

Anitha Kota Shenoy

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CURRENT POSITION

Assistant Professor

August 2016- Present

Department of Pharmaceutical and Biomedical Sciences
California Health Sciences University, Clovis, CA

Courses Taught: 1. PHR 734 (Pharmacology IV) [Course Director and Instructor]
2. PHR 532 (Principles of Drug Action-I) [Course Director and Instructor]
3. PHR 511 (Biochemistry) [Instructor]
4. PHR 634 (Principles of Drug Action-II) [Instructor]
5. PHR 735 (Principles of Drug Action-IV) [Course Director and Instructor] and
6. PHR 781P (Pharmacogenomics and Precision Medicine- Elective) [Co-Course Director and Instructor]

Research Topic: 1. To evaluate the effects of active dietary ingredients such as Curcumin, Capsaicin, and Sodium Butyrate on cancer metastasis.
2. Role of FABP3 in Cancer Progression
3. Role of Wnt Signaling in Cancer Progression, Cancer Stem Cell Survival and Metastasis

Professional Service: 1. Member of Student Affairs Committee (2016-2017)
2. Member of Professionalism and Leadership Committee (PLC) (2017-2018)
3. Chair of one of the ACPE Self-Study Groups (2017-2018)
4. Chair of Awards and Recognition Committee (ARC) (2017-2019)
5. Member of Curriculum Committee (CC) (2018-2019)
6. Faculty Advisor for CAPSLEAD- CHSU (2018-2019)
7. Class Advisor of Pharm. D 2021 class
8. Chair of DPBS Chair Search Committee (2018-2019)

EXPERIENCE

Postdoctoral Associate

March 2016- July 2016

Department of Anatomy and Cell Biology

University of Florida

PI: Dr. Shuang Huang

Research Topic: Role of Rac and Wnt ligands in Endothelial to Mesenchymal Transition (EMT) in high grade serous ovarian cancer

Postdoctoral Associate

August 2012- February 2016

Department of Biochemistry and Molecular biology

University of Florida

PI: Dr. Jianrong Lu

Research Topic: 1. Role of EMT in tumor vascular stabilization and tumor growth.
2. Role of EMT in lung fibrosis

Postdoctoral Associate

May 2012- July 2012 University of Florida

Department of Surgery

University of Florida

PI: Dr. Emina Huang

Research Topic: Mutational analysis of prevalent oncogenes in patient samples of colitis and colorectal cancer

EDUCATION

Ph.D.

2007 – 2012 University of Florida

PhD in Molecular Cell Biology, May 2012

Major advisor: Dr. Edward Scott

Graduate Research: Role of Wnt signaling in colitis-to-cancer transition based on cancer stem cell model.

Master Degree

1999-2002 Manipal academy of Higher Education

Manipal, Karnataka, India

Master of Science Degree, May 2002

Major: Medical Biochemistry

Bachelor Degree

1996-1999 Vidhya Vardhaka Sangha, First Grade College for Women

Bangalore University, Bangalore India

Bachelor of Science Degree, May 1999

Major: Physics, Chemistry and Mathematics

TEACHING EXPERIENCE

Lecturer

Sri Devraj Urs Medical College, Kolar, India

- Conducted theoretical and laboratory course work in Biochemistry for first year Medical and Nursing students (08/2002 -02/2005)

- Designed and presented lectures, designed and graded exams, graded lab reports and guided students in experiments.

DEVELOPMENTAL/ TRAINING PROGRAMS ATTENDED

1. **Teaching Institute (Aug 8th- 10th 2016)** - Training on Process Education conducted by Dan Apple at CHSU
2. **Test2Learn™ Community-Based Pharmacogenomics Certificate training offered by NACDS** (April 27th and 28th 2017 hosted by Chapman University)
3. **Train the trainer, Pharmacogenomics offered by NACDS** (April 27th and 28th 2017 hosted by Chapman University)
4. **Asset Based Community Development Training** (Nov 19th 2018)

PROFESSIONAL AFFILIATIONS

2016-Present- American Association of Colleges of Pharmacy (AACP)

2010-Present - American Association of Cancer Research (AACR), Associate member

2010-Present - Women in Cancer Research (WICR)

AWARDS AND HONORS

- Gold Medalist (First Rank with 7 Gold Medals) in BS, Bangalore University

- Best clinical and translational science abstract (Oral presentation), Department of Surgery Research Day 2010, University of Florida

- CHSU Faculty Advisor of the year Award (2017-2018)

GRANT SUPPORT

CHSU Seed Fund Award: Canonical Wnt Signaling Promotes Vascular Destabilization and Metastasis in Breast Cancer by Directly Activating Angiopoietin-2 Expression (7/1/2017- 6/30/2020). Total grant: \$15,000. Role: Principal Investigator.

PUBLICATIONS

- Chen C, **Shenoy AK**, Padia R, Fang D, Jing Q, Yang P, Su SB, Huang S. Suppression of lung cancer progression by isoliquiritigenin through its metabolite 2, 4, 2', 4'-Tetrahydroxychalcone. *J Exp Clin Cancer Res.* 2018 Oct 3;37(1):243. doi: 10.1186/s13046-018-0902-4.
- Patra A, Satpathy S, **Shenoy AK**, Bush JA, Kazi M, Hussain MD. Formulation and evaluation of mixed polymeric micelles of quercetin for treatment of breast, ovarian, and multidrug resistant cancers. *Int J Nanomedicine.* 2018 May 16; 13:2869-2881. doi: 10.2147/IJN.S153094. eCollection 2018.
- Lu J, **Shenoy AK**. Epithelial-to-Pericyte transition in cancer. *Cancers (Basel).* 2017; 9 (7) pii: E77. DOI: 10.3390/cancers9070077.
- **Shenoy AK**, Lu J. Relevance of epithelial-to-pericyte transition in cancer. *Molecular and Cellular Oncology.* 2016 DOI: 10.1080/23723556.2016.1260672
- **Shenoy AK**, Jin Y, Luo H, Tang M, Pampo C, Shao R, Siemann DW, Wu L, Heldermon CD, Law BK, Chang LJ, Lu J. Epithelial-to-Mesenchymal transition confers pericyte properties on cancer cells. *Journal of Clinical Investigation.* 2016; 126 (11): 4174-4186
- **Shenoy AK**, Lu J. Cancer cells remodel themselves and vasculature to overcome the endothelial barrier. *Cancer Lett.* 2016; 380 (2): 534-44
- Luo H, **Shenoy AK**, Li X, Jin Y, Jin L, Cai Q, Tang M, Liu Y, Chen H, Reisman D, Wu L, Seto E, Qiu Yi, Dou Y, Casero Jr RA, Lu J. MOF acetylates the histone demethylase LSD1 to suppress epithelial-to-mesenchymal transition. *Cell Reports.* 2016; 15(12): 2665-78
- Jin Y, Cai Q, **Shenoy AK**, Lim S, Zhang Y, Charles S, Tarrash M, Fu X, Kamarajugadda S, Trevino JG, Tan M, Lu J. Src drives the Warburg effect and therapy resistance by inactivating pyruvate dehydrogenase through tyrosine-289 phosphorylation. *Oncotarget.* 2016; 7(18): 25113-24
- Chen S, Fisher RC, Signs S, Molina A, **Shenoy AK**, Lopez MC, Baker HV et al., Inhibition of PI3K/Akt/mTOR signaling in PI3KR2-overexpressing colon cancer stem cells reduces tumor growth due to apoptosis. *Oncotarget.* 2016; DOI: 10.18632/oncotarget.9919. [Epub ahead of print]
- Jin Y, **Shenoy AK**, Doernberg S, Chen H, Luo H, Shen H, Lin T, Tarrash M, et al., FBXO11 promotes ubiquitination of the Snail family of transcription factors in cancer progression and epidermal development. *Cancer Letters.* 2015; 362 (1): 70-82
- Tang M, Shen H, Jin Y, Lin T, Cai Q, Pinard MA, Biswas S, Tran Q, Li G, **Shenoy AK**, Tongdee E, et al., The Malignant Brain Tumor (MBT) Domain Protein SFMBT1 Is an Integral Histone Reader Subunit of the LSD1 Demethylase Complex for Chromatin Association and Epithelial-to-mesenchymal Transition. *J Biol Chem.* 2013; 288(38): 27680-27691

- **Shenoy AK**, Butterworth E, Huang EH. ALDH as a marker for enriching tumorigenic human colonic stem cells. *Methods Mol Biol.* 2012; 916: 373- 385
- **Shenoy AK**, Fisher RC, Butterworth EA, Pi L, Chang L, Appelman HD, Chang M, Scott EW, Huang EH. Colitis-to-Cancer Transition: High WntActivity Confers Sustained Tumor-Initiating Potential on Human Precursor-Colon Cancer Stem Cells. *Cancer Research.* 2012; 72(19): 5091-5100
- Pi L, **Shenoy AK**, Liu J, Kim S, Nelson N, Hauswirth WW, Petersen BE, GS, Scott EW. CCN2/CTGF regulates neovessel formation via binding structurally conserved cystine knot motifs in multiple angiogenic regulators. *FASEB.* 2012; 26(8): 3365-3379
- Pi L, Xia H, Liu J, **Shenoy AK**, Hauswirth WW, Scott EW. Role of connective tissue growth factor in the retinal vasculature during development and ischemia. *Invest Ophthalmol Vis Sci.* 2011; 52(12): 8701-8710
- Madlambayan G.J, Butler J. M, Hosaka K, Jorgensen M, Fu D, Guthrie S. M, **Shenoy AK**, Brank A, et al., Bone marrow stem and progenitor cell contribution to neovasculogenesis is dependent on model system with SDF-1 as a permissive trigger. *Blood,* 2009; 114(19): 4310-4319
- Shashidhar KN, Kunder M, **Shenoy KA**, Hemalatha A, Kutty A, Shetty H. Hypermagnesemia in diabetic end stage renal disease (ESRD) patients. *Indian J Clin Biochem.* 2007 Sep;22 (2):164. doi: 10.1007/BF02913339.

ABSTRACTS AND PRESENTATIONS

- A. Nalbandyan, D. Le, **A. Shenoy**, U.M. Stecklings, M. Katovich, V. Shenoy. Compound 21 (C21), a selective Angiotensin Type 2 (AT2) receptor agonist attenuates bleomycin-induced alveolar epithelial cell death. Experimental Biology. April 2018, San Diego, California.
- J. Lu , Y.Jin , **A.K. Shenoy**, H. Chen, H. Luo, L. Wu, K. Mohammed. FBXO11 suppresses epithelial plasticity and proliferation by ubiquitinating the Snail family of transcription factors. American Association of Cancer Research 106th annual meeting. April 2015, Philadelphia, Pennsylvania.
- **A.K. Shenoy**, M.Tang, Y.Jin, H. Luo, Q. Cai, L.J.Chang, C. Pampo, D.W.Siemen, J. Lu Tumor Cells Undergoing EMT Exhibit Pericyte-Like- Characteristics. Cancer Research Poster Day. 2014 University of Florida
- S. Chen, R.C. Fisher, **A.K. Shenoy**, M.C. Lopez, L.L.Moldawer, H.V. Baker, E.H. Huang Phosphoinositide-3-kinase pathway promotes colon cancer stem cell proliferation. American Association of Cancer Research 104th annual meeting. April 2013, Washington D.C, USA.
- **A.K. Shenoy**, E.W.Scott, E.H. Huang. p53 mutation at codon 273 in colorectal cancer and colitis-derived ALDHhigh cells promotes sphere formation in vitro. American Association of Cancer Research 103rd annual meeting. March 2012. Chicago, Illinois
- L. Pi, J. Liu, **A. Shenoy**, P. Robinson, D. Gibson, G. Schultz, E. Scott. Connective Tissue Growth Factor Regulates Neovessel Formation via Targeting Structurally Conserved Cystine Knot Motifs in Multiple Angiogenic Regulators. The Association for Research in Vision and Ophthalmology. May 2012. Fort Lauderdale, Florida
- **A.K. Shenoy**, E.W.Scott, E.H. Huang. Wnt signaling in colitis derived colon cancer initiating cells promotes the tumorigenicity in colitis to cancer transition. American Association of Cancer Research 102nd annual meeting. April 2011, Orlando, Florida
- L. Pi, **A. Shenoy**, B. Petersen, R. Fisher, L. Dang, E. Huang, E. Scott. Connective tissue growth factor promotes tumor angiogenesis by modulating multiple angiogenic factors via binding to cystine knot motifs. American Association of Cancer Research 102nd annual meeting. April 2011, Orlando, Florida

- **A.K. Shenoy**, E.W.Scott, E.H. Huang. Wnt signaling pathway reporter: A dual fusion construct to isolate and image colon cancer initiating cells. American Association of Cancer Research 101st annual meeting. April 2010, Washington, DC, Florida
- **A.K. Shenoy**, A.V.M. Kutty. Biochemical analysis of serum and saliva in patients suffering from Psoriasis. Annual Conference of Association of Clinical Biochemists of India 2004. NIMHANS, Bangalore, India.