

## CURRICULUM VITAE

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### **Education:**

- 2006-2010      **Ph.D. in Veterinary Medical Sciences,**  
Laboratory of Cardiovascular Pathophysiology,  
Comparative Biomedical sciences, School of Veterinary Medicine,  
Louisiana State University, Baton Rouge, Louisiana, USA.
- 2002-2004      **Master of Veterinary Science (MVSc),**  
College of Veterinary Science, A.N.G.R. Agricultural University, India.  
A part of Masters research project was completed at Laboratory of Molecular  
and Cell Biology, Center for DNA fingerprinting and Diagnostics, India.
- 1996-2001      **Bachelor of Veterinary Science and Animal Husbandry (Equivalent to  
Doctor of Veterinary Medicine),**  
College of Veterinary Science, A.N.G.R. Agricultural University, India.

### **Research Experience:**

- 2006 - 2010      **Graduate Research Assistant,** Comparative Biomedical sciences, School  
of Veterinary Medicine, Louisiana State University, Baton Rouge,  
Louisiana, USA.
- 2004-2006      **Project Assistant,** With Dr. Niyaz Ahmed, Staff scientist, Laboratory of  
Molecular and Cell Biology, Center for DNA fingerprinting and  
Diagnostics, Hyderabad, India.
- 2003-2004      **Research Assistant,** M.V.Sc. Thesis Project, Laboratory of Molecular and  
Cell Biology, Center for DNA fingerprinting and Diagnostics, Hyderabad,  
India.

### **Clinical Experience:**

1. June 2000 – June 2001      Clinical rotations at different teaching hospitals at the  
College of Veterinary Science, Hyderabad, India.

2. June 2001 – Nov 2001 Internship (Small animal medicine and surgery, Large animal medicine and surgery, Lab animal medicine, Ambulatory clinic, Wild animal medicine, Food animal medicine) in India.

**Technical Expertise:**

1. **Nucleic acid techniques:** DNA and RNA isolations, PCR, Real Time RT-PCR.
2. **Protein/Immunological techniques:** Immunoprecipitation, Co-immunoprecipitation, SDS-PAGE, Western blotting, Electromobility Shift Assay, Multiplex bead assays, ELISA, Immunohistochemistry, Immuno-fluorescence staining.
3. **Basic tissue culture techniques:** Maintenance of cell lines, transfection etc.
4. **Surgical techniques in rats and mice:** Telemetry transmitter implantation, Osmotic minipump implantation, Brain cannula implantation, Pressure volume loop measurements.

**Awards/Honors:**

1. Recipient of LSU Graduate School travel award, for 62<sup>nd</sup> High Blood Pressure Research conference 2008.
2. Recipient of J. Watumull Estate Scholarship for the fall 2008 and spring 2009 semesters, selected by LSU Faculty Senate Committee on International Education based on academic excellence.
3. Recipient of award on Phi Zeta research emphasis day, Second Place in graduate students' category, LSU 2007.
4. Recipient of Gold Medal for highest OGPA in B.V.Sc. & A.H., A. N. G. R. Agricultural University, Hyderabad, India (2001).
5. Recipient of college research grant for Earn While You Learn Poultry Project during the Undergraduate Study, India (2000).

**Professional Memberships:**

1. American Heart Association
2. Tau chapter of the society of Phi Zeta, Honor Society of Veterinary Medicine.

**Original Research Publications:**

1. Cardinale JP, **Sriramula S**, Pariaut R, Guggilam A, Mariappan N, Elks C, Francis J. HDAC inhibition attenuates inflammatory, hypertrophic and hypertensive responses in spontaneously hypertensive rats. **Hypertension. 2010 Aug 2** [Epub ahead of print].
2. Shenoy V, Ferreira AJ, Qi Y, Fraga-Silva RA, Díez-Freire C, Dooies A, Jun JY, **Sriramula S**, Mariappan N, Pourang D, Venugopal CS, Francis J, Reudelhuber T, Santos RA, Patel JM, Raizada MK, Katovich MJ. The ACE2/Ang-(1-7)/Mas axis confers cardiopulmonary protection against lung fibrosis and pulmonary hypertension. **Am J Respir Crit Care Med. 2010 Jun 25** [Epub ahead of print].

3. Shi P, Diez-Freire C, Jun JY, Qi Y, Katovich MJ, Li Q, **Srinamula S**, Francis J, Summers C, Raizada MK. Brain microglial cytokines in neurogenic hypertension. **Hypertension. 2010 56(2):297-303.**
4. Mariappan M, Elks CM, **Srinamula S**, Guggilam A, Liu Z, Borkhsenius O, Francis J. NF-kappaB-induced oxidative stress contributes to mitochondrial and cardiac dysfunction in type II diabetes. **Cardiovascular Res. 2010;85(3):473-83.**
5. Agarwal D, Haque M, **Srinamula S**, Mariappan N, Pariaut R, Francis J. Role of proinflammatory cytokines and redox homeostasis in exercise-induced delayed progression of hypertension in spontaneously hypertensive rats. **Hypertension. 2009; 54(6):1393-400.**
6. Yamazato Y, Ferreira AJ, Hong KH, **Srinamula S**, Francis J, Yamazato M, Yuan L, Bradford CN, Shenoy V, Oh SP, Katovich MJ, Raizada MK. Prevention of pulmonary hypertension by Angiotensin converting enzyme 2 gene transfer. **Hypertension. 2009;54(2):365-71.**
7. Ferreira AJ, Shenoy V, Yamazato Y, **Srinamula S**, Francis J, Yuan L, Castellano RK, Ostrov DA, Paul Oh S, Katovich MJ, Raizada MK. Evidence for angiotensin converting enzyme 2 as a therapeutic target for the prevention of pulmonary hypertension. **Am J Respir Crit Care Med. 2009;179(11):1048-54.**
8. Kang YM, Ma Y, Zheng JP, Elks C, **Srinamula S**, Yang ZM, Francis J. Brain nuclear factor-kappa B activation contributes to neurohumoral excitation in angiotensin II-induced hypertension. **Cardiovasc Res. 2009;82(3):503-12.**
9. **Srinamula S**, Haque M, Majid DS, Francis J. Involvement of Tumor Necrosis Factor-alpha in Angiotensin II-Mediated Effects on Salt Appetite, Hypertension, and Cardiac Hypertrophy. **Hypertension. 2008;51(5):1345-1351.**
10. Mariappan N, Soorappan RN, Haque M, **Srinamula S**, Francis J. TNF-alpha induced mitochondrial oxidative stress and cardiac dysfunction: restoration by superoxide dismutase mimetic tempol. **Am J Physiol Heart Circ Physiol. 2007;293(5):H2726-37.**
11. **Srinamula Srinivas**, Narasimharao G, Ahmed N and Gupta B R. Molecular genetic characterization of Ongole and Deoni cattle breeds using microsatellite markers. **Indian Journal of Animal Sciences**, 2006, 76 (8), 649-652.
12. Rao KR, Ahmed N, **Srinamula Srinivas**, Sechi LA, Hasnain SE. Rapid identification of Mycobacterium tuberculosis Beijing genotypes on the basis of the mycobacterial interspersed repetitive unit locus 26 signature. **J Clin Microbiol.** 2006 Jan;44(1):274-7.
13. Rao KR, Kauser F, **Srinamula Srinivas**, Zanetti S, Sechi LA, Ahmed N, Hasnain SE. Analysis of genomic downsizing on the basis of region-of-difference polymorphism profiling of Mycobacterium tuberculosis patient isolates reveals geographic partitioning. **J Clin Microbiol.** 2005;43(12):5978-82.

14. Kauser F, Hussain MA, Ahmed I, **Srinamula Srinivas**, Devi SM, Majeed AA, Rao KR, Khan AA, Sechi LA, Ahmed N. Comparative genomics of *Helicobacter pylori* isolates recovered from ulcer disease patients in England. **BMC Microbiol.** 2005 25;5(1):32.

**Oral Presentations:**

1. **Srinivas Srinamula**, Jeffrey Cardinale, Romain Pariaut, Francis J. Central nervous system blockade of tumor necrosis factor attenuates angiotensin II induced hypertension. **American Heart Association Scientific Sessions 2008**, New Orleans, LA.
2. **Srinivas Srinamula**, Mariappan N, McIlwain E, Francis J. Angiotensin II induced hypertrophic response and oxidative stress is attenuated in mice lacking the gene for TNF-alpha. **American Heart Association Scientific Sessions 2007**, Orlando, FL.

**Abstracts:**

1. Cardinale JP, **Srinamula S**, Pariaut R, Francis J. Bilateral blockade of NF-kB in the paraventricular nucleus attenuates angiotensin II-induced blood pressure response. **American Heart Association Scientific Sessions 2009, Orlando, FL. Circulation, 2009; 120: S1179.**
2. Cardinale JP, **Srinamula S**, Agarwal D, Pariaut R, Francis J. Nuclear Factor-kB in the paraventricular nucleus contributes to angiotensin II-induced high blood pressure in rats. **63<sup>rd</sup> High Blood Pressure Research Conference, Chicago, IL. Hypertension, 2009; 54: e26 – e127.**
3. Cardinale JP, **Srinamula S**, Guggilam A, Pariaut R, Francis J. HDAC inhibition downregulates pro-inflammatory cytokines and renin-angiotensin system genes in the paraventricular nucleus and attenuates blood pressure in spontaneously hypertensive rats. **63<sup>rd</sup> High Blood Pressure Research Conference, Chicago, IL. Hypertension, 2009; 54: e26 – e127.**
4. **Srinamula S**, Cardinale JP, Lazartigues E, Francis J. Bilateral ACE2 overexpression in the PVN attenuates angiotensin II-induced blood pressure response. **63<sup>rd</sup> High Blood Pressure Research Conference, Chicago, IL. Hypertension, 2009; 54: e26 – e127.**
5. **Srinamula S**, Francis J. Angiotensin II induced pro-inflammatory cytokines and oxidative stress in the brain are attenuated in mice lacking the gene for TNF- $\alpha$ . **Experimental Biology 2009, New Orleans, LA. FASEB J, 2009; 23:805.12.**
6. Agarwal D, Haque M, **Srinamula S**, Mariappan N, Francis J. Pressure lowering effect of chronic exercise mediated by reduced myocardial pro-inflammatory cytokines and oxidative stress in hypertensive rats. **Experimental Biology 2009, New Orleans, LA. FASEB J, 2009 23:1017.9**

7. **Sriramula S**, Jeffrey Cardinale, Romain Pariaut, Francis J. Central nervous system blockade of tumor necrosis factor attenuates angiotensin II induced hypertension. **American Heart Association Scientific Sessions 2008, New Orleans, LA. Circulation, 2008; 118: S\_383.**
8. Mariappan N, **Sriramula S**, Haque M, McIlwain E, Francis J. NFkB blockade attenuates cardiac oxidative stress and improves mitochondrial function in type II diabetes. **American Heart Association Scientific Sessions 2008, New Orleans, LA. Circulation, 2008; 118: S\_1167-1168.**
9. **Sriramula S**, Mariappan N, Raizada MK, Francis J. TNF-alpha induced oxidative stress upregulates components of renin angiotensin system in the heart. **62<sup>nd</sup> High Blood Pressure Research Conference 2008, Atlanta, GA. Hypertension, 2008; 52, e34-e131.**
10. Cardinale JP, Pariaut R, **Sriramula S**, Guggilam A, Mariappan N, Francis J. HDAC inhibition attenuates hypertensive and hypertrophic response elements in left ventricle of spontaneously hypertensive rats. **62<sup>nd</sup> High Blood Pressure Research Conference 2008, Atlanta, GA. Hypertension, 2008; 52, e34-e131.**
11. Diez Freire CC, **Sriramula S**, Francis J, Raizada MK. Central infusion of minocycline inhibits proinflammatory cytokines in the PVN and attenuates Ang II-induced hypertension. **62<sup>nd</sup> High Blood Pressure Research Conference 2008, Atlanta, GA. Hypertension, 2008; 52, e34-e131.**
12. Mariappan N, Elks C, Prejean K, **Sriramula S**, Francis J. Interaction of TNF-alpha with angiotensin II contributes to mitochondrial oxidative stress and end organ damage in rats. **Experimental Biology 2008, San Diego, CA. FASEB J, 2008; 22:923.1.**
13. Kang YM, Ma Y, **Sriramula S**, Zheng JP, Yang ZM, Francis J. Brain angiotensin or nuclear factor kappa B blockade attenuates cytokines, oxidative stress and decreases sympathoexcitation in hypertension. **Experimental Biology 2008, San Diego, CA. FASEB J, 2008; 22:1234.2.**
14. **Sriramula S**, Mariappan N, McIlwain E, Francis J. Abstract 1476: Angiotensin II induced hypertrophic response and oxidative stress is attenuated in mice lacking the gene for TNF-alpha. **American Heart Association Scientific Sessions 2007, Orlando, FL. Circulation. 2007;116:II-304.**
15. Francis J, Yu L, Guggilam A, **Sriramula S**, Zucker IH. Atorvastatin attenuates oxidative stress and improves neuronal nitric oxide synthase in the brain stem of heart failure mice. Oral presentation 814, **American Heart Association Scientific Sessions 2007, Orlando, FL. Circulation. 2007;116:II-157-158.**
16. Mariappan N, **Sriramula S**, Haque M, Joseph F. TNF-alpha blockade prevents mitochondrial dysfunction in the heart and attenuates hypertensive response in salt sensitive

17. Mariappan N, **Srinamula S**, Haque M, Joseph F. Chronic TNF-alpha infusion induces mitochondrial damage in the heart and kidney of rats by depleting mitochondrial membrane permeability proteins. Poster presentation 1416, **American Heart Association Scientific Sessions 2006, Chicago, IL. Circulation 2006;114(18)1106.**