

BIOGRAPHICAL SKETCH

Surya Nauli	POSITION TITLE	
	Professor of Biomedical and Pharmaceutical Sciences	
EDUCATION/TRAINING		
INSTITUTION AND LOCATION	DEGREE	FIELD OF STUDY
Minnesota State University, Mankato, MN	B.Sc.	Biotechnology & Chemistry
Loma Linda University, Loma Linda, CA	Ph.D.	Pharmacology/Physiology
Harvard Medical School, Boston, MA	NIH Fellow	Cilia Biology

A. Positions and Honors

Professional positions:

2004-2006	Instructor in Medicine	Department of Medicine, Harvard Medical School, MA
2006-2010	Assistant Professor	Department of Pharmacology, University of Toledo, Toledo, OH Department of Medicine, University of Toledo, Toledo, OH
2010-2014	Associate Professor	Department of Pharmacology, University of Toledo, Toledo, OH Department of Medicine, University of Toledo, Toledo, OH
2014-present	Professor	Department of Biomedical and Pharmaceutical Sciences, Chapman University, Irvine, CA

B. Selected Peer-reviewed Publication (selected from over 70 peer-reviewed articles)

1. **Nauli SM**, Alenghat FJ, Luo Y, Williams E, Vassilev P, Li X, Elia AE, Lu W, Brown EM, Quinn SJ, Ingber DE, Zhou J. Polycystins 1 and 2 mediate mechanosensation in the primary cilium of kidney cells. Nat Genet. 2003 Feb;33(2):129-37. [**FAST BREAKING PAPERS**, ISI Essential Science Indicators, December 2003]
2. **Nauli SM**, Rossetti S, Kolb RJ, Alenghat FJ, Consugar MB, Harris PC, Ingber DE, Loghman-Adham M, Zhou J. Loss of polycystin-1 in human cyst-lining epithelia leads to ciliary dysfunction. J Am Soc Nephrol. 2006 Apr;17(4):1015-25.
3. **Nauli SM**, Kawanabe Y, Kaminski JJ, Pearce WJ, Ingber DE, Zhou J. Endothelial cilia are fluid-shear sensors that regulate calcium signaling and nitric oxide production through polycystin-1. Circulation. 2008 Mar 4;117(9):1161-71.
4. AbouAlaiwi WA, Takahashi M, Mell BR, Jones TJ, Ratnam S, Kolb RJ, **Nauli SM**. Ciliary polycystin-2 is a mechanosensitive calcium channel involved in nitric oxide signaling cascades. Circ Res. 2009 Apr 10;104(7):860-9. [**FEATURED IN THE FRONT PAGE JOURNAL**]
5. AbouAlaiwi WA, Zhang Z, Ratnam S, Booth RL, Shah JV, **Nauli SM**. Endothelial cells from humans and mice with polycystic kidney disease are characterized by polyploidy and chromosome segregation defects through survivin down-regulation. Hum Mol Genet. 2011 Jan 15;20(2):354-67. [**FEATURED IN THE FRONT PAGE JOURNAL**]
6. Egorova AD, Khedoe PP, Goumans MJ, Yoder BK, **Nauli SM**, Ten Dijke P, Poelmann RE, Hierck BP. Lack of Primary Cilia Primes Shear-Induced Endothelial-to-Mesenchymal Transition. Circ Res. 2011 Apr 29;108(9):1093-101.

7. Abdul-Majeed S, **Nauli SM**. Dopamine receptor type 5 in the primary cilia has dual chemo- and mechano-Sensory Roles. *Hypertension*. 2011 Aug;58(2):325-31.
8. Gopalakrishnan K, Kumarasamy S, Abdul-Majeed S, Kalinoski AL, Morgan EE, Gohara AF, **Nauli SM**, Filipiak WE, Saunders TL, Joe B. Targeted disruption of Adamts16 gene in a rat genetic model of hypertension. *Proc Natl Acad Sci U S A*. 2012 Dec 11;109(50):20555-9.
9. Nesamony J, Zachar CL, Jung R, Williams FE, **Nauli S**. Preparation, characterization, sterility validation, and in vitro cell toxicity studies of microemulsions possessing potential parenteral applications. *Drug Dev Ind Pharm*. 2013 Feb;39(2):240-51.
10. **Nauli SM**, Jin X, AbouAlaiwi WA, El-Jouni W, Su X, Zhou J. Non-motile primary cilia as fluid shear stress mechanosensors. *Methods Enzymol*. 2013;525:1-20.
11. Kathem SH, Mohieldin AM, Abdul-Majeed S, Ismail SH, Altaei QH, Alshimmari IK, Alsaidi MM, Khammas H, Nauli AM, Joe B, **Nauli SM**. Ciliotherapy: a novel intervention in polycystic kidney disease. *J Geriatr Cardiol*. 2014; 11: 63-73.
12. Aboualaiwi WA, Muntean BS, Ratnam S, Joe B, Liu L, Booth RL, Rodriguez I, Herbert BS, Bacallao RL, Fruttiger M, Mak TW, Zhou J, **Nauli SM**. Survivin-induced abnormal ploidy contributes to cystic kidney and aneurysm formation. *Circulation*. 2014 Feb 11;129(6):660-72.
13. Upadhyay VS, Muntean BS, Kathem SH, Hwang JJ, Aboualaiwi WA, **Nauli SM**. Roles of dopamine receptor on chemosensory and mechanosensory primary cilia in renal epithelial cells. *Front Physiol*. 2014 Feb 26;5:72.
14. Jin X, Mohieldin AM, Muntean BS, Green JA, Shah JV, Mykytyn K, **Nauli SM**. Cilioplasm is a cellular compartment for calcium signaling in response to mechanical and chemical stimuli. *Cell Mol Life Sci*. 2014 Jun;71(11):2165-78.
15. Mohieldin AM, Haymour HS, Lo ST, AbouAlaiwi WA, Atkinson KF, Ward CJ, Gao M, Wessely O, **Nauli SM**. Protein composition and movements of membrane swellings associated with primary cilia. *Cell Mol Life Sci*. 2015 [In Press].