

TEXAS STATE VITA

I. Academic/Professional Background

A. Name: **DANA M. GARCIA**

Title: **PROFESSOR**

B. Educational Background

<i>Degree</i>	<i>Year</i>	<i>University</i>	<i>Major</i>	<i>Thesis/Dissertation</i>
Ph. D.	1993	University of California, Berkeley	Physiology/ Cell Biology	Pigment Granule Aggregation in Retinal Pigment Epithelium of Green Sunfish
B.S.	1986	Texas A&M University	Zoology	Undergraduate Thesis: Effects of Lead on C6 Astrogloma; graduated <i>magna cum laude</i>

C. University Experience

<i>Position</i>	<i>University</i>	<i>Dates</i>
Adjunct Professor	Texas State University, Department of Chemistry and Biochemistry	2015
Professor	Texas State University, Department of Biology	2004-present
Guest Professor	Johannes Gutenberg University/ Universität Mainz	2001
Associate Professor	Texas State University-San Marcos (formerly Southwest Texas State University)	1999-2004
Assistant Professor	Southwest Texas State University	1993-1999

D. Relevant Professional Experience

<i>Position</i>	<i>Entity</i>	<i>Date</i>
Faculty Senator	Texas State University	2015 - present
Bridges Mentor Faculty	South Texas Doctoral Bridges Program	2014 - present
Associate Chair for Curriculum and Scheduling	Texas State University-San Marcos	2011 – present
Biology Program Director	Texas State University-San Marcos	2011 - present
Materials Science and Engineering Doctoral Program Core Faculty	Texas State University-San Marcos	Its inception - present
Director, Integrated Microscopy Facility	Texas State University-San Marcos	2011 - 2014
Associate Doctoral Faculty in Aquatic Biology	Texas State University-San Marcos	2010 - present
Associate Editor	BMC Research Notes	2008-present
Associate Dean for Research	Texas State University-San Marcos	2006-2009
Advisory Panel for Bridges to the Baccalaureate Program	National Institutes of Health	2006
Core Ph. D. Faculty in Aquatic Biology	Texas State University-San Marcos	2003-2009

E. Other Professional Credentials

- Certified in Transmission Electron Microscopy (2014)
- Certified in Ultramicrotomy (2014)
- CITI certified (~2012; 2015)

II. TEACHING

A. Teaching Honors and Awards:

- 2005 Nominated for STAR award
- 2001-2002 Honored Member America's Registry, Edition 2001-2002
- 2001 Faculty Senate nominee to serve on Master Teacher Committee
- 2001 AAAS Mentor Award Nominee
- 1997 Bonus Award as a member of the Microscopy Project Team
- 1996, '97 Alpha Chi National Honor Society Favorite Professor
- 1996 SWT Mentor Award

B. Courses Taught (bolded courses are ones I developed and taught; I also developed BIO 4350 as a shell course):

<i>Course Number (Dates taught)</i>	<i>Course Title</i>
Biology 3300 (Summer 2010 – present)	Cell and Molecular Biology
Biology 1430 (Summer 2005)	Functional Biology (freshman majors)
US 1100 (Fall 2001)	University Seminar
Biology 5110Q (Spring 2000 – Fall 2008)	Cell, Micro and Molecular Biology
Biology 3421 (Fall 1999 – Spring 2005, Spring 2007 - present)	Vertebrate Physiology
Biology 4441/5441 (Spring 1998 – 2002; 2005-2006)	Cell Physiology
Biology 5110Q (Spring 1995)	Biology of Pigmented Cells
Biology 5110Q (Fall 1995)	Last Week in Science
Biology 5110Q (Fall 1997; Fall 2010)	Departmental Seminar
Biology 3351(Spring 1995 – 1997)	General Genetics (non-majors)
Biology 5350 (Spring 1996)	Cell Motility and Cytoskeleton
Biology 5350 (Fall 1996)	Departmental Seminar
Biology 5350 then 4300/5300 (Fall 1997 - present)	Neurobiology
Biology 2460 (Fall 1993 – Spring 1999)	Cell Biology

C. Undergraduate Theses

Undergraduate Theses Directed

Student	Date BS	Thesis Title
Melissa Esparza	Dec 2015	I Spy Something Green: Observing the Optic Nerve of Aging Zebrafish for GFAP
Sarah Roark (SURF recipient)	May 2012	Investigation of Unexpected Fluorescence in the Optic Nerve of Zebrafish
Silvya "Gina" Soto (Francis Rose Award recipient)	May 2010	Expression of <i>c-jun</i> following Optic Nerve Injury in <i>Danio rerio</i>

Benjamin McCalip	Fall 1995	Localization of an Intermediate Filament Associated Protein in the Retinal Pigment Epithelium of Bluegill Fish
Thomas A. Keith	Spring 1995	Retinal Pigment Epithelium of Bluegill Sunfish: Cyclic AMP Induced Pigment Granule Aggregation

Undergraduate Thesis Committees

Student/Advisor	Date of Graduation	Thesis Title
Marriah Lewis/ Ferrero	Aug 2016 (exp)	Human Brain Anatomical Connections to Graph Theory https://digital.library.txstate.edu/handle/10877/5940
Vanessa Pearson/ McLean	Spring 2004	The Viral Cure: Bacteriophage as a Treatment against Biofilm Infection
Stephanie L. Gray/ Johnson	Spring 2000	Genetic Testing and the Breast Cancer Genes, BRCA1 and BRCA2: Ethical, Psychological and Social Impacts
Amy Primmer/ McLean	Fall 1999	Using Two-Dimensional Electrophoresis to Analyze Antibiotic Resistance in <i>Pseudomonas aeruginosa</i> Biofilms
Kayla Fass/ Koke	Spring 1999	Visualization of α -Actinin and the G.3.5. Antigen in Developing Chick Embryos in Vivo
Gretchen Grundmann/ Ott	Spring 1996	Gene Therapy: Is it the Miracle Cure?
Dana Moore/ Walter	Fall 1995	Nucleotide Sequence, Evolutionary Conservation, and Linkage Map Assignment of the Insulinoma <i>rig</i> Gene Orthologue in <i>Xiphophorus maculatus</i>
Jon Moore/ Koke	Spring 1995	Comparison of the J1-31 Antigen and Heat Shock Proteins

Interns Directed (incomplete list)

Student	Date Internship	Topic
Kris Freeman	Fall 2011	Clinical Diagnostic Assays
Carlos Quintanilla	Spring 2011	Clinical Diagnostic Devices
Danae Crumb	Spring 2009	Pediatric Trauma
Alexia Ghazi	Fall 2008	Medical Research on Prostatitis
Lance Harper	Fall 2008	Cardiovascular Heart Disease
Darcy Mick	Fall 2006	Physical Therapy for Lower Back Pain
Leah Hulsey	Fall 2006	Radiology and Sonography

GRADUATE THESES/DISSERTATIONS OR EXIT COMMITTEES

Advisee to PhD

Student	Start Date	Oral Exam Passed; Candidacy	Grad Date	Thesis Title
Richard Nuckels	8/10	8/29/12; 10/18/12		Expression and Evolution of Duplicated Pigment Transport Genes

PhD Student Committees

Student/Advisor	Thesis Title	Graduation Date
Priscilla Pham/ McLean	Influence of <i>Bifidobacterium longum</i> on Obesity	May 2016 (exp)
Praveen Kumar/ Dharmasiri	Functional Characterization of <i>SAUR</i> Genes in Plant Growth and Development	Aug 2015
Nirmala Karunarathna/ Dharmasiri	Functions of IAA28 in Plant Growth and Development	August 2012

Advisees to MS degree

Student	Date MS	Thesis Title
William Wilson	5/17 (exp)	OA-1 signaling in Zebrafish
Pedro Gonzalez	5/16 (exp)	GFAP in the Optic Nerve of Zebrafish
Ruben Tovar	5/14	Ocular Histology in Three South Central Texas Paedomorphic Salamander Species (<i>Eurycea sosorum</i> , <i>Eurycea nana</i> and <i>Eurycea rathbuni</i>) and Comparative Ocular Development of Two Morphotypes (winner of 2014 Colene Drace Award)
Kris Freeman	8/13	Proteomic Comparison between MRP4 Knockout and Wild Type Mouse Brain, Liver, Kidney and Serum
Carlos Quintanilla	8/12	Expression and Localization of Mrp4 in the Retinal Tissue of <i>Danio rerio</i>
Iliana Rodriguez	5/12	Non-thesis
Luis Neve	12/11	Identification and Characterization of Reactive Astrocytes following Optic Nerve Injury in Zebrafish
Shobhit Sharma	5/11	Microarray Analysis of Diurnal Changes in Gene Expression in Zebrafish Retina
Elizabeth Capalbo	12/09	Diurnal Regulation of Expression of Muscarinic and Dopaminergic Receptor Genes
Katherine Saul (w. Joseph Koke)	8/08	Gene Expression During Optic Nerve Regrowth in Zebrafish
Elizabeth Crittenden	5/08	Mechanism of Acetylcholine-induced Pigment Granule Dispersion in Bluegill RPE
Adam Johnson	8/07	Intracellular Messengers Involved in Carbachol-induced Pigment Granule Dispersion
Varsha Radhakrishnan	5/07	Molecular Characterization and Expression of G _{q/11} Protein in Fishes

Richard Nuckels	12/06	Isolation and Expression Study of Muscarinic Receptors in Zebrafish
Chad Copeland	5/05	Muscarinic Receptor Subtypes Involved in Pigment Granule Dispersion in Retinal Pigment Epithelium
Prasad Phatarpekar	8/04	Isolation and Sequencing of Muscarinic Receptor Genes from Fishes
Jamie D. Dixson	12/01	Evolution of the Alpha-Actinin Gene Family
Jack N. Needham, Jr.	8/01	Molecular Characterization of Alpha-Actinin
Alfredo González, III	12/00	Muscarinic Regulation of Pigment Granule Dispersion in Teleost Retinal Pigment Epithelium
Corey Waller (w/D. Feakes)	5/99	Synthesis of Polyhedral Boranes for Use in Boron Neutron Capture Therapy for Cancer
Ernesto Pérez, Jr.	5/99	Characterization of the Intermediate Filament Cytoskeleton in Teleost Retinal Pigment Epithelium
David Zamora	8/97	Localization of Cytoskeletal Elements in Teleost Retinal Pigment Epithelium

MS Student Committees

Student/Advisor	Thesis Title	Graduation Date
Katie Kendrick/ Weigum	Specificity of TLS11a Aptamer towards Hepatocellular Carcinoma as a Means of Detection and Targeted Drug Delivery	May 2016 (exp)
Melissa Sutton/ Weigum	Examination of a Specific Aptamer (Tls11a) within Cultured Mammalian Liver Cancer Cell Lines	May 2015
Peter Shepherd	Non-thesis	December 2013
Priscilla Pham/ Maitin	Role of Probiotics in Modulation of Diet-Induced Obesity	August 2012
Sarah Kane/ Koke	Astrocyte Reactivity Characterized with Monoclonal Antibody J1-31: an Evaluation of cAMP Effectors	August 2012
Thilanka Jayaweera/ Dharmasiri	Regulation of Auxin Receptor Gene Family by Hormonal and Abiotic Stress	December 2011
John Stecker/ Koke	Aptamer Interactions and Applications in Cancer Treatment	December 2011
Tesfalem Zere/ McLean	Indole and cAMP Promote <i>Escherichia coli</i> Survival in Mixed Culture	August 2011
Mya Patel/ Koke	Increased J1-31 Labeling due to Cyclic Nucleotide-gated Channels	December 2009
Chamindika Siriwardana/ Dharmasiri	Identification and Characterization of Two Novel <i>Arabidopsis</i> Mutants that are Resistant to Auxin	May 2009
Patricia Collier	Non-thesis MEd	May 2009
Nirmala Karunarathna/ Dharmasiri	Isolation and Characterization of <i>Arabidopsis</i> Mutants with Altered Response to Auxin (Picloram)	Dec 2008

Ali Abedi/ Koke	G3.5 Antigen Appears to be a Form of which Co-isolates and Co-localizes with Type III Intermediate Filaments	December 2005
Greg Ramsey/ Koke	Monoclonal Antibody J1-31 Recognizes an Epitope that Occurs on Both GFAP and Lamin B that Appears to be Phosphorylated during Astrocyte Activation	May 2005
Nina Jaffarзад/ Koke	Ultrastructural Changes in Earthworm (<i>Eisenia fetida</i>) Nephridia Resulting from Symbiotic Association with Bacteria (<i>Acidovorax</i>)	August 2004
Jaci Meyers/ Koke	Glucose-induced Apoptosis of Schwann Cells in Vitro	May 2004
Carlene Worthington/ Koke	Secretion of IL-6 by Astrogloma Cells in Response to Stimulation by TNF	May 2004
Jodi Scott/ Flores (Psychology)	Self-Efficacy as a Factor in Weight-Loss	August 2002
Shannon Kinder/ Koke	Phosphorylated Intermediate Filaments in the Nucleus	May 2002
Brian Corbin/Aron	Biofilm Susceptibility to Bacteriophage Infection	May 2000
Tracy Merkel/Koke	Three Dimensional Cultures of Neuroblastomas	May 2000
Mark Hahn/Koke	Extracellular Matrix Effects on a Neuroblastoma Cell Line	December 1998
Juan Herrera/ Koke	Characterization of the Expression of Intermediate Filament Proteins During Astrogliosis	May 1997
Sandra Bolanos/ Koke	The G.3.5 Antigen, a Novel IFAP, Is Not α -Actinin	May 1997
Haiying Li/ Walter	Inheritance of Parental Methylation Patterns in Interspecies Hybrids of <i>Xiphophorus</i> Fishes	December 1996
Ari Kahn/ Horne	Analysis of Genetic Diversity in the Rice Genus <i>Zizania</i> using RAPD's and rDNA IGS Regions	December 1996
Steve Gilmer/ Walter	Isolation, Sequence Determination, and Mapping of the junB Homologue in <i>Xiphophorus</i> Fishes	August 1996
Gabriel Intano/ Walter	Spontaneous Mutation Frequencies of Spermatogenic Stages in Transgenic Mice	August 1996
Patricia Stevenson/ Koke	Purification of an Astrocyte Specific Protein	May 1996

Fariba Javadi/ Koke	The Angiotensin Receptor (AT1) Inhibitor, Losartan, Slows Post-natal Thickening of the Left Ventricle	Fall 1994
Sullivan Fitzgerald/ Koke	Detection and Localization of Angiotensinogen in Cardiac Muscle	August 1994

COURSES PREPARED AND CURRICULUM DEVELOPMENT

Neurobiology (Biol 4300/5300/7300)
 Cell and Molecular Biology (Biol 3300)
 Topics in Biology (Biol 4350)

TEACHING WORKSHOPS ATTENDED (INCOMPLETE LIST)

Summer 2012 Pacific Crest Teaching Institute

FUNDED EXTERNAL TEACHING GRANTS AND CONTRACTS (Total = \$992,730)

2000-2002 Texas Higher Education Coordinating Board. Eisenhower Program - A Summer Research Experience for Science Teachers, \$74,838 (PI Julie Westerlund)
 1998-2002 Texas Higher Education Coordinating Board. Eisenhower Program - A Summer Research Experience for Science Teachers, \$88,196. (co-PI Joe Koke)
 1998-2004 National Science Foundation. Teacher Enhancement Proposal - A Summer Research Experience for Science Teachers, \$728,952 (PI Joe Koke)
 1996-1998 National Science Foundation. ILI Grant - An integrated and networked microscopy center for undergraduate education, \$99,994 (PI Joe Koke)
 1996 American Society for Cell Biology. Summer Teacher Research Fellowship. Isolation and Characterization of Circumferential Microfilament Bundles from Teleost Retinal Pigment Epithelium, \$750

PENDING EXTERNAL TEACHING GRANTS AND CONTRACTS

N/A

SUBMITTED, BUT NOT FUNDED, EXTERNAL TEACHING GRANTS AND CONTRACTS

NSF (9/08) Building our Baccalaureates through Community, Academics and Technology, \$1,999,998 (co-PIs Moonis Ali, Bahram Asiabanpour, David Donnelly and Debra Feakes)
 HEAF (Spring 98) Scanning Electron Microscope, \$200,000
 NSF (10/97) Mobile Microscopy Lab, \$68,000.
 GTE FOCUS Program (10/96) Recruitment of Inner-city Minority Students into Bachelor's Programs in Science, \$30,000

III. SCHOLARLY/CREATIVE

A. WORKS IN PRINT

Chapters in Books

- Bruno, J. G., J. R. Stecker, M. P. Carrillo, T. Phillips, A. Savage, D. M. García and J. R. Koke. 2013. Chapter 4: Novel aptamer-based therapeutic strategies. In: J. Bruno, ed. *Biomedical Applications of Aptamers*, Hauppauge, NY: Nova Science Publishers, pp. 55–72.
- García, D. M. and J. R. Koke. 1996. The cytoskeleton of the retinal pigment epithelium. In: S. K. Malhotra, ed. *Advances in Structural Biology*, vol. 4, Greenwich, Connecticut: JAI Press, Inc., pp. 151-174.

Refereed Journal Articles

- Stecker, J. R., A. Savage, J. G. Bruno, D. M. García and J. R. Koke. 2012. Dynamics and visualization of MCF7 adenocarcinoma cell death by aptamer-C1q-mediated membrane attack. *Nucleic Acid Therapeutics* 22(4):1-8. doi: 10.1089/nat.2012.0355.
- Neve, L. D., A. A. Savage, J. R. Koke and D. M. García. 2012. Activating transcription factor 3 and reactive astrocytes following optic nerve injury in zebrafish. *Comparative Biochemistry and Physiology, part C*, 155(2):213-218. doi:10.1016/j.cbpc.2011.08.006 .
- Nuckels, R. J., M. R. J. Forstner, E. L. Capalbo-Pitts and D. M. García. 2011. Developmental expression of muscarinic receptors in the eyes of zebrafish. *Brain Research* 1405:85-94. doi 10.1016/j.brainres.2011.06.016.
- Koke J. R., A. L. Mosier and D. M. García. 2010. Intermediate filaments of zebrafish retinal and optic nerve astrocytes and Müller glia: Differential distribution of cytokeratin and GFAP. *BMC Research Notes* 3:50.
- Saul, K. E., J. R. Koke and D. M. García. 2010. Activating transcription factor 3 (ATF3) expression in the neural retina and optic nerve of zebrafish during optic nerve regeneration. *Comparative Biochemistry and Physiology, part A: Molecular & Integrative Physiology*, 155:172-182.
- Schwartz, R., J. Westerlund, D. García and T. Taylor. 2010. The impact of full immersion scientific research experiences on teachers' views of the nature of science. *Electronic Journal of Science Education* 14:2.
- García, D. M. and J. R. Koke. 2009. Astrocytes as gate-keepers in optic nerve regeneration – a mini-review. *Comparative Biochemistry and Physiology, Part A: Molecular & Integrative Physiology*, 152(2):135-138.
- Johnson, A. S. and D. M. García. 2007. Carbachol-mediated pigment granule dispersion in retinal pigment epithelium requires Ca²⁺ and calcineurin. *BMC Cell Biology* 8:53.
- Keith, T. A., V. Radhakrishnan, S. Moredock and D. M. García. 2006. Uptake of ³H-cAMP by retinal pigment epithelium isolated from bluegill sunfish (*Lepomis macrochirus*). *BMC Neuroscience* 7:82.
- Phatarpekar, P. V., S. F. Durdan, C. M. Copeland, E. L. Crittenden, J. D. Neece and D. M. García. 2005. Molecular and pharmacological characterization of muscarinic receptors in retinal pigment epithelium. *J. Neurochem.* 95(5):1504-1520.

- García, D. M., H. Bauer, T. Dietz, T. Schubert, J. Markl and M. Schaffeld. 2005. Identification of keratins and analysis of their expression in carp and goldfish: comparison to the zebrafish and trout keratin catalog. *J. Cell and Tissue Research*. 322(2):245-256.
- González, A. III., E. Crittenden and D. M. García. 2004. Carbachol-induced pigment granule dispersion in RPE. *BMC Neuroscience* 5:23.
- García, D. M., S. E. Weigum and J. R. Koke. 2003. GFAP and nuclear lamins share an epitope recognized by monoclonal antibody J1-31. *Brain Research* 976(1):9-21.
- Weigum, S. E., D. M. García, T. R. Raabe, N. Christodoulides and J. R. Koke. 2003. Discrete nuclear structures in actively growing neuroblastoma cells are revealed by antibodies raised against phosphorylated neurofilament proteins. *BMC Neuroscience* 4:6.
- Dixson, J. D., M. R. J. Forstner and D. M. García. 2003. Evolutionary history of the alpha-actinin gene family: a phylogenetic study. *J. Molecular Evolution* 56(1):1-10.
- Glass, T. L., T. R. Raabe, D. M. García and J. R. Koke. 2002. Phosphorylated neurofilaments and SNAP-25 in SH-SY5Y neuroblastoma cells in vitro. *Brain Research* 934(1):34-48.
- Westerlund, J. F., D. M. García, J. R. Koke, T. A. Taylor and D. S. Mason. 2002. Summer scientific research for teachers: the experience and its effect. *J. Science Teacher Education* 13(1):63-83.
- García, D. M. 1998. Carbachol-induced pigment granule dispersion in teleost RPE. *Cytobios* 94:31-37.
- Bolanos, S. H., D. O. Zamora, D. M. García, and J. R. Koke. 1998. An α -actinin isoform that may cross-link intermediate filaments and microfilaments. *Cytobios* 94:39- 61.
- King-Smith, C., P. Chen, D. M. García, H. Rey and B. Burnside. 1996. Calcium-independent regulation of pigment granule aggregation and dispersion in teleost retinal pigment epithelial cells. *Journal of Cell Science* 109:33-43.
- García, D. M. and B. Burnside. 1994. Suppression of cAMP induced pigment granule aggregation by inhibitors of organic anion transport. *Investigative Ophthalmology and Visual Science* 35:178-188.
- Tiffany-Castiglioni, E., D. M. García, J.-N. Wu, J. Zmudzki, G. R. Bratton. 1988. Effects of lead on viability and intracellular metal content of C6 rat glioma cells. *Journal of Toxicology and Environmental Health* 23(2): 267-279.

ABSTRACTS

Peer-reviewed

- Tovar, R. U. and D. M. García. 2015. Crossing to the dark side: convergent evolution in the development of a vestigial eye. Platform talk for *Texas Academy of Science*, San Antonio, March 6-8, 2015, San Antonio, TX.
- García, D. M., V. C. Quintanilla, S. Cheepala, F. Weckerly and J. D. Schuetz. 2015. ATP-binding cassette protein C4 (Abcc4) in the retina of zebrafish: Role in regulating melanosome aggregation in the retinal pigment epithelium. *Association for Research in Vision and Ophthalmology*, May 3-7, 2015, Denver, Colorado.
- Tovar, R. U. and D. M. García. 2014. "All roads lead to Rome" in the development of vestigial eye: Convergent evolution between *Eurycea rathbuni* and *Astyanax mexicanus*. *Eurycea Research Symposium*, January 9, 2015, Georgetown, TX.

- Tovar, R. U. and D. M. García. 2014. "All roads lead to Rome" in the development of vestigial eye: Convergent evolution between *Eurycea rathbuni* and *Astyanax mexicanus*. Platform talk for *Evolution 2014*, Durham, North Carolina.
- García, D. M. 2014. On the path to enlightenment through the eyes of a fish. Kick-off platform talk (TED-style) for the "New Horizons in STEM Education" *College and Career Readiness Conference*, March 27-28, 2014, San Antonio, TX.
- Tovar, R. U., B. P. Fremaux and D. M. García. 2013. Shedding light on a subterranean alien: An investigation of eye reduction in the Texas blind salamander and two closely related species. Platform talk delivered by RUT for the *Society for Integrative and Comparative Biology Annual Meeting*, January 3-7, 2014, Austin, TX.
- Tovar, R. U., B. P. Fremaux and D. M. García. 2013. Shedding light on a subterranean alien: an investigation of eye reduction in the Texas blind salamander and two closely related species. Platform talk delivered by RUT for the *Texas Herpetological Society Annual Meeting*, October 11-12, 2013, Wichita Falls, TX.
- García, D. M. and V. C. Quintanilla. 2013. Mrp4 in the photoreceptors of zebrafish: possible role in dark-adaptation. Platform talk for the *Association for Research in Vision and Ophthalmology/ International Society of Ocular Cell Biology 2013 Meeting* September 3-6, 2013, Oxford, England, Great Britain.
- Tovar, R. U., B. P. Fremaux and D. M. García. 2013. Ocular histology of three Texas paedomorphic salamander species; an introduction of the south central Texas *Eurycea* clade as a novel model system for comparative ocular histology. Platform talk delivered by RUT for *Association for Vision and Ophthalmology/ International Society of Ocular Cell Biology 2013 Meeting* September 3-6, 2013, Oxford, England, Great Britain.
- Kane, S. J., D. M. García and J. R. Koke. 2012. Astrocyte reactivity as modeled by F98 cells: the role of cAMP and Epac (exchange protein activated by cAMP). Poster presentation by SJK for *IBIA Ninth Annual World Congress on Brain Injury* March 21-25, 2012, Edinburgh, Scotland, United Kingdom.
- Quintanilla, V. C. and D. M. García. 2011. Expression and localization of multidrug resistance protein 4 (Mrp4) in the retinal tissue of *Danio rerio*. Poster presentation by VCQ for *Association for Vision and Ophthalmology/ International Society of Ocular Cell Biology 2011 Meeting* September 7-10, 2011, Vancouver, B.C., Canada.
- Koke, J. A. Savage, D. García. 2010. Optic nerve regeneration in zebrafish (*Danio rerio*): Cell-specific responses and expression of activating transcription factor 3 (Atf3). Platform talk delivered by JRK for 2010 5th Aquatic Animal Models of Human Disease Conference, Oregon State University, Corvallis, OR., September 20-22, 2010.
- García, D. M., K. E. Saul, S. G. Soto and J. R. Koke. 2009. Specific genetic signals for optic nerve regeneration in adult zebrafish (*Danio rerio*). Platform talk for the *Association for Vision and Ophthalmology/ International Society of Ocular Cell Biology 2009 Meeting* September 9-12, 2009, Ericeira, Portugal.
- García, D. M. and E. L. Capalbo. 2009. Diurnal expression of muscarinic and dopaminergic receptors in zebrafish eye. Poster presentation at the *Association for Vision and Ophthalmology/ International Society of Ocular Cell Biology 2009 Meeting* September 9-12, 2009, Ericeira, Portugal.
- Saul, K. E., J. R. Koke and D. M. García. 2008. Dissection of specific genetic signals from a background of tissue repair and inflammatory response noise during optic nerve regeneration in *Danio rerio*. *17th Biennial Meeting of the International Society for Development Neuroscience* June 1-4, 2008, Asilomar, CA, USA

Others

- González, P., Jr., M. Esparza, D. M. García. 2015. Optic Nerve Astrocytes of Zebrafish (*Danio rerio*) as a Model for Aging Studies Linked to Alzheimer's Disease in Humans. Platform talk for *International Research Conference for Graduate Students*, Texas State University, San Marcos, TX, November 17-18, 2015.
- Flores, Z., P. González, Jr., M. Esparza, A. Carr and D. M. García. 2015. Development of Gfap Expression in the Optic Nerve of Zebrafish. *Annual Biomedical Research Conference for Minority Students*, Seattle, WA, November 11-14, 2015.
- González, P., Jr., M. Esparza, D. M. García. 2015. Optic Nerve Astrocytes of Zebrafish (*Danio rerio*) as a Model for Aging Studies Linked to Alzheimer's Disease. *2015 COS Research Conference*, University of Texas-San Antonio, October 9, 2015.
- Flores, Z., P. González, Jr., M. Esparza, A. Carr and D. M. García. 2015. Development of Gfap Expression in the Optic Nerve of Zebrafish. *2015 National Conference for the Society for the Advancement for Chicanos/Hispanics and Native Americans in Science*, Washington, D. C., October 20-31, 2015.
- Esparza, M. and D. M. García. 2015. I spy something red: Observing the optic nerve of aging zebrafish for GFAP. *9th Annual Undergraduate Research Conference and Honors Thesis Forum*, Texas State University, San Marcos, TX, April 22-24, 2015.
- Ricard, B. J., S. S. Sullivan, J. S. Saavedra, P. Bendiksen, M. A. Villarreal, K. A. Lewis and D. M. García. 2015. A method for examination of the melatonin Mtnr1a receptor subtypes in the retina of *Danio rerio* (zebrafish). *9th Annual Undergraduate Research Conference and Honors Thesis Forum*, Texas State University, San Marcos, TX, April 22-24, 2015.
- Kelly, P. and D. M. García. 2015. Towards a clearer vision of anti-MRP4 antibody specificity in zebrafish eyes. *9th Annual Undergraduate Research Conference and Honors Thesis Forum*, Texas State University, San Marcos, TX, April 22-24, 2015.
- Ricard, B. J., S. S. Sullivan, J. S. Saavedra, P. Bendiksen, M. A. Villarreal, K. A. Lewis and D. M. García. 2015. A method for examination of the melatonin Mtnr1a receptor subtypes in the retina of *Danio rerio* (zebrafish). *20th Annual Biology Colloquium*, Texas State University, San Marcos, TX, April 17, 2015.
- Villarreal, M., B. Euhus, B. Ricard, D. García and K. Lewis. 2015. Validation of anti-human MT1 antibody binding in zebrafish, a model organism. *20th Annual Biology Colloquium*, Texas State University, San Marcos, TX, April 17, 2015.
- Tovar, R. U. and D. M. García. 2014. Convergent evolution in the development of vestigial eyes. *2014 Texas Herpetology Society Meeting*, Texas State University, San Marcos, TX, November 8, 2014.
- Tovar, R. U. and D. M. García. 2014. Convergent evolution in the development of vestigial eyes. Platform talk for *2014 National Conference for the Society for the Advancement for Chicanos/Hispanics and Native Americans in Science*, Los Angeles, CA, October 5-8, 2014.
- Tovar, R. U. and D. M. García. 2014. "All roads lead to Rome" in the development of vestigial eye: Convergent evolution between *Eurycea rathbuni* and *Astyanax mexicanus*. Platform talk for *EuryceaAlliance* meeting, Austin, TX, June 6, 2014.
- Laird, A., R. U. Tovar and D. M. García. 2014. A comparative ocular histology of three salamander species from south central Texas. Platform talk for *EuryceaAlliance* meeting, Austin, TX, June 6, 2014.

- Laird, A., R. U. Tovar and D. M. García. 2014. A comparative ocular histology of three salamander species from south central Texas. *Biology Colloquium*, Texas State University, San Marcos, April 25, 2014. **Recognized as best undergraduate poster.**
- Stone, T. S. and D. M. García. 2014. Change in pigment position in dark- versus light-adapted mouse eyes. *Biology Colloquium*, Texas State University, San Marcos, April 25, 2014.
- Carr, A. and D. M. García. 2014. Developmental expression of GFAP in zebrafish. *Biology Colloquium*, Texas State University, San Marcos, April 25, 2014.
- Nuckels, R. J. and D. M. García. 2014. Gene and genome duplications in chordates. Platform talk for *Biology Colloquium*, Texas State University, San Marcos, April 25, 2014.
- Tovar, R. U. and D. M. García. 2014. “All roads lead to Rome” in the development of vestigial eye: Convergent evolution between *Eurycea rathbuni* and *Astyanax mexicanus*. Platform talk for *Biology Colloquium*, Texas State University, San Marcos, April 25, 2014.
- Stone, T. and D. M. García. 2013. Examination of mouse retina by electron microscopy. *WISE Conference*, Texas State University-San Marcos, November 21-22, 2013.
- Foster, B., A. Carr, A. Laird and D. M. García. 2013. Developmental expression of GFAP in zebrafish. *WISE Conference*, Texas State University-San Marcos, November 21-22, 2013.
- Fremaux, B. P., C. F. Cerday, R. U. Tovar and D. M. García. 2013. Can the blind see? A histological comparison of three south central Texas *Eurycea* species. *WISE Conference*, Texas State University-San Marcos, November 21-22, 2013.
- Tovar, R. U. and D. M. García. 2013. Development and staging of two phenotypically divergent south central Texas *Eurycea* species: *Eurycea rathbuni* and *Eurycea sosorum*. *WISE Conference*, Texas State University-San Marcos, November 21-22, 2013.
- Tovar, R. U., B. P. Fremaux and D. M. García. 2013. Shedding light on a subterranean alien: An investigation of eye reduction in the Texas blind salamander and two closely related species. Platform talk for *International Research Conference for Graduate Students*, Texas State University, San Marcos, TX, November 6-7, 2013.
- Freeman, K.R., F. Benavides, C. Pérez and D. M. García. 2013. Proteomic comparison between MRP4 knockout and wild type mouse brain, liver, kidney and serum. *World Biotechnology Conference*, Boston, MA, June 2013.
- Nuckels, R. and D. M. García. 2013. Myosin 5 evolution and expression in teleosts. *Biology Colloquium*, Texas State University-San Marcos, March 2013.
- Tovar, R. U. and D. M. García. 2013. Comparative ocular histology of three endemic paedomorphic salamander species (*Eurycea nana*, *E. sosorum*, and *E. rathbuni*). *Biology Colloquium*, Texas State University-San Marcos, March 2013.
- Tovar, R. U. and D. M. García. 2013. Comparative ocular histology of three endemic paedomorphic salamander species (*Eurycea nana*, *E. sosorum*, and *E. rathbuni*). *Hispanic Serving Institution Research Symposium*, Texas State University-San Marcos, March 2013.
- Nuckels, R. and D. M. García. 2013. Myosin 5 evolution and expression in teleosts. *Epigenetics and Chromatin: Interactions and Processes Conference*, March 2013, Harvard Medical School, Boston, MA.
- Quintanilla, V. C. and D. M. García. 2012. Expression and localization of multidrug resistance protein 4 (Mrp4) in the retinal tissue of *Danio rerio*. *WISE Conference*, Texas State University-San Marcos, April 2012.

- Quintanilla, V. C. and D. M. García. 2012. Expression and localization of multidrug resistance protein 4 (Mrp4) in the retinal tissue of *Danio rerio*. *Biology Colloquium*, Texas State University-San Marcos, Spring 2012.
- Neve, L. D., A. A. Savage, J. R. Koke and D. M. García. 2011. Identification and characterization of reactive astrocytes following optic nerve injury in zebrafish. *International Research Conference for Graduate Students*, Texas State University-San Marcos, November 2-3, 2011.
- Quintanilla, V. C. and D. M. García. 2011. Expression and localization of multidrug resistance protein 4 (Mrp4) in the retinal tissue of *Danio rerio*. *International Research Conference for Graduate Students*, Texas State University-San Marcos, November 2-3, 2011.
- Nuckels, R. J. and D. M. García. 2011. Expression of duplicated pigment transport genes in zebrafish. *International Research Conference for Graduate Students*, Texas State University-San Marcos, November 2-3, 2011.
- Neve, L. D., A. A. Savage, J. R. Koke and D. M. García. 2011. An anti-bystin antibody labels hypertrophic astrocytes in zebrafish following optic nerve injury: possible marker for reactivity. *The FASEB J.* LB524; Abstract ID 9641.
- Hurtado, G. H. and D. M. García. 2011. Analyzing lipocalin-2 expression in zebrafish optic nerve following injury. *Women in Science and Engineering Conference*, Texas State University-San Marcos, April 8, 2011.
- Kane, S. J., J. R. Koke and D. M. García. 2011. Evidence for multiple cAMP-dependent pathways for activation of F98 cells to the reactive state. *Women in Science and Engineering Conference*, Texas State University-San Marcos, April 8, 2011.
- Nuckels, R. J. and D. M. García. 2011. Expression of duplicated pigment transport genes in zebrafish. *Women in Science and Engineering Conference*, Texas State University-San Marcos, April 8, 2011.
- Davidson, M. and D. M. García. 2011. Identification of a Rab27 guanine nucleotide exchange factor homologue in zebrafish. *Women in Science and Engineering Conference*, Texas State University-San Marcos, April 8, 2011.
- Kane, S. J., D. M. García and J. R. Koke. 2011. Evidence for multiple cAMP-dependent pathways for activation of F98 cells to the reactive state. *The FASEB J.*
- Cardwell, A. S., A. L. Mosier, J. R. Koke and D. M. García. 2010. ATF3 and intermediate filament expression after optic nerve injury (ONI) in zebrafish. *Women in Science and Engineering Conference*, Texas State University-San Marcos, April 30, 2010.
- Hogan, S. and D. M. García. 2010. Nuclear size as a marker for astrocyte reactivity. *Women in Science and Engineering Conference*, Texas State University-San Marcos, April 30, 2010.
- Sharma, S. and D. M. García. 2010. Effect of diurnal variation on melatonin receptor expression in zebrafish eyes. *Women in Science and Engineering Conference*, Texas State University-San Marcos, April 30, 2010.
- Cardwell, A. S., A. L. Mosier, J. R. Koke and D. M. García. 2010. ATF3 and intermediate filament expression after optic nerve injury (ONI) in zebrafish. *The FASEB J.*, Abstract number 1054.1.
- Capalbo, E. L. and D. M. García. 2009. Diurnal rhythms of muscarinic receptor expression in the eye of zebrafish. *The FASEB J.*, Abstract number 7114.
- Patel, M. P., G. R. Ramsey, D. M. García and J. R. Koke. 2009. Phosphorylation of GFAP and lamin B is an early event in reactive astrocytes and may be stimulated by cAMP. *The FASEB J.*, Abstract number 6695.

- Crittenden, E. L., E. L. Capalbo and D. M. García. 2008. Expression of M_{odd} muscarinic acetylcholine receptors in the retinas of bluegill and zebrafish. *The FASEB J.*
- Sharma, S., J. Muñoz and D. M. García. 2008. Exploration of gene changes in circadian rhythm in zebrafish eyes using microarray technology. *The FASEB J.*
- Mosier, A., K. Saul, J. R. Koke and D. M. García. 2008. Optic nerve re-growth in *Danio rerio*. *The FASEB J.*
- Crittenden, E. L. and D. M. García. 2007. Snake venom containing M5 muscarinic receptor activity inhibits carbachol-induced pigment granule dispersion in retinal pigment epithelium isolated from bluegill sunfish. *The FASEB J.*
- Neece, J., D. M. García and J. R. Koke. 2006. Optimal treatment period for forskolin induction of a reactive-like condition in F98 glioma cells. *Molecular Biology of the Cell*. Abstract edition.
- Johnson, A. and D. M. García. 2006. Calcium is required in pigment granule dispersion in bluegill RPE. *Molecular Biology of the Cell*. Abstract edition.
- Nuckels, R. J., J. A. Smith and D. M. García. 2006. Ontogeny of muscarinic receptor expression in zebrafish. *Molecular Biology of the Cell*. Abstract edition.
- Radhakrishnan, V., S. Becerra, P. Nguyen and D. M. García. 2006. Molecular characterization of G-proteins in bluegill. *The FASEB J.* 20(5):A919.
- Radhakrishnan, V. and D. M. García. 2005. Isolation and partial sequencing of protein G α 11 from bluegill. *Neuron Meeting*, Washington, D. C., November 10-11, 2005.
- Abedi, A., D. M. García and J. R. Koke. 2005. The G3.5 antigen appears to be a form of *Molecular Biology of the Cell*, abstract edition.
- Neece, J., P. Phatarpekar and D. M. García. 2005. Isolation and sequencing of fugu muscarinic acetylcholine receptor genes. *The FASEB J.* 19(4):A200.
- Copeland, C., E. L. Crittenden and D. M. García. 2005. Muscarinic receptors in *Lepomis macrochirus*: a pharmacological approach. *The FASEB J.* 19(5):A1201.
- Ramsey, G. R., D. M. García and J. R. Koke. 2005. Is reactive astrogliosis mediated by a cAMP-dependent CaMK pathway? *The FASEB J.* Abstract number
- Neece, J., P. Phatarpekar and D. M. García. 2004. Isolation and sequencing of fugu muscarinic acetylcholine receptor genes. *Mol. Biol. Cell* 15: 342A.
- Phatarpekar, P. V., S. Durdan, C. Copeland, E. L. Crittenden and D. M. García. 2004. Activation of muscarinic receptors on fish RPE induces pigment granule dispersion. *Mol. Biol. Cell* 15: 342A
- Ramsey, G.R., D. M. García and J. R. Koke. 2004. Forskolin treatment of F98 glioblastoma cells increases J1-31 nuclear antigen levels. *The FASEB J.* 18(5):A1066.
- Phatarpekar, P. V., J. D. Neece and D. M. García. 2004. Molecular characterization of muscarinic acetylcholine receptor genes in fish. *The FASEB J.* 18(4):A338.
- Westerlund, J. F., D. M. García, R. S. Schwartz and T. A. Taylor. 2004. The effects of summer scientific research experiences with or without Nature of Science (NOS) instruction upon the NOS views of secondary science teachers. Seventh International History, Philosophy, and Science Teaching (IHPST) Conference, Winnipeg, Ontario, Canada.
- Westerlund, J. F., D. M. García, R. S. Schwartz and T. A. Taylor. 2004. The effects of summer scientific research experiences with or without Nature of Science (NOS) instruction upon the NOS views of secondary science teachers. AETS Meeting, Nashville, TN.

- Westerlund, J. F., D. M. García, R. S. Schwartz and T. A. Taylor. 2003. Explicit NOS instruction and authentic science research: Effects on teachers' NOS views. NC-AETS Meeting, Rochester, MN.
- Westerlund, J. F., T. Taylor, D. García, R. Schwartz. 2004. Nature of science learning outcomes of secondary teachers. Southwest Regional Meeting of the Association for the Education of Teachers in Science, Georgetown, TX.
- Schwartz, R. S., J. Westerlund, J. Koke, D. García, T. Taylor. 2003. Explicit/reflective NOS instruction and authentic science research: Effects on teachers' NOS views. NARST meeting, Philadelphia, PA.
- Saleem, S., A. González, E. Crittenden and D. M. García. 2002. Muscarinic receptors in fishes: pharmacological and molecular analyses. Annual meeting of the American Society for Cell Biology, San Francisco.
- Dixson, J. D., M. R. J. Forstner and D. M. García. 2001. Cloning and characterization of rat alpha-actinin 3: a phylogenetic investigation. *Mol. Biol. Cell* 12S:286a.
- Needham, J. N., Jr., M. R. J. Forstner and D. M. García. 2001. Cloning and characterization of rat alpha-actinin 3: structural analysis. *Mol. Biol. Cell* 12S:1564.
- García, D. M. and A. Guerra. 2001. A research-oriented Bridges to the Baccalaureate program. *Mol. Biol. Cell* 12S:525.
- Taylor, T., J. Westerlund, D. M. García and J. R. Koke. 2001. Teachers as researchers: Does a summer research experience improve education in science? *Mol. Biol. Cell* 12S:94a.
- Cen, E. O., Jr. and D. M. García. 2001. Further analysis of vimentin intermediate filaments in teleost retinal pigment epithelial cells. Annual Meeting of the Society for the Advancement of Chicanos and Native Americans in Science, A New Tapestry of Science: Woven across Cultures and Disciplines, p. 133.
- Westerlund, J., J. Koke, D. García. 2001. A model for retention and preparation of teachers. 17th Annual Recruitment and Retention Conference "Closing the Gaps," Austin, Texas.
- García, D. M. and R. J. C. McLean. 2001. NIH Bridges to the Baccalaureate Program at Southwest Texas State University. Bridges Program Directors' Meeting, Ellicott, MD.
- García, D. M. and R. J. C. McLean. 2001. NIH Bridges to the Baccalaureate Program at Southwest Texas State University. Grants Resource Center, American Association of State Colleges and Universities Meeting, Washington DC.
- Dixson, J. D., M.R.J. Forstner, D.M. García and J.R. Koke. 2001. Molecular genetic characterization of alpha-actinin isoforms. Texas Academy of Science Meeting, Southwest Texas State University.
- Needham, J. N., D. M. Garcia, J. R. Koke, and M. R. J. Forstner. 2001. Molecular characterization of a possible alpha-actinin isoform. Texas Academy of Science Meeting, Southwest Texas State University.
- Cen, E. O. and D. M. García. 2000. Localization of vimentin intermediate filaments in light- and dark-adapted RPE from bluegills. *Mol. Biol. Cell* 11S:352a-353a.
- Dixson, J., J. Needham, J. R. Koke and D. M. García. 2000. Molecular characterization of a possible α -actinin isoform. *Molecular Biology of the Cell* 11S:76a.
- González, A., III and D. M. García. 2000. Cholinergic mechanisms of light adaptation in teleost retinal pigment epithelium. *Molecular Biology of the Cell* 11S:412a.
- González, A., III and D. M. García. 2000. Cholinergic mechanisms of light adaptation in teleost retinal pigment epithelium. Presented at ASPET meeting in Boston.

- González, A., III and D. M. García. 2000. Cholinergic mechanisms of light adaptation in teleost retinal pigment epithelium. Proceedings of the 2000 103rd Annual Meeting of the Texas Academy of Sciences, Kingsville, Texas.
- Westerlund, J.F., T. Taylor, D. M. García and J. R. Koke. 2000. Teachers as summer scientific researchers: Transformative experiences. Proceedings of the 2000 103rd Annual Meeting of the Texas Academy of Sciences, Kingsville, Texas.
- Westerlund, J.F., T. Taylor, D. M. García and J. R. Koke. 2000. Teachers as summer scientific researchers: Transformative experiences. Proceedings of the 2000 National Association of Research in Science Teaching Annual Meeting, New Orleans, Louisiana.
- Pérez, Jr., E. and D. M. García. 1999. Teleost retinal pigment epithelial cells express vimentin. *The FASEB Journal* 13(4):A349.
- Pérez, Jr., E. and D. M. García. 1998. Immunolabeling of cytoskeletal elements in teleost retinal pigment epithelial cells. *The FASEB Journal* 12(5):A729.
- Zamora, D., J. R. Koke and D. M. García. 1997. Localization of cytoskeletal elements in teleost retinal pigment epithelium by confocal microscopy. *Mol. Biol. Cell* 8s.
- Zamora, D., E. Pérez, Jr., J. R. Koke and D. M. García. 1996. Localization of cytoskeletal elements in teleost retinal pigment epithelium. *Mol. Biol. Cell* 7s:382a.
- LeMaster, A. and D. M. García. 1995. Uptake of 3H-cAMP by isolated teleost RPE. *Molecular Biology of the Cell* 6s:130a.
- McCalip, B., D. O. Zamora, E. Pérez, Jr., J. R. Koke and D. M. García. 1995. Localization of an intermediate filament associated protein and identification of intermediate filament proteins in the retinal pigment epithelium of bluegill fish. *Molecular Biology of the Cell*. 6s:377a.
- Zamora, D., J. R. Koke and D. M. García. 1994. Immunolocalization of a putative intermediate filament associated protein in fish retinal pigment epithelium. *Molecular Biology of the Cell* 5:299a.
- García, D. M. and B. Burnside. 1992. Organic anion transport inhibitors block cAMP-induced pigment aggregation in RPE. *Molecular Biology of the Cell* 3:338a.
- Burnside, B. and D. M. García. 1992. Inhibition of cAMP-induced pigment aggregation in green sunfish RPE by an organic anion transport inhibitor probenecid. *Investigative Ophthalmology and Visual Science* 33(4):910.

B. WORKS NOT IN PRINT

INVITED TALKS, LECTURES, PRESENTATIONS

March 13, 2015	Tips for navigating the Ph. D.: A semi-autobiographical retrospective	4 th Annual USDA Graduate Fellows Career Preparation Institute Agenda
September 25, 2014	When fish turn to the dark side: A dual role for cyclic AMP in cell signaling	RISE Seminar, University of Texas-Pan American, Edinburg, TX
March 27, 2014	On the path to enlightenment through the eyes of a fish	New Horizons for STEM Education Conference, San Antonio, Texas
October 2, 2013	Vision research in the García lab	USDA-FATE Conference, Texas State University

September 4, 2013	Mrp4 in the photoreceptors of zebrafish: possible role in dark-adaptation	ARVO/ISOCB, Oxford, England
December 5, 2012	Working on the night moves movements: Stunts fish eyes pull in the dark	Aquatic Biology Seminar, Texas State University
November 9, 2012	Working on the night moves movements: cAMP as an extracellular signal in the retina	Colorado College
October 8, 2012	Working on the night moves movements: cAMP as an extracellular signal in the retina	Department of Biology, Texas State University-San Marcos
September 10, 2009	Specific genetic signals for optic nerve regeneration in adult zebrafish (<i>Danio rerio</i>)	ARVO/ISOCB, Ericeira, Portugal
June 26, 2009	FISH & Chips	Life Sciences Research Group, Texas State University-San Marcos
April 4, 2008	Light- and Dark-Adaptation in Fish Retinal Pigment Epithelium	Texas Lutheran University
March 29, 2008	Getting Hooked on Fish Eyes	MAES Science Extravaganza, Texas State University-San Marcos
February 14, 2007	Presentation on Careers in Science	UT-Austin
January 30, 2007	Embryonic Stem Cell Research	Texas State University-San Marcos, SACA debate
October 27, 2005	Faculty Presentation Workshop on Careers in Science	H-LSAMP Program, Texas State -San Marcos
March 18, 2005	Minority Student Recruitment to Biomedical Research	ASM -Texas Branch, John Knox Ranch
February 20, 2003	Light Adaptation in Fishes	San Antonio College, Bridges Program
October 3, 2002	Light Adaptation in Fishes	NMSU, Dept Biology
April 1, 2002	Prions	SWT, Department of Biology
February 22, 2002	Light Adaptation in Fishes	St. Philip's College, San Antonio, Bridges Program
June 19, 2001	A Model for Retention and Preparation of Teachers	17 th Annual Recruitment and Retention Conference "Closing the Gaps"
June 8, 2001	Bridges at Professional Meetings	Bridges Program Directors' Meeting, Ellicott, MD
January 16, 2001	Fish Retinal Pigment Epithelium as a Model for Studying the Function of Intermediate Filaments	Johannes Gutenberg - Universität Mainz, Germany

October 23, 2000	Fish Eye Cells - A Model for Studying Cell Structures and Cellular Communications	St. Philip's College, San Antonio
Sept 16, 2000	Giving Back: How (or Why) I Became a Scientist	St. Mary's University, San Antonio
April 1, 1999	Teleost RPE: Cytoskeleton and Cell Motility	Texas A&M University, Kingsville, Texas
November 9, 1998	Teleost RPE: Cytoskeleton, Cell Motility and Cell Signaling	Southwest Texas State University, San Marcos
January 24, 1997	Pigment Granule Aggregation in the Retinal Pigment Epithelium: A cAMP Story with a Twist	University of Texas at San Antonio
October 28, 1996	Pigment Granule Aggregation in the Retinal Pigment Epithelium: A cAMP Story with a Twist	Trinity University, San Antonio
March 9, 1996	You Want to do What?	Women's History Week, St. Phillip's College, San Antonio
December 5, 1994	Intermediate Filament Associated Proteins in RPE	Toxicology Group, Texas A&M, College Station
February 4, 1994	Pigment Granule Aggregation in the Retinal Pigment Epithelium: A cAMP Story with a Twist	University of Texas Marine Sciences Institute, Port Aransas
December 3, 1993	Cyclic AMP-induced Pigment Granule Aggregation in the Retinal Pigment Epithelium	Department of Zoology, University of Texas, Austin

WORKSHOPS GIVEN

Spring 2009	CAREER Proposal Writing Workshop series (with Carolyn Pate)
Spring 2008	CAREER Proposal Writing Workshop series (with Carolyn Pate)
February 29, 2008	Science Education Grant Proposal Writing Workshop
October 26, 2007	Grant Proposal Writing Workshop presented by Bob McLean and Bob Slocum
October 5, 2007	Grant-Writing Workshop for Math Department (with Carolyn Pate and Steve Wilson)
Spring 2007	CAREER Proposal Writing Workshop series (with Carolyn Pate)
September 30, 2006	Grant Proposal Writing Workshop (with numerous speakers)
August 16, 2006	Grant Proposal Writing Workshop (with numerous speakers)
Spring 2006	CAREER Proposal Writing Workshop series (with Carolyn Pate)
October 27, 2005	Faculty Presentation Workshop on Careers in Science Houston-LSAMP Scholarship Program, Texas State University- San Marcos

C. GRANTS AND CONTRACTS

FUNDED EXTERNAL RESEARCH GRANTS (\$1,204,011 total)

- 2008-2009 National Science Foundation. Major Research Instrumentation Program. Acquisition of a Multiphoton-ready Microscope at Texas State University, \$234,360 (plus \$100,440 in matching funds from the University – not counted in above total) (PI Joe Koke; award number DBI-0821252)
- 2007-2009 Hope for Vision Award, \$15,000 (This was an unsolicited award.)
- 2006-2010 National Science Foundation. Career Advancement Award: FISH and chips: Applying microarray technology and in situ hybridization to understanding light-adaptation in zebrafish, \$168,646 (Award number IOB-0615762).
- 2006 American Physiological Society, APS Research Career Enhancement Award, \$1,580.
- 2006 National Science Foundation. REU supplement to RUI: Pigment Dispersion in Teleost Retinal Pigment Epithelium: Cholinergic Mechanisms, \$6000 (Award number IOB 06-34704).
- 2005-2006 National Science Foundation. REU supplement to RUI: Pigment Dispersion in Teleost Retinal Pigment Epithelium: Cholinergic Mechanisms, \$6000 (Award number IOB 05-33445)
- 2003-2005 National Science Foundation. RUI: Pigment Dispersion in Teleost Retinal Pigment Epithelium: Cholinergic Mechanisms, \$152,653 (Award number IOB-0235523)
- 2000-2005 National Science Foundation. International: Role of Vimentin in RPE, \$16,000 (Award Number INT-0078261)
- 2000-2003 National Science Foundation. RUI: Pigment Granule Dispersion in Teleost Retinal Pigment Epithelium: Cholinergic Mechanisms, \$62,099, including \$11,612 for an REU supplement (Award number IBN-0077666)
- 1999-2003 National Institutes of Health. NIGMS – Research-Oriented Bridges to the Baccalaureate, \$514,773 (total costs) (co-PI Bob McLean)
- 1994-1996 National Science Foundation. Minority Research Initiatives Planning Grant, \$26,900 (including a Research Enhancement for Undergraduates supplement)

FUNDED CONTRACT

- 2012-2013 Operational Technologies. Imaging, \$6000

PENDING EXTERNAL GRANTS FOR RESEARCH

SUBMITTED BUT NOT FUNDED EXTERNAL GRANTS AND CONTRACTS

(Incomplete record)

- NIH AREA (6/13) - Characterization of the optic nerve of zebrafish as an accessible model for aging research, \$389,469.
- NSF IOS (1/13) – Preliminary proposal: IOS Preliminary Proposal: Eye development in polymorphic sister species –Texas blind salamander and San Marcos salamander
- NSF MRI (1/11) - MRI: Acquisition of a Stand-Alone, Dedicated Multiphoton Excitation Microscopy System at Texas State University, \$799,740

NIH AREA (2/11) - Evolution of spatial and temporal signals in the regulatory regions of genes involved in melanosome transport in zebrafish, \$300,000 direct

NIH AREA (6/09) – Astrocytic Signatures: Dissecting the Pathways that Lead to Astrogliosis, \$221,250

NIH AREA (10/08) – Astrocytes and Optic Nerve Regeneration in Fish and Mammals, \$230,212

NSF (1/06) - Linking G-protein Coupled Receptors to Pigment Granule Movement in Retinal Pigment Epithelium, \$256,790

NSF (7/05) - Pigment Dispersion in Teleost Retinal Pigment Epithelium: Cholinergic Mechanisms, \$531,552

NSF (2/05) - Acquisition of a Multiphoton, Confocal Microscope for Nanotechnology Research, Student Training, and Education in Chemistry, Physics, and Biology, \$749,613

NSF (7/04) – Pigment Dispersion in Teleost Retinal Pigment Epithelium: Cholinergic Mechanisms, ~\$600,000

THECB (7/03) – ATP: An Inexpensive Bioassay System for Testing Alzheimer's Therapeutics, \$205,570

THECB (7/01) - ARP: Molecular Characterization of Muscarinic Receptors in Fish RPE, \$100,000

NSF (1/02) – RUI – Pigment Dispersion in Teleost Retinal Pigment Epithelium: Cholinergic Mechanisms, ~\$200,000

NSF (1/99) – RUI – Pigment Dispersion in Teleost Retinal Pigment Epithelium: Cholinergic Mechanisms, \$66,713

NIH (1/98) - Bridges to the Baccalaureate Proposal - Research-Oriented Bridge to Baccalaureate, \$289,136

NSF (10/97) - Mobile Microscopy Lab, \$68,000

THECB (7/97) - ARP: Regulation of RPE Pigment Movements by Cyclic AMP

NSF RUI (1/97) - Regulation of Pigment Granule Aggregation in Teleost Retinal Pigment Epithelium, \$129,959

NSF RUI (7/96) - Characterization of Intermediate Filaments and an Intermediate Filament Associated Protein in Fish Retinal Pigment Epithelium, \$256,287

GTE FOCUS Program (10/96) - Recruitment of Inner-city Minority Students into Bachelor's Programs in Science, \$30,000

NIH AREA (6/96)- Intermediate Filaments in the Retinal Pigment Epithelium, \$75,000

NSF (1/96) - RUI:Structural and functional characterization of the G.3.5 antigen, an intermediate filament-associated protein, \$242,616

THECB (7/95) - ARP: The cytoskeleton of the fish retinal pigment epithelium, \$200,000

NSF (7/95) - RUI: Regulation of pigment granule aggregation in teleost retinal pigment epithelium, \$216,076

NSF (1/95) - C-RUI: Structure, function, and evolution of neural-specific proteins in fishes, \$1,026,588

NSF (6/94) - RUI: Characterization of novel cytoskeletal proteins, \$859,968

NSERC (4/94) - Novel cytoskeletal proteins: their molecular characteristics, \$356,940

FUNDED INTERNAL GRANTS AND CONTRACTS (\$84,659 total)

2013 Research Enhancement Program Grant. Zebrafish Optic Nerve as a Model for Studying Aging in the Central Nervous System, \$8000

2011 Research Enhancement Program Grant. Does Mrp4-mediated cyclic nucleotide export drive dark-induced pigment granule aggregation in the retinal pigment epithelium of mouse and zebrafish?, \$7,996
2006 Research Enhancement Program Grant. FISH and Chips. \$5917.26
2001 Research Enhancement Program Grant. Phylogenetic Characterization of Alpha-Actinin. \$15,990 (PI Mike Forstner)
1999-2000 Faculty Research Enhancement Grant. \$15,996 (co-PI Joe Koke)
1999-2000 Faculty Research Enhancement Grant. \$7000
1998 Office of Research and Sponsored Programs. Synthesis of Fluoresceinated Cyclic Adenosine Monophosphate, \$1760
1996 Faculty Research Enhancement Grant. \$6000
1994-1995 Faculty Research Enhancement Grant. \$6000
1994 Faculty Research Enhancement Grant. \$6000
1994 Indirect Cost Research Project. \$4000

PENDING INTERNAL GRANTS FOR RESEARCH

SUBMITTED BUT NOT FUNDED INTERNAL GRANTS AND CONTRACTS* REP 2010

HEAF (Spring 98) - Scanning Electron Microscope (\$200,000)

*This is not be a complete list since I stopped keeping track of what wasn't getting funded, especially in the case of internal grants.

D. FELLOWSHIPS, AWARDS, HONORS

2015 Who's Who

2015 Nominated for Excellence in Diversity Award

2008 Dean Nominee for Presidential Award in Scholarly and Creative Activity

2007 Nominated for Presidential Award in Scholarly and Creative Activity

2007 Selected to receive Hope for Vision Award

2005 Nominated to give Presidential Seminar

2005 Nominated for STAR award

2005 Nominated for Outstanding Woman Faculty Award

2001-2002 Honored Member America's Registry, Edition 2001-2002.

2001 Nominated by Faculty Senate to serve on Master Teacher Committee

2001 Nominated for AAAS Mentor Award

1998 President's Excellence in Service Award runner-up (SOS nominee)

1997 Bonus Award as member of Integrated Microscopy Facility Team

1997 Merit Raise

1997 Alpha Chi National Honor Society Favorite Professor

1996 Merit Raise

1996 Southwest Texas State University Mentoring Program Outstanding Mentor

1996 Alpha Chi National Honor Society Favorite Professor

IV. SERVICE

University:

- Served as reviewer for Graduate College's Outstanding Dissertation Award in 2015.
- Faculty senator for College of Science and Engineering (2015 – present)

- Manned Texas State booth at the SACNAS Conference, October 4-5, 2013, San Antonio Texas.
- Served as a reviewer for the Multi-disciplinary Internal Research Grant (MIRG) competition, spring 2013. Reviewed 14 proposals.
- Serve as Institutional Representative to Texas Women in Higher Education (Spring 2011 – Spring 2015). Organized “Pathways to Administration” brown bag lunch series for faculty considering that career alternative.
- Served as judge for 2010 International Research Conference for Graduate Students put on by Graduate College, 11/4/10.
- Served on the Academic Program Review team to review the Department of Anthropology in 2009.
- Served in Dean Flores’s place on graduation platform party in December 2008
- Provided an interview for Youniversity TV (see www.youniversitytv.com/youlife/cvt.php) in January 2008.
- Represented University on Austin Bio (Greater Austin Chamber of Commerce working group to “grow” biotechnology sector in the Austin area).
- Assisted with evaluation of proposals intended to increase interactions between the University and SMCISD while enhancing STEM education for all students, but particularly for traditionally underserved students.
- Visited UTHSCSA’s Peter Fox and Angela Laird with Heather Galloway (Director of Honors) and Larry Price (CoEd) to explore the possibility of starting a neurobiology honors course at Texas State in January 2008.
- Served in Dean Flores’s place on graduation platform party in May 2007
- Debated merits of human embryonic stem cell research for SACA debate January 2007
- Acted as Marshall at May 2005 Commencement
- Made multiple recruitment trips to the Annual Meeting of the Society for the Advancement of Chicanos and Native Americans in Science in an effort to increase the ethnic diversity of our graduate student body. These trips occurred in October of 1996, 1997 and 2004
- Acted as Marshall at August 2004 Commencement
- Participated in panel discussion in the Philosophy Dialogue series about (1) ethics of human embryonic stem cell research in Spring 2002 and (2) women in science in Spring 2003
- Traveled with delegation to NASA and the office Kay Bailey Hutchinson in June 2001
- Acted as Usher at December 2000 Commencement (undergraduate)
- Acted as Marshall at December 1999 Commencement (undergraduate)
- Acted as Marshall at December 1998 Commencement (undergraduate)
- Acted as Marshall at December 1997 Commencement (undergraduate)
- Attended workshop on retention in California to try to figure out ways to improve retention. I formulated an attendance strategy for the meetings that allowed us to have at least two people at each concurrent session while permitting people to attend sessions in which they were interested.

- University Committees
 - Faculty Senate Subcommittee on Concealed Carry (Summer 2015 – present)
 - Dean of College of Science Search Committee (Spring 2015 – Spring 2016)
 - Vivarium Committee (Summer 2010 – Summer 2011)
 - Dean of College of Science Search Committee (Fall 2008 – Spring 2009)
 - Research Advisory Council (2006 – 2007)
 - Mitte Chair in Water and GIScience Search (2006-2007)
 - Department of Biology Chair Search Committee (2004 – 2006)
 - President’s Council for Women (1995-1999)
 - Morning Student Commencement Speaker Committee (1998)
 - Investigative Committee for Academic Dishonesty (Spring 2014)
 - Exercise Sports Science Faculty Search Committee (Fall 2008 – Spring 2009)
 - STEM Task Force (2006 – 2007)
 - Sponsored Projects Advisory Committee (2006-2007)
 - Institutional Animal Care and Use Committee (1995 – 2007)
 - Suspension Appeals Committee (Don’t remember the dates)
 - Dean of General Studies Search Committee (1998-1999)
 - Writing Intensive Committee (1998)

College:

- Faculty senator for College of Science and Engineering (2015 – present)
- Worked at the College of Science and Engineering Booth at the 2013 SACNAS conference, meeting students and providing them with information about programs of study at Texas State University.
- Participated in Dean’s interview with various faculty and chair job candidates throughout the college.
- Participated in monthly Materials Science lunches intended to foster research collaborations among materials science researchers in the different departments in the College of Science. My participation helps familiarize me with research outside my department, which in turn helps me identify potential funding opportunities for these faculty.
- Began work in Fall 2008 with Associate and Assistant Deans of the College of Education to host a Science, Technology and Engineering Education Event for Spring 2009.
- Attended graduation (platform party) in Dean’s place in December 2008.
- Visited Emerging Technologies with Reddy Venumbaka, Tom Myers and Terry Golding to investigate opportunities for collaboration in December 2008.
- Worked individually with faculty interested in submitting CAREER proposals (Spring/Summer 2008).

- Attended workshop on Living Learning Communities (LLC) in November 2008, which helped the team of faculty who had worked on the NSF-STEP proposal move forward on developing an additional LLC for the College of Science which will be focused on premedical students, particularly those eligible for JAMP funding.
- Worked with Reddy Venumbaka (IEIS) to organize an intercollegial, biomedically focused “life sciences” research group, which now (2009) meets monthly to discuss shared research interests and shareable equipment
- Attended ribbon-cutting ceremony for the Ingram School of Engineering in April 2008.
- Attended the Department of Computer Science’s Internal Advisory Board meeting in April 2008.
- Hosted Bruce Leander (former CEO at ABI), who gave a talk to undergraduates on Careers in Biotechnology in April 2008.
- Attended Dean’s List reception on behalf of Dean in February 2008.
- Was a keynote speaker at Science Extravaganza, which was held as a memorial event marking the passing of MAES’s president in a car accident in March 2008.
- Visited Southwest Research Institute with a team from the College of Science in San Antonio to explore possible collaborations.
- Attended Graduate College Information Fair (Fall 2007, 1/07)
- Attended Graduate Student Recruitment Workshop (1/07)
- Function as Media Liaison for the College of Science (2007-present)
- Function as Faculty Advisor (with Jaime Hernández) for MAES
- Function as mentor for a variety of LS-AMP students (~2001 – 2011)
- Arranged and conducted Grant Proposal Writing Workshops (8/06, 9/06, 10/07)
- Arranged and conducted a series of CAREER proposal writing workshops (Spring 2006, 2007)
- Participated as a judge in the Louis Stokes Alliances for Minority Participation Undergraduate Research Conference (July 2001)
- Participated as a judge in the Louis Stokes Alliances for Minority Participation Undergraduate Research Conference (July 2000)
- College Committees

<ul style="list-style-type: none"> Research Service Center Advisory Board (Fall 2013 – present) WISE Conference Planning Committee (Chair, Summer 2009 – Fall 2013) BIOMSE Search Committee for 3 positions (Spring 2010) Materials Science Chemist Search Committee (Summer 2007 – Spring 2008) Promotion and Tenure Task Force (Fall 2007 – Spring 2008) 	<ul style="list-style-type: none"> College of Science Curriculum Committee (Fall 2011 – present) WISE Scholarship Committee (Chair, Spring 2010 – Spring 2015) Materials Science Chemistry Search Committee II (Summer 2008 – Spring 2009) Materials Science and Engineering Search Committee for Director and 2 Associate/Full Professors (Fall 2007 – Spring 2008) College Council (1/06 – 8/09)
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Senior Microbiology Lecturer Search Committee	Summer 2013 – Fall 2013
Statistics Substitution Committee (Chair)	Fall 2012 – Fall 2013
Academic Program Review Committee	Summer 2012 – Fall 2013
New Building Committee	Spring 2012 – Summer 2012
Curriculum subcommittee for Changes to the Math Requirements (Chair)	Spring 2012 – August 2012
Mentoring Committee (with Bob McLean and Weston Nowlin) for Shannon Weigum (Chair)	Fall 2011 - present
Cell Bio Search Committee (Chair)	Fall 2010 – Summer 2011
Curriculum Committee (Chair, Fall 2011-present)	Fall 2010 - present
Graduate Subcommittee on Journal Status	Spring 2010
Independence Committee (Chair)	Fall 2008
Aquatic Toxicologist Search Committee	Spring 2008
General Science Lecturer Search Committee (Chair)	Spring 2006 – Summer 2006
Development Committee	Spring 2006 – Summer 2008
Graduate Committee (<i>ex officio</i> from 1/06-9/08)	Fall 2005 - present
Departmental Space Committee (Chair, Fall 2005)	Fall 2005; Fall 2008-?
Departmental Planning Committee	Summer 2005
Program Review Committee	Fall 2004 – Spring 2007 (?)
Developmental Biology Search Committee (Chair)	Fall 2004 – Spring 2005
Annual Review Committee (Chair)	Fall 2003 – Fall 2004
B3I Liaison Committee	Fall 2003-Spring 2005
Tenure/Promotion/Continuance Committee	Fall 2003 – Fall 2005
Restricted Chemicals Committee (Chair)	Summer 2003 – Fall 2004
Howard D. Schulze Biology Scholarship Committee (Chair)	Spring 2003 – present
Colene Drace Scholarship Committee	Spring 2002 – present
Scholarship CEC (PMC Chair, 2005)	Spring 2003 – Spring 2005
Planning Committee	Fall 2002
Developmental Biology Search Committee	Spring 2002
Developmental Biology Recruitment Task Force (Chair)	Fall 2001
Sally Karnau Scholarship Committee	Fall 2001, Spring 2003
Biology Ph. D. Curriculum Committee (Chair)	Spring 2000 – Fall 2000
Service CEC (Chair, 2002)	Spring 2000 – Spring 2002
Steering Committee for Aquatic Resources Ph. D.	Spring 2000 – Fall 2000
Public Relations Committee	Spring 2000 – Fall 2000
Budget Committee, Chair (Fall 1999-Fall 2005)	Spring 1994 – Fall 2005
Seminar Committee, Chair (May 1996 – Dec 2000)	Fall 1994 – Dec 2000
Safety Committee	Fall 1995 - Spring 1996; Fall 1999 – Spring 2002
Departmental Post-tenure Review Committee	February 1997 - May 1997; Fall 1998 – Spring 1999
Physiologist Search Committee	Fall 1997- Spring 1998
Lecturer Search Committee	Spring 1998

Community:

- Organized visit from St. John Paul II Catholic High School's Advanced Placement Biology class to Texas State Biology Department to participate in immunology, physiology and microscopy labs February 23, 2015.
- Visited Goodnight Middle School classroom as part of Project Flowing Waters (May 1, 2013)
- Took a 5th grade group from a charter school in San Antonio on a tour of my lab, the darkroom and the Integrated Microscopy Facility (April 30, 2013)
- Served on panel in the Common Experience series about Courage in Religion and Science
- Serve on Board of Directors (formerly the Leadership Council) for Texas State University's Catholic Student Center (2010 – present)

Professional:

- August 2015 – reviewed manuscript for *BMC Pharmacology and Toxicology*
- October 2014 – Recognized in “The Cultivation and Socialization of Graduate Students in the Food and Agricultural Sciences,” a paper presented at a mentoring conference in New Mexico as a “successful accomplished female role [model] who can speak to balancing career and family....”
- August 2014 - reviewed materials for promotion for Michael Persans, The University of Texas-Pan American
- July 2014 – reviewed manuscript for *BMC Research Notes*
- April 2014 – Served as panel reviewer for National Science Foundation MRI program
- October 2013 – March 2015 – judged theses for a USDA-sponsored competition administered through Texas A&M University-Corpus Christi and the American Association for Hispanics in Higher Education (AAHHE) and functioned as a mentor to USDA fellows participating in the program
- Summer 2013 – hosted an American Physiological Society Summer Teacher Researcher.
- June 2013 – re-reviewed manuscript for *Brain Research*
- May 2013 – reviewed EDEN proposals for Evo/Devo/Eco Network
- February 2013 – served as a program reviewer for the M.S. in Biology at Texas A&M Corpus Christi
- February 2013 – reviewed student grant proposal for Texas Academy of Science
- December 2012 – reviewed manuscript for *Brain Research*
- September 2012-March 2013 – judged theses for a USDA-sponsored competition administered through Texas A&M University-Corpus Christi and the American Association for Hispanics in Higher Education (AAHHE)
- July 2012 - Assigned manuscript for review for *BMC Research Notes*
- June 2012 – Reviewed grant proposal for National Geographic
- March 2012 – present - USDA/AAHHE mentor to Diana del Angel (TAMUCC), Martha Ramirez (TAMUK) and Stephanie Ramirez (LSU)
- February 2012 - Assigned manuscript for review for *BMC Research Notes*
- March 2012 – 2015 – Served as a mentor for the USDA-funded Cultivar program to promote entry of Hispanic students into graduate programs in areas of interest to the USDA.

- November 2011-March 2015 – judged theses for a USDA-sponsored competition administered through Texas A&M University-Corpus Christi and the American Association for Hispanics in Higher Education (AAHHE)
- November 2011 – reviewed manuscript for *Brain Research*
- November 2011 – reviewed manuscript for *PLoS ONE*
- October 2011 – reviewed manuscript for *Neurotoxicology*
- September 2011 – reviewed manuscript for *Brain Research*
- August 2011 – reviewed manuscript for *PLoS ONE*
- March 2011 – served as panel reviewer for Ford Foundation Diversity Fellowships.
- August 2010 – nominated two new associate editors for *BMC Research Notes* and they were appointed.
- August 2010 – assigned manuscript for review for *BMC Research Notes*
- August 2010 – reviewed manuscript for *Experimental Eye Research*
- March 2010 – Served as panel reviewer for Ford Foundation Diversity Fellowships
- November 2009 – reviewed manuscript for *Neurotoxicology*
- July 2009 – reviewed manuscript for *American Journal of Physiology: Cell Physiology*
- March 2009 - Served as panel reviewer for Ford Foundation Diversity Fellowships
- January 2009 – reviewed manuscript for *American Journal of Physiology: Cell Physiology*
- Fall 2008 – appointed associate editor for *BMC Research Notes*
- August 2008 - reviewed manuscript for *American Journal of Physiology: Cell Physiology*
- July 2008 – reviewed manuscript for *Comparative Biochemistry and Physiology*
- May 2008 – reviewed materials for promotion for Nancy Mangini, Indiana University
- April 2008 – Served as *ad hoc* reviewer for National Science Foundation
- March 2008 – Served as *ad hoc* reviewer for National Science Foundation
- February 2008 – Reviewed manuscript for the journal *Microgravity Science and Technology*
- January 2008 to December 2009 - in STEM working group organized by the Sloan Foundation and the American Association of Hispanics in Higher Education
- Fall 2007 – Invited to serve on STEM Working Group to increase the number Hispanic Professors at Top Tier Universities, funded by a Sloan Foundation grant to the American Association of Hispanics in Higher Education
- Fall 2007 – Served as *ad hoc* reviewer for National Science Foundation
- Spring 2007 – Reviewed manuscript for the journal *Molecular Biology and Evolution*
- October 2006 – NSF Panel review. Reviewed 6 proposals as primary reviewer and 6 as secondary reviewer. As a panel, we reviewed about 90 proposals.
- February 2006 – National Institutes of Health Bridges Panel Reviewer. Reviewed 3 proposals as primary reviewer, 2 as secondary and 3 as discussant. As a panel, we reviewed 40 proposals.

- April 2005 –NSF Panel Reviewer. Reviewed 6 proposals as primary reviewer, 7 as secondary reviewer. The panel considered about 90 proposals.
- October 2004 – Served as poster judge at LS-AMP meeting in Houston.
- September 2004 – Served as abstract reviewer for ABRCMS. Reviewed 16 abstracts.
- Summer 2004 – Served on Women in the Natural Sciences Panel at The University of Texas, discussing the tenure process at various types of universities.
- Summer 2004 – Served as abstract reviewer for the Society for the Advancement of Chicanos and Native Americans in Science. Reviewed 5 abstracts.
- Spring 2004 – Wrote test bank questions for Wadsworth Publishing Company’s new physiology textbook (under contract).
- Fall 2003 – Reviewed Purves et al., *Neuroscience* (Sinauer) as a volunteer, making multiple corrections to the text.
- Spring 2003 – Served as a panel reviewer for the National Science Foundation. Primary reviewer on 7 grants, secondary on 7. Overall about 80 grants were reviewed.
- Spring 2003 – Served as a panel reviewer for the National Institutes of Health. Primary reviewer on three grants, secondary on 3 and reader on 3. Overall, 31 proposals were reviewed.
- Fall 2001 – Served as panel reviewer for the National Science Foundation, which reviewed 70 proposals.
- Spring 2001 – Reviewed numerous abstracts and manuscripts for German colleagues.
- Summer 2001 – Served as moderator in break-out group to discuss extracting administrative support for Bridges programs while at the Annual Bridges Program Directors' Meeting.
- 8/00 – Wrote questions for the GRE.
- March 2000 – Served as panel reviewer for the National Science Foundation’s
- January 2000 – Served as panelist at Texas Science Summit 2000.
- 1994 – 2000, participated in American Society for Cell Biology Young Scientists Program, in which I wrote letters to primary and secondary school students who had expressed an interest in science, and particularly biology.
- 1998, served as an *ad hoc* reviewer for the National Science Foundation

EXTERNAL GRANTS FOR SERVICE

Halliburton Foundation (5/12) 2013 Women in Science and Engineering Conference:
Sustainability – Preparing for the Long Haul, \$15,000

ORGANIZATIONS OF WHICH I AM OR HAVE BEEN A MEMBER

Honorary:
Sigma Xi

Professional:
American Association of Hispanics in Higher Education
American Physiological Society
American Society for Cell Biology
Association for Research in Vision and Ophthalmology

Society for the Advancement of Chicanos and Native Americans in Science
Texas Herpetological Society