Stanford

Vivek Nanda

Instructor, Surgery - Vascular Surgery

Bio

BIO

I am interesting in identifying the heritable component of a wide range of cardiovascular diseases which include coronary artery disease and peripheral artery disease. To this end, I am involved in utilizing genome-wide genetic and bioinformatics approaches to identify loci responsible for disease, and thereafter validating these findings by implementing a variety of molecular genetics, molecular biology and transgenic mouse models to explain the vascular biology of the identified gene or pathway.

ACADEMIC APPOINTMENTS

- Instructor, Surgery - Vascular Surgery

HONORS AND AWARDS

- Postdoctoral Fellowship, Role: Principal Investigator, American Heart Association (2015-2017)
- Jay D. Coffman Young Investigator Award Winner, Society for Vascular Medicine (2015)
- Postdoctoral Travel Award, Cardiovascular Institute, Stanford University (2015)
- Top Scoring Abstract, Arteriosclerosis Thrombosis Vascular Biology (2015)
- Young Investigator Travel Award, Arteriosclerosis Thrombosis Vascular Biology (2015)
- Dean’s List Academic Honors, Rochester Institute of Technology (2002-2005)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Early Career Member, National Postdoctoral Association (2014 - present)
- Early Career Member, American Heart Association (2010 - present)

Publications

PUBLICATIONS

- **Proefferocytic Therapy Promotes Transforming Growth Factor-beta Signaling and Prevents Aneurysm Formation** *CIRCULATION*
  Kojima, Y., Werner, N., Ye, J., Nanda, V., Tsao, N., Wang, Y., Flores, A. M., Miller, C. L., Weissman, I., Deng, H., Xu, B., Dalman, R. L., Eken, et al
  2018; 137 (7): 750–53

- **Functional regulatory mechanism of smooth muscle cell-restricted LMOD1 coronary artery disease locus.** *PLoS genetics*
  Nanda, V., Wang, T., Pjanic, M., Liu, B., Nguyen, T., Matic, L. P., Hedin, U., Koplev, S., Ma, L., Franzén, O., Ruusalepp, A., Schadt, E. E., Björkegren, et al
  2018; 14 (11): e1007755

- **CD47-blocking antibodies restore phagocytosis and prevent atherosclerosis.** *Nature*
  Kojima, Y., Volkmer, J., McKenna, K., Civelek, M., Lusis, A. J., Miller, C. L., DiRenzo, D., Nanda, V., Ye, J., Connolly, A. J., Schadt, E. E., Quertermous, T., Betancur, et al
  2016; 536 (7614): 86-90

- **De Novo and Rare Variants at Multiple Loci Support the Oligogenic Origins of Atrioventricular Septal Heart Defects.** *PLoS genetics*

Priest, J. R., Osoegawa, K., Mohammed, N., Nanda, V., Kundu, R., Schultz, K., Lammer, E. J., Girirajan, S., Scheetz, T., Waggott, D., Haddad, F., Reddy, S., Bernstein, et al

2016; 12 (4)

- **CDKN2B Regulates TGFß Signaling and Smooth Muscle Cell Investment of Hypoxic Neovessels.** *Circulation research*

  Nanda, V., Downing, K. P., Ye, J., Xiao, S., Kojima, Y., Spin, J. M., DiRenzo, D., Nead, K. T., Connolly, A. J., Dandona, S., Perisic, L., Hedin, U., Maegdefessel, et al

  2016; 118 (2): 230-240

- **Coronary Artery Disease Associated Transcription Factor TCF21 Regulates Smooth Muscle Precursor Cells that Contribute to the Fibrous Cap.** *Genomics data*

  Nurnberg, S. T., Cheng, K., Raiesdana, A., Kundu, R., MILLER, C. L., Kim, J. B., Arora, K., Carcamo-Oribe, I., Xiong, Y., Tellakula, N., Nanda, V., Murthy, N., Boisvert, et al

  2015; 5: 36-37

- **Coronary Artery Disease Associated Transcription Factor TCF21 Regulates Smooth Muscle Precursor Cells That Contribute to the Fibrous Cap.** *PLoS genetics*

  Nurnberg, S. T., Cheng, K., Raiesdana, A., Kundu, R., Miller, C. L., Kim, J. B., Arora, K., Carcamo-Oribe, I., Xiong, Y., Tellakula, N., Nanda, V., Murthy, N., Boisvert, et al

  2015; 11 (5)

- **Coronary Artery Disease Associated Transcription Factor TCF21 Regulates Smooth Muscle Precursor Cells That Contribute to the Fibrous Cap** *PLOS GENETICS*

  Nurnberg, S. T., Cheng, K., Raiesdana, A., Kundu, R., Miller, C. L., Kim, J. B., Arora, K., Carcamo-Oribe, I., Xiong, Y., Tellakula, N., Nanda, V., Murthy, N., Boisvert, et al

  2015; 11 (5)

- **Identification and Initial Functional Characterization of a Human Vascular Cell-Enriched Long Noncoding RNA** *ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY*

  Bell, R. D., Long, X., Lin, M., Bergmann, J. H., Nanda, V., Cowan, S. L., Zhou, Q., Han, Y., Spector, D. L., Zheng, D., Miano, J. M.

  2014; 34 (6): 1249-1259

- **Leiomodin 1, a New Serum Response Factor-dependent Target Gene Expressed Preferentially in Differentiated Smooth Muscle Cells** *JOURNAL OF BIOLOGICAL CHEMISTRY*

  Nanda, V., Miano, J. M.

  2012; 287 (4): 2459-2467

- **Expression and functional activity of four myocardin isoforms** *GENE*

  Imamura, M., Long, X., Nanda, V., Miano, J. M.

  2010; 464 (1-2): 1-10

PRESENTATIONS

- CDKN2B regulates ischemic blood vessel maturation - Society of Vascular Medicine, 2015
- CDKN2B mediates TGF#1i1 regulated smooth muscle cell recruitment to hypoxic neo blood vessels - Arteriosclerosis Thrombosis Vascular Biology. 2015