

Sarath Meduru

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Columbus, OH 43210

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EDUCATION

<i>May 2006 – Dec 2007</i>	Master of Science	Department of Biological Sciences, Marshall University, Huntington, WV.
<i>Aug 1999 - Jan 2005</i>	Bachelor of Veterinary Science and Animal Husbandry (Equivalent to DVM)	Acharya N.G. Ranga Agricultural University, Hyderabad, India.

WORK EXPERIENCE

<i>Jul 2008 – Present</i>	Research Associate I, Davis Heart and Lung Research Institute, The Ohio State University, Columbus, OH
<i>May 2006 – Dec 2007</i>	Research Assistant, Laboratory of Molecular Physiology, Marshall University, Huntington, WV.
<i>Feb 2005 - Dec 2005</i>	Veterinary Surgeon Govt. Of Andhra Pradesh, India
<i>May 2004 – Dec 2004</i>	Student Intern Veterinary Poly Clinic, Gudivada, India

TECHNIQUES

Molecular Biology

- SDS-PAGE
- Western Blot Analysis
- Immunoprecipitation
- Cell Culture
- Immunohistochemistry
- Protein extraction & Purification
- ELISA
- GC-MS
- PCR
- RT-PCR

Microscopic techniques

- Light microscopy
- Fluorescence microscopy
- Confocal microscopy

Animal procedures

- Small animal surgery
- Echocardiography
- Electrocardiography
- Physiological and Pathological testing
- *In Vivo* Cardiac EPR

ABSTRACTS

- **Sarath Meduru**, Devashish H. Desai, Kevin M. Rice, Muhammed T. Gill, Morris E. Kelley, Marina Flaskas, Paulette S. Wehner and Eric R. Blough *Diabetes is Associated with Alterations in the Dystrophin Glycoprotein Complex Composition in the Heart Muscle*. American College of Sports Medicine, Sep 2006.
- **Sarath Meduru**, Devashish Desai, Kevin Rice, Sunil Kakarla, Ernest Walker, Jr. and Eric Blough *Chronic Acetaminophen Treatment Influences Indices of Oxidative Stress in the Aging F344XBN Aorta*. Association of Clinical Scientists Annual Meeting, Hershey, PA.
- **Sarath Meduru**, Devashish H. Desai, Kevin M. Rice, Sunil K Kakarla, Anjaiah Katta, Sriram P Mupparaju, Ernest M Walker Jr, Paulette S. Wehner and Eric R. Blough *Chronic Acetaminophen Alters Age-Associated Changes in Oxidative Stress Signaling in F344XBN Rat Inferior Vena Cava*. American College of Sports Medicine, June, 2008
- Anjaiah Katta, Sunil Karkala, **Sarath Meduru**, Devashish H. Desai, Kevin M. Rice, Deborah L. Preston, and Eric R. Blough *Lean and Obese Zucker Rats Exhibit Different Patterns of p70S6kinase Regulation in the Tibialis Anterior Muscle in Response to High Force Muscle Contraction*. American College of Sports Medicine, June, 2008.
- Hideyo Takatsuki, Kevin M. Rice, Shinichi Asano, Devashish, Desai, Madhukar Kolli, Sunil Kakarla, **Sarath Meduru**, Anjaiah Katta, Prasad Mupparaju, Satyanarayana Paturi, Anil Kumar Gutta, Brent Kidd, Kazuhiro Kohama, and Eric R. Blough. *Unidirectional movement of fascin-induced actin bundle on heavy meromyosin in an in vitro motility assay and its application into nanotechnology*. American College of Sports Medicine, June, 2008.
- Madhukar Kolli, Hideyo Takatsuki, Devashish Desai, Kevin M. Rice, Sunil Kakarla, Anjaiah Katta, Sriram P Mupparaju, **Sarath Meduru**, Anil K Gutta, Satyanarayana Paturi, and Eric R. Blough. *Confinement of myosin motor activity on Trimethylchlorosilane surface by Ultra Violet light exposure for nano-technology applications*. American College of Sports Medicine, June, 2008.

PUBLICATIONS

- Anjaiah Katta, Deborah L Preston, Sunil K Kakarla, Shinichi Asano, **Sarath Meduru**, Sriram P Mupparaju, Ellie Yokochi, Kevin M Rice, Devashish H Desai and Eric R Blough *Diabetes Alters Contraction-Induced Mitogen Activated Protein Kinase (MAPK) Activation in the Rat Soleus and Plantaris*. Exp Diabetes Res. 2008;2008:738101

Submitted:

- Anjaiah Katta, Sunil Karkala, **Sarath Meduru**, Devashish H. Desai, Kevin M. Rice, Deborah L. Preston, Brandon Armstrong, and Eric R. Blough *Lean and Obese Zucker Rats Exhibit Different Patterns of p70 S6kinase Regulation in the Tibialis Anterior Muscle in Response to High Force Muscle Contraction*.
- S. Karkarla, K. M. Rice, D. H. Desai, Shinichi Asano, Anjaiah Katta, Sriram P Mupparaju, **Sarath Meduru**, P. S. Wehner and E. R. Blough *Age-related DGC structure and function in the F344X BN rat heart*.

- Anjaiah Katta, Sunil Karkala, **Sarath Meduru**, D. H. Desai, Kevin M. Rice, Deborah L. Preston, and Eric R. Blough *Altered regulation of p70S6k in Plantaris and soleus Skeletal Muscles in Syndrome-X Obese Zucker Rat Model after High Force Muscle Contraction.*

PROFESSIONAL MEMBERSHIPS

<i>Member</i>	Veterinary Council of India
<i>Member</i>	A.P Veterinary Council
<i>Member</i>	American College of Sports Medicine

COMPUTING AND STATISTICAL SOFTWARE

Regular PC user, well-acquainted with MS Office, Adobe[®] Photoshop, Adobe[®] Acrobat, Sigma Stat[®], EndNote[®], BIOPAC[®] Systems, Alpha Ease[®], Image J[®], SAS[®]

CERTIFICATIONS

SAS[®] Certified Base Programmer for SAS[®] 9