asynchronous/Synchronous Distance Teaching Grant, College of Life Sciences, \$2,500
2005	Academy on Teaching and Learning, General Education, \$1,000
2003	Honors 259 Course Improvement Grant, BYU General Education, \$1,000
2001	Cellular Biology Pathways Online, BYU Center for Teaching and Learning, \$65,000
1997	Zoology 373 Improvement Grant, Faculty Teaching Center, \$3,200 (with Bell and Bradshaw)

### **Visiting Researchers**

Dr. Atif El-Naggar. Ain Shams University, Egypt. February 2010 to June 2010; July 2013

Dr. Cemal Oguz, Ataturk University, Turkey. July 2011 to December 2011; June to October 2012.

Dr. Nahla Radwan, Tanta University, Egypt. September 2007 to April 2008

Dr. Ying Wang, Institute of Zoology, Chinese Academy of Sciences. September 1997 to March 1998.

Dr. Shen Xioxing, Institute of Zoology, Chinese Academy of Sciences. September 1997 to March 1998.

Dr. Edward Peters, University of Nebraska, Lincoln. June 1, 1997-June 9, 1997

