

SUSAN T. VARGHESE, MD, MBA

PERSONAL INFORMATION:

Citizenship: US citizen

Contact information: 548 North Van Auken street,
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EDUCATION:

2002- 2004 Master of Business Administration

Major: Management and Human Resources, Minor: Entrepreneurship
University of Wisconsin- Madison, Madison, WI

- Outstanding Weinert Applied Ventures Entrepreneurship (WAVE) Student Award (2004).
- President, Graduate Finance Organization (GFO) (2003-2004).
- Vice President, Graduate Women in Business (GWIB) (2003-2004).
- Beta Gamma Sigma Business Honors Society (2003-2004).
- Kristin Yates Scholarship for Finance, Department of Finance (2003).

1994- 2001 Doctor of Medicine

TD Medical College, Kerala, India

- Manager, Residents' Dormitory, T.D. Medical College (1999-2001).
- Medical doctor, Karuna (free medical clinic) (1999-2001).
- National Talent Search Exam scholarship (NTSE) (1991-1999).

COURSE CERTIFICATIONS:

- **2011- 2012 Public Health Management (PHM) certificate**, School of Public Health, University of Illinois at Chicago, Chicago, IL.
- **2011 Clinical and Translational Research Methods certificate**, Center for Clinical and Translational Science, University of Illinois at Chicago, Chicago, IL.

BOARD CERTIFICATION: Travancore- Cochin Council of Modern Medicine (2001), #29804.

PROFESSIONAL EXPERIENCE:

2012-2013 Adjunct Lecturer, School of Business, University of Illinois at Chicago, Chicago, IL
Teaching the new Bioengineering curriculum to the Innovative product design (IPD) students. The IPD course is a cross-collaboration between the schools of business, engineering and design.

2011- 2012 Postdoctoral Fellow, Department of Physiology and Biophysics, University of Illinois at Chicago, Chicago, IL

- Projects involved the use of the regenerative MRL mouse strain and gamma sarcoglycan null dystrophic mice in the study of cardiac function and mitochondrial biogenesis.
- Development of a diaphragm-specific promoter for cardiopulmonary related pathology and diaphragm- associated cardiac function.

2008- 2011 Postdoctoral Fellow, Department of Cardiology, University of Illinois at Chicago, Chicago, IL

- Analysis of the effects of Nav1.1 brain sodium channel mutations in the heart, through the use of a human epilepsy *gene knock-in* mouse model.
- The study of the knockout of cardiac ryanodine type 2 (RyR2) calcium channels in embryonic stem cell derived cardiomyocytes, and its associated proclivity to arrhythmia.

2007- 2008 Postdoctoral Fellow, Department of Cardiology, Emory University, Atlanta, GA
Analysis of the effects of timing of catalase treatment post-myocardial infarction, through the use of transgenic tamoxifen-inducible overexpression of the catalase gene in a mouse model.

2007 Market research consultant, Department of Biomedical Engineering, Georgia Institute of Technology, Atlanta, GA

Market research, business plan preparation, and business strategy for medical device prototypes.

2006-2007 Adjunct Instructor, *Functional and Human Anatomy II course*, Department of Physiology, Triton College River Grove, IL

Created core curriculum and labs for students gearing to entry in various health fields.

2004- 2005 Associate, Charter Consulting, Chicago, IL

- Assisted in the expansion of the company's health division, through the strategic targeting of customers and new markets.
- Conducted market research on insurers, hospitals, and third party clientele, and developed fact books and client presentations.

2003-2004 Management consultant, Weiner Applied Ventures Entrepreneurship (WAVE) program, University of Wisconsin-Madison, Madison, WI

Strategic and financial analysis of business plans for entrepreneurs, medical doctors and small businesses in the Madison, WI area.

2002- 2004 Teaching Assistant:

- *Venture Creation*, Department of Entrepreneurship, School of Business, University of Wisconsin-Madison, Madison, WI.
- *Business Strategy*, Department of Entrepreneurship, School of Business, University of Wisconsin-Madison, Madison, WI.

- *Physiology*, Department of Physiology, School of Medicine, University of Wisconsin-Madison, Madison, WI.

1999- 2001 House Surgeon, Compulsory Rotating Residency Internship, Government Medical Hospital, T.D. Medical College Hospital, District Tuberculosis Center, Ispat General Hospital, India

Trained and rotated as a Physician, administering patient care and treatment in the in-patient, out-patient and emergency rooms of the various departments of the government hospitals.

ADDITIONAL HONORS and VOLUNTEER ACTIVITIES:

- Faculty judge, UIC Student forum (2012)
- Executive committee member, Postdoctoral Association (PDA), University of Illinois at Chicago (2012-present).
- Member, Life Science Panel, Percepta Associates (2011-2012)
- Member, Chancellors Academic Professional Excellence (CAPE) Award Committee, University of Illinois at Chicago (2011-2012).
- NIH/NRSA T32 Training grant, Department of Cardiology, University of Illinois at Chicago (2008-2010).
- Grand Awards Judge (Medicine and Health Sciences), Intel International Science and Engineering Fair, Atlanta, GA (2008).
- Science Tutor, Georgia Perimeter College (2007).
- Winner of the “The Remarkable Everyday” written competition (2006).
- Volunteer, Center to End Adolescent Sexual Exploitation (CEASE) program, Fulton County Juvenile Justice Court (2006).
- Student Mentor, After-school program of the Jackson Middle School (2001).

PUBLICATIONS:

1. Muscle regeneration in the MRL mouse is AMP-activated protein kinase dependent. **Varghese ST**, Holley-Cuthrell J, Kuenster A, Heydemann A. New Directions in Biology meeting abstract 2012.
2. AMP- Activated Protein Kinase Mediates Cardioprotection in the Regenerative MRL Mouse Strain. **Varghese ST**, Holley-Cuthrell J, Warren CM, Kuenster A, Heydemann A. Basic Cardiovascular Science Conference abstract 2012.
3. Metabolic stress, Reactive Oxygen Species, and Arrhythmia. Jeong EM, Liu M, Sturdy M, Gao G, **Varghese ST**, Sovari AA, Dudley SC Jr. Journal of Molecular and Cellular Cardiology 2011.
4. Voltage-Gated TTX- Sensitive Nav1.1 Brain Sodium Channels are Important for Cardiac Contractile Function. **Susan T. Varghese**, Stephanie Humphrey, An Xie, Andrew P Escayg, Samuel C Dudley Jr. Basic Cardiovascular Science Conference 2011: abstract P81, Circulation Research 2011.

5. The Role of Mitochondria in Muscular Dystrophy Fibrosis Mitigation. **Varghese ST**, Kuenster A, McNally EM, Heydemann A. Mitochondrial Biology Symposium 2011: abstract P84.
6. Temporal Effects of Catalase Overexpression on Healing Following Myocardial Infarction. Pendergrass K, **Varghese ST**, Rafferty KM, Brown ME, Taylor WT, Davis ME. Circulation heart failure 2011, Jan 1, 4(1):98-106.
7. Critical effect of timing of catalase therapy for cardiac regeneration and stem cell therapy. **Varghese S**, Rafferty KM, Boopathy AV, Seshadri G, Yoon YS, Taylor WT, Davis ME. Basic Cardiovascular Science Conference 2009: abstract P1, Circulation Research 2009; 105; e10-e53.
8. Importance of Timing in Catalase Overexpression for Cardiac Regeneration. **Varghese S**, Iyer GS, Brown ME, Taylor WT, Davis ME. BCVS 2008: abstract P138, Circulation Research 2008; 103; e35-e7.
9. Radiological findings in sputum positive patients. **Varghese S**, Raj C. Social and Preventive Medicine journal of Kerala, India, 2000.
10. Correlation between lipid profile, stroke and Coronary Artery Disease (CAD). **Varghese S**, Kumar R. Alleppey District Tuberculosis center publication, India, 1999.
11. Profile of tuberculosis patients attending the District Tuberculosis Center. **Varghese S**, Philip S. Alleppey District Tuberculosis Center publication, India, 1999.

WHITE PAPERS & OTHER:

1. Third party administrators (TPA). **Susan Varghese**. Charter Consulting, 2005.
2. SAP business warehousing. **Susan Varghese**. Charter Consulting, 2005.
3. Can Netflix play David to the Goliaths entering the DVD online rental space? **Susan Varghese**. Virtual Strategist, Spring 2005 issue.
4. DNA sequencing and gene analysis. **Susan Varghese**. Charter Consulting, 2004.
5. Current good manufacturing practices (cGMP) and the Process Analytical Technology Initiative. **Susan Varghese**. Charter Consulting, 2004.
6. Business practices of leading companies in the healthcare industry. **Susan Varghese**. Charter Consulting, 2004.
7. Guide to biotechnology consulting. **Susan Varghese**, Mason Carpenter. University of Wisconsin-Madison School of Business, 2004.

PROFESSIONAL MEMBERSHIPS:

Society of General Physiologists (SGP).
 American Heart Association (AHA).
 Indian Medical Council (IMA).