

TEXAS STATE VITA
Last updated 3/2/09

I. Academic/Professional Background

A. Name: Joseph R. Koke, Ph.D. Title: _____
Professor

B. Educational Background

Degree	Year	University	Major
Ph. D.	1971	University of Alberta, Edmonton	Cell Biology
MS	1968	University of Oregon	Biology
BS	1966	University of Oregon	Biology

C. University Experience

Position	University	Dates
Professor and Associate Chair	Texas State	2006 - continuing
Professor and Interim Chair	Texas State	2004 - 2006
Professor and Associate Chair	Texas State	2003 - 2004
Professor	Texas State	1988 - 2003
Visiting Professor of Medicine	University of Wisconsin	1988 - 2001
Associate Professor	Texas State	1983 - 1988
Assistant Professor	Texas State	1978 - 1983
Post-doctoral Fellow	University of Wisconsin	1973 - 1978
Post-doctoral Fellow	University of Alberta	1972 - 1973

D. Relevant Professional and Administrative Experience

Position	Entity	Dates
Consultant for Electron Microscopy	TRI (Texas Research Institute)	1985 - 1986
Director of the Texas State Joint Admission Medical Program (JAMP)	Texas State and TMSDS	2002 - 2004
Director and Principal Investigator, Texas State-Science/Math/Technology Education Institute.	Texas State	1998 - 2002
Chair (1988 - 1996), member (1996 - 2001), chair (2002 - 2004) of the Texas State Institutional Animal Care and Use Committee	Texas State	1988 - present

II. TEACHING

A. Teaching Honors and Awards:

2001 Comal Independent School District, 2001 Business Partner of the Year (mentoring program for high school students)

1997 Alpha Chi National Honor Society, Favorite Professor Award

1995 American Society for Cell Biology Teaching Award, Mentor Scientist

1994 American Society for Cell Biology Teaching Award, Mentor Scientist

1994 Beta Beta Beta Biology Honor Society, Excellence in Teaching Award

1993 The University of Texas Medical School in Houston, excellence in pre-medical education

B. Courses Taught:

BIO 1310, BIO 2430, BIO 2460, BIO 3300, BIO 4299, BIO 4441/5441, BIO 4480/5480, BIO 5485, BIO 5110A, C, Q, BIO 5350, BIO 5316, BIO 5399, BIO 5699.

30 years worth of physiology, cytology and microtechnique, and cell and molecular biology, at all levels.

C. Supervised the following students, including Graduate Theses:

Students Mentored	MS Tx State	Ph.D	MD-DDS-DVM	where are they now -
Ali Abedi	2006			in medical school, St. Georges, Grenada
Dan Anderson	1984			TransOcean Corporate Occupational Health Advisor.
Sandra Bolanos	1997	2003 UTMB	MD 2006	physician in residence, Virginia Beach, VA
Mary Booth			DVM 1985(?)	practicing veterinarian in Round Rock, TX
Nick Christodoulides	1989	1993 UT-Austin		Lab Manager McDevitt Lab, UT-Austin
Laurie Chudej-Leer.	1989			
Colene Drace	1990			Scientist, Alcon Research, Ft. Worth TX
Sullivan Fitzgerald	1995			Dir. Manufacturing, Luminex, Austin, TX
Tracy Glass	2000		MD 2005	physician in residence, Amarillo, TX
Camille Graham	1993		MD 1997	anesthesiologist Galveston TX (?)
Sy Griffey	1986	1995 Baylor CM		Life Cell - Houston Area (?)

Rhoda Hamby-Mason	1991	1997 UTHSC-SA		Research Scientist, UTHSC-SA
Mark Hahn	1998		DO 2002	(possibly) practicing physician in Reno/Sparks, NV
Jordan Hall (undergrad)			MD 2004	physician in residence, uniformed services, Washington DC
Christine Haskin	1986	1995 UTSA	DDS 1989	Associate Professor UNLV Dental College.
Juan Herrera	1997	2002 U. Utah		post-doc University of Houston, TX
Jason Hughes (undergrad)			MD 1988	(possibly) emergency med. MD, U of Iowa
Nina Jaffarзад	2004			lab tech, MD Anderson, Houston, TX
Fariba Javadi	1994		MD 1998	last known - in residence Albany, NY
Sheila Jeffcoat	1994		MD 2001	practicing physician, Houston, TX
Sheila Kadura (undergrad)		2004 Baylor CM		in law school, UT-Austin
Marsha Wills-Karp	1982	1985 UC Santa Barbara		Professor of Pediatrics and Director of Immunobiology, University of Cincinnati.
Tracy Toliver-Kinsky	1993	1998 UTMB		Assoc. Prof Anesthesiology, UTMB
Cynthia Westmoreland-Koutz	1985		PA 1995	practicing PA, Houston, TX
Carol Kyle	1986			high school teacher, Clear Lake, TX
Denise Maloney-Smith	2000		DC 2005 (?)	Chiropractic school, admitted summer 2001
Stephanie Megden			MD 2001	Teaching faculty and practicing physician, NYU Medical Center
Jacqueline Meyer	2004			Teaching Odessa Community Coll.
Amanda Mosier	2009			in progress
James Neece	?			
Mayuri Patel	2009			in progress
Kellous Price	1993		MD 1997	practicing physician, Longview TX
Cary Pruski	1981		DDS 1984	unknown
Timothy Raabe	1991	1995 UT-Austin		Assoc. Prof. St. Mary's Univ., San Antonio
Greg Ramsey	2005			in medical school, St. Georges, Grenada
Brent Sanderlin			DO 1997	USAF flight surgeon

(undergrad)				
Ruben Sandoval	1993			Dir. Imaging Lab, Indiana U School Med.
Katherine Saul	2008			Technician, Biology, TxState, supervisor Dr. Dana García
Robb Sharon			DO 1994	unknown
Kathe Simpson	1988			unknown
Patricia Stevenson	1996			Lab manager, UTHSC-San Antonio
Teresa Taylor	1998			high school teacher, Smithson V. TX
Donna Vaughan	1988	1995 U Wisconsin		self employed Web designer, NJ
Kara Warner	2001	2006 Or. State U		grants administration, Or. State University
Shannon Weigum	2002	2008 UT Austin		Post-doc, Rice University, Houston
Paul Werchan	1982	1986 LSU		Dir. Accel. Effects Lab, Brooks, SA TX
Lynn Williams	1980			consultant, Midland, TX
Carlene Worthington	2004			unknown
Bruce Ziman	1986			lab tech, Johns Hopkins U, MD
47	37	13	17	

D. Courses Prepared and Curriculum Development:

1998 - 2004 Chair of the Biology Graduate Committee, Texas State University-San Marcos.

2003 - reorganized and reenrolled entire graduate faculty in alignment with new doctoral program.

1999 - 2002 Chair, Biology Ph.D. Committee, Texas State University-San Marcos. Responsible for initial program development and curriculum. Wrote initial proposal and "Guide to Graduate Programs" for the Department of Biology

1998 - 2000 Chair of Biology 2000 - Curriculum Committee, Texas State University-San Marcos. Wrote and implemented the first complete revision of the Biology undergraduate curriculum in 30 years.

E. Funded External Teaching Grants and Contracts:

1999 - 2003 Principal Investigator, Southwestern Bell Corporation Foundation, "Teacher Enhancement Through Research," \$200,000. Education Award, helps support Texas State-Science/Math/Technology Institute.

1998 - 2000 Coprincipal Investigator (PI Dana García) Texas Coordinating Board, Eisenhower Funds, "A Summer Research Experience for Science and Mathematics Teachers," \$88,500. Education award, used to help support Texas State-Science/Math/Technology Institute.

1998 - 2002 Principal Investigator, National Science Foundation, Teacher Enhancement Program, "A Summer Research and Teaching Experience for Science and Mathematics

Teachers," \$754,000 (total budget \$1.4 million). This program established the Texas State-Science/Math/Technology Institute, the primary function of which was to provide a research experience to in-service teachers to improve scientific literacy and increase the number of students entering science/math/technology-related fields. Education award.

1996 - 1998 Principal Investigator, National Science Foundation, Instrumentation and Laboratory Improvement Program, "An Integrated And Networked Microscopy Center For Undergraduate Education," \$200,000. This grant provided funds for purchase of a confocal microscope system and creation of a networked microscopy facility necessary to Biology undergraduate curriculum revisions. Education award.

1990 - 1993 Principal Investigator, National Science Foundation, Instrumentation and Laboratory Improvement Program, "Enhancement of Undergraduate Biology Education with Electron Microscopy," \$180,000. This grant supported the integration of electron microscopy into the Biology undergraduate curriculum. Education award.

III. SCHOLARLY/CREATIVE

A. Works in Print

1. Books (if not refereed, please indicate)

a. Chapters in Books:

1. García D. M., Koke, J. R. 1996. The cytoskeleton of the retinal pigmented epithelium. *Advances in Structural Biology* 4:151-174.
2. Sami H., Koke J. R. and Bittar N. 1985. Accelerated recovery of ischemic canine myocardium induced by AMP. *Adv. Myocardiol.* 6:483-90.
3. Bittar N., Shug A. L., Folts J. D. and Koke J. R. 1978. Ischemic-like changes produced in the heart by atractyloside: a chemical model. In "Recent Advances in Studies of Cardiac Structure and Metabolism", Volume 12, "Cardiac Adaptation". Eds: Kobayashi T., Ito Y. and Rona G. University Park Press, Baltimore.
4. Bittar N., Shug A. L., Koke J. R., Folts J. D. and Shrago E. S. 1976. Inhibited adenine nucleotide translocation in mitochondria isolated from ischemic myocardium. In "Recent Advances in Studies of Cardiac Structure and Metabolism", Volume 11, "Biochemistry and Pharmacology of Myocardial Hypertrophy, Hypoxia, and Infarction". Eds: Harris P., Bing R. J. and Fleckenstein A. University Park Press, Baltimore.
5. Shug A. L., Koke J. R., Folts J. D. and Bittar N. 1975. Role of adenine nucleotide translocase in metabolic change caused by ischemia. In "Recent Advances in Studies of Cardiac Structure and Metabolism", Volume 10, "The Metabolism of Contraction". Eds: Roy P.-E. and Rona G. University Park Press, Baltimore.
6. Bittar N., Pauly T. J. and Koke J. R. 1975. Changes in ischemic coronary vasodilation produced by blood, plasma, and saline infusions. In "Recent Advances in Studies of Cardiac Structure and Metabolism", Volume 10, "The Metabolism of Contraction". Eds: Roy P.-E. and Rona G. University Park Press, Baltimore.

2. Articles

a. Refereed Journal Articles (*graduate and †undergraduate student-authors are indicated):

1. García D. M. and Koke, J. R. 2009. Astrocytes as Gate-Keepers in Optic Nerve Regeneration – a Mini-Review. *Comparative Biochemistry and Physiology, Part A*, 152:135-138; doi: 10.1016/j.cbpa.2008.09.026 . Published on-line in November of 2008.
2. Menger GM, Koke JR and Cahill GM. 2005. Diurnal and Circadian Retinomotor Movements in Zebrafish. *Visual Neuroscience* 22:203-209.
3. García DM, *Weigum SE and Koke JR. GFAP and Nuclear Lamins Share an Epitope Recognized by Monoclonal Antibody J1-31. *Brain Res* 2003, 976:9-21.
4. SE Weigum, DM García, TD Raabe, NJ Christodoulides, JR Koke:Discrete Nuclear Structures in Actively Growing Neuroblastoma Cells are Revealed by Antibodies Raised Against Phosphorylated Neurofilament Proteins. *BMC Neuroscience* 2003 4:6 (published 2 April 2003) .
5. *Glass TL, Raabe TD, García DM and Koke, JR. 2002. Phosphorylated Neurofilaments and SNAP-25 in Cultured SH-SY5Y Neuroblastoma Cells. *Brain Research* 934 (1): 43 - 48 .
6. Westerlund J F, García D M, Koke J R, Taylor T A, and Mason D S. 2002. Summer scientific research for teachers: the experience and its effects. *Journal of Science Teacher Education*13(1): 63-83.
7. Rose F L, Koke J R, Koehn R, and *Smith D. 2001. Identification of the etiological agent for necrotizing scute disease in the Texas tortoise. *Journal of Wildlife Diseases*, 37(2) 223-228.
8. *Hahn M., *Glass T, and Koke J. R. 2000. Extracellular Matrix Effects on a Neuroblastoma Cell Line. *Cytobios* 102:7-12.
9. *Bolanos, S. H., *Zamora, D. O., García, D. M., and Koke, J. R. 1998. An a-actinin isoform that may cross-link intermediate filaments and microfilaments. *Cytobios*. 94:39-61.
10. Malhotra S. K., Bhatnagar R., Shnitka, T.K., †Herrera, J.J., Singh, M.V., Koke, J. R. 1995. Astrogliosis In Vitro in 9L Rat Glioma Cells. *Cytobios* 82:39-51.
11. *Jeffcoat S. R., *Givens L., *Bolanos S., Malhotra S. K. and Koke J. R. 1995. A novel intermediate filament-associated protein: further characterization of the G.3.5 antigen. *Cytobios* 82:81-99.
12. *Toliver T. E., †Sneed S. M. and Koke J. R. 1994. Intra-pericardial injection of superoxide dismutase cDNA and myocardial stunning. *Biomedical Letters* 49:169-177.
13. *Toliver T. E. and Koke J. R. 1994. In situ transfer of human superoxide dismutase into rat cardiac myocytes. *Biomedical Letters* 49:161-168.
14. Singh S., Koke J. R., Gupta P. D. and Malhotra S. K. 1994. Multiple roles of intermediate filaments. *Cytobios* 77:41-57.
15. *Price K. A., Malhotra S. K. and Koke J. R. 1993. Localization and characterization of an intermediate filament associated protein. *Cytobios* 76:157-173.
16. *Graham C., *Raabe T. D. and Koke J. R. 1993. Plasmid DNA in Skeletal Muscle. *Biomedical Letters* 48:319-327.
17. Koke J. R., Zheng H-N, †Jeffcoat S., Wu J-R. and Bittar N. 1993. The cardiac renin-angiotensin system and myocardial stunning. *Biomedical Letters* 48:97-113.
18. Koke J. R., *Christodoulides N. J., *Chudej L. L. and Bittar N. 1990. Exogenous superoxide dismutase and catalase promote recovery of function in isolated rat heart after regional ischemia and may be transported from capillaries into myocytes. *Molec. and Cell. Biochem.* 96:97-105.
19. *Chudej L. L., Koke J. R. and Bittar N. 1990. Evidence for movement of exogenous superoxide dismutase and catalase from coronary capillaries into myocytes in dogs. *Cytobios* 63:41-53.
20. *Koke J. R., Fu L. M., *Vaughan D. M., *Sun D. and Bittar N. 1989. Improved recovery of dog myocardium induced by adenosine and inhibitors of adenosine catabolism. *Molec. and Cell. Biochem.* 86:107.

21. *Vaughan D. M. and Koke J. R. 1988. Histochemical evidence for free radical-mediated lipid peroxide formation in ischemic myocardium. *Cytobios* 55:71-80.
22. Wu S. Q., Fu L. M., Koke J. R. and Bittar N. 1987. Contractility, ATP, and creatine phosphate during myocardial ischemia: the effects of adenosine and inhibition of adenosine catabolism in the dog heart. *Cytobios* 50:107-116.
23. Koke J. R., *Kyle C. T. and Bittar N. 1987. Visualization of endocytotic pits in capillary endothelia of dog hearts by scanning electron microscopy. *Cytobios* 50:163-168.
24. Koke J. R. and Bittar N. 1987. Recovery of myocardial function after ischemia: the effects of AMP and inhibition of endocytosis. *Cytobios* 50:107-116.
25. Brandt T., Jones R. and Koke J. R. 1986. Corneal cloudiness in transported Largemouth Bass. *Prog. Fish Cult.* 48:199-201.
26. Koke J. R. and *Anderson D. R. 1985. Changes in metabolite levels and morphology of teleost ventricular myocytes due to hypoxia, ischemia, and metabolic inhibitors. *Cytobios* 45:97-108.
27. Koke J. R., *Werchan P. M., *Sami H. and Bittar N. 1984. Endocytotic activity induced in myocardial capillary endothelia and myocytes by adenine and AMP. *Cytobios* 42:81.
28. Koke J. R., *Wills M. A. and Bittar N. 1982. Contractile activity and oxidative metabolism in single adult myocytes during normoxia and hypoxia. *Cytobios* 35:149.
29. Koke J. R., Wiley W. and *Wills M. 1981. Sensitivity of flavoprotein fluorescence to oxidative state in single isolated adult heart cells. *Cytobios* 32:139.
30. Koke J. R. and *Pruski C. A. 1980. Release of lactate dehydrogenase during isolation of adult rat heart cells. *Cytobios* 29:183.
31. Koke J. R. and *Williams L. L. 1979. Fluorometric measurements of changes in the NADH/NAD⁺ ratio in single isolated adult heart cells: effects of cyanide and 2,4-dinitrophenol. *Microbios L.* 45:15.
32. Shug A. L., Thomsen J. R., Folts J. D., Bittar N., Klein M. L., Koke J. R. and Huth P. J. 1978. Changes in tissue levels of carnitine and other metabolites during myocardial ischemia and anoxia. *Arch. Biochem. Biophys.* 187:25.
33. Koke J. R. and Bittar N. 1978. Functional role of collateral flow in the ischemic dog heart. *Cardiovascular Res.* 12:309.
34. Folts J. D., Shug A. L., Koke J. R. and Bittar N. 1978. Protection of the ischemic myocardium with L-carnitine. *Amer. J. Cardiol.* 41:1209.
35. Shug A. L., Koke J. R., Folts J. D. and Bittar N. 1977. Atractyloside induced myocardial cell injury. *J. Molec. and Cell. Cardiol.* 9:489.
36. Koke J. R., Shug A. L., Folts J. D. and Bittar N. 1977. Ultrastructural and physiological changes induced in the canine myocardium by atractyloside. *Cytobios* 17:211.
37. Koke J. R., Berkoff H. A., Kronke G. M. and Bittar N. 1976. Linear densities in mitochondria of human myocardial cells. *Brit. Heart. J.* 38:790.
38. Shug A. L., Shrago E. S., Bittar N., Folts J. D. and Koke J. R. 1975. Acyl CoA inhibition of adenine nucleotide translocation in the ischemic myocardium. *Amer. J. Physiol.* 228:680.
39. Bittar N., Koke J. R., Berkoff H. A. and Kahn D. R. 1975. Histochemical and ultrastructural changes in human myocardial cells after cardiopulmonary bypass. *Circulation* 51:16.
40. Koke J. R., Gupta P. D. and Malhotra S. K. 1971. A succinic dehydrogenase activity in mesosomes of *N. crassa*. *Biophys. Biochem. Res. Commun.* 42:576.
41. Gupta P. D., Koke J. R. and Malhotra S. K. 1971. Remarks on the membranes of *N. crassa* after embedding in glycol methacrylate. *Cytobios* 3:117.
42. Koke J. R., Malhotra S. K. and Bryan L. E. 1970. Factors influencing incorporation of 3H-TTP into an acid insoluble product in isolated mitochondria of *N. crassa*. *Cytobios* 5:19.

b. Non-refereed Articles:

Helen Pearson. Blame it on the bugs: Squid harbour live-in lighting to keep predators in the shade. Nature, Science Update. American Society for Cell Biology Meeting, Washington, December 2001. <http://www.nature.com/nsu/011220/011220-2.html>. 13 December 2001

3. Published Abstracts (*graduate and †undergraduate student-authors are indicated):

1. *Katherine E. Saul, Joseph R Koke, Dana 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*. ISDN, June 2008. (Refereed Abstract)
2. *Amanda L Mosier, *Katherine E Saul, Joseph R Koke, Dana M. Garcia. 2008, Optic Nerve Re-Growth in *Danio rerio*. FASEB Journal, April 2008.
3. *James Neece, Dana M García, Joseph R. Koke. 2006. Optimal Treatment Period for Forskolin Induction of a Reactive-like Condition in F98 Glioma Cells. Mol. Biol. Cell 17 (suppl), L3797.
4. *Katherine Saul, Joseph Koke. 2006. Monoclonal G3.5 antibody and Cytoplasmic alpha-Actinin Antibody Label the Same Antigen in Rat Brain. Mol. Biol. Cell 17 (suppl), L3731.
5. *Ali Abedi, Dana García, Joseph Koke. 2005. Molecular Biology of the Cell (supp.)
6. *Gregory R. Ramsey, Dana García, Joseph Koke. Is reactive astrogliosis regulated by a cAMP-dependent CaMK pathway? The FASEB Journal, April 2005, 19(5), part II. Abstract 680.13.
7. *Carlene Worthington, Joseph Koke. Timing and pathway of IL6 secretion in cultured astrogloma cells. FASEB April, 2004, Washington, DC.
8. *Nina Jaffarzad, Seana Davidson, David Stahl, Joseph Koke. 2004. Cytoskeletal effects of symbiotic associations in earthworm nephridia. FASEB April, 2004, Washington, DC.
9. *Jacqueline D Meyer, Timothy D. Raabe, Joseph R. Koke. 2004. Does hyperglycemia induce Schwann cell apoptosis in vitro?. FASEB April, 2004, Washington, DC.
10. *Gregory R. Ramsey, Dana M. García, Joseph R. Koke. 2004. Phosphorylation regulates the epitope for mAB J1-31 in reactive glial cells. FASEB April, 2004, Washington, DC.
11. †Medley D, †Preiss G, *Weigum S, and Koke J. 2002. Connexin 43 Expression in Cultured Astrocytes. Molecular Biology of the Cell, (supp.) 13:1203a
12. †Priess G, Young D, †DeSimone I, Rahe H, and Koke, J. 2002. Localization of gonadotropin-releasing hormone neurons in fetal bovine brain. Molecular Biology of the Cell, (supp.) 13:631a.
13. *Weigum S, Christodoulides N, McDevitt J, Koke J. 2001. Use of Cultured Glioma Cells As Sensors in Chip-Based Assay for Astrogliosis. Molecular Biology of the Cell, 12, 2834a.
14. †Perdue N, *White P, Davidson S, and Koke J R. 2001. Oxygen, cell enlargement, and light production by *Vibrio fischeri* in squid *Euprymna scolopes*. Molecular Biology of the Cell, 12, 1792a.
15. Taylor T, Westerlund J, García D, and Koke J R. 2001. Teachers as Researchers: Does a Summer Research Experience Improve Education in Science? Molecular Biology of the Cell, 12 512a.
16. *Dixson J., Needham J, Koke J and García D. 2000. Molecular characterization of a possible a-actinin isoform. Molecular Biology of the Cell, 11 (Supplement), 397A.
17. *Glass, T and Koke J. 2000. Development of Neurites from SH-SY5Y Neuroblastoma Cells in Vitro. Molecular Biology of the Cell, 11 (Supplement), 227A.

18. *White P, Taylor T, Davidson S, McFall-Ngai M and Koke J. 2000. Cytoskeletal changes in epithelial cells of *Euprymna scolopes* during symbiotic infection by *Vibrio fischeri*. *Molecular Biology of the Cell*, 11 (Supplement), 1833A.
19. *Warner K, Rahe H, Koke J. 2000. Lamprey gonadotropin-releasing hormone in the bovine brain. *Molecular Biology of the Cell*, 11 (Supplement), 2155A.
20. Westerlund J F, Koke J R, García D M, Taylor, T A and Mason D. 2000. Summer scientific research for teachers: the experience and its effects. Presented at the North Central Association for the Education of Teachers in Science, Eau Claire, WI.
21. Westerlund, J.F., T. Taylor, D. M. García and J. R. Koke. (2000, March). Teachers as summer scientific researchers: Transformative experiences. *Proceedings of the Texas Academy of Science*, in press.
22. Westerlund, J.F., T. Taylor, D. M. García and J. R. Koke. (2000, April) Teachers as summer scientific researchers: Transformative experiences. *NARST*, 440.21a.
23. *Maloney-Smith D., Brewer D., Hall J., Warner, K., and Koke J. 2000. Differential Pathogenicity of a Fungal Dermatophyte. *FASEB J.*, 495.21a.
24. *Glass T., *Hahn M., *White P., †Patel S. and Koke, J. 2000. "Three-Dimensional" cell culture - effects on a neuroblastoma cell line. *FASEB J.*, 495.
25. *Hahn, M S and Koke J R. 1999. The extracellular matrix and differentiation of SH-SY5Y cells. *FASEB J.* 13(I) A349 (266.15).
26. *Fass, K B and Koke J R 1999. Visualization of a-actinin and the G.3.5 antigen in developing chick embryos. *FASEB J.* 13(II) A1009 (725.5).
27. Taylor T., Fass K. and Koke J. 1998. Visualization of actin and myosin arrays in *Xenopus* embryos using laser scanning confocal microscopy. *FASEB J.* 12 (II): 5483a.
28. Hahn M., Mengden S., Merkel T., Deiterle G. and Koke J. R. 1998. Use of laser scanning confocal microscopy for tracking volume changes in single cells. *FASEB J.* 12 (II): 5484a.
29. †Kadura S. C., *P. A. Stevenson, and J. R. Koke 1997. The J1-31 antigen - IFAP or GFAP *FASEB J.* April, 1997: 629A.
30. *Taylor TA, *Herrera JJ, and J. R. Koke. 1997. Intermediate filaments in astrogliosis in vitro. *FASEB J.* April, 1997: 630A.
31. †Kadura S. C., *P. A. Stevenson, and J. R. Koke 1996. The J1-31 antigen may be a modified form of GFAP. *Mol. Biol. Cell* 7S:557a.
32. *Bolanos, S. H. and Koke, J. R. 1996. Analysis of a novel IFAP that may cross-link intermediate filaments and microfilaments. *Mol. Biol. Cell* 7S:557a.
33. *Herrera, J. and Koke, J. R. 1996. Further characterization of an in vitro model of astrogliosis. *Mol. Biol. Cell* 7S:557a.
34. *Zamora, D., †Perez, Jr., E., Koke, J., García, D. 1996. Localization of cytoskeletal elements in teleost retinal pigment epithelium. *Mol. Biol. Cell* 7S:382a.
35. †McCalip B. L., †Zamora D. O., †Perez E., Koke J. R. and Garc'a D. M. 1995. Localization of an intermediate filament associated protein and identification of intermediate filament proteins in teleost retinal pigment epithelium. *Molecular Biology of the Cell*, 6(suppl.): 2192a
36. *Herrera J. J., *Taylor T. A., Malhotra S. K. and Koke J. R. 1995. In vitro astrogliosis: chronology of J1-31 antigen expression in reactive 9L astrocytes. *Molecular Biology of the Cell*, 6(suppl.): 748a
37. *Bolanos S. H. and Koke J. R. 1995. The G3.5 antigen, an intermediate filament-associated protein (ifap), is not a-actinin.. *Molecular Biology of the Cell*, 6(suppl.): 2189
38. *Stevenson P. A., Malhotra S. K. and Koke, J. R. 1995. Purification of an astrocyte-specific intermediate filament-associated protein (IFAP). *Molecular Biology of the Cell*, 6(suppl.): 2190a.

39. †Zamora D., Koke J. R. and Garc'a D. M. 1994. Localization of G.3.5 antigen in fish retina. *Mol. Biol. of the Cell* 5:1740A.
40. †Sneed S., †Sanderlin B. and Koke J. R. 1993. In situ transformation of myocytes: a rapid method of isolating milligram quantities of pure plasmid DNA.. Denton, Texas.
41. †Sneed S. M., *Price K. A., †Jeffcoat S. R. and Koke J. R. 1994. Uptake of gold-conjugated plasmid DNA by neonatal myocytes in culture. *FASEB J.* 8:3586A.
42. †Jeffcoat S. R., Price K. A., Malhotra S. K. and Koke J. R. 1994. An a-actinin-like cytoskeletal protein that may cross-link actin and intermediate filaments. *FASEB J.* 8:606a.
43. *Fitzgerald S., *Javadi F. and Koke J. R. 1994. Post-natal ventricular development and the role of the cardiac renin-angiotensin system. *FASEB J.* 8:3598A.
44. *Toliver T. E., Graham C. and Koke J. R. 1993. In situ transfer of human superoxide dismutase (SOD) cDNA into rat ventricular myocytes by injection: expression and cDNA location. *FASEB J.* 7:A651.
45. *Toliver T. E. and Koke J. R. 1993. The feasibility of decreasing heart attack damage by in situ genetic alteration of myocytes. *Proceedings of the Texas Academy of Science, Denton, Texas.*
46. *Sandoval R., Koke J. R. and Bittar N. 1993. Ultrastructure of ischemia/reperfusion injury in the dog heart. *Proceedings of the Texas Academy of Science, Denton, Texas.*
47. *Sandoval R. and Koke J. R. 1993. Long-term ultrastructural changes in cardiac myocytes caused by 15 minutes of ischemia. *Mol. Biol. of the Cell* 4:2582A.
48. *Price K. A., Malhotra S. K. and Koke J. R. 1993. Partial characterization of G3.5 Antigen, a cytoskeletal binding protein.. Denton, Texas. *Proceedings of the Texas Academy of Science, Denton, Texas.*
49. *Price K. A., Malhotra S. K. and Koke J. R. 1993. Localization and partial characterization of a cytoskeletal-associated protein in muscle. *FASEB J.* 7:A4827.
50. †Jeffcoat S. R., Price K. A., Malhotra S. K. and Koke J. R. 1993. Partial characterization of a cytoskeletal-associated protein in muscle. *TSEM J.* 24:35a.
51. †Jeffcoat S. R., Koke J. R., Zheng H. N., Wu J. R. and Bittar N. 1993. Losartan reduces myocardial stunning, angiotensin-2 mimics it. *FASEB J.* 7:A693.
52. *Javadi F., Bittar N. and Koke J. R. 1993. Post-natal development of the left ventricle: effect of angiotensin-2. *Proceedings of the Texas Academy of Science, Denton, Texas.*
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97. *Vaughan D. M., Koke J. R. and Bittar N. 1986. Localization of peroxisomes (microbodies) and possible demonstration of peroxide levels in ischemic mammalian myocytes. Proceedings of the Texas Academy of Science, Kingsville, Texas.
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102. *Westmoreland C. A., Koke J. R. and Bittar N. 1985. Endocytosis and exocytosis as a transport mechanism for ATP precursors from coronary capillaries into canine myocytes. Proceedings of the Texas Academy of Science, Dallas, Texas
103. *Westmoreland C. A. and Koke J. R. 1985. Stimulation of endocytosis in normal and ischemic heart tissue. Proceedings of the Texas Academy of Science, Dallas, Texas.
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105. Koke J. R. and *Anderson D. R. 1984. Ultrastructure of normal and hypoxic fish hearts. Proceedings of the Texas Academy of Science, San Antonio, Texas.
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110. *Wills M. A. and Koke J. R. 1982. Contractility measurements in isolated heart cells. Proceedings of the Texas Academy of Science, San Angelo, Texas.
111. †Hughes J. and Koke J. R. 1982. Ultrastructural aspects of corneal cloudiness in largemouth bass. Proceedings of the Texas Academy of Science, San Angelo, Texas.
112. †Wiley W. and Koke J. R. 1981. Sensitivity of flavoprotein fluorescence to oxidative state in single isolated adult heart cells. Proceedings of the Texas Academy of Science, Austin, Texas.
113. *Williams L. and Koke J. R. 1980. Fluorometric measurements in isolated adult rat heart cells. Proceedings of the Texas Academy of Science, Corpus Christi, Texas.
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115. Shug A. L., Folts J. D., Koke J. R. and Bittar N. 1975. Ischemic-like changes and myocardial injury induced by inhibition of adenine nucleotide translocase. *Circulation* 51:505a.
116. Folts J. D., Shug A. L., Koke J. R. and Bittar N. 1975. Ischemic-like changes induced by atractyloside. *The Physiologist* 19:
117. Koke J. R. and Malhotra S. K. 1969. Mesosome-like structures in mitochondria of *Neurospora*. *J. Cell Biol.* 43:71a.

B. Works not in Print

1. Invited Talks, Lectures, Presentations:

1. Katherine E. Saul, Joseph R Koke. Dana 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*. ISDN, June 2008.
2. Koke, J. R. 2007. The Cellular Biology and Phylogenetics of Speech and Language. Department of Biology, St. Mary's University, San Antonio, TX. February 9.
3. Koke, J. R. 2006. Speculations on the Developmental Biology and Phylogenetics of Language. Northern Virginia Community College - Annandale Campus. Oct. 20.
4. Koke, J. R. 2003. Cells as Transducers in Detection Systems for Neural Pathologies. Department of Physics, Texas State Jan. 29.
5. Koke, J. R. 2002. Phosphorylated intermediate filaments in nuclei. Bridges Seminar, San Antonio College, April 22.
6. Koke, J. R. 2001. The intermediate filament cytoskeleton in reactive astrocytes. Bridges Seminar, San Antonio College, November 22.
7. Westerlund J, García D and Koke, J. R. 2001. Closing the Gaps and the Texas State SMTEI Summer Teacher Research Experience. Presented at the 17th annual conference on student retention, The Texas Higher Education Coordinating Board, Austin, TX.
8. Koke J. R. 2000. Confocal microscopy can reveal cytoskeleton changes during symbiotic relationship between *Vibrio fischeri* and *Euprymna scolopes* (Hawaiian squid). Pacific Biomedical Research Laboratory, University of Hawaii-Manoa.
9. Koke J. R. 1995. Novel intermediate filament-associated proteins found in astrocytes. Virginia Commonwealth University, Richmond.
10. Koke J. R. 1995. Plasmid DNA in striated muscle. Department of Zoology, University of Alberta, Edmonton.
11. Koke J. R. 1994. The G.3.5 antigen; a cytoskeletal cross-linker. Department of Zoology, University of Alberta, Edmonton.
12. Koke J. R. 1993. A new cytoskeletal protein that links intermediate filaments and actin. Department of Biology, Texas State University-San Marcos.
13. Koke J. R. 1992. A "cure" for myocardial stunning. Incarnate Word College, San Antonio, Texas.
14. Koke J. R. 1989. The role of free radicals in heart attacks. Presidential Seminar Award, Texas State University-San Marcos, San Marcos.
15. Koke J. R. 1986. Superoxide dismutase and myocardial ischemia. Department of Biology, Texas State University-San Marcos.

C. Grants and Contracts

1. Funded External Grants and Contracts:

2008 Principal Investigator, Principal Investigator, NSF-MRI, \$334,800, Acquisition of a Multiphoton-Ready Microscope at Texas State University.

2003 Project Director, JAMP (Joint Admission Medical Program). \$15,000. Administrative award to Texas State from the Texas Medical School System.

2002 Project Director, JAMP (Joint Admission Medical Program). \$66,000. Administrative award to Texas State from the Texas Medical School System.

2002 Principal Investigator, Advanced Technology Program Supplemental Award for High School Teachers, \$5,600. Education Award.

2002 Principal Investigator, Texas Advanced Technology Program, "Micro-array based Neuropathology Studies," \$51,000. Research Award.

2001 Principal Investigator, Advanced Technology Program Supplemental Award for High School Teachers, \$5,600. Education Award.

2000 - 2001 Principal Investigator, Coca Cola Corporation Foundation, "Summer Research Experiences for Teachers," \$50,000. Education Award in support of SMTEI program.

2000 Principal Investigator, Advanced Technology Program Supplemental Award for High School Teachers, \$8,100. Education Award.

2000 - 2002 Principal Investigator, Texas Advanced Technology Program, "Rapid repair of severed axons," \$59,000. Research Award.

1999 - 2003 Principal Investigator, Southwestern Bell Corporation Foundation, "Teacher Enhancement Through Research," \$200,000. Education Award, helps support Texas State-Science/Math/Technology Institute.

1998 - 2000 Coprincipal Investigator (with Dana García) Texas Coordinating Board, Eisenhower Funds, "A Summer Research Experience for Science and Mathematics Teachers," \$88,500. Education award, used to help support Texas State-Science/Math/Technology Institute.

1998 - 2002 Principal Investigator, National Science Foundation, Teacher Enhancement Program, "A Summer Research and Teaching Experience for Science and Mathematics Teachers," \$754,000 (total budget \$1.4 million). This program establishes the Texas State-Science/Math/Technology Institute, the primary function of which is to provide a research experience to in-service teachers to improve scientific literacy and increase the number of students entering science/math/technology-related fields. Education award.

1996 - 1998 Principal Investigator, National Science Foundation, Instrumentation and Laboratory Improvement Program, "An Integrated And Networked Microscopy Center For Undergraduate Education," \$200,000. This grant provided funds for purchase of a confocal microscope system and creation of a networked microscopy facility necessary to Biology undergraduate curriculum revisions. Education award.

1990 - 1993 Principal Investigator, National Science Foundation, Instrumentation and Laboratory Improvement Program, "Enhancement of Undergraduate Biology Education with Electron Microscopy," \$180,000. This grant supported the integration of electron microscopy into the Biology undergraduate curriculum. Education award.

1991 - 1993 Principal Investigator, Texas Advanced Technology Program, "Reduction of reperfusion injury by genetic alteration of heart cells in situ," \$190,000. Research award.

1989 - 1991 National Institutes of Health, Principal Investigator, "Histochemistry of Reperfusion Injury," \$75,000.

1979 - 1998 Principal Investigator, Texas State Faculty Research Enhancement Awards (internal grants). Fifteen awards totalling approximately \$90,000. Research awards.

1976 - 1978 Principal Investigator, American Heart Association, "Ultrastructure of Myocardial Ischemia," \$10,952. Post-doctoral Fellowship research support award.

2. Submitted, but not Funded, External Grants and Contracts (2008 only):

July 14, 2008 Co-PI (PI Dana García), National Science Foundation, "Astrocytes as Gate-Keepers for Optic Nerve Regeneration." \$654,966. Declined November 08.

October 21, 2008 Principle Investigator, National Institutes of Health, "Astrocytes and Optic Nerve Regeneration in Fish and Mammals." \$230,212. Pending as of March 2, 2009.

3. Funded Internal Grants and Contracts:

2008 Principal Investigator, REP, \$8,000. "Understanding nerve regeneration." Research award.

1979 – 1998. Principal Investigator, Texas State Faculty Research Enhancement Awards (internal grants). Fifteen awards totaling approximately \$90,000. Research awards.

4. Submitted, but not Funded, Internal Grants and Contracts (2008 only):

Oct. 7, 2008 Principle Investigator, "The Molecular Biology of Nerve Regeneration." \$8,000. Declined.

D. Fellowships, Awards, Honors:

1989 Presidential Research Seminar Award, Texas State

1988 Presidential Award for Excellence in Research, Texas State

1987 Named Fellow, Texas Academy of Science

IV. SERVICE

A. University (only chaired, major impact committees):

2002 - 2004 Director of the Texas State Joint Admission Medical Program (JAMP)

1998 - 2002 Director and Principal Investigator, Texas State-Science/Math/Technology Education Institute.

1988 - present Chair (1988 - 1996), member (1996 -2001), chair (2002 - 2004) of the Texas State Institutional Animal Care and Use Committee

1997 - 1999 Chair, Biology Master Plan; Member, Texas State University-San Marcos Steering Committee for Southern Association of Colleges and Universities ten-year review and accreditation committee

B. Departmental (only chaired, major impact administrative positions and committees):

2007 - Associate Chair for Undergraduate Affairs. Includes chairmanship of the Biology Curriculum Committee and membership on the College of Science Curriculum Committee, and preparation of the fall and spring semester teaching schedules for the Biology Department. Also overseeing of undergraduate advising and catalog revisions.

2004 - 2006 Interim Chair, Department of Biology

2003 - 2004 Associate Chair for Graduate Programs, beginning fall semester 2003.

1996 - present Director, Integrated Microscopy Facility, Department of Biology, Texas State University-San Marcos

1998 - 2004 Chair of the Biology Graduate Committee, Texas State University-San Marcos.
2003 - reorganized and reenrolled entire graduate faculty in alignment with new doctoral program.

1999 - 2002 Chair, Biology Ph.D. Committee, Texas State University-San Marcos. Responsible for initial program development and curriculum. Wrote initial proposal and "Guide to Graduate Programs" for the Department of Biology

1998 - 2000 Chair of Biology 2000 - Curriculum Committee, Texas State University-San Marcos. Wrote and implemented the first complete revision of the Biology undergraduate curriculum in 30 years.

1997 - 1999 Chair, Biology Master Plan; Member, Texas State University-San Marcos Steering Committee for Southern Association of Colleges and Universities ten-year review and accreditation committee

1997 - 1998 Chair, Post-tenure Review (Annual Review Policy and Procedure), Department of Biology, Texas State University-San Marcos. Member, University Post-Tenure Review Committee. Policy developed in compliance with State legislative mandate.

D. Professional - Grant Review Panels:

1990 National Institutes of Health, Heart, Lung and Blood review panel

1992 National Science Foundation, Department of Undergraduate Education (DUE)

2000 National Science Foundation, ESI, Teacher Enhancement Programs

2002 National Science Foundation, ESI, Teacher Enhancement Programs