

Rodney P. Guttmann, Ph.D.

PRESENT POSITIONS

Associate Professor of Gerontology and Physiology
Director of Graduate Studies, Graduate Center of Gerontology
University of Kentucky
College of Public Health
Graduate Center of Gerontology

Founder and Chief Scientific Officer
3P Pharmaceuticals, LLC
Lexington, KY 40503

ADDRESSES

Office

305 Sanders-Brown Center on Aging
University of Kentucky, Lexington, KY 40536
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EDUCATION

- Ph.D. Department of Pharmacology, The University of Alabama at Birmingham, Birmingham, AL, USA, Thesis: The in situ proteolysis of tau by calpain. Advisory Committee: GV Johnson, RS Jope, PD Bell, AB Theibert, GB Brown, 1998.
- B.S. Department of Chemistry, Florida State University, Tallahassee, FL, 1991. (Major: Chemistry; Minors: Biology and Math)

ACADEMIC AWARDS

- 2008 Flexner Master Educator Award, University of Kentucky
2008 Wethington Award, University of Kentucky
2006 Wethington Award, University of Kentucky
1999 NIH Postdoctoral Fellowship, University of Pennsylvania
1999 Alavi-Dabiri Postdoctoral Award, University of Pennsylvania, Alavi-Dabiri Research Council
1997 Graduate Student Research Award, University of Alabama at Birmingham, UAB Graduate School

RESEARCH EXPERIENCE

Title	Date	Location
Associate Professor	2007-present	University of Kentucky College of Public Health and PhD Program in Gerontology, Lexington, Kentucky

Assistant Professor	2001-2007	University of Kentucky College of Public Health and PhD Program in Gerontology, Lexington, Kentucky
Postdoctoral Fellow	1998-2001	University of Pennsylvania Department of Pharmacology Philadelphia, Pennsylvania
Graduate Student (Ph.D)	1991-1998	University of Alabama at Birmingham Department of Pharmacology Birmingham, Alabama

PATENTS

Inventor: **Guttman, R.P.** Patent awarded Jun 10, 2008 - 7,385,027. "Membrane-permeable peptide capable of calpain inhibition". University of Kentucky

Inventor: Telling, G.C. and **Guttman, R.P.** Patent application entitled: "Calpains are a target for inhibiting prion propagation". Jan. 2004. University of Kentucky

PUBLICATIONS

Chen Q., Wang, X., Zhang, D., Bogyo, M. and **Guttman, R.P.** (2010) Redox regulation of DJ-1 protease activity. (In preparation).

Li, L., Bolstad, E, Anderson, A, **Guttman, R.P.***, Vinogradova, O.* (2009). NMR Structural Characterization of the Penta-Peptide Calpain Inhibitor. *FEBS Letters*. 583(1):135-40.

Chen, G, **Guttman, R.P**, Xiong, Y.L. and Webster, C.D. (2008). Protease Activity in Post-Mortem Red Swamp Crayfish (*Procambarus clarkii*) Muscle Stored in Modified Atmosphere Package. *Journal of Agricultural and Food Chemistry*. Sep 24;56(18):8658-63.

Guttman, R.P. (2007). Therapeutic targeting of calpains in neurodegeneration. *Expert Opinion on Therapeutic Patents*. 17(10):1203-13.

McCollum, A.T., Jafarifar, F, Lynn, B.C, Agu, R.U., Stinchcomb, A.L., Wang S, Chen, Q, and **Guttman, R.P.** (2006) Inhibition of calpain-mediated cell death by a novel peptide inhibitor. *Experimental Neurology*. 202(2):506-13.

Chen Q, Thompson, S.N., Hall, E.D., and **Guttman, R.P.** (2006) Identification and characterization of PEBP as a calpain substrate. *Journal of Neurochemistry*. 99: 1133-1141.

Marcum, J.L., Mathenia, J.K., Chan, R. and **Guttman, R.P.** (2005) Oxidation of thiol-proteases in the hippocampus of Alzheimer's disease. *Biochemical and Biophysical Research Communications*. Jul 11;334(2):342-348.

Peer-reviewed articles (con't)

- Guttman, R.P.**, Day 3rd GA, Wang and Bottiggi KA. (2005) Identification of a novel calpain inhibitor using phage display. *Biochemical and Biophysical Research Communications*. Aug 12;333(4):1087-92.
- Yadavalli R, **Guttman, R.P.**, Centers AP, Seward T, Williamson RA, and Telling GC. (2004) Prion propagation is a calpain-dependent process. *Journal of Biological Chemistry*. 279(21):21948-21956.
- McCullum, A.T., Jafarifar, F., Chan, R. and **Guttman, R.P.** (2004) Oxidative Stress Inhibits Ionomycin-Mediated Cell Death in Cortical Neurons. *Journal of Neuroscience Research*. 76(1): 104-109.
- Simpkins, K., **Guttman, R.P.**, Dong Y, Chen Z, Sokol S, Neumar R, and Lynch DR. (2003) Selective activation induced cleavage of the NR2B subunit by calpain. *Journal of Neuroscience*. 23(36):11322–11331.
- Eberz, A.J., **Guttman, R.P.**, Giasson, B.I., Day III, G.A., Lee, V.M-Y, Trojanowski, T.Q. and Lynch, DR. (2003) Distinct Cleavage Patterns Of Normal And Pathologic Forms Of Alpha-synuclein By Calpain I *In Vitro*. *Journal of Neurochemistry*. 86(4):836-847.
- Neumar, R.W., Xu, Y.A., Gada, H., **Guttman, R.P.** and Siman, R. (2003) Crosstalk between calpain and caspase proteolytic systems during neuronal apoptosis. *Journal of Biological Chemistry*. 278(16):14162-7.
- Guttman, R.P.**, Sokol S., Baker, D.L., Simpkins, K.L., Dong, Y. and Lynch, D.R. (2002) Proteolysis of the NMDA receptor by calpain *in situ*. *Journal of Pharmacology and Experimental Therapeutics*. 302(3):1023-30.
- Grant, E.R., **Guttman, R.P.**, Seifert, K.M. and Lynch, D.R. (2001) A region of the N-methyl-D-aspartate receptor 2A subunit that is sufficient for potentiation by phorbol esters. *Neuroscience Letters*. 310(1):9-12.
- Guttman, R.P.**, Baker, D.L., Seifert, K.M., Cohen, A.S., Coulter, D.A. and Lynch, D.R. (2001) Specific proteolysis of the NR2 subunit at multiple sites by calpain. *Journal of Neurochemistry*. 78(5):1083-93.
- Lynch, D.R., Shim, S.S., Seifert, K.M., Kurapathi, S., Mutel, V., Gallagher, M.J. and **Guttman, R.P.** (2001) Pharmacological characterization of interactions of RO 25-6981 with the NR2B (Epsilon 2) subunit. *European Journal of Pharmacology*. 416(3):185-95.
- Anegawa, N.J., **Guttman, R.P.**, Grant, E.R., Anand, R., Lindstrom, J., and Lynch, D.R. (2000) N-Methyl-D-aspartate receptor mediated toxicity in nonneuronal cell lines: characterization using fluorescent measures of cell viability and reactive oxygen species production. *Brain Research Molecular Brain Research*. 77(2):163-175.

Peer-reviewed articles (con't)

McCormack, M.L., **Guttmann, R.P.**, Schumann, M., Farmer, J.J., Stolle, C.A., Campuzano, V., Koenig, M., and Lynch, D.R. (2000) Novel frataxin point mutations in two patients with Friedreich's ataxia and unusual clinical features. *Journal of Neurology, Neurosurgery, and Psychiatry*. 68:661-4.

Zhang, J-W., **Guttmann, R.P.** and Johnson, G.V.W. (1998) Tissue transglutaminase is an in situ substrate of calpain: Regulation of activity. *Journal of Neurochemistry*. 71: 240-247.

Guttmann, R.P. and Johnson, G.V.W. (1998) Oxidative inactivation of calpain in situ. *Journal of Biological Chemistry*. 273: 13331-13338.

Zhang, J., Lesort, M., **Guttmann, R.P.** and Johnson, G.V.W. (1997) Modulation of the in situ activity of tissue transglutaminase by calcium and GTP. *Journal of Biological Chemistry*. 273: 2288-2295.

Guttmann, R.P., Elce, J.C., Bell, P.D., Isbell, J.C. and Johnson, G.V.W. (1997) Oxidation inhibits substrate proteolysis by calpain I but not autolysis. *Journal of Biological Chemistry*. 272:2005-2012.

Guttmann, R.P., Erickson, A.C. and Johnson, G.V.W. (1995) The self-association of tau: Modulation by phosphorylation and oxidation state. *Journal of Neurochemistry*. 64: 1209-1215.

EDITORIALS, REVIEWS, AND BOOK CHAPTERS

Guttmann, R.P. (2009) Redox regulation of cysteine-dependent enzymes. *Journal of Animal Science*. In press.

Guttmann, R.P. (2007) Recent developments in the therapeutic targeting of calpains in neurodegeneration. *Expert Opinion in Therapeutic Patents*. 17, 1203-1213.

Geddes, J.W., Bondada, V., Sengoku, T., Dubal, S. and **Guttmann, R.P.** Strategies for Calpain Inhibition Following CNS Trauma. *Indian Journal of Neurotrauma* (2006).

Ewen, H.H., Bottiggi, K., Anderson, K., Day, G., Hughes, T.B., Knapp, K., Lawrence, S., Leach, C.R., Traywick, L.S., **Guttmann, R.P.**, Teaster, P.B., and Smith, M.D. (2005). Recommendations for the White House Conference on Aging from the University of Kentucky Summer Series on Aging. Occasional Research Report: University of Kentucky.

Lynch, D.R. and **Guttmann, R.P.** Excitotoxicity: Perspectives based on NMDA receptor subtypes. (2002) Samuel Enna ed. *Journal of Pharmacology and Experimental Therapeutics*. 300:717-23.

Lynch, D.R. and **Guttmann, R.P.** (2001) NMDA Receptor Pharmacology: Perspectives From Molecular Biology. *Current Drug Targets*. 2(3):215-31.

Editorials, reviews (con't)

Guttman, R.P. and Johnson, G.V. (2000) Measurement of calpain activity in vitro and in situ using a fluorescent compound and tau as substrates. Methods in Molecular Biology. 144:143-50.

Guttman, R.P. and Johnson, G.V.W. (1999) Calpain mediated proteolysis of the cytoskeleton. Kevin K.W.Wang and Po-Wai Yuen eds. The Pharmacology and Toxicology of Calpain. Taylor and Francis.

Johnson, G.V.W. and **Guttman, R.P.** (1997) Calpain: Intact and Active? *BioEssays*. 19, 1011-1018.

ABSTRACTS

Joseph, R and **Guttman, R.P.** Use of Phage-Display to Identify Low Molecular Weight Peptides that Inhibit Calpain Protease Activity. (Feb. 2010). District Science Fair (First Place Winner – High School).

Abdul, HM., **Guttman, R.P.**, and Norris, CM. Calpain-mediated proteolysis of calcineurin in AD: Implications for neuroinflammation Oct. 2009. Society for Neuroscience.

Guttman, R.P. Development of Calpastatin Mimetic Using Phage Display. June 2009. American Peptide Symposium.

Clinkinbeard, T and **Guttman, R.P.** Alzheimer's in America: costs and the search for a cure. April. 2009. University of Kentucky Graduate Student Interdisciplinary Conference.

Lynch, DR, Wu H-Y, Bacongus, IRJE, Gleichman, A. **Guttman, R.P.** Calpain mediated cleavage of NR2B. Oct. 2007. Society for Neuroscience.

Chen, Q., Bogoyo, M., Wang, S., and **Guttman, R.P.** Identification of oxidized thiol proteases in Alzheimer's disease. Mar. 2007. 8th International Conference AD/PD.

Guttman, R.P., Wang, S., Bacon, M., Jafarifar, F., Chan, R., and McCollum AT. Inhibition of calpains via non-active site targeting peptides. Nov, 2006. American Heart Association.

Guttman, R.P., Chen, Q., Wang, S., and Bogoyo, M. Activity-dependent cysteine protease profiling in Alzheimer's disease. Oct. 2006. Society for Neuroscience.

Guttman, R.P. and Marcum JL. Protease activity in Alzheimer's disease brain. Nov. 2005. Society for Neuroscience.

Day, GA 3rd and **Guttman, R.P.** Phage-display derived inhibitors of calpain. Nov. 2005. Society for Neuroscience.

Day, GA 3rd and **Guttman, R.P.** Use of peptide-phage display to develop novel calpain inhibitors. College of Public Health Research Day. Oct. 2005.

Guttman, R.P., LeVine H, Estus S and Jafarifar F. Oxidative inhibition of cysteine-proteases in Alzheimer's Disease. Oct. 2004. Society for Neuroscience.

Abstracts (con't)

Eberz, A.F, Giasson, B.I., Norris, E.H., Hodara, R., **Guttman, R.P.**, Ischiropoulos, H, Lee, V.M-Y, Trojanowski J.Q. and Lynch, D.R. Calpain cleavage of modified forms of a-synuclein in vitro. Nov., 2003. Society for Neuroscience.

Guttman, R.P., Chan, R., Jafarifar, F. and McCollum, A.T. Use of peptide-phage display to develop novel calpain inhibitors. Nov., 2003 Society for Neuroscience.

Yadavalli, R., **Guttman, R.P.**, Centers, A.P., Seward, T., Williamson, R.A., and Telling, G.C. Prion propagation is a calpain-dependent process. Oct. 2003. International Prion Conference: From Basic Research to Intervention Concepts.

Eberz, A.J., **Guttman, R.P.**, Giasson, B.I., Trojanowski, J.Q., Lee, V.M-Y and Lynch, D.R. Biochemical study of alpha synuclein cleavage by calpain. Nov., 2002. Society for Neuroscience.

Guttman, R.P., Chan RK, Craddock SD and Pettigrew LC. Reversible thiol oxidation of calpain in ischemic stroke. Nov., 2002. Society for Neuroscience.

Dong, Y., **Guttman, R.P.** and Lynch, D.R. Calpain cleavage of NR2B. Nov., 2002. Society for Neuroscience.

Neumar, R.W., Xu, Y.A., **Guttman, R.P.** and Siman, R. Calpastatin Overexpression Reduces Free Radical-Mediated Neuronal Death. May, 2002. Academic Emergency Medicine.

Guttman, R.P. and Lynch, D.R. Calpain-mediated effects of NR2 subunit truncation within the NMDA receptor. Nov. 2001. Society for Neuroscience.

Neumar, R.W., Xu, Y.A., **Guttman, R.P.** and Siman, R. Interaction of calpain and caspase proteolytic systems during neuronal apoptosis. Nov. 2001. Society for Neuroscience.

Localization of structural determinants for modulation of recombinant NMDA receptors by PKC. Nov., 1999 Grant, E.R., **Guttman, R.P.**, and Lynch, D.R. Society for Neuroscience. 25:889.6.

Guttman, R.P., Grant, E.R., and Lynch, D.R. Nov., 1999 Calpain-mediated regulation of N-methyl-D-aspartate receptor function. Society for Neuroscience Abstracts, 25:889.5.

Lynch. D.R., Seifert, K., Kurapathi, S., Anegawa, N.J., and **Guttman, R.P.** Nov., 1999 Physiological coupling of NMDA receptor activity and nitric oxide production in heterologous expression systems. Society for Neuroscience Abstracts, 25:889.4.

Guttman, R.P. and Johnson, G.V.W. Nov., 1997. Modulation of calpain activity in situ by oxidation. Society for Neuroscience Abstracts.

Guttman, R.P., Bell, P.D. and Johnson, G.V.W. Nov., 1996. Reversible inactivation of calpain I by oxidation. Society for Neuroscience Abstracts, 22:1894.

Abstracts (con't)

Johnson, G.V.W., **Guttman, R.P.** and Davis, P.K. Sept., 1996. Oxidation-induced alterations of tau protein. *Journal of Neurochemistry*, 66:S74.

Johnson, G.V.W., Litersky, J.M. and **Guttman, R.P.** Sept., 1996. Calcium-dependent proteolysis of the microtubule-associated protein tau: Modulation by site-specific phosphorylation. *Journal of Neurochemistry*, 66:S74.

Guttman, R.P. and Johnson, G.V.W. Nov., 1994. The in vitro and in situ proteolysis of tau by calpain. *Society for Neuroscience Abstracts*, 20:1036.

Guttman, R.P., Erickson, A.C., and Johnson, G.V.W. Aug., 1993. Tau self-association: Stabilization with chemical cross-linking agents. *Molecular Biology of the Cell*, 4:393A.

LECTURES BY INVITATION

- Guttman, R.P.** “Redox Regulation of cysteine-dependent enzymes”. Joint annual meeting of the American Dairy Science Association, Canadian Society of Animal Science, and American Society of Animal Science. July, 2009.
- Guttman, R.P.** “Guide to better poster presentations”. University of Kentucky, College of Medicine, Postdoctoral Advisory Committee. November, 2008.
- Guttman, R.P.** “Use of Phage-display to identify protein-protein interactions”. University of Kentucky, College of Medicine. October, 2008.
- Guttman, R.P.** “Calpain and identification of inhibitors”. FASEB Summer Research Conference . Snowmass, CO. July, 2007.
- Guttman, R.P.** “Regulation of cysteine proteases in neurodegeneration”. University of Kentucky, College of Medicine. Lexington, KY. January 2007.
- Guttman, R.P.** “Guide to Grant Writing Workshop”. University of Kentucky, Sponsored Program Development. Lexington, KY. Oct. 2004.
- Guttman, R.P.** “Careers in Aging Research”. University of Kentucky, School of Public Health. Lexington, KY. April 2004.
- Guttman, R.P.** “Oxidation of thiol-dependent enzymes in Alzheimer’s disease”. University of Kentucky, Sanders-Brown Center on Aging. Lexington, KY. December 2003.
- Guttman, R.P.** “Guide to Grant Writing Workshop”. University of Kentucky, Sponsored Program Development. Lexington, Kentucky. Oct. 2003.
- Guttman, R.P.** “Careers in Academia”. University of Alabama at Birmingham, Graduate School. Birmingham, AL, September 2002.
- Guttman, R.P.** “Impact of cysteine oxidation in cell death”. University of Alabama at Birmingham Department of Pharmacology. Birmingham, AL. September 2002.
- Guttman, R.P.** “Oxidative-regulation of thiol proteases”, University of Kentucky. Sanders-Brown Center on Aging. Lexington, KY. October 2001.
- Guttman, R.P.** “Regulation of the NMDA receptor by calpain”. University of Pennsylvania, Department of Pharmacology, Alavi-Dabiri Research Council. Philadelphia, PA. June 1999.
- Guttman, R.P.** “Oxidative inactivation of calpain”, Philadelphia, PA. Children’s Hospital of Philadelphia, Philadelphia, PA. April 1998.
- Guttman, R.P.** “Calpain and Alzheimer’s disease”, University of Alabama at Birmingham, Graduate School. Birmingham, AL. September 1997

GRANTS AWARDED

- 2008-2009 Phase zero award from Kentucky Science and Engineering Foundation to support development of Phase I STTR: *Novel peptides to prevent neurodegeneration following stroke*. (Principal Investigator, 3P Pharmaceuticals).
- 2007-2012 *Calpain as a Therapeutic Target for TBI*. NIH, NINDS. \$5,500,000. (Core C, Proteomics and Biomarker Core, Core Leader, 25% effort).
- 2006-2008 *Oxidation of thiol-proteases in Alzheimer's disease*. NIH, NIA. \$275,000. (Principal Investigator, 33% effort).
- 2004-2009 *Mitochondria, ROS, Ca²⁺, and calpain in the aging CNS*. NIH, NIA. \$11,000,000. (Co-project leader, Project 4, 3% effort. PI: Phil Landfield, Pharmacology, University of Kentucky).

PREVIOUS GRANTS AWARDED

- 2003-2007 *Development of novel calpain protease inhibitors using phage-peptide display*. American Heart Association, Developing Scientist Grant. \$240,000. (Principal Investigator, 10% effort).
- 2004-2006 *Development of novel calpain inhibitors using phage display*. NIH, NINDS. \$250,000. (Principal Investigator, 50% effort).
- 2004 *Major Research Equipment Grant*. University of Kentucky. \$50,000. (Principal Investigator).
- 2002-2003 *Determination of the redox state of the calcium- and cysteine-dependent protease, calpain in Alzheimer's disease*. NIH, NIA. \$20,000. (Principal Investigator, 25% effort).
- 2000-2001 *Modulation of NMDA receptor activity by calpain*. NIH, NINDS, Individual National Research Service Grant Award. \$75,000. (Principal Investigator. 100% effort).
- 1999-2000 *Calpain-mediated regulation of NMDA receptors during ischemic insult*. Agency: American Heart Association. Postdoctoral Award. \$35,000. (Principal Investigator, 100% effort).

GRANTS PENDING

- 2010-2014 *Targeted Wound Stasis System: Matrix Assembled Self-Sealing Hemostat (MASHpak)*. DARPA. \$13,000,000 (Project Leader, Project 2, 10% effort)
- 2010-2011 *Novel peptides to prevent neurodegeneration following TBI*. NIH, NINDS. \$140,000. (Principal Investigator, 10% effort; 3P Pharmaceuticals/University of Kentucky)
- 2010-2013 *Massage efficacy for fatigue and fatigability in older adults*. NIH, NCCAM. \$250,000 (Co-Investigator, 15% effort)

UNIVERSITY TEACHING

Course Development and Instruction	<p>PGY 630-003 Cellular and Molecular Mechanisms of Aging. 2010-present. Developer and Co-Course Director. Graduate Course</p> <p>GRN 781. Student Development Practicum. 2008-2009. Developer and Course director. Graduate Course.</p> <p>GRN 650 Research Design. University of Kentucky. Aug 2008-present. Co-course-director (2009). Graduate Course.</p> <p>GRN 700, Current topics in Brain Aging. University of Kentucky. Jan. 2006-present, Course director. Developer and Course-director. Graduate Course.</p> <p>Gerontology graduate student seminar series. University of Kentucky. Aug. 2005 – 2008, Developer and Coordinator. Graduate Course. (Changed to GRN 781 in 2008).</p> <p>Physiology graduate student seminar series. University of Kentucky. Jan. 2004-present, Developer and Coordinator. Graduate Course.</p> <p>GRN 612, Biology of Aging. Feb. 2003 - present. Lecturer and co-course director, 2003-2005. Course director, 2006-present. Graduate Course.</p>
Guest Lecturer	<p>OBI 651, Oral Biology II for Postgraduate, Feb. 2008-present. Medical student Course</p> <p>GRN 650, Methods in Gerontology. Sept. 2003 – 2007, 2009 Graduate Course.</p> <p>GRN 600, A Study of the Older Person. Sept. 2003 – present. Graduate Course.</p>
Graduate Student mentorship	<p>Tiffanie Clinkinbeard, Gerontology graduate student, University of Kentucky (2008), Mentor</p> <p>Jonathon Wagner, IBS graduate student, University of Kentucky, IBS Rotation (2007), Mentor</p> <p>Mary Kermicle, IBS graduate student, University of Kentucky, IBS Rotation (2007), Mentor</p> <p>Tina Kruger, Gerontology graduate student, University of Kentucky, Rotation (2007), Mentor</p>

Graduate Student mentorship (con't)

Sonya Munk, Gerontology graduate student, University of Kentucky, Rotation (2006), Mentor

Diana Mathis, Gerontology graduate student, University of Kentucky, Rotation (2005), Mentor

Jennifer Marcum, IBS graduate student, University of Kentucky, IBS Rotation (2005), Mentor –

Laura Johnson, IBS graduate student, University of Kentucky, IBS Rotation (2004), Mentor

Dong-Young Choi, IBS graduate student, University of Kentucky, IBS Rotation (2004), Mentor

Jeremy Mathenia, IBS graduate student, University of Kentucky, IBS Rotation (2004), Mentor

Amanda Jo Baker, IBS graduate student, University of Kentucky, IBS Rotation (2003), Mentor

Dan Ni, IBS graduate student, University of Kentucky, IBS Rotation (2003), Mentor

Sadie Hebert, IBS graduate student, University of Kentucky, IBS Rotation (2003), Mentor

Kara Bottiggi, Gerontology graduate student, University of Kentucky, Rotation (2003), Mentor

Katie Nikzad, Gerontology graduate student, University of Kentucky, Rotation (2003), Mentor

Michelle Sama, IBS graduate student, University of Kentucky, IBS Rotation (2002), Mentor

Karrie Grear, IBS graduate student, University of Kentucky, IBS Rotation (2002), Mentor

High School Student Mentorship

Rahul Joseph, 2009. Dunbar High School. Lexington, KY.

Undergraduate Student Mentorship

Andrew Mize, St. John's College, Annapolis, MD. 2009. Mentor

Xin Zhang, Nutritional Sciences, University of Kentucky
2007-present, Mentor

Coady Kleinert, Arts and Science, University of Kentucky,
Summer 2005, Mentor

Matthew Bacon, Agricultural Science, University of Kentucky,
2001-2004, Mentor

Doctoral Thesis Advisor

Tiffanie Clinkinbeard, Dept. of Gerontology, Aug. 2008-
present.

George A. Day, Dept. of Gerontology. March 2004-present.
Graduated with M.S. May 2007).

Masters Thesis Advisor

Jeremy Mathenia. (graduated with M.S., May, 2006)

Masters Thesis Committee

Laura Stephens, Department of Physiology, IBS Program,
September 2009. Graduated with Masters.

Ph.D. Dissertation committees

Nicole Etter, Rehabilitation Sciences. Feb. 2010-present

Amanda Sokan, Department of Gerontology. Oct. 2009-
present

Fran Vorsky, Department of Gerontology. Sept. 2009-present

Kathleen Schoch, Department of Physiology. Sept. 2009-
present

Chris Simmons, Department of Physiology. May 2009-present

Zohn Centrimole, Department of Nursing, April 2009-present

Courtney Ortiz, Department of Gerontology, August 2008-
present

Erin James, Department of Physiology, Feb. 2008-Dec. 2008.
Graduated with Ph.D.

Gong Chen, Department of Nutritional Sciences. August 2007-
December 2007, outside examiner. Graduated with Ph.D.

Edward Chang, Department of Microbiology and Immunology.
March 2007-present.

Scott Shaffer, Department of Rehabilitation Sciences. March
2007- May 2007. Graduated with Ph.D.

Keith Anderson, Department of Gerontology. March 2007-May 2007. Graduated with Ph.D.

Vidya Nukala, Dept. of Anatomy and Neurobiology. Jan 2006-May 2007, outside examiner. Graduated with Ph.D.

Erin Rutherford, Dept. of Anatomy and Neurobiology. Nov 2006-May 2007, outside examiner. Graduated with Ph.D.

Jennifer Marcum, Dept. of Microbiology and Immunology. May 2006-August 2006. (exited program 2006)

Yasemin Kaya-Congleton, Dept. of Microbiology and Immunology. 2005, outside examiner. Graduated with Ph.D.

Yu-Chin Lien, Dept. of Toxicology. 2005, outside examiner. Graduated with Ph.D.

Amanda Jo Baker, Dept. of Physiology. July 2004-Dec. 2008. Graduated with Ph.D.

Michelle Sama, Dept. of Pharmacology. June 2004-2007. Graduated with Ph.D.

Matthew Garcia, Dept. of Anatomy and Neurobiology. Mar. 2004- May 2007. Graduated with Ph.D.

George A. Day, Dept. of Gerontology. Mar. 2004-2006. (Mentor/Advisor). Graduated with M.S. May 2007.

Josh Arnold, Dept. of Physiology. Mar. 2004-Dec 2004. Graduated with M.S.

Jeremy McIntyre, Dept. of Physiology. Oct. 2003-Nov. 2009. Graduated with Ph.D.

Maile Brown, Dept. of Gerontology. June 2002-Jan. 2004. Graduated with Ph.D.

Adrian McCollum, Dept. of Physiology. July 2001-August 2003. Graduated with Ph.D.

ACADEMIC ACTIVITIES

Editorial Board

2007-present Editorial Board Member, Open Proteomics

Journal Editor

2006-present Managing Editor, Frontiers in Bioscience

Grant Reviewer

Feb. 2008 Ad-hoc Reviewer, Research Project Grants, Health Research Board of Ireland

Jan. 2008 Ad-hoc Reviewer, Department of Defense, TBI panel

April 2007-present Ad-hoc Reviewer, NIH

April 2007-present American Heart Association, Biomedical Sciences II

May 2005-present Ad-hoc reviewer, American Institute of Biological Sciences

March 2002 VA Merit Review

Ad-hoc Journal Reviewer

Biochemical Pharmacology

Journal of Alzheimer's Disease

Journal of Neurochemistry

Journal of Neuroscience

Journal of Neuroscience Methods

Mass Spectrometry Reviews

Molecular and Cellular Biology

Neurobiology of Aging

Neurochemistry International

Neuropharmacology

Neuroscience Letters

Science

DEPARTMENT, COLLEGE, AND UNIVERSITY SERVICE

University of Kentucky

May 2009-present Mentor for UK HealthCare Leadership Mentoring Program

May 2007-present Donovan Scholarship in Gerontology Committee

2002-present IBS Graduate Program Student Interviewer, University of Kentucky

College of Public Health

2009-present Member, Appointment, Promotion and Tenure committee

2009-present Member, Faculty Council

2009 Member, Six-year review committee for Gerontology

2008-2009 Chair, Academic Affairs Committee

2007-present Member, Academic Affairs Committee

Service (con't)

2007 Search committee member, Associate Dean of Admissions and Student Affairs
2005-2007 Member, Admissions/Student Affairs Committee

Graduate Center for Gerontology

June 2009-present Director of Graduate Certificate Program
July 2008-present Director of Graduate Studies
July 2004-present Member, Administrative Council
July 2004-present Chair, Curriculum Committee
November 2003-present Member, Curriculum Committee
November 2003-present Member, Recruitment Committee, Co-chair 2009-present
August 2003-July 2004 Member, Steering Committee
September 2002-July 2004 Member, Program Committee
September 2002-2007 Member, Faculty Search Committee

OTHER ACTIVITIES

March 2008-present Judge, Central Kentucky Regional Science and Engineering Fair, Lexington, KY
Dec 2007-present Postdoctoral Research Day Judge, University of Kentucky
July 2007-present Member, Graduate Faculty, University of Kentucky
April, 2007 External Reviewer for proposed PhD. Program in Gerontology, Simon Fraser University, Burnaby, BC
2006-present Associate Member of the Spinal Cord and Brain Injury Research Center
2006-2007 Activities Coordinator – Bluegrass Chapter Society for Neuroscience, University of Kentucky
2005- present Sigma Phi Omega – Gamma Mu Chapter, Faculty Co-advisor, University of Kentucky,
2003-present Cardiovascular Research Day Judge, Gill Heart Institute, University of Kentucky
2001-2007 Associate Member of Graduate Faculty University of Kentucky

MEMBERSHIPS

2006- present	Member, Bluegrass Chapter of the Society for Neuroscience
2005-present	Member and Faculty Co-advisor, Gamma Mu Chapter of Sigma Phi Omega (Gerontology Honor Society)
2005-present	Gerontology Society of America
1995-1997, 2005-2006	Member, American Chemical Society
1993-2006	Member, Society for Neuroscience
1992-1994	Member, American Society for Cell Biology