

Stanford



Anandi Krishnan

Instructor, Pathology

Bio

ACADEMIC APPOINTMENTS

- Instructor, Pathology

HONORS AND AWARDS

- Clinical Scientist Career Development Award (K08), National Human Genome Research Institute (2018)
- Diversity/Research Reentry Award, National Center for Advancing Translational Sciences (2016)
- Bugher Foundation Postdoctoral Fellowship, American Heart Association (2008)
- Council of Graduate Schools Dissertation Award, The Pennsylvania State University (2005)
- Outstanding Scholarship in Doctoral Research, American Vacuum Society (2005)
- Focused Giving Grant for Graduate Research, Johnson & Johnson Ethicon (2003)

PROFESSIONAL EDUCATION

- Stroke Research Fellow, RNA aptamers and Regulatable Anticoagulation , Duke University (2012)
- Fellow, Duke Clinical Research Training Program , Duke University (2011)
- Postdoctoral Fellow, Heart & Vascular Institute, Penn State College of Medicine , Penn State University (2008)
- PhD, Bioengineering (an interdisciplinary program in the biosciences) , Penn State University (2005)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dr. Krishnan's current interests are in the transcriptional and epigenetic mechanisms of blood cell function and dysfunction in human disease. Her primary focus is on blood platelets with multifaceted function in cancer, inflammation or immunity; beyond their classical role in hemostasis and thrombosis.

In the long term, her work aims to develop clinically-meaningful relationships between patient genomic variation, disease-specific transcriptomic variation, and clinical phenotype in hematological diseases.

Publications

PUBLICATIONS

- **Platelet Transcriptomic Signatures in Myeloproliferative Neoplasms; *Blood* 130: 5288, 2017** *Blood*
Krishnan, A., Perkins, C., Gotlib, J., Zehnder, J. L.
2017; 130 (5288)

- **The effect of surface contact activation and temperature on plasma coagulation with an RNA aptamer directed against factor IXa** *JOURNAL OF THROMBOSIS AND THROMBOLYSIS*
Krishnan, A., Vogler, E. A., Sullenger, B. A., Becker, R. C.
2013; 35 (1): 48-56
- **Effects of limb posture on reactive hyperemia** *EUROPEAN JOURNAL OF APPLIED PHYSIOLOGY*
Krishnan, A., Lucassen, E. B., Hogeman, C., Blaha, C., Leuenberger, U. A.
2011; 111 (7): 1415-1420
- **Volumetric interpretation of protein adsorption: Interfacial packing of protein adsorbed to hydrophobic surfaces from surface-saturating solution concentrations** *BIOMATERIALS*
Kao, P., Parhi, P., Krishnan, A., Noh, H., Haider, W., Tadigadapa, S., Allara, D. L., Vogler, E. A.
2011; 32 (4): 969-978
- **A real-time device for converting Doppler ultrasound audio signals into fluid flow velocity** *AMERICAN JOURNAL OF PHYSIOLOGY-HEART AND CIRCULATORY PHYSIOLOGY*
Herr, M. D., Hogeman, C. S., Koch, D. W., Krishnan, A., Momen, A., Leuenberger, U. A.
2010; 298 (5): H1626-H1632
- **Antithrombotic therapy for ischemic stroke: guidelines translated for the clinician** *JOURNAL OF THROMBOSIS AND THROMBOLYSIS*
Krishnan, A., Lopes, R. D., Alexander, J. H., Becker, R. C., Goldstein, L. B.
2010; 29 (3): 368-377
- **Interfacial energetics of protein adsorption from aqueous buffer to surface with varying hydrophilicity** *LANGMUIR*
Cha, P., Krishnan, A., Fiore, V. F., Vogler, E. A.
2008; 24 (6): 2553-2563
- **Interfacial energetics of protein adsorption from aqueous buffer to surfaces with varying hydrophilicity** *Langmuir*
P Cha, A Krishnan, VF Fiore, EA Vogler
2008; 24 (6): 2553
- **The role of the cyclooxygenase products in evoking sympathetic activation in exercise** *AMERICAN JOURNAL OF PHYSIOLOGY-HEART AND CIRCULATORY PHYSIOLOGY*
Cui, J., McQuillan, P., Momen, A., Blaha, C., Moradkhan, R., Mascarenhas, V., Hogeman, C., Krishnan, A., Sinoway, L. I.
2007; 293 (3): H1861-H1868
- **Interfacial energetics of blood plasma and serum adsorption to a hydrophobic self-assembled monolayer surface** *BIOMATERIALS*
Krishnan, A., Cha, P., Liu, Y. H., Allara, D., Vogler, E. A.
2006; 27 (17): 3187-3194
- **Interfacial rheology of blood proteins adsorbed to the aqueous-buffer/air interface** *BIOMATERIALS*
Ariola, F. S., Krishnan, A., Vogler, E. A.
2006; 27 (18): 3404-3412
- **Interfacial energetics of globular blood protein adsorption to a hydrophobic interface from aqueous-buffer solution** *J. Royal Soc. Interface*
Krishnan A, YH Liu, P Cha, D Allara, EA Vogler
2006; 3 (7): 283
- **Scaled interfacial activity of proteins at a hydrophobic solid/aqueous-buffer interface.** *Journal of biomedical materials research. Part A*
Krishnan, A., Liu, Y., Cha, P., Allara, D., Vogler, E. A.
2005; 75 (2): 445-457
- **An evaluation of methods for contact angle measurement** *COLLOIDS AND SURFACES B-BIOINTERFACES*
Krishnan, A., Liu, Y. H., Cha, P., Woodward, R., Allara, D., Vogler, E. A.
2005; 43 (2): 95-98
- **Liquid-vapor interfacial tension of blood plasma, serum and purified protein constituents thereof** *BIOMATERIALS*
Krishnan, A., Wilson, A., Sturgeon, J., Siedlecki, C. A., Vogler, E. A.
2005; 26 (17): 3445-3453

- **An Evaluation of Goniometric Methods** *J. Coll. Interface*
A Krishnan, YH Liu, P Cha, DL Allara, EA Vogler
2005; 43: 95
- **Mixology of protein solutions and the Vroman effect** *LANGMUIR*
Krishnan, A., Siedlecki, C. A., Vogler, E. A.
2004; 20 (12): 5071-5078
- **Scaled interfacial activity of proteins at the liquid-vapor interface.** *Journal of biomedical materials research. Part A*
Krishnan, A., Sturgeon, J., Siedlecki, C. A., Vogler, E. A.
2004; 68 (3): 544-557
- **Traube-rule interpretation of protein adsorption at the liquid-vapor interface** *LANGMUIR*
Krishnan, A., Siedlecki, C. A., Vogler, E. A.
2003; 19 (24): 10342-10352