

**Jeffrey Hughes**  
Associate Professor, Department of Pharmaceutics  
University of Florida  
Gainesville, FL 32610  
(352)-846-2725  
e-mail: hughes@cop.ufl.edu

## A. Education

<i>Degree</i>	<i>Institution</i>	<i>Field</i>	<i>Year</i>
B.S.	University of Kentucky	Pharmacy	
	1987		
Pharm.D.	University of Kentucky	Pharmacy	1988
Ph.D.	University of Kentucky	Pharmacy Sci	1992

## B. Professional Experience

08/99-present	<b>Associate Professor</b> Department of Pharmaceutics, University of Florida, Gainesville, FL 32610.
08/94-07/99	<b>Assistant Professor</b> Department of Pharmaceutics, University of Florida, Gainesville, FL 3261.
02/03-08/03	<b>Visiting Scientist</b> with Professor Jean-Paul Behr., Department of Genetic Chemistry, Louis Pasteur Institute, Strasbourg France,.

## C. Selected Publications

### Significant publications

Yadava, P., Zhang, C. Sun. J, and Hughes, J.A., Antimicrobial activities of human beta defensins against Bacillus species, International Journal of Antimicrobial Agents 2006 28 (2) 132-173

Fuchs, S., D. Buethe, et al. (2004). "Sulfhydryl based cationic surfactants and the impact of polyanions on disulfide bond formation: implications for gene transfer vectors." J Drug Target 12(6): 347-53.

Hirko A, Tang F, Hughes JA, "Cationic lipid vectors for plasmid DNA delivery' Current Medicinal Chemistry, 2003;,10(14):1185-93

.

Liang Y, Belford S, Tang F, Prokai L, Simpkins JW, Hughes JA, Membrane fluidity effects of estratrienes, *Exp Neurol* 2002 Jul;176(1):66-74

Evaluation of two cationic delivery systems for siRNA

Preeti Yadava, Daniel Roura and Jeffrey Hughes, *Oligonucleotides* ( in Press)

Gong Y., Meyer E.M., Meyers CA, Klein R.L, King, M.A., and Hughes J.A., Memory-related deficits following selective hippocampal expression of Swedish mutation amyloid precursor protein in the rat, *Experimental Neurology*, 2006, 200(2) 371-7.

Wu, K., E. M. Meyer, Hughes, J.A. and King, M.A.(2005). "AAV2/5-mediated NGF gene delivery protects septal cholinergic neurons following axotomy." *Brain Res* 1061(2): 107-13.

Hamilton, K. L., J. C. Quindry, Hughes, JA. Powers, Sl. (2004). "MnSOD antisense treatment and exercise-induced protection against arrhythmias." *Free Radic Biol Med* 37(9): 1360-8

Wu, K., C. A. Meyers, Meyers, E.M and Hughes, J.A. (2004). "Polyethylenimine-mediated NGF gene delivery protects transected septal cholinergic neurons." *Brain Res* 1008(2): 284-7.

Zhang, C., P. Yadava, and Hughes, J.A.. (2004). "Polyethylenimine strategies for plasmid delivery to brain-derived cells." *Methods* 33(2): 144-50.

#### **D. Synergistic Activities:**

1. Member of the American Society of Gene Therapy Non-viral vector board.
2. Instructor in Dr. Shah's week intensive Surfactant Course.

3

**E. List of collaborators and co-authors (last 48 months):** E. Meyer, J. Simpkins, M. King, G. Hochhaus, S. Sullivan, G. Schultz,

#### **F. Graduate advisors of the PI.:**

Doctoral advisor: Dr. Michael Jay, University of Kentucky

Post-Doctoral Advisor: Dr. Rudy Juliano, University of North Carolina

**G. Former and current doctoral students:** E. Lang (Nexus), S. Poxon (Wyeath), F Tang (Forrest Labs), B Houk (Pfizer), A, Persky (University of North Carolina), Y Gong (University of Florida), K, Ren (University of Florida) O. Patchdwada (Thailand Professor) P Yadava, M. Weide, . Y. Ren, Z. Wang