Carey Pope, Ph.D.

Professor and Sitlington Endowed Chair in Toxicology
Department of Physiological Sciences
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Education:
1976: BS, Biology, Stephen F. Austin State University, TX
1979: MS, Physiology, Stephen F. Austin State University, TX
1985: Ph.D., Pharmacology/Toxicology, Texas Grad Sch Biomed Sci, TX
1986-1989: Postdoc, Neurotoxicology, USEPA Health Effects Res Lab, NC

Academic Appointments:
1989-1999: Assistant (1989-1993), Associate (1993-1998) and Full (1998-1999) Professor of Toxicology, College of Pharmacy and Health Sciences, University of Louisiana at Monroe, LA
1993-1999: Director, B.S. Toxicology Program, College of Pharmacy and Health Sciences, University of Louisiana at Monroe, LA
1995-1999: Director, Division of Toxicology, College of Pharmacy and Health Sciences, University of Louisiana at Monroe, LA
2000-present: Professor and Sitlington Endowed Chair in Toxicology, College of Veterinary Medicine, Oklahoma State University, OK
2006-2012: Head, Department of Physiological Sciences, Oklahoma State University

Awards and Honors:
2001: Pfizer Award for Research Excellence, College of Veterinary Medicine, Oklahoma State University
2001-2003: Visiting Professor, Sun Yat-Sen University of Medical Sciences, China
1996-1999: Waste Management Endowed Professor, Northeast Louisiana University
1993: Researcher of the Year, Northeast Louisiana University, LA
1993: Best Professor Award, Pharmacy Graduate Students Association, Northeast Louisiana University
1993: Scientific And Technical Achievement Award, U.S. Environmental Protection Agency
1995: Excellence Award for Interdisciplinary Scholarship, Phi Kappa Phi at Michigan State University
2005: Regents Distinguished Research Award, Oklahoma State University
2007: Regents Professor, Oklahoma State University

Other Professional Experiences and Memberships:
1996-present: Member, Food Quality Protection Act (FQPA) Board, U.S. Environmental Protection Agency, Washington, D.C.
1998-1999: President, South Central Chapter of Society of Toxicology
2001-2005: Member, Subcommittee on Toxicologic Assessment of Low-Level Exposures to Chemical Warfare Agents, National Research Council, Washington, DC.
2004- 2008: Member, Neurotoxicology and Alcohol study section, NIEHS
2003-2005: President, International Neurotoxicology Association
2004-2005: President, Neurotoxicology Section, Society of Toxicology
2008-2011: Member, Scientific Advisory Panel (SAP)

2008-2012, US Environmental Protection Agency
2012-present: Director, Interdisciplinary Toxicology Program Editorial Board
2000-present: Toxicological Sciences
1995-present: Journal of Toxicology and Environmental Health
2001-present: International Journal of Toxicology
2003-present: Toxicology
2003-present: Toxicology and Applied Pharmacology
2003-2013: Toxicology Letters
2006-present: Journal of Environmental Science and Health Part C
2007-present: NeuroToxicology
2009-present: Archives of Toxicology
1994-1997: Associate Editor, Encyclopedia of Toxicology, Volume 1

2002-2003: Associate Editor, Encyclopedia of Toxicology, Volume 2
2004-present: Associate Editor, Journal of Pharmacology and Therapeutics

Research Support:

Current:

Past:

- 2013-2017: DoD, HDTRA1-13-1-0021, "Nanocarrier-mediated Targeting of Bioscavengers to the Red Blood Cell for Prolonged Circulation and Protection", Role: PI, Awarded: $3.3M
- 2009-2014: NIEHS, R01ES009119-14, "Presynaptic modulation of anticholinesterase toxicity", Role: PI, Awarded: $1.25M
- 2011-2014: NIEHS, 5R01ES008739-14, "CBPR on Pesticide Exposure & Cognitive & Neurological Outcomes for Latinos: PACE4", Role: Co-investigator, Awarded: $117,851
- 2011-2014: NHLBI, R01 HL103988, "Augmentation of parasympathetic tone with pyridostigmine in heart failure", Role: Co-investigator, Awarded: $134,670
- 2010-2012: NINDS, 5R21NS072085, "Counteracting acute and persistent effects of organophosphate intoxication by endocannabinoids", Role: PI, Awarded: $500,000

Selected Publications:

1. Karanth, S., Liu, J., Ray, A. and Pope, C. (2007). Comparative in vivo effects of parathion on striatal acetylcholine accumulation in adult and aged rats. Toxicology 239: 167-179.
2. Howard, M., Mirajkar, N., Karanth, S. and Pope, C. (2007). Comparative effects of oral chlorpyrifos exposure on cholinesterase activity and muscarinic receptor binding in neonatal and adult heart. Toxicology 238: 157-165.
3. Liu, J., Gupta, R., Goad, J.T., Karanth, S. and Pope, C. (2007). Modulation of parathion toxicity by glucose feeding: is nitric oxide involved? Toxicol. Appl. Pharmacol. 219: 106-113.
4. Baireddy, P., Mirajkar, N., Nallapaneni, A., Singleton, N. and Pope, C. (2007). Effects of combined, multiple stressors on acute pyridostigmine toxicity in rats. Arch. Toxicol. 81: 283-289.
5. Zhang, Y., Chen, W., Zhang, J., Liu, J., Chen, G., and Pope, C. (2007). In vitro and in vivo toxicity of CdTe nanoparticles. J. Nanosci. Nanotechnol. 7: 497-503.
6. Zhang, Y., Chen, W. Wang, S., Liu, Y. and Pope, C. (2008). Phototoxicity of zinc oxide nanoparticle conjugates in human ovarian cancer NIH: OVCAR-3 cells. J. Biomed. Nanotechnol. 4: 432–438.
7. Zamora, E.M.U., Liu, J. And Pope, C. (2008). Effects of chlorpyrifos oxon on muscarinic M2 receptor internalization in different cell types. J. Toxicol. Environ. Health A 71: 1440-1447.
8. Jiang, H., Liu, S., Zhao, P., and Pope, C. (2009). Recombinant expression and biochemical characterization of the catalytic domain of acetylcholinesteraes-1 from the African malaria mosquito, Anopheles gambiae. Insect Biochem. Mol. Biol. 39: 646-653.
9. Ray, A., Liu, J., Karanth, S. Gao, Y., Brimijoin, W and Pope, C. (2009). Cholinesterase inhibition and acetylcholine accumulation following intracerebral administration of paraoxon in rats. Toxicol. Appl. Pharmacol. 236: 341-347.
10. Jiang, H., Liu, S., Zhao, P., and Pope, C. (2009). Recombinant expression and biochemical characterization of the catalytic domain of acetylcholinesteraes-1 from the African malaria mosquito, Anopheles gambiae. Insect Biochem. Mol. Biol. 39: 646-653.

11. Duarte, T., Houze, P., Risede, P., Pope, C., Scherrmann, J.-M., and Baud, F. (2010). Dosedependent effects on ventilation at rest induced by high doses of cannabinoids in rats. Acta Clinica Belgica 65 (S1): 90-99.
12. Pope C, Mechoulam R, Parsons L. (2010). Endocannabinoid signaling in neurotoxicity and neuroprotection. NeuroToxicology. 31: 562-571.
13. Wright LK, Liu J, Nallapaneni A, Pope CN. (2010). Behavioral sequelae following acute diisopropylfluorophosphate intoxication in rats: Comparative effects of atropine and cannabinomimetics. Neurotoxicol Teratol. 32: 329-335.
14. Ray A, Liu J, Ayoubi P, Pope C. (2010). Dose-related gene expression changes in forebrain following acute, low-level chlorpyrifos exposure in neonatal rats. Toxicol Appl Pharmacol. 248:144-155.
15. Yu, L., Scherlag, B.J., Dormer, K., Nguyen, K.T., Pope, C., Fung, K-M., Po, S.S. (2010). Autonomic denervation using magnetic nanoparticles. Circulation 122: 2653-2659.
16. Baireddy P, Liu J, Hinsdale M, Pope C. (2011). Comparative effects of chlorpyrifos in wild type and cannabinoid CB1 receptor knockout mice. Toxicol Appl Pharmacol. 256: 324-329.
17. Liu, J., Parsons, L., Pope, C.N. (2013). Comparative effects of parathion and chlorpyrifos on hippocampal extracellular endocannabinoid levels: influence on cholinergic toxicity. Toxicol. Appl. Pharmacol. 272: 608-615.
18. Qualls, H., Holbrook, T., Gilliam, L., Njaa, B., Panciera, R., Pope, C., Payton, M. (2013). Evaluation of three gastrointestinal protectants in an animal model of equine cantharidin toxicosis. J. Vet. Intern. Med. 27: 1179-1184.