

## CURRICULUM VITAE

NAME	Sriramula, Srinivas	POSITION TITLE	Instructor - Research
EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	MM/YYYY	FIELD OF STUDY
A.N.G.R. Agricultural University, Hyderabad, India	B.V.Sc.&A.H.	12/1996 - 11/2001	Veterinary Sciences
A.N.G.R. Agricultural University, Hyderabad, India	M.V.Sc.	06/2002 -02/2004	Veterinary Sciences (Animal Genetics & Breeding)
Louisiana State University, Baton Rouge, LA, USA	Ph.D.	01/2006 -08/2010	Veterinary Medical Sciences
Louisiana State University Health Sciences Center, New Orleans, LA, USA	Postdoctoral Fellow	09/2010-07/2015	Pharmacology & Experimental Therapeutics

### 1. Positions/Employment, Memberships and Honors

#### Positions and Employment

2003 - 2005	Research Assistant, Laboratory of Molecular & Cell Biology, CDFD, Hyderabad, India
2006 - 2010	Graduate Research Assistant, School of Veterinary Medicine, Louisiana State University, Baton Rouge, LA, USA
2010 - 2015	Postdoctoral Fellow, Louisiana State University Health Sciences Center, New Orleans, LA
2015 - Present	Instructor – Research, Louisiana State University Health Sciences Center, New Orleans, LA

#### Professional Memberships

- American Heart Association since 2006
- American Physiological Society since 2010
- Tau chapter of the society of Phi Zeta, Honor Society of Veterinary Medicine

#### Honors

2000	Earn While You Learn Poultry Project, A.N.G.R.A.U, Hyderabad, India
2001	Gold Medal for highest OGPA in Veterinary Sciences, A.N.G.R.A.U, Hyderabad, India
2007	Best Poster, Phi Zeta Research Emphasis Day, Louisiana State University, Baton Rouge, LA
2008	J. Watumull Estate Scholarship for academic excellence, Louisiana State University, Baton Rouge, LA
2008	Graduate School travel award to attend HBPRC 2008, Louisiana State University, Baton Rouge LA
2011	Annual High Blood Pressure Research Conference New Investigator Award
2012	American Physiological Society Central Nervous System section Research Recognition Award
2012	Selected for American Physiological Society Caroline tum Suden/Francis A. Hellebrandt Professional opportunity Award
2012	High Blood Pressure Research Conference New Investigator Travel Award for trainees
2013	Neural Control and Autonomic Regulation Section Postdoctoral and Early Career Research Recognition Award from American Physiological Society
2013	Postdoctoral Fellowship from American Heart Association Greater Southeast Affiliate (2013-2015)

- 2014 American Physiological Society Cardiovascular Section Research Recognition Award
- 2014 Federation of American Societies for Experimental Biology (FASEB)/Maximizing Access to Research Careers (MARC) Grantsmanship Training Program Travel Award
- 2015 American Physiological Society Caroline tum Suden/Francis A. Hellebrandt Professional Opportunity Award

### Peer Review Activities

- 2010–Present Invited Reviewer for *Chronobiology International*
- 2011–Present Invited Reviewer for *Journal of Hypertension*
- 2012–Present Invited Reviewer for *Cardiovascular Therapeutics*
- 2012–Present Invited Reviewer for *Experimental Physiology*
- 2013–Present Invited Reviewer for *Cellular and Molecular Neurobiology*
- 2013–Present Invited Reviewer for *American Journal of Physiology Heart and Circulatory Physiology*
- 2015–Present Invited Reviewer for *The American Journal of Physiology Gastrointestinal and Liver Physiology*
- 2015–Present Invited Reviewer for *The AJP Regulatory Integrative and Comparative Physiology*
- 2015–Present Invited Reviewer for *Cardiovascular Toxicology*

## 2. Peer-reviewed Publications

### Peer-reviewed Publications (In chronological order)

1. Kauser F, Hussain MA, Ahmed I, **Sriramula 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, 5(1):32.
2. Rao KR, Kauser F, **Sriramula 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.
3. Rao KR, Ahmed N, **Sriramula 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, 44(1):274-7.
4. **Sriramula 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.
5. Mariappan N, Soorappan RN, Haque M, **Sriramula 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.
6. **Sriramula 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.
7. Kang YM, Ma Y, Zheng JP, Elks C, **Sriramula 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.
8. Ferreira AJ, Shenoy V, Yamazato Y, **Sriramula 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.
9. Yamazato Y, Ferreira AJ, Hong KH, **Sriramula 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.
10. Agarwal D, Haque M, **Sriramula 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.

11. Mariappan M, Elks CM, **Sriramula 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.
12. Shi P, Díez-Freire C, Jun JY, Qi Y, Katovich MJ, Li Q, **Sriramula S**, Francis J, Sumners C, Raizada MK. Brain microglial cytokines in neurogenic hypertension. *Hypertension.* 2010, 56(2):297-303.
13. 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, 182:1065-1072.
14. 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, 56:437-444.
15. Guggilam A, Cardinale JP, Mariappan N, **Sriramula S**, Haque M, Francis J. Central TNF inhibition results in attenuated neurohumoral excitation in heart failure: a role for superoxide and nitric oxide. *Basic Res Cardiol.* 2011, 106:273-286.
16. Xu P, **Sriramula S**, Lazartigues E. ACE2/Ang-(1-7)/Mas pathway in the brain: The axis of good. *Am J Physiol Regul Integr Comp Physiol.* 2011, 300:R804-R817.
17. Pedersen KB, **Sriramula S**, Chhabra KH, Xia H, Lazartigues E. Species-specific inhibitor sensitivity of angiotensin-converting enzyme 2 (ACE2) and its implication for ACE2 activity assays. *Am J Physiol Regul Integr Comp Physiol.* 2011, 301:R1293-9.
18. **Sriramula S**, Cardinale JP, Lazartigues E, Francis J. ACE2 overexpression in the paraventricular nucleus attenuates angiotensin II-induced hypertension. *Cardiovascular Res.* 2011, 92:401-8.
19. Cardinale JP, **Sriramula S**, Mariappan N, Agarwal D, Francis J. Angiotensin II-induced hypertension is modulated by Nuclear factor-kappa B in the paraventricular nucleus. *Hypertension* 2012, 59(1):113-121.
20. **Sriramula S**, Cardinale JP, Francis J. Inhibition of TNF in the brain reverses alterations in RAS components and attenuates angiotensin II-induced hypertension. *PLoS ONE* 2013, 8(5):e63847.
21. Xia H\*, **Sriramula S\***, Kavaljit H, Lazartigues E. Brain ACE2 shedding contributes to the development of neurogenic hypertension. *Circulation Research.* 2013, 113:1087-1096. (**\*Equal first authors**)
22. Deshotels MR, Xia H, **Sriramula S**, Lazartigues E, Filipeanu CM. Angiotensin II mediates Angiotensin Converting Enzyme 2 internalization and degradation through an Angiotensin II type 1 receptor-dependent mechanism. *Hypertension.* 2014, 64(6):1368-75.
23. Xia H, Moreira de Queiroz T, **Sriramula S**, Feng Y, Johnson T, Mungrue IN, Lazartigues E. Brain ACE2 overexpression reduces DOCA-salt hypertension independently of endoplasmic reticulum stress. *American Journal of Physiology Regulatory Integrative and Comparative Physiology.* 2015, 308(5):R370-8.
24. **Sriramula S**, Xia H, Xu P, Lazartigues E. Brain-targeted angiotensin-converting enzyme 2 overexpression attenuates neurogenic hypertension by inhibiting cyclooxygenase-mediated inflammation. *Hypertension.* 2015, 65(3):577-86.
25. **Sriramula S\***, Joseph Francis. Tumor necrosis factor – alpha is essential for angiotensin II-induced ventricular remodeling: Role for oxidative stress. *PLoS ONE.* 2015, 10(9):e0138372 (**\*Co-corresponding author**).

### **Published Abstracts**

1. Mariappan N, **Sriramula 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.
2. Mariappan N, **Sriramula S**, Haque M, Joseph F. TNF- $\alpha$  blockade prevents mitochondrial dysfunction in the heart and attenuates hypertensive response in salt sensitive hypertensive rats. Oral presentation 1106, American Heart Association Scientific Sessions 2006, Chicago, IL. *Circulation* 2006;114(18)1416.

3. 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.
4. **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.
5. 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.
6. 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.
7. 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.
8. **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.
9. 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.
10. **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.
11. Mariappan N, **Sriramula S**, Francis J. Angiotensin II induced end organ damage is attenuated in mice lacking the gene for TNF: A mitochondrial perspective. American Heart Association Scientific Sessions 2008, New Orleans, LA. *Circulation*, 2008 118: S\_383.
12. Agarwal D, Haque M, **Sriramula 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
13. **Sriramula 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.
14. **Sriramula 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.
15. Cardinale JP, **Sriramula 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.
16. Cardinale JP, **Sriramula 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.
17. Cardinale JP, **Sriramula 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.
18. Xia H, **Sriramula S**, Lazartigues E. Maintenance of ACE2 activity levels dramatically reduces DOCA-salt-mediated hypertension, dysautonomia and hypertrophy. High Blood Pressure Research 2011 Scientific Sessions, Orlando, FL. *Hypertension* 2011;58:e183.

19. **Sriramula S**, Xia H, Lazartigues E. Central ACE2 prevents hypertension and cardiac hypertrophy by reducing sympathetic drive and vasopressin release. High Blood Pressure Research 2011 Scientific Sessions, Orlando, FL. Hypertension 2011;58:e36.
20. **Sriramula S**, Pedersen KB, Lazartigues E. Angiotensin converting enzyme 2 attenuates angiotensin II-induced phosphorylation of MAP kinase and Akt in neurons. Experimental Biology 2012, San Diego, Ca. FASEB J 2012 26:703.21 (**Received Central Nervous System section Research Recognition Award 2012**).
21. Xia H, **Sriramula S**, Scroggin M, Chhabra K, Lazartigues E. ACE2 shedding: A new mechanism for neurogenic hypertension. Experimental Biology 2012, San Diego, Ca. FASEB J, 2012 26:893.1.
22. Xia H, **Sriramula S**, Lazartigues E. Knockdown of ACE2 in the paraventricular nucleus partially reverses the protective effects of brain ACE2 in DOCA-salt hypertension. High Blood Pressure Research 2012 Scientific Sessions, Washington DC. Hypertension 2012.
23. **Sriramula S**, Xia H, Lazartigues E. ACE2 overexpression prevents DOCA-salt hypertension by modulating oxidative stress and nitric oxide in the central nervous system. (**Selected for HBPR New Investigator Travel Award for Trainees for HBPR 2012**).
24. **Sriramula S**, Xia H, Lazartigues E. Brain targeted ACE2 overexpression prevents DOCA-salt hypertension and cardiac hypertrophy by modulating NOS and ERK1/2 phosphorylation. Experimental Biology 2013, Boston, MS. FASEB Journal, 2013 27:927.7 (Received **American Physiological Society NCAR Section Postdoctoral and Early Career Research Recognition Award**).

### Oral Presentations at Scientific Conferences

1. 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.
2. Central nervous system blockade of tumor necrosis factor attenuates angiotensin II induced hypertension. American Heart Association Scientific Sessions 2008, New Orleans, LA.
3. Central ACE2 prevents hypertension and cardiac hypertrophy by reducing sympathetic drive and vasopressin release. High Blood Pressure Research 2011 Scientific Sessions, Orlando, FL. (**Received 2011 Annual High Blood Pressure Research Conference New Investigator Award**)
4. Brain targeted ACE2 overexpression prevents DOCA-salt hypertension and cardiac hypertrophy by modulating NOS and ERK1/2 phosphorylation. **Experimental Biology 2013, Boston, MS**. (Received **American Physiological Society NCAR Section Postdoctoral and Early Career Research Recognition Award**).

### 3. Research Funding

#### Current:

**GSA Winter 2015 Scientist Development Grant**

07/01/2015-06/30/2018

American Heart Association, 15SDG25720021

Project Title: "Role of bradykinin 1 receptor in neurogenic hypertension"

Role: PI

#### Completed:

**American Heart Association Postdoctoral Fellowship**

07/01/2013-6/30/2015

American Heart Association, 13POST16500025

Project Title: "Role of bradykinin peptides in ACE2-mediated modulation of neurogenic hypertension"

Award Total: \$98,432

Role: PI