

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 Shan Lu., Ph.D.	POSITION TITLE Research Scientist		
eRA COMMONS USER NAME			
EDUCATION/TRAINING (<i>Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.</i>)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
University of Utah, Salt Lake City, UT	B.S.	2010	Biomedical Engineering
Cleveland Clinic/University of Akron	Ph.D.	2015	Biology

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

A. PROFESSIONAL POSITIONS:

2008-2010 Research Assistant, Department of Biomedical Engineering and Pharmaceuticals, The University of Utah, Salt Lake City, UT
 2010-2015 Research Associate, The Cleveland Clinic, Department of Biomedical Engineering and The University of Akron, Cleveland/Akron, OH
 2016-2016 Patient Representative, Saint Lucia Hospital Management Consulting Company, Cleveland, OH
 2017- Research Scientist, Institute of Metabolic Disorders, Medical Diagnostic Laboratories, Hamilton, NJ

PROFESSIONAL AWARDS AND HONORS:

2005- Student member of The American Society for Pharmacology and Experimental Therapeutics (ASPET)

B. PUBLICATIONS:

1. Lu S, Morris VB, Labhasetwar V. Codelivery of DNA and siRNA via Arginine-Rich PEI-Based Polyplexes. *Mol Pharm.* 2015 Feb 2;12(2):621-9
2. Lu S, Labhasetwar V. Drug Resistant Breast Cancer Cell Line Displays Cancer Stem Cell Phenotype and Responds Sensitively to Epigenetic Drug SAHA. *Drug Deliv Transl Res.* 2013 Apr 1;3(2):183-194
3. Vijayaraghavalu S, Peetla C, Lu S, and Labhasetwar V. Epigenetic Modulation of the Biophysical Properties of Drug-Resistant Cell Lipids to Restore Drug Transport and Endocytic Functions. *Mol Pharm.* 2012 Sep 4;9(9):2730-42
4. Falconer J, Jones C, Lu S, and Grainger WG. Carbon Nanomaterials Rescue Phenanthrene Toxicity in Zebrafish Embryo Cultures. *Environ. Sci.: Nano*, 2015, 2, 645-652
5. He N, Park KT, Zhang YX, Huang JS, Lu S and Wang L (2008) Epigenetic Inhibition of Nuclear Receptor SHP is Associated with and Regulates Hepatocellular Carcinoma Growth. *Gastroenterology* 134:793-802
6. Lu S, Morris VB, Labhasetwar V. Effective siRNA Delivery via Polyethylenimine-based Polyplexes. (in preparation)
7. Lu S, Labhasetwar V. Overcome Drug Resistance through Epigenetic Drug Combinations and Understanding the Underlying Mechanisms. (in preparation)

PRESENTATIONS:

Lu S, Morris VB, Labhasetwar V., Codelivery of DNA and siRNA via Arginine-Rich PEI-Based Polyplexes. Cleveland Clinic Research Day, Cleveland, OH, 2015

Lu S, Morris VB, Labhasetwar V. Effective siRNA Delivery via Polyethylenimine-based Polyplexes. Cleveland Clinic Research Day Cleveland Clinic Research Day, Cleveland Clinic, OH, 2014

Lu S, Morris VB, Labhasetwar V., Effective siRNA Delivery via Polyethylenimine-based Polyplexes. Biomaterials Day. Cleveland, OH, 2014