NAME	POSITION TITLE
Venkataramana K. Sidhaye	Associate Professor, Pulmonary and Critical Care

Professional Preparation

INSTITUTION AND LOCATION	DEGREE *(if applicable)*	YEAR(s)	FIELD OF STUDY
Northwestern University, Evanston, IL	BS	1991-1995	Biomedical Engineering
Northwestern University Medical School, Chicago, IL	MD	1994-1998	Medicine

(b) Appointments

2016-current: Associate Professor, Division of Pulmonary and Critical Care Medicine, Dept. of Medicine, Johns Hopkins
2009-2016: Assistant Professor, Division of Pulmonary and Critical Care Medicine, Dept. of Medicine, Johns Hopkins
2006-2008: Instructor, Division of Pulmonary and Critical Care Medicine, Dept. of Medicine, Johns Hopkins
2002-2006: Postdoctoral Fellow, Laboratory of Dr. Landon King, Associate Professor of Medicine and Biological Chemistry, Johns Hopkins 1998-2001: Internal Medicine Residency, Northwestern University
2002-2006: Fellow, Division of Pulmonary and Critical Care Medicine, Dept. of Medicine, Johns Hopkins
2001-2002: Chief Residency, Instructor, Department of Medicine, Northwestern University

(c) Selected peer review publications

1. Brune KA, Ferreira F, Mandke P, Chau E, Aggarwal NR, D'Alessio FR, Lambert AA, Kirk G, Blankson JM. Drummond MB, Tsibris AM, **Sidhaye V**. "HIV impairs lung epithelial integrity and enters the epithelium to promote chronic lung inflammation" PLoSOne 2016 Mar 1; 11(3):e0149679. doi: 10.1371/journal.pone.0149679
2. **Sidhaye VK**., Chau E, Srivastava V, Sirimalle S, Balabhadrapatruni C, Aggarwal NR, D'Alessio FR, King LS "A novel role for aquaporin-5 in enhancing microtubule polymerization" *PLoS One* 2012;7(6):e38717.
3. Chau E, Galloway JF, Nelson A, Breysse PN, Wirtz D, Searson PC, **Sidhaye VK** "Effect of modifying quantum dot surface charge on airway epithelial cell uptake in vitro." Nanotoxicology. 2012 Aug 20
4. **Sidhaye VK**, Chau E, Breysse PN, King LS "Septin-2 mediates airway epithelial barrier function in physiologic and pathologic conditions." American Journal of Respiratory Cell and Molecular Biology. epub September 24, 2010
5. **Sidhaye, V.K**, Schweitzer K, Caterina, M.J, Shimoda, L, King, L.S, "Shear stress regulates AQP5 and airway epithelial barrier function." Proc.Natl.Acad.Sci (USA) 2008 Mar 4:105(9):3345-3350.

Other publications

6. Leggett K, Maylor J, Undem C, Lai N, Lu W, Schweitzer K, King LS, Myers AC, Sylvester JT, **Sidhaye V**, Shimoda LA." Hypoxia-induced migration in pulmonary arterial smooth muscle cells requires calcium-dependent upregulation of aquaporin 1." Am J Physiol Lung Cell Mol Physiol. 2012 Aug 15;303(4):L343-53.
7. FR D'Alessio, K Tsushima, NR Aggarwal, DC Files, BT Garibaldi, JV Rodriguez, **VK Sidhaye**, SP Reddy, PM Hassoun, MT Crow, LS King. "Resolution of experimental lung injury by Monocyte-derived inducible nitric oxide synthase (iNOS) "J Immunol. 2012 Sep 1;189(5):2234-45
8. Hansel NN, **Sidhaye V**, Rafaels NM, Gao L, Gao P, Williams R, Connet JE, Beaty TH, Mathias RA, Wise RA, King LS, Barnes KC. Aquaporin 5 polymorphisms and rate of lung function decline in chronic obstructive pulmonary disease. *PLoS ONE,* epub November 2010
9. **Sidhaye, V.K**, Guler, A.D., Schweitzer, K.S., D'Alessio, F., Caterina, M.J., King, L.S., "TRPV4 regulates aquaporin-5 abundance under hypotonic conditions" Proc.Natl.Acad.Sci (USA) 2006 Mar 21;103(12):4747-52.
10. **Sidhaye, V.K**, Hoffert, J. D., and King, L. S. "cAMP has distinct acute and chronic effects on aquaporin-5 in lung epithelial cells" J Biol Chem 280:3590-3596, 2005

(d) Synergistic Activities

1. Associate Fellowship Program Director, Pulmonary and Critical Care Medicine. Involved in training, organization and running of the fellowship program in our division at Johns Hopkins, with a primary role in

oversight of the research education and experience of fellows in the division.

2. Associate Director of the Physician-Scientist Pathway, Johns Hopkins School of Medicine Osler Residency Program. Involved in the recruitment, retention, and training of physician-scientists amongst residents in Internal Medicine at Johns Hopkins University School of Medicine. p program in our division at Johns Hopkins, with a primary role in oversight of the research education and experience of fellows in the division.
3. Involved in the NIH sponsored Short-term training program to increase diversity in health-related research (R25 HL084762) as a research mentor.

(e) Collaborators & Other Affiliations
Collaborators and Co-Editors.
Aggarwal, N, NIH.
Biswal, S; Blankson, J; D'Alessio, F; Kirk, G; Robinson, D; Johns Hopkins University.
Drummond, MB; University of North Carolina
Koval, M Emory University; Sopori, M Lovelace Institute
Graduate and Postdoctoral Advisors.
Agre, Peter and King, Landon, Johns Hopkins University

Post-doctoral Advisees/Mentees (total 6)

7/10-6/12	Sonali Bose, MD, Assistant Professor, Johns Hopkins Division of Pulmonary and Critical Care Medicine
7/11-6/12	Srinivas Sirimalle , MD, private practice, San Diego, CA, shared publication: OR 14
7/13-present	Kieran Brune, MD, post-doctoral fellow, Johns Hopkins Pulmonary and Critical Care Medicine, shared publication: OR 27, RA 1
7/14-present	Corrine Kliment, MD, PhD, post-doctoral fellow, Pulmonary and Critical Care Medicine

Thesis committees

1/17/11	Saumendra Bajpai, The Mechanics of Cell-Cell and Cell-Stroma Interactions during cancer progression in human cells. Department of Chemical and Biomolecular Engineering Defense Panel Member