BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.
Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME	POSITION TITLE
Lee, Eun-Sook Y.	Assistant Professor
eRA COMMONS USER NAME (EunLee)	

EDUCATION/TRAINING *(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)*

INSTITUTION AND LOCATION	DEGREE *(if applicable)*	YEAR(s)	FIELD OF STUDY
Hyo-Sung University, Daegu, Korea	B.S.	1985	Pharmacy
Florida A&M University, Tallahassee, FL	Ph.D.	1999	Pharmacology
Florida A&M University, Tallahassee, FL	Postdoctoral	2005	Pharm/Toxicology

Please refer to the application instructions in order to complete sections A, B, and C of the Biographical Sketch.

A. POSITIONS AND HONORS

Research Positions and Professional Experience

2007-present Assistant Professor, Department of Neurology, Meharry Medical College, Nashville, TN
2007-present Visiting Assistant Professor, Division of Pediatric Toxicology, Vanderbilt University Medical Center, Nashville, TN
2005-2007 Research Assistant Professor, Division of Neurobiology/Neurotoxicology, Meharry Medical College, Nashville, TN
2001-2005 Adjunct Professor of Organic Chemistry, Department of Chemistry, FAMU
2000-2005 Supervisor, Neuroscience Laboratory, College of Pharmacy Florida A&M University, Tallahassee, Florida
1999-2005 Research Associate, College of Pharmacy, Florida A&M University, Tallahassee, Florida
1995-1999 Research Assistant, College of Pharmacy, Florida A&M University, Tallahassee, Florida

Honors and Awards

1984 Outstanding student scholarship, Hyo-Sung University
1997-98 Outstanding graduate student scholarship, Florida A&M University

Professional Memberships and Other Experience

1996-Present Member, Experimental Biology
1996-Present Member, Society for Neuroscience
2005-Present Reviewer, Journal of Neural Transmission
2007-Present Reviewer, Cell Biology and Toxicology

License Pharmacist (Florida, #PS38978)

B. Selected Peer-Reviewed Publications.

1. **Eun-Sook Y. Lee** and Clivel G. Charlton (2001). One-methyl-4-phenylpyridinium (MPP^+) increases S-adenosyl-L-methionine dependent phospholipid methylation: a possible mechanism of action for MPP^+. *Pharmacology, Biochemistry and Behavior* 70, 105-114.
2. Wang-Quin Zhao, Lekan Latinwo, Xiao-Xiao Liu, **Eun-Sook Lee**, Nazareus Lamango and Clivel G. Charlton (2002). L-dopa upregulates the expression and activities of methionine adenosyl transferase and catechol-O-methyltransferase. *Experimental Neurology* 171, 127-138.

3. Zhao WQ, Williams Z, Shepherd KR, Reuben JS, **Lee ES**, Darling-Reed S, Lamango N, Soliman KF, Charlton CG. (2002). S-adenosyl-methionine-induced apoptosis in PC12 cells. *J Neurosci Res*. 69:519-29.
4. **Eun-Sook Y. Lee**, Hongtao Chen, Kennie R. Shepherd, Nazarius S. Lamango, Karam. F. A. Soliman and Clivel G. Charlton. (2004). The inhibitory role of methylation on the binding characteristics of dopamine receptors and transporter. *Neuroscience Research*. 48, 335-344. →***Corresponding Author***
5. **Eun-Sook Y. Lee**, Hongtao Chen, Kennie R. Shepherd, Nazarius S.Lamango, Karam F. A. Soliman and Clivel G. Charlton (2004). Inhibitory effects of lysophosphatidylcholine on the dopaminergic system. *Neurochemical Research* 2004 29(7):1333-42. →***Corresponding Author***
6. **Eun-Sook Y. Lee**, Karam F. A. Soliman and Clivel G. Charlton (2005). Lysophosphatidylcholine decreases locomotor activities and dopamine turnover rates in rats. *Neurotoxicology*. 26, 27-38. →***Corresponding Author***
7. Nahed S. Elsisi, Selina Darling- Reed, **Eunsook Y. Lee**, Ebenezer T. Oriaku, Karam F. A. Soliman (2005). Ibuprofen and apigenin induce apoptosis and cell cycle arrest in activated microglia. *Neuroscience Letters*. 375, 91-6.
8. **Eun-Sook Y. Lee**, Hongtao Chen, Karam F.A. Soliman and Clivel G. Charlton (2005). Effects of homocysteine on the dopaminergic system and behavior in rodents. *NeuroToxicology*. 26, 361-371. →***Corresponding Author***
9. **Eun-Sook Y. Lee**, Hongtao Chen, Clivel G. Charlton and Karam F.A. Soliman (2005). The role of phospholipid methylation in 1-methyl-4-phenyl-pyridinium ion (MPP^+)-induced neurotoxicity in PC12 cells. *NeuroToxicology* 26, 945-957. →***Corresponding Author***
10. **Eun-Sook Y. Lee**, Hongtao Chen and Karam F.A. Soliman (2006). Phencyclidine suppresses neurite outgrowth and inhibits N-methyl-D-aspartate receptor functions and synthesis of biogenic amines in PC12 cells. *Neurotoxicology.* 27(4):558-66. →***Corresponding Author***
11. K. Raviie Shepherd, **Eun-Sook Y. Lee**, Larry Schmued, Syed F.Ali, Yun Jiao, Nazarius S. Lamango, Karam F.A. Soliman, and Clivel G. Charlton (2006). The potentiating effects of 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP) on paraquat-induced neurochemical and behavioral changes in mice. *Pharmacol Biochem Behav*. 83(3):349-59.
12. **Eun-Sook Lee**, Hongtao Chen, Jennifer King, Clivel Charlton (2008). The role of 3-O-methyldopa in the side effects of L-dopa. *Neurochem Res.* 33(3):401-11. →***Corresponding Author***
13. **Eun-Sook Lee**, Hongtao Chen, Chadwick Hardman, Anthony Simm, and Clivel Charlton (2008). Excessive S-Adenosyl-L-Methionine-Dependent Methylation Increases Levels of Methanol, Formaldehyde and Formic Acid in Rat Brain Striatal Homogenates. Life Sci. 2008 83(25-26):821-7. →***Corresponding Author***
14. Yun Ding, Aimin Qiao, Ziqing Wang, J. Shawn Goodwin, **Eun-Sook Lee**, Michelle L. Block, Matthew Allsbrook, Michael McDonald, and Guo-Huang Fan (2008). Retinoic Acid Attenuates beta-Amyloid Deposition and Rescues Memory Deficits in an Alzheimer Disease Transgenic Mouse Model. J Neurosci. 28(45):11622-34.
15. **Eun-Sook Lee**, Marta Sidoryk, Haiyan Jiang, Zhaobao Yin and Michael Aschner (2009). Estrogen and tamoxifen reverse manganese-induced glutamate transporter impairment in astrocytes. J Neurochem. 110(2):530-44. →***Corresponding Author***
16. **Eun-Sook Lee**, Zhaobao Yin, Haiyan Jiang, Dejan Milatovic and Michael Aschner (2009). Estrogen and tamoxifen protect against Mn-induced toxicity in rat cortical primary cultures of neurons and astrocytes. Toxicol Sci. 110(1):156-67. →***Corresponding Author***
17. Marta Sidoryk, **Eun-Sook Lee**, Jan Albrecht, Michael Aschner (2009). Manganese disrupts astrocyte glutamine transporter expression and function. J Neurochem. 110(3):822-30.
18. **Eun-Sook Lee,** Chadwick Hardman, Veronica Mackey and Clivel Charlton. Strain differences in catecholamine-O-methyltransferase and methionine adenosyltransferase activities: quantitative analysis in six strains of mice: implication of different responses to L-dopa therapy in PD patients (in preparation).

C. RESEARCH SUPPORT

ARCH Pilot Project