

BIOGRAPHICAL SKETCH

Provide the following information for the Senior/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 Lahiri, Asha Kristine		POSITION TITLE NUIN Graduate Student Department of Physiology Northwestern University	
eRA COMMONS USER NAME (credential, e.g., agency login)			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	MM/YY	FIELD OF STUDY
University of Southern California	B.A.	08/06-08/10	Neuroscience

A. Personal Statement

My research career thus far has spanned multiple disciplines, from molecular biology and cellular mechanisms of exocytosis (mentor Robert H. Chow) to immunology (mentor Adrian M. Piliponsky) to neuroscience (current mentor Mark D. Bevan). Neuroscience has always been my primary interest, specifically topics related to sensory and motor systems. As a graduate student, my goal is to elucidate mechanisms by which dopamine directly modulates the hyperdirect pathway from motor cortex to the subthalamic nucleus (STN) in healthy mice. We believe that this pathway has immediate implications in the patterning of basal ganglia activity that typifies Parkinson’s disease, and a better understanding of its normal function is likely to significantly improve our understanding of Parkinson’s pathology and potential methods of treatment.

B. Positions and Honors

Positions and Employment

2007-2008	Research Assistant (Undergraduate Research Fellow), University of Southern California
2011-2012	Research Technician II, Seattle Children’s Research Institute
2012-2013	Research Scientist I, Seattle Children’s Research Institute
2013-present	Graduate Student, Neuroscience, Northwestern University

Honors and Awards

2006-2010	National Merit Scholar
2005-2010	Presidential Scholar, University of Southern California
2012	Science Education Partnership Mentor, Fred Hutchinson Cancer Research Center

C. Peer-reviewed Publications

1. Piliponsky AM, Chen CC, Rios EJ, Treuting PM, Lahiri A, Abrink M, Pejler G, Tsai M, Galli SJ (2012). The Chymase Mouse Mast Cell Protease 4 Degrades TNF, Limits Inflammation, and Promotes Survival in a Model of Sepsis. *Am. J. Pathol.* 181(3):875-86.