

Gil Guastoni Rosenthal

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Department of Biology
Texas A&M University, 3258 TAMU
College Station, Texas 77843-3258

Email: grosenthal@mail.bio.tamu.edu
Phone: 979-845-3614
Web: <http://www.bio.tamu.edu/users/rosenthal/>

Education:

1993-2000 University of Texas at Austin, Ph.D., Zoology. Thesis: The behavioral ecology of visual signaling in swordtails.
1989-1993 Harvard University, A. B. degree *magna cum laude*, biology. Senior thesis, *summa cum laude*.

Positions:

2009-date Associate Professor, Department of Biology, Texas A&M University
2005-date Director, Centro de Investigaciones Científicas de las Huastecas "Aguazarca"
2010-date Associate Chair, Faculty of Ecology, Evolution, and Behavior, Texas A&M University
2006-date Faculty of Genetics, Texas A&M University
2006-date Faculty of Neuroscience, Texas A&M University
2006-date Faculty of Reproductive Biology, Texas A&M University
2006-date Faculty of Marine Biology, Texas A&M University
2006-2009 Assistant Professor, Department of Biology, Texas A&M University
2002-2006 Assistant Professor, Department of Biology, Boston University.
2003 Visiting professor, Interuniversity Institute, Eilat, Israel
2000-2002 National Eye Institute postdoctoral fellow, University of California, San Diego.
1998-2000 Graduate research assistant, University of Texas at Austin.
1994-1995 Teaching assistant, University of Texas at Austin.
1994 Assistant researcher, Texas Natural History Collection, Texas Memorial Museum.
1993 Research assistant, Smithsonian Tropical Research Institute, Gamboa, Panama.

Grants:

Active

National Science Foundation, IOB, "Mate choice and evolutionary genetics in *Xiphophorus* hybrid zones", July 2009-July 2012, \$510,000.

Completed

National Science Foundation, IOB, "Recombinant traits and recombinant mating preferences in hybrid zones", July 2005-March 2009, \$389,283.

National Institutes of Health, National Research Service Award to postdoctoral fellow Seth Coleman, January 2006-December 2008.

National Institutes of Health, National Research Service Award (with PI Karen Marchetti), July 2000-June 2002.

NSF Doctoral Dissertation Improvement Grant, "Geographic variation in sexually-selected trait distributions in the Río Panuco basin swordtails: the role of predation", 1997, \$9,400.

Teaching: (* indicates new course developed)

2006- Courses taught, Department of Biology, TAMU.
*BIOL 467 Integrative Animal Behavior.
*BIOL 689 Behavior, genes, and evolution (graduate course developed with G. Carney).
2007 Resource professor, Organization of Tropical Studies graduate field course.
2002-2005 Courses taught, Department of Biology, Boston University.
*Analysis in Behavioral Ecology (upper-level undergraduate).
*Animal Communication (upper-level undergraduate/graduate).
Tropical Marine Biology (upper-level undergraduate).
First-year graduate core course.
2003 Advanced Animal Behavior graduate course, Interuniversity Institute, Eilat, Israel.

- 1995 Teaching assistant, Behavioral Ecology course, UT-Austin.
1994 Teaching assistant, Ichthyology course, UT-Austin.

Honors and awards:

- Lipper Fellowship, 2003.
Outstanding Doctoral Dissertation Award, UT Austin, 2000.
National Research Service Award, NIH, 2000.
American Livebearer Association research award, 1999.
National Science Foundation Doctoral Dissertation Improvement Grant, 1997.
Travel fellowship, Dept. of Zoology, UT Austin, summer 1994, 1995, 1996, 1998, 1999.
Texas chapter American Fisheries Society Scholarship, 1995.
University of California Special Regents' Fellowship, 1993 (declined).
National Science Foundation Predoctoral Fellowship, 1993.
University Fellowship, UT Austin, 1993.
NSF RTG Undergraduate Fellowship, UC Davis, 1992.
National Scholar, Harvard, 1989.

Publications in press or published (co-authors: *graduate students, †postdocs, ‡undergraduates):

48. G.G. Rosenthal & N.J. Marshall in press. Communication behaviour: visual signals. *In: Encyclopedia of Fish Physiology: From Genome to Environment* (A.P. Farrell ed.), Elsevier Press.
47. G.G. Rosenthal in press. Swordtails and platyfishes. *In: Encyclopedia of Animal Behavior* (M. Breed ed.), Elsevier Press.
46. G.G. Rosenthal in press. The use of playbacks in behavioral experiments. *In: Encyclopedia of Animal Behavior* (M. Breed ed.), Elsevier Press.
45. G. G. Rosenthal and M. J. Ryan in press. Multiple visual cues, receiver psychology, and signal evolution in pygmy swordtails. *In Viviparous Fishes II*, Maricarmen Uribe Aranzabal ed.
44. G.G. Rosenthal & F.J. García de León in press. Speciation and hybridization. *In: Ecology and Evolution of Poeciliid Fishes* (I. Schlupp, A. Pilastro, J. Evans eds.), University of Chicago Press.
43. H.S. Fisher† & G. G. Rosenthal 2010. Relative abundance of *Xiphophorus* fishes and its effect on sexual communication. *Ethology* **116**: 32-38.
42. M. Dugas* & G.G. Rosenthal 2010. Carotenoid-rich mouth colors influence the conspicuousness of nestling birds. *Behav. Ecol. Sociobiol.* **64**: 455-462.
41. M. Tobler†, S.W. Coleman†, B.D. Perkins, & G.G. Rosenthal 2010. Reduced opsin gene expression in a cave-dwelling fish. *Biol. Lett.* **6**: 98-101.
40. S.W. Coleman†, Z.W. Culumber*, A. Meaders‡, J. Henson‡ & G.G. Rosenthal 2009. Inducible molecular defenses, ultraviolet radiation, and melanomagenesis in natural *Xiphophorus* hybrids - a field-based investigation of lab-based cancer models. *Env. Biol. Fish* **86**: 279-284.
39. H.S. Fisher*, S. Mascuch‡ & G.G. Rosenthal 2009. Multivariate male traits misalign with multivariate female preferences in the swordtail fish, *Xiphophorus birchmanni*. *Anim. Behav.* **78**: 265-269.
38. N. L. Ratterman*, G. G. Rosenthal, and A. G. Jones 2009. Sex recognition via chemical cues in the sex-role-reversed Gulf pipefish (*Syngnathus scovelli*). *Ethology* **115**: 339-346.
37. K. Summers, K. Roney, J. da Silva, G. Capraro, B.J. Cuthbertson, S. Kazianis, G. G. Rosenthal, M.J. Ryan, and T.J. McConnell 2009. Divergent patterns of selection on the DAB and DXB MHC Class II loci in *Xiphophorus* fishes. *Genetica* **135**: 379-390.
36. N. J. Fabian‡, L. B. Albright‡, G. Gerlach, H. S. Fisher*, and G. G. Rosenthal 2007. Humic acid interferes with species recognition in zebrafish (*Danio rerio*). *J. Chem. Ecol.* **33**: 2090-2096.
35. G. G. Rosenthal 2007. Spatiotemporal aspects of visual signals in animal communication. *Annu. Rev. Ecol. Evol. Syst.* **38**:155-178.
34. J. Buckingham*, B. B. M. Wong† and G. G. Rosenthal 2007. Shoaling decisions in female swordtails: how do fish gauge group size? *Behaviour* **144**: 1333-1346.
33. H. S. Fisher* and G. G. Rosenthal 2007. Male swordtails court with an audience in mind. *Biol. Lett.* **3**: 5-7.
32. S. W. Coleman† and G. G. Rosenthal 2006. Swordtail fry attend to chemical and visual cues in detecting predators and conspecifics. *PLoS One* **1**: e118.

31. H. S. Fisher* and G. G. Rosenthal 2006. Hungry females show stronger mating preferences. *Behav. Ecol.* **17**: 979-981.
30. H. S. Fisher* and G. G. Rosenthal 2006. Female swordtail fish use chemical cues to select well-fed mates. *Anim. Behav.* **72**: 721-725.
29. G. G. Rosenthal and F. J. García de León 2006. Sexual behavior, genes, and evolution in *Xiphophorus*. *Zebrafish* **35**: 85-90.
28. H. S. Fisher*, B. B. M. Wong†, and G. G. Rosenthal 2006. Alteration of the chemical environment disrupts communication in a freshwater fish. *Proceedings: Biological Sciences* **273**: 1187-1193.
27. B. B. M. Wong† and G. G. Rosenthal 2006. Female disdain for swords in a swordtail fish. *Am. Nat.* **167**: 136-140.
26. G. G. Rosenthal and P. Lobel 2005. Communication. In *Behaviour and Physiology of Fish* (vol. 24), K. Sloman, S. Balshine, R. Wilson eds., Academic Press.
25. G. G. Rosenthal and M. J. Ryan 2005. Assortative preferences for stripe patterns in danios. *Anim. Behav.* **70**: 1063-1066.
24. B. B. M. Wong†, H. S. Fisher*, and G. G. Rosenthal 2005. Species recognition by male swordtails via chemical cues. *Behav. Ecol.* **16**: 818-822.
23. B. B. M. Wong†, C. Bibeau‡, K. Bishop‡, and G. G. Rosenthal 2005. Response to perceived predation threat in fiddler crabs: trust thy neighbor as thyself? *Behav. Ecol. Sociobiol.* **58**: 345-350.
22. N. Shashar, G. G. Rosenthal, T. Caras, S. Manor, and G. Katzir 2005. Species recognition in the blackbordered damselfish *Dascyllus marginatus* (Rüppell): an evaluation of computer-animated playback techniques. *J. Exp. Mar. Biol. Ecol.* **318**: 111-118.
21. B. B. M. Wong† and G. G. Rosenthal 2005. Shoal choice in swordtails when preferences conflict. *Ethology* **111**: 179-186.
20. K. E. Roney, B. J. Cuthbertson, U. B. Godwin, S. Kazianis, L. Della Coletta, G. G. Rosenthal, M. J. Ryan, M. Schmidt, and T. J. McConnell 2004. Alternative splicing of major histocompatibility complex class II DXB transcripts in *Xiphophorus* fishes. *Immunogenetics* **56**: 462-466.
19. G. G. Rosenthal, A. S. Rand, and M. J. Ryan 2004. The vocal sac as a visual cue in anuran communication: an experimental analysis using video playback. *Anim. Behav.* **68**: 55-58.
18. E. R. Turnell‡, K. D. Mann‡, G. G. Rosenthal, and G. Gerlach 2003. Mate choice in zebrafish (*Danio rerio*) analyzed with video-stimulus techniques. *Biol. Bull.* **205**: 225-226.
17. G. G. Rosenthal, X. F. de la Rosa Reyna‡, S. Kazianis, M. J. Stephens, D. C. Morizot, M. J. Ryan, and F. J. García de León 2003. Dissolution of sexual signal complexes in a hybrid zone between the swordtails *Xiphophorus birchmanni* and *Xiphophorus malinche* (Poeciliidae). *Copeia* **2003**: 299-307.
16. M. E. Cummings, G. G. Rosenthal, and M. J. Ryan 2003. A private ultraviolet channel in visual communication. *Proceedings: Biological Sciences* **270**: 897-904.
15. J. Kingston‡, G. G. Rosenthal, and M. J. Ryan 2003. The role of sexual selection in maintaining a colour polymorphism in the pygmy swordtail *Xiphophorus pygmaeus*. *Anim. Behav.* **65**: 735-743.
14. G. G. Rosenthal, M. J. Ryan, and W. E. Wagner, Jr. 2002. Secondary loss of preference for swords in the pygmy swordtail *Xiphophorus nigrensis* (Pisces: Poeciliidae). *Anim. Behav.* **63**: 37-45.
13. G. G. Rosenthal, T. Y. Flores Martinez‡, F. J. García de León, and M. J. Ryan 2001. Shared preferences by predators and females for male ornaments in swordtails. *Am. Nat.* **158**: 146-154.
12. M. J. Ryan and G. G. Rosenthal 2001. Variation and selection in swordtails. In *Model Systems in Behavioral Ecology*, L. A. Dugatkin ed., Princeton University Press, 133-148.
11. G. G. Rosenthal and M. J. Ryan 2000. Visual and acoustic communication in nonhuman animals: a comparison. *J. Biosci.* **25**: 285-290.
10. R. F. Oliveira, G. G. Rosenthal, I. Schlupp, P. K. McGregor, I. C. Cuthill, J. A. Endler, L. J. Fleishman, J. Zeil, E. Barata, F. Burford, D. Gonçalves, M. Healey, S. Jakobsson, M. D. Jennions, K. E. Körner, L. Lindström, T. Peake, A. Pilastro, D. S. Pope, S. G. B. Roberts, C. Rowe, J. Smith, and J. R. Waas 2000. Considerations on the use of video playbacks as visual stimuli: the Lisbon workshop consensus. *Acta Ethologica* **3**: 61-65.
9. G. G. Rosenthal 2000. Design considerations and techniques for constructing video stimuli. *Acta Ethol.* **3**: 49-54.
8. R.F. Oliveira , P. K. McGregor , I. Schlupp , and G. G. Rosenthal 2000. Video playback techniques in behavioural research [editorial]. *Acta Ethologica* **3**: 1.
7. G. G. Rosenthal and M. R. Servedio 1999. Chase-away sexual selection: resistance to "resistance". *Evolution* **53**: 296-299.
6. M. J. Ryan, N. M. Kime, and G. G. Rosenthal 1998. Human language and animal communication [commentary]. *Behav.*

Brain Sci. **21**, 282-283.

5. G. G. Rosenthal 1999. Using video playbacks to study sexual selection. *Env. Biol. Fishes* **56**: 307-316.
4. G. G. Rosenthal and C. S. Evans 1998. Female preference for swords in *Xiphophorus helleri* reflects a bias for large apparent size. *Proc. Natl. Acad. Sci.* **95**: 4431-4436.
3. D. Clark, J. Macedonia, and G. G. Rosenthal 1997. Testing video playback to lizards in the field. *Copeia* **1997**: 421-423.
2. G. G. Rosenthal, C. S. Evans, and W. L. Miller 1996. Female preference for a dynamic trait in the green swordtail, *Xiphophorus helleri*. *Anim. Behav.* **51**: 811-820.
1. M. Kirkpatrick and G. G. Rosenthal 1994. Fearful symmetry [News and Views]. *Nature* **372**: 134-135.135.

Advisees:

Postdoctoral fellows:

Bob B. M. Wong (Ph. D., Australian National University, 2003), Sir Keith Murdoch Fellow, 2004.
Seth Coleman (Ph. D., University of Maryland, 2005), NIH NRSA fellow, 2005-2008.
Heidi Fisher (Ph. D., Boston University, 2006), 2006-2007.
Machteld Verzijden (Ph.D., Leiden University, 2008), Dutch Government Rubicon Fellow, 2008-2010.
Michael Tobler (Ph.D., University of Zurich, 2008), Swiss Government postdoctoral fellow, 2008-date (co-advised with Kirk Winemiller).

Ph. D. students:

Heidi Fisher, Ph.D., May 2006.
Nick Ratterman, 2006-date (co-advised with Adam Jones).
Sunny Scobell, 2006-date (co-advised with Adam Jones).
Nadisha Silva, 2006-date (co-advised with Mariana Mateos).
Zachary Culumber, 2007-date.
J. Bradley Johnson, 2007-date.
Rongfeng Cui, 2009-date.

Master's students:

Amee Mehta, M. A., June 2004.
Jessica Buckingham, M.A., December 2004.
Carley Schacter, M.A., December 2005.
Zachary Cress, M. S., November 2008.
Chi-Cheng Wat, M.S., May 2009.
Charles Carlson, 2008-date.

Undergraduate theses:

Heather Chance, May 2008.
Ashley Meaders, May 2008.

Co-advisees at other institutions:

Carlos Passos, Ph.D. student, Universidad de la República, Uruguay, 2009-.
Holly Kindsvater, Ph.D. student, Yale University, 2008-.
Karla Kruesi, Ph. D. student, National Autonomous University of Mexico, June 2004-.
Christian Bautista, M. Sc. student, Universidad Autónoma del Estado de Hidalgo, 2008-.
Alexandra Barbosa, Ph.D., University of Oporto, May 2008.
Giorgina Obrist, M. Sc., University of Zurich, November 2004.
Xochitl de la Rosa Reyna, *licenciatura* thesis, Instituto Tecnológico de Ciudad Victoria, December 2001.
Tania Flores Martinez, *licenciatura* thesis, Instituto Tecnológico de Ciudad Victoria, December 1999.
Jennifer Kingston, undergraduate honors thesis, University of Texas, June 2001.

Service:

Associate Editor, *Behavioral Ecology*, 2009-date

Public Affairs Chair, Animal Behavior Society, 2006-2009.

Communications Chair, Faculty of Ecology and Evolution, TAMU, 2006-2009; Associate Chair, 2010-date.

ABS-IGERT participating faculty and admissions committee, TAMU, 2007-date.

Costa Rica Center steering committee, TAMU, 2007-date.

Organization of Tropical Studies, resource professor, February 2007.

Graduate adviser, Boston University Marine Program, 2002-2006.

Meetings and symposia organized:

Organizer, Annual Boston area Behavior Meeting, Woods Hole, March 2003, May 2004, and April 2005.

"Environmental impacts and behavior" symposium. Conveners: **G.G. Rosenthal** and S. Contreras Balderas. Animal Behavior Society meetings, Oaxaca, Mexico, June 2004.

Workshop on video playback experiments. Conveners: P. McGregor, R. Oliveira, **G.G. Rosenthal**, and I. Schlupp. Association for the Study of Animal Behaviour, Lisbon, Portugal, July 1999.

Manuscripts refereed:

Acta Ethologica, American Naturalist, Animal Behaviour, Behavioral Ecology, Behavioural Ecology and Sociobiology, Behaviour, BioEssays, Biology Letters, Cell & Tissue Research, Copeia, Current Biology, Ecology, Environmental Biology of Fishes, Environmental Toxicology, Ethology, Evolution, Extremophiles, Frontiers in Zoology, Functional Ecology, Genes, Brain, & Behavior, Journal of Animal Ecology, Journal of Fish Biology, Hormones and Behavior, Naturwissenschaften, Oecologia, Proceedings: Biological Sciences, PLoS Biology, Quarterly Review of Biology, Zebrafish, Zoologica Scripta, five edited books.

Invited presentations:

- "Choices and their consequences: communication mechanisms, mating biases, and the evolution of hybrid zones", Max-Planck Institute in Developmental Biology, Tübingen, Germany, October 2009.
- "Choices and their consequences: communication mechanisms, mating biases, and the evolution of hybrid zones", Department of Biology, University of Houston, September 2009.
- "Mate choice and evolutionary genetics in *Xiphophorus* hybrid zones", Livebearing Fishes symposium, ASIH meeting, Portland, OR, August 2009.
- "Elección de pareja y genética evolutiva en zonas híbridadas de peces dulciacuáticos del género *Xiphophorus*", Facultad de Ciencias, Universidad de la República, Montevideo, Uruguay, June 2009.
- "Mate choice and evolutionary genetics in hybrid zones", Sam Houston State University, February 2009.
- Plenary address: "La selección sexual y la evolución de las zonas híbridadas." Spanish and Latin American Ethology Congress, Valencia, Spain, September 2008.
- "Livebearer research in Texas." American Livebearer Association, San Antonio, May 2008.
- "Behavior and evolutionary genetics in hybrid zones." Department of Ecology and Evolutionary Biology, Yale University, August 2008.
- "Chemical communication and the signaling environment in swordtails (*Xiphophorus*)." Department of Ecology, Evolution, and Behavior, University of Toronto, October 2007.
- "Chemical communication and the signaling environment in swordtails (*Xiphophorus*)." Neuroscience Graduate Group, University of Texas at Austin, September 2007.
- Keynote address: "Biodiversidad y conservación en los ríos de la Huasteca hidalguense." I Cervantino Indígena, Calnali, Hidalgo, México, June 2007.
- Keynote address: "Natural hybrids and mate choice in *Xiphophorus*." American Livebearer Association, Cleveland, May 2007.
- "Asymmetric mating preferences and the evolution of a hybrid zone in *Xiphophorus*." Department of Biology, Trinity University, San Antonio, February 2007.
- "Asymmetric mating preferences and the evolution of a hybrid zone in *Xiphophorus*." Department of Biology, Texas State University, November 2006.
- "Asymmetric mating preferences and the evolution of a hybrid zone in *Xiphophorus*." 2nd International Symposium on Viviparous Fishes, Morelia, Mich., México, November 2006.
- "Evolution of communication in Neotropical fishes." Texas A&M University-Galveston, September 2006.

- “Asymmetric mating preferences and the evolution of a hybrid zone.” Department of Zoology, University of Oklahoma, September 2006.
- “Asymmetric mating preferences and the evolution of a hybrid zone.” Department of Ecology and Evolution, Rice University, September 2006.
- “Evolución de la comunicación visual en peces arrecifales del Neotrópico.” Centro de Investigaciones Biológicas del Noroeste, La Paz, BCS, México, May 2006.
- “Conducta reproductiva y genética evolutiva en una zona híbrida de peces en la Huasteca hidalguense.” Centro de Investigaciones Biológicas del Noroeste, La Paz, BCS, México, May 2006.
- “Evolution of communication in Neotropical fishes.” Providence College, Rhode Island, December 2005.
- “Evolución y conducta en una zona híbrida de peces en la Huasteca Hidalguense.” Facultad de Ciencias, Universidad Nacional Autónoma de México, November 2005.
- “Evolution of communication in Neotropical fishes.” Department of Biology, University of California – Santa Cruz, November 2005.
- “Conducta reproductiva y genética evolutiva en una zona híbrida de peces en la Huasteca Hidalguense.” Área Académica de Biología, Universidad Autónoma del Estado de Hidalgo, August 2005.
- “Evolution of visual communication in Neotropical reef fishes.” Division of Integrative Biology, University of Texas, October 2004.
- “Evolution of visual communication in Neotropical reef fishes.” University of Michigan Museum of Zoology, May 2004.
- “Natural and sexual selection on mating traits in swordtails.” University of Michigan, Department of Biology, May 2004.
- “Sexual selection in fishes.” Department of Organismal and Evolutionary Biology, Harvard University, March 2004.
- “Integrative biology of visual communication in tropical reef fishes.” Department of Biology, Colby College, November 2003.
- “Evolution of visual communication in reef fishes.” Department of Zoology, University of New Hampshire, October 2003.
- “Mechanisms and evolution of communication in Neotropical fishes.” Center for Genome Research, Harvard University, May 2003.
- “Integrative biology of visual communication in tropical reef fishes.” BEES Program, Univ. of Maryland, May 2003.
- Visual signals and visual preferences in context: the role of the environment in shaping vertebrate communication systems.” Department of Psychology, Stanford University, April 2002.
- “Comunicación visual y el ambiente óptico en peces marinos del Neotrópico.” CICIMAR, La Paz, Baja California Sur, Mexico, September 2001.
- “Visual signals and visual preferences in context: the role of the environment in shaping vertebrate communication systems.” Department of Ecology and Evolutionary Biology, University of California – Irvine, June 2001.
- “Natural and sexual selection on male visual cues in *Xiphophorus*, a Neotropical fish genus.” Scripps Institution of Oceanography, March 2001.
- “Natural and sexual selection on visual traits in a neotropical fish genus.” SUNY – Stony Brook, December 2000.
- “Natural and sexual selection on visual traits in a neotropical fish genus.” Hubbs- Sea World Research Institute scientific lecture series, November 2000.
- “Natural and sexual selection on visual traits in a neotropical fish genus.” Department of Ecology and Evolutionary Biology, University of Arizona, November 2000.
- “Visual signals and visual preferences in context: the role of the environment in shaping vertebrate communication systems.” Department of Ecology and Evolution, University of Chicago.
- “Natural and sexual selection on visual traits in a neotropical fish genus.” Department of Evolution and Ecology, University of California – Davis, November 2000.
- “Natural and sexual selection on visual traits in a neotropical fish genus.” John Emlen lecture in animal behavior, University of Wisconsin – Madison, October 2000.
- “Natural and sexual selection on male traits in a neotropical freshwater fish genus.” School of Biological Science, University of New South Wales, Sydney, Australia, April 2000.
- “Natural and sexual selection on visual signals in swordtails.” Center for Population Biology, University of California, Davis, February 2000.

- “Targeting the non-human demographic: considerations in the design of video stimuli.” Video playback workshop. Conveners: P. McGregor, R. Oliveira, G. Rosenthal, and I. Schlupp. Association for the Study of Animal Behaviour, Lisbon, Portugal, July 1999.
- Keynote address: “The behavioral ecology of visual signaling in the Río Pánuco basin swordtails”, American Livebearer Association, Cleveland, May 1999.
- “Biogeografía y variación fenotípica en los *Xiphophorus* de la cuenca del Pánuco.” National Institute of Fisheries, Mexico City, November 1997.
- “Selección sexual y variación fenotípica en *Xiphophorus* (Poeciliidae).” Universidad Nacional Autónoma de México, Mexico City, November 1997.
- “Chance, necessity, and swordtails: likely selective forces on a sexual communication system.” Department of Biology, University of Pittsburgh, April 1997.
- Visual perception and multiple ornaments: applications of digital playback techniques." Symposium on video playback techniques. Conveners: A. Kodric-Brown and P. Nicoletto. Ecological and Evolutionary Ethology of Fishes Conference, University of New Mexico, Albuquerque, May 1996.
- “Female preferences and patterns of male trait covariation in swordtails.” CEEB Symposium on Poeciliid Fishes, University of Kentucky, Lexington, KY, March 1996.
- "Visual perception and sexual signals in green swordtails: an analysis using video playbacks." Macquarie University, North Ryde, NSW, Australia, November 1995.

Popular media:

Radio interviews, “Entre nosotros”, Radio Tamaulipas, Mexico, February 1998; “Con gusto le canto a Hidalgo”, Radio Hidalgo, Mexico, June 2007.

Research featured in articles in *New Scientist* (1998), *ScienceNow* (2003), *Science News* (2004, 2006), *Nature Australia* (2004), *National Geographic* (2005), *Practical Fishkeeper* (2006), *The Wall Street Journal* (2006), *El Sol de Hidalgo* (2006, 2007), *The New York Times* (2006, 2007), *Neuzurcher Zeitung* (2006), *El Colombiano* (2007), *Fox News* (2007), *MSNBC* (2007), *Tropical Fish Hobbyist* (2008).