Dr. Jeffrey L. Staudinger

School of Pharmacy
Department of Pharmacology and Toxicology
5038a Malott Hall
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Personal
Born May 10, 1962, Ames, Iowa

Academic Degrees
1991-1996, M.S., **Ph.D.**, University of Texas Graduate School of Biomedical Science, Biochemistry and Molecular Biology, Dr. Eric Olson's laboratory, conferred 5/11/96.

1982-1987, B.S., Biology, Nebraska Wesleyan University, Lincoln, Nebraska.

PROFESSIONAL EXPERIENCE:

September 2006-Present: Associate Professor, Department of Pharmacology and Toxicology, University of Kansas, School of Pharmacy, Lawrence, Kansas.

August 2001-September 2006: Assistant Professor, Department of Pharmacology and Toxicology, University of Kansas, School of Pharmacy, Lawrence, Kansas.

January 2000-August 2001: Senior Postdoctoral Research Fellow, Department of Pharmacology, Toxicology and Experimental Therapeutics, University of Kansas Medical Center, Kansas City, Kansas.

June 1996-December 1999: Postdoctoral Research Fellow, Nuclear Receptor Group, GlaxoWellcome, Research Triangle Park, North Carolina.

August 1991-June 1996: Pre-doctoral Trainee in Dr. Eric Olson's lab at M.D. Anderson Cancer Center in Houston, Texas, and at the University of Texas Southwestern Medical Center in Dallas, Texas.

HONORS AND AFFILIATIONS:
Recipient, NRSA Postdoctoral Fellowship, National Institutes of Health,
Institute of Environmental Health Sciences (2T32 ES07079) 2000-2001
Recipient, KU Medical Center Training Program in Biomedical Research 2000-2001
Member, American Society for Pharmacology and Experimental Therapeutics (ASPET). 2005-present.
Member, American Association for the Advancement of Science (AAAS). 2005-present.
Member, International Society for the Study of Xenobiotics (ISSX) 2004-present.
Member, American Society for Biochemistry and Molecular Biology (ASBMB) 2006-present

RESEARCH SUPPORT AWARDED:

Current Financial Support:
1. NIH RO-1
PI: Jeff Staudinger
Inflammation, PXR Modification and Drug Disposition (RO1 DK090558).
July 2011-April 2015
National Institute of Diabetes & Digestive & Kidney Diseases (NIDDK)

2. NIH RO-1
PI: Robert Hanzlik
Co-PI: Jeff Staudinger
Reactive Metabolites in Drug Toxicity (5RO1 GM021784-33).
April 2009-March 2013
NIH-General Medical Sciences (NIGMS)

Past Financial Support:
4. NIH RO-1
Cell Signaling, PXR Phosphorylation, and Drug Disposition (1 RO1 DK068443).
August 2005-July 2010
National Institute of Diabetes & Digestive & Kidney Diseases (NIDDK)

5. Multi-Investigator Grant
COBRE in Protein Structure and Function (NIH 1-P20-RR017708)
Structure Activity Relationships Among PXR isoforms
September 2002-August 2005
PI: Robert P. Hanzlik
Project leader: Jeffrey Staudinger

Internal Support:
1. 2011- NIH P20
RR016475 from the K-INBRE Program of the National Center for Research Resources

2. 2005 KU Kansas IDeA Network of Biomedical Research Excellence Faculty Scholar Award (K-INBRE).

3. Faculty General Research Fund
Identification of PXR-target Genes in Kidney Using Gene-Chips
July 1, 2003 - June 30, 2004
PI: Jeff Staudinger
Specific Aim: To identify novel PXR-target genes in the kidney

4. University of Kansas, Research Development Fund
Transgenic Mouse Core Facility
December 2002 – November 2004
PI: Jeffrey Staudinger
Specific Aim: To establish a transgenic mouse core facility at the University of Kansas.

5. University of Kansas, Research Development Fund
Transgenic Mouse Core Facility

December 2001 – November 2003
PI: Jeffrey Staudinger
Specific Aim: To establish a transgenic mouse core facility at the University of Kansas.

6. University of Kansas, New Faculty General Research Fund
Identification and Characterization of Drug-Inducible Genes Using Gene-array and DNA Gene Chip Platforms
December 2001 – June 2002
PI: Jeff Staudinger
Specific Aim: To validate the use of gene chip and gene array technologies to identify drug inducible genes in liver in mice.

7. Faculty Start Up Funds, Departmental and University of Kansas

FIELDS OF MAJOR SCIENTIFIC INTEREST:

My laboratory is interested in basic regulatory mechanisms in toxicology. We work primarily with mice and tissue culture as model systems to investigate two major questions. (1) What role do ligand-activated transcription factors play in regulating xenobiotic homeostasis? (2) What signal transduction pathways interface with ligand-activated transcription factors in mediating xenobiotic homeostasis?

PUBLICATIONS:

1. Post-translational modification of pregnane x receptor. **Staudinger JL**, Xu C, Biswas A, Mani S. *Pharmacol Res.* 2011 Jul;64(1):4-10. PMID: 21397695

2. Pregnane X receptor is SUMOylated to repress the inflammatory response. Hu G, Xu C, **Staudinger JL**. J Pharmacol Exp Ther. 2010 Nov;335(2):342-50. PMID: 20719936

3. A Systematic Analysis of Predicted Phosphorylation Sites within the Human PXR Protein. Lichti-Kaiser K, Brobst D, Xu C, **Staudinger JL.** *J Pharmacol Exp Ther*. 2009, 331: 65-76. PMID: 19617467

4. Cyclic AMP-dependent protein kinase signaling modulates pregnane x receptor activity in a species-specific manner. Lichti-Kaiser K, Xu C, **Staudinger JL**. *J Biol Chem.* 2009 Mar 13;284(11):6639-49. PMID: 19141612

5. Regulation of tissue-specific carboxylesterase expression by pregnane x receptor and constitutive androstane receptor. Xu C, Wang X, **Staudinger JL**. *Drug Metab Dispos.* 2009 Jul;37(7):1539-47. PMID: 19359405

6. Activation of the JAK-STAT pathway is necessary for desensitization of 5-HT2A receptor-stimulated phospholipase C signalling by olanzapine, clozapine and MDL 100907. Singh RK, Dai Y, **Staudinger JL**, Muma NA. *Int J Neuropsychopharmacol.* 2009 Jun;12(5):651-65. PMID: 18976543

7. Kristin Lichti-Kaiser and **Jeff L. Staudinger**. The Traditional Chinese Herbal Remedy Tian Xian Activates Pregnane X Receptor and Induces CYP3A Gene Expression in Hepatocytes. *Drug Metab Dispos***.** 2008 Aug;36(8):1538-45.

8. **Staudinger JL**. Liver-enriched nuclear receptors: therapeutic opportunities. *Mol Pharm.* 2008 Jan-Feb;5(1):1-2. Editorial

9. **Staudinger JL**, Lichti K. Cell signaling and nuclear receptors: new opportunities for molecular pharmaceuticals in liver disease. *Mol Pharm.* 2008 Jan-Feb;5(1):17-34. Review

10. Bassan M, Liu H, Madsen KL, Armsen W, Zhou J, Desilva T, Chen W, Paradise A, Brasch MA, **Staudinger JL**, Gether U, Irwin N, Rosenberg PA. Interaction between the glutamate transporter GLT1b and the synaptic PDZ domain protein PICK1. *Eur J Neurosci.* 2008 Jan;27(1):66-82.

11. Wang H, Huang H, Li H, Teotico DG, Sinz M, Baker SD, **Staudinger J**, Kalpana G, Redinbo MR, Mani S. Activated pregnenolone X-receptor is a target for ketoconazole and its analogs. *Clin Cancer Res.* 2007 Apr 15;13(8):2488-95.

12. Huang H, Wang H, Sinz M, Zoeckler M, **Staudinger J,** Redinbo MR, Teotico DG, Locker J, Kalpana GV, Mani S. Inhibition of drug metabolism by blocking the activation of nuclear receptors by ketoconazole. *Oncogene.* 2007 Jan 11;26(2):258-68.

13. Sayeepriyadarshini Anakk, Wendong Huang, **Jeff L. Staudinger**, Kheng Tan, Timothy J Cole, David D Moore, and Henry W. Strobel. Gender dictates the nuclear receptor mediated regulation of CYP3A44. *Drug Metab Dispos.* **2007** Jan;35(1):36-42.

14. **Jeff L. Staudinger**, Xunshan Ding, and Kristin Lichti. Pregnane X receptor and natural products: Beyond Drug-drug Interactions. *Expert Opin Drug Metab Toxicol*. **2006** Dec; 2(6):847-857.

15. Ding X, Lichti K, Kim I, Gonzalez FJ, **Jeff L. Staudinger**. Regulation of constitutive androstane receptor and its target genes by fasting, cyclic AMP, HNF-4α and the coactivator PGC-1α. *J Biol Chem*., Sep 2006; 281: 26540 - 26551.

16. Xunshan Ding, Kristin Lichti and **Jeff L. Staudinger.** The Mycoestrogen Zearalenone Induces CYP3A through Activation of the Pregnane X Receptor. *Toxicol. Sci.* 2006 June, 91(2), 448-455.

17. Xunshan Ding And **Jeff L. Staudinger**. The Ratio of CAR to PXR Determines the Activity of Guggulsterone Against the Cyp2b10 Promoter. *J. Pharmacol. Exp. Ther.* 2005 Apr, 314:120-127.

18. Xunshan Ding and **Jeff L. Staudinger**. Repression of PXR-mediated Induction of Hepatic *CYP3A* Gene Expression by Protein Kinase C. *Biochem. Pharmacol.* 2005 Mar, 69 (5): 867-873.

19. Xunshan Ding and **Jeff Staudinger**. Induction of Drug Metabolism by Forskolin, the Role of The Pregnane X Receptor and the PKA Signal Transduction Pathway, *J. Pharmacol. Exp. Ther.* 2005 Feb, 312:849-856.

20. Dan Brobst, Xunshan Ding, Katrina L. Creech, Bryan Goodwin, Brian Kelley, and **Jeff L. Staudinger.** Guggulsterone Activates Multiple Nuclear Receptors and Induces CYP3A Gene Expression through the Pregnane X receptor, *J. Pharmacol. Exp. Ther*. 2004 Aug, 310 (2):528-35.

21. Anakk S, Kalsotra A, Kikuta Y, Huang W, Zhang J, **Staudinger JL**, Moore DD, Strobel HW. CAR/PXR Provide Directives for Cyp3a41 Gene Regulation Differently from Cyp3a11. Pharmacogenomics J. 2004; 4(2):91-101.

22. Anakk S, Kalsotra A, Shen Q, Vu MT, **Staudinger JL**, Davies PJ, Strobel HW. Genomic Characterization and Regulation of Cyp3a13: Role of Xenobiotics and Nuclear Receptors. *FASEB J.* 17(12): 2003 Jul 03. 1736-8.

23. Chen C, **Staudinger JL**, Klaassen CD. Nuclear Receptor, Pregnane X Receptor, is Required for Induction of UDP-glucuronosyltranferases in Mouse Liver by Pregnenolone-16 Alpha-carbonitrile. *Drug Metab Dispos.* 2003 Jul;31(7):908-15.

24. **Staudinger, Jeff L**., Ajay Madan, Kathleen M. Carol, Andrew Parkinson Regulation Of Drug Transporter Gene Expression By Nuclear Receptors. *Drug Metab Dispos.* 2003, May;31(5):523-7.

25. McInvale AC, **Staudinger J**, Harlan RE, Garcia MM. Immunolocalization of PICK1 in the Ascending Auditory Pathways of the Adult Rat. *J Comp Neurol* 2002 Sep 2; 450 (4): 382-94.

26. Grace L. Guo, **Jeff Staudinger**, Kenichiro Ogura, and Curtis D. Klaassen Induction of Rat Organic Anion Transporting Polypeptide 2 by Pregnenolone-16α-carbonitrile Is via Interaction with Pregnane X Receptor. *Mol Pharmacol.* 2002 61: 832-839.

27. **Jeff Staudinger**, Yaping Liu, Ajay Madan, Sultan Habeebu, Curtis D. Klaassen. Coordinate Regulation of Xenobiotic and Bile Acid Homeostasis by PXR. *Drug Metab Dispos.* (2001) Nov. 29 (11): 1467-72.

28. **Staudinger, Jeff L**., Bryan Goodwin, Stacey A. Jones, Diane Hawkins-Brown, Yaping Liu, Anne LaTour, Curtis D. Klaassen, Timothy M. Willson, Beverly H. Koller, and Steven A. Kliewer. The Nuclear Receptor PXR Functions as a Hepatic Lithocholic Acid Sensor. *Proc Natl Acad Sci*, (2001) Mar 13; 98(6): 3369-3374.

29. Torres, G., Yao, W.D., Mohn, A.R., Quan H., Kim, K.M., Levey A.I., **Staudinger, J**., Caron, M., (2001), Functional Interaction Between Monoamine Plasma Membrane Transporters and the Synaptic PDZ Domain-Containing Protein PICK1. *Neuron* 30, 121-134.

Publications Prior to Current Position:

30. Xia, J., Zhang, X., **Staudinger, J**., and Huganir, R. L. (1999). Clustering of AMPA receptors by the Synaptic PDZ domain-containing Protein PICK1. *Neuron 22*, 179-187.

31. Torres, R., Firestein, B. L., Dong, H., **Staudinger, J**., Olson, E. N., Huganir, R. L., Bredt, D. S., Gale, N. W., and Yancopoulos, G. D. (1998). PDZ Proteins Bind, Cluster, and Synaptically Colocalize with Eph receptors and their Ephrin Ligands. *Neuron 21*, 1453-1463.

32. Yan, Z. H., Karam, W. G., **Staudinger, J. L.,** Medvedev, A., Ghanayem, B. I., and Jetten, A. M. (1998). Regulation of Peroxisome Proliferator-activated Receptor Alpha-induced Transactivation by the Nuclear Orphan Receptor TAK1/TR4. *J. Biol. Chem. 273*, 10948-10957.

33. Kliewer, S. A., Moore, J. T., Wade, L., **Staudinger, J. L.,** Watson, M. A., Jones, S. A., McKee, D. D., Oliver, B. B., Willson, T. M., Zetterstrom, R. H., Perlmann, T., and Lehmann, J. M. (1998). An Orphan Nuclear Receptor Activated by Pregnanes Defines a Novel Steroid-signaling Pathway. *Cell* (Cambridge, Mass.) *92*, 73-82.

34. Wu, S. L., **Staudinger, J.,** Olson, E. N., and Rubin, C. (1998). Structure, Expression, and Properties of an Atypical Protein Kinase C (PKC3) from Caenorhabditis elegans. PKC3 is Required for the Normal Progression of Embryogenesis and Viability of the Organism. *J. Biol. Chem. 273*, 1130-1143.

35. **Staudinger, J.**, Lu, J., and Olson, E. N. (1997). Specific Interaction of the PDZ Domain Protein PICK1 with the COOH Terminus of Protein Kinase C-□α *J. Biol. Chem. 272*, 32019-32024.

36. **Staudinger, J**., Zhou, J., Burgess, R., Elledge, S. J., and Olson, E. N. (1995). PICK1: a Perinuclear Binding Protein and Substrate for Protein Kinase C Isolated by the Yeast Two-hybrid System. *J. Cell Biol. 128*, 263-7.

37. Olson, E. N., Burgess, R., and **Staudinger, J.** (1993). Protein kinase C as a Transducer of Nuclear Signals. *Cell Growth Differ. 4*, 699-705.

38. **Staudinger, J.**, Perry, M., Elledge, S. J., and Olson, E. N. Interactions among vertebrate helix-loop-helix proteins in yeast using the two-hybrid system. *J. Biol. Chem.* 268: 4608-11, 1993.

39. Magee, P. T., Bowdin, L., and **Staudinger, J.** (1992). Comparison of Molecular Typing Methods for Candida albicans. *J. Clin. Microbiol. 30*, 2674-9.

40. Odds FC, Brawner DL, **Staudinger JL**, Magee PT, Soll DR, (1992). Typing of Candida Albicans Strains. *Journal of Veterinary Mycology* 30 (Suppl 1): 87-94.

41. Wickes, B., **Staudinger, J.,** Magee, B. B., Kwon-Chung, K. J., Magee, P. T., and Scherer, S. (1991). Physical and Genetic Mapping of Candida albicans: Several Genes Previously Assigned to Chromosome 1 Map to Chromosome R, the rDNA-containing Linkage Group. *Infect. Immun. 59*, 2480-4.

NATIONAL/INTERNATIONAL CONFERENCE PRESENTATIONS:

1. Speaker: Symposium 8: Regulation of Xenobiotic Enzymes and Transporters. 16th North American Regional ISSX Meeting, Baltimore, Maryland. October 18 - 22, 2009.

2. Co-chair Symposium 6- Lipid Homeostasis and Metabolic Regulation. Nuclear Receptors, Cell Signaling, and Drug Metabolism. 8th International ISSX Meeting, Sendai, Japan October 9- 12, 2007.

3. Co-chair Plenary Sesssion- Nuclear Receptors and Obesity, Metabolic Activation of the Constitutive Androstane Receptor. International Society for the Study of Xenobiotics, 14th North American ISSX Meeting, Rio Grande, Puerto Rico, October 24th 2006.

4. Co-chair, Symposium 7- Modulation of Xenobiotic Response by Nutritional and Inflammatory Factors. Novel Models to Evaluate the Human Xenobiotic-response: Transduced Pregnane X Receptor Knockout Hepatocytes and a 'Humanized' Pregnane X Receptor Mouse. 14th North American ISSX Meeting, Rio Grande, Puerto Rico, October 24th 2006.

5. Speaker: Metabolic Considerations in the Action of Herbal Medicines, American Society for Pharmacology and Experimental Therapeutics, San Francisco, California, April 2nd, 2006.

6. Co-Regulation of Drug Metabolizing Enzymes and Drug Transporter Proteins by Orphan Nuclear Receptors, The American Association of Pharmaceutical Scientists, Salt Lake City, Utah, October 29th 2003.

7. Turning ADME On and Off: The Pregnane X Receptor as the Master-Switch, International Society for the Study of Xenobiotics, Providence, Rhode Island, October 15th 2003.

INVITED SEMINARS:

1. Department of Pharmaceutical Sciences, University of Maryland School of Pharmacy, May 2009, Hosted by Hongbing Wang.

2. Metabolic Activation of the Constitutive Androstane Receptor. University of Arizona, Tempe, Az., September, 7, 2007, Hosted by Dr. Jeanne Wilson-Rawls.

3. Metabolic Activation of the Constitutive Androstane Receptor. Pfizer, Ann Arbor, Mi., February, 7, 2007, Hosted by Dr. Susan Buist.

4. Metabolic Activation of the Constitutive Androstane Receptor. University of Michigan, Ann Arbor, Mi., Department of Pharmaceutical Sciences February, 7, 2007. Hosted by Dr. David E. Smith, Professor and Chair.

5. Nuclear Receptors and Signal Transduction, an Interlaced Tail of Two Mouse Models. Glaxosmithkline, Research Triangle Park, North Carolina, December 8th, 2006.

6. Metabolic Activation of the Constitutive Androstane Receptor. Kansas State University, Manhattan, Kansas, October 4th, 2006.

7. Metabolic Activation of the Constitutive Androstane Receptor. University of Texas, El Paso, Texas, September 1st, 2006.

8. PXR and CAR: Master Regulators of Xenobiotic and Metabolic Homeostasis, Stowers Institute for Medical Research, Kansas City, Missouri, June 29th, 2005.

9. The Regulation of Drug Transporter Gene Expression by PXR, Emporia State University, Emporia, Kansas, May 22nd, 2004.

10. What's Hot? Transgenic and Knockout Mouse Core-Facility and Gene Chips at KU-Lawrence, University of Kansas, Lawrence, Kansas, February 18th, 2004.

11. Pregnane X Receptor Regulates the Uptake, Metabolism and Excretion of Xenobiotics, University of Texas Health Science Center, San Antonio, Texas, Hosted by Dr. A. Firulli, May 23rd, 2002.

12. Gene Chips and the Study of Drug Inducible Gene Expression, Lyon College, Batesville, Arkansas. Hosted by Local Chapter of The American Chemical Society, May 2nd, 2002.

13. PXR- A Master Regulator of CYP3A Gene Expression, University of Kansas Medical Center Pharmacology and Toxicology Department, Kansas City, Missouri, Hosted by Dr. Curtis Klaassen.

14. Novel PDZ Proteins and Steroid Receptors: PICK1 and PXR, Medical College of Wisconsin, Cell Biology and Neuroanatomy, Department, Milwaukee, Wisconsin. Hosted by Dr. Joe Besharse.

15. Biological Properties of PXR and PICK1-Novel Steroid Receptors and PDZ Proteins, Case Western Reserve University Rammelkamp Center for Education and Research, Cleveland, Ohio, Hosted by Dr. Arthur M. Brown.

16. Steroid Receptors and PDZ Proteins, PXR and PICK1, Medical College of Wisconsin, Pharmacology and Toxicology Department, Milwaukee, Wisconsin, Hosted by Dr. William B. Campbell.

17. Signal Transduction; Novel Steroid Receptors and PDZ Domains; PXR and PICK1, University of California, San Francisco, Department of Physiology, San Francisco, California, Hosted By Dr. David Bredt.

18. PICK1 and PXR: Molecular Scaffolds and Steroid Hormone Receptors, Yeshiva University Albert Einstein, College of Medicine, Department of Molecular Pharmacology, New York, New York, Hosted by Dr. Charles Rubin.

19. Cloning of a Novel PKC-interacting Protein, 9th International Conference on Second Messengers and Phosphoproteins, Nashville, Tennessee, 1995.

POSTER PRESENTATIONS:

1. Dan Brobst and Jeff L. Staudinger Nuclear Receptor Signaling in HepaRG Cells. . International Society for the Study of Xenobiotics (ISSX), 16th North American Regional Meeting. (Abstract) October 2009.

2. Chenshu Xu, Xinkun Wang, and Jeff L. Staudinger. Regulation of Tissue-Specific Carboxylesterase Expression by Pregnane X Receptor and Constitutive Androstane Receptor. International Society for the Study of Xenobiotics (ISSX), 16th North American Regional Meeting. (Abstract) October 2009.

3. Lichti K, Staudinger JL. PXR Activity is Modulated by PKA Signaling in a Species-Specific Manner. International Society for the Study of Xenobiotics (ISSX), 8th International ISSX Meeting, Sendai, Japan October 9- 12, 2007. (Abstract) October 2007.

4. Lichti K, Dan Brobst, and Jeff L. Staudinger. Novel Models to Evaluate the Human Xenobiotic-response: Transduced Pregnane X Receptor Knockout Hepatocytes and a 'Humanized' Pregnane X Receptor Mouse. 14th Annual Meeting of the International Society for the Study of Xenobiotics, Rio Grande, Puerto Rico, (Abstract) October 2006.

5. Hassan Chebaro, Lichti K, Xunshan Ding, and Jeff L. Staudinger. PGC1 Regulates Expression of CAR and CAR-target Genes. 14th Annual Meeting of the International Society for the Study of Xenobiotics, Rio Grande, Puerto Rico, (Abstract) October 2006.

6. Lichti K, Staudinger JL. PXR Activity is Modulated by PKA Signaling in a Species-Specific Manner. International Society for the Study of Xenobiotics (ISSX), 13th North American Meeting, Maui, Hawaii. (Abstract) October 2005.

7. Brobst D, Parkinson A, Czerwinski M, Staudinger JL. Cytochrome P450 Induction in the Fa2N-4 Immortalized Human Hepatocyte Cell Line and Primary Cultures of Human Hepatocytes. International Society for the Study of Xenobiotics (ISSX), 13th North American Meeting, Maui, Hawaii. (Abstract) October 2005.

8. Ding X, Staudinger JL. Regulation of CYP2B10 Gene Expression by Guggulsterone. International Society for the Study of Xenobiotics (ISSX), 13th North American Meeting, Maui, Hawaii. (Abstract) October 2005.

9. Ding X, Lichti K, Sweet D, Hayden M, Staudinger JL. Pregnane X Receptor Regulates the Expression of PXR-Target Genes in Choroid Plexus. International Society for the Study of Xenobiotics (ISSX), 7th International Meeting, Vancouver, Canada. (Poster) August 2004.

10. Ding X, Staudinger JL. Differential Modulation of the Xenobiotic Response by PKA Activators. International Society for the Study of Xenobiotics (ISSX), 7th International Meeting, Vancouver, Canada. (Abstract) August 2004.

11. Brobst D, Ding X, Goodwin B, Staudinger JL. Gugulipid, CYP3A and Herb-Drug Interactions. International Society for the Study of Xenobiotics (ISSX), 12th North American Meeting, Providence, Rhode Island. (Abstract) October 2003.

12. Brobst D, Ding X, Goodwin B, Staudinger JL. Gugulipid, CYP3A and Herb-Drug Interactions. American Association for the Study of Liver Diseases, Basic Research Single Topic Conference, Warrenton, Virginia. (Abstract) May 2003.

13. Torres R, Staudinger JL, Dong H, Huganir RL, Olson EN, Gale N, Yancopoulos GD. Isolation of PDZ-Containing Proteins That Interact With Eph Receptors and Their Ligands. Oncogene, 1998.

14. Xia J, Staudinger JL, Zhang S, Huganir RL. Interaction of AMPA Receptors with PICK1. Society of Neuroscience, 28th Annual Meeting, Los Angeles, California. (Abstract) 1998.

15. Torres R, Gale N, Staudinger JL, Dong H, Huganir RL, Olson EN, Yancopoulos, GD. Isolation of PDZ-Containing Proteins that Interact with Eph-Related RTKs. Keystone Symposia of Molecular and Cellular Biology, Extracellular Matrix Signaling, Steamboat Springs, Colorado. (Abstract) 1998.

16. Staudinger JL, Lehmann JM, Watson MA, Kliewer S, Morris DC. The Mouse RIP140 Protein Interacts with Nuclear Receptors in an Isoform Specific Fashion. Keystone Symposia, Nuclear Receptor Gene Family, Lake Tahoe, Nevada. (Abstract) 1998.

17. Staudinger JL, Olson EN. PICK1 Binds to the COOH-terminus of PKC Through the PDZ Domain. Keystone Symposia, Specificity in Signal Transduction, Lake Tahoe, Nevada. (Abstract) 1998.

18. Staudinger JL, Olson EN, Cloning of a Novel PKCalpha-interacting Protein, 9th International Conference on Second Messengers and Phosphoproteins, Nashville, Tennessee. (Abstract) 1993.

TEACHING EXPERIENCE:

Major Teaching Interest:

My teaching interests are in mechanisms of pharmacology and toxicity of drugs. I also have an interest in teaching students related basic research methods involved in the production and use of transgenic animals, stem cells, and basic biochemical techniques. Through my graduate and postgraduate studies I developed a passion for teaching students the principles of pharmacology & toxicology as well as the key principles of basic research.

Pharmacy Lectures:

Toxicology 640
I am the Course Director for the Toxicology 640 course for pharmacy students. This course covers the general principles of toxicology, patient treatment and management of accidental poisoning, and current topics of interest.

Biotechnology 601
The topics covered in these lectures include transgenic animals, mammalian cloning, and ethical issues surrounding biotechnology, molecular genetics, and pharmacogenomics.

Pharmacology 626
I deliver lectures that cover the pharmacology of the adrenal cortex, the pharmacology of the thyroid gland, and the topics of obesity and energy metabolism.

Graduate Lectures:

Experimental Pharmacology 742
I lecture on nuclear receptor signaling pathways, the yeast two-hybrid system, and co-immunoprecipitation techniques.

Molecular Toxicology 747
I am the course director for this class that is four credit hours. The graduate students in this course attend the toxicology 627 lectures together with the pharmacy undergraduates and also participate in an 2 additional hours per week of supplementary coursework. The supplementary coursework consists of both basic laboratory sessions and didactic lectures. The laboratory sessions are designed to teach graduate students basic techniques in molecular biology such as northern, western, and southern blotting techniques. The didactic lectures cover similar topics covered in Toxicology 627 but do so in much greater detail.

SERVICE RELATED ACTIVITIES:

Department:
Safety Officer, Pharmacology and Toxicology Department, 2002-present.
Member, Faculty Search Committee, Pharmacology and Toxicology Department, 2003.
Hosted Dr. Anthony Firulli for Departmental Seminar, 2003.
Member, Faculty Search Committee, Pharmacology and Toxicology Department, 2003.
Member, Faculty Search Committee, Pharmacology and Toxicology Department, 2004.

Member, Faculty Search Committee, Pharmacology and Toxicology Department, 2005.
Director of Graduate Studies, Pharmacology and Toxicology Department, 2004-2007
Chairman, Faculty Search Committee, Pharmacology and Toxicology Department, 2005.
Hosted, Dr Angela Slitt, Pharmacology and Toxicology Department Seminar, 2007
Chairman, Faculty Search Committee, Pharmacology and Toxicology Department, 2008.
Chairman, Faculty Search Committee, Pharmacology and Toxicology Department, 2008.
Director, departmental Seminar Program, 2008-2009

School:
Member, Non-Traditional PharmD Program Admissions Committee, 2002-2009.
Director, Pharmacology and Toxicology Departmental Course Scheduling, 2002-present.
Officer, International Pharmaceutical Students Federation (IPSF) Student Exchange Program (SEP), 2005-present
Preceptor, Pharmacy Practice Rotation Program, 2004-present. Hosted (5) five Pharmacy students.
Member, Assessments Committee, 2005-2006.
Member, PharmD Program Admissions Committee, 2005-present.
Member and Sub-committee Chairman- Standards for Students, KU School of Pharmacy
Member, Faculty executive committee, 2008-present

University:
Member, Institutional Animal Care and Use Committee (IACUC). 2003-2004.
Director, Transgenic and Knockout Mouse Core Facility (TAKOM), 2004-2008
Member, Recombinant DNA Committee, 2005-present
Member, COBRE in Protein structure and Function Internal Advisory Board, 2005-present
Member, University Graduate Council, 2004-2007
Member, Faculty Appointments Committee, 2005-2007
Member, Faculty Senate, 2008-2011
Member, University Senate. 2008-2011

PROFESSIONAL SERVICE OUTSIDE THE UNIVERSITY:

National:
Session Chair and Organizer of the session on 'Genetically Modified Animals in ADME Research', 12th Annual North American Meeting, International Society for the Study of Xenobiotics (ISSX). Providence, Rhode Island (October, 2003).
Member, Editorial Advisory Board, Molecular Pharmaceutics
Reviewer, Pharmaceutical Research
Reviewer, Pharmacological reviews
Reviewer, Developmental Biology
Reviewer, Journal of Biological Chemistry (JBC)
Reviewer, Toxicology Letters
Reviewer, Molecular Pharmacology
Reviewer, Expert Opinion on Drug Metabolism and Toxicology (EMT)
Reviewer, Nuclear Receptor Signaling Atlas (NURSA)
Reviewer, Toxicological Sciences
Reviewer, Journal of Pharmacology and Experimental Therapeutics (JPET)
Reviewer, Journal of Pharmaceutical Sciences
Reviewer, Cancer Biology & Therapy

Reviewer, Nuclei Acids Research
Reviewer, Biochemical Journal
Guest Editor for Theme Issue- Liver-enriched Nuclear Receptors, Molecular Pharmaceutics, February 2008, Vol 5, number 1.
Guest Editor for Theme Issue- Disease-dug Metabolism/Drug Transport Interactions, Pharmaceutical Research, 2012
Ad hoc Reviewer, National Institutes of Health, Xenobiotic and Nutrient Disposition and Action Study Section (XNDA), 2009
Ad hoc Reviewer, National Institutes of Health, Xenobiotic and Nutrient Disposition and Action Study Section (XNDA), 2011

International:
Co-Chair, Plenary Session, Nuclear Receptors as Drug Targets for Obesity, ISSX International Meeting. Puerto Rico (2006).
Co-Chair, ISSX International Meeting. Lipid Homeostasis and Metabolic Regulation. Sendai, Japan (2007).

TRAINEES:
Graduate
Xunshan Ding-Doctoral Student, 2001-2005
Kristin Lichti-Doctoral Student, 2004-2009
Hongsheng Zhang, Masters Student, 2005-2008
Dan Brobst-Masters Student, 2003-2005
Robert Baker, Masters Student, 2006-2008
Chenshu Xu, PhD Student, 2007-2011
Mengxi Sun, PhD Student, 2010-present
Sarah Woody, PhD Student, 2011-present

Technical
Wenqi Cui, 2011-present

Post-Doctoral
Obe Omoike, 2002-2003
Kathleen Davis, 2003-2004
Dan Papa, 2005-2007
Gang Hu, 2009-2011

Undergraduate
My Luu, 2002-2004 (KU Honors Program)
Dave Swafford, 2002-2005 (Student Hourly)
Claire Binci, 2002 (Student Volunteer)
Brian Kelley, 2002 (Student Volunteer)
Kyle Kanipe, Summer 2002 (REU Program)
Kristin Lichti, Summer 2003 (Nebraska Wesleyan University, Howard Hughes Fellow)
Tony Podany, Summer 2003(Nebraska Wesleyan University, Howard Hughes Fellow)
Karel Capek, Summer 2003(REU Program)
Edlira Bashari, Summer 2003(REU Program)
Alison Mezger, 2003 (Student Hourly)
Mary Hayden, 2003-2005 (Student Hourly)
Chris Bell, 2005-present (Student Hourly)

Alison Eastwood, 2004 (Pharmacy Internship)
Joan Thompson, 2004(Pharmacy Internship)
Ray Perrenoud, 2005 (Pharmacy Internship)
Hassan Chebaro 2007-2009 (Student Hourly)
Alex Stearns 2008 (Pharmacy Elective)
WanTo Poon 2008-present (Student Hourly)
Andrea Steen 2008-2010 (Pre-med)
Alex Balmaceda 2009-present (Pre-med)
Scott Ogan 2010-present (Pre-med)
Emre Aghbas, 2011-present (Student Hourly)