

BIOGRAPHICAL SKETCH

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NAME Susan Tsivitse Arthur eRA COMMONS USER NAME		POSITION TITLE Assistant Professor	
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
The Univ. of Toledo	B.S.	1995	Biology
The Univ. of Toledo	M.S.	2001	Exercise Science
The Univ. of Toledo	Ph.D.	2003	Applied Physiology
Stanford Univ. School of Medicine	Postdoctoral fellow	2003-2006	Satellite Cell Biology

A. Positions and Honors.**Positions and Employment**

1996 – 1999	Graduate assistant, Welltrack Wellness Program, The Univ. of Toledo, Toledo, OH
1999 – 2003	Teaching/Research Assistant, Department of Kinesiology, The Univ. of Toledo, Toledo, OH
2003 – 2006	Postdoctoral Research Fellow, Department of Neurology and Neurological Sciences, Stanford Univ. School of Medicine, Stanford, CA.
2006 – current	Assistant Professor, Dept. of Kinesiology, UNC Charlotte, Charlotte, NC

B. Peer-reviewed publications

1. **Arthur S. Tsivitse**, I.D. Cooley. 2012. The effect of physiological stimuli on sarcopenia; impact of Notch and Wnt signaling on impaired aged skeletal muscle repair. *Int J Biol Sci* 8(5): 731-760.
2. **Tsivitse S.** Notch and Wnt Signaling, Physiological Stimuli and Postnatal Myogenesis. *Int J Biol Sci* 6(3): 268 – 281, 2010.
3. **Tsivitse S.K.**, M.G. Peters, A.L. Stoy, J.A. Mundy, R.S. Bowen. The effect of downhill running on Notch signaling in regenerating skeletal muscle. *Eur J Appl Physiol* 106:759-767, 2009.
4. **Tsivitse S.K.**, E. Mylona, J.M. Peterson, W.T. Gunning, and F.X. Pizza. Mechanical loading and injury induce human myotubes to release neutrophil chemoattractants. *Am J Physiol Cell Physiol* 288:C721-C729, 2005.
5. **Tsivitse S.K.**, T.J. McLoughlin, J. Peterson, E. Mylona, S.J. McGregor, and F.X. Pizza. Downhill running in rats: influence on muscle inflammatory cells and MyoD+ cells. *Eur J Appl Physiol* 90:633-638, 2003.
6. McLoughlin T.J., **S.K. Tsivitse**, J.A. Edwards, B.A. Aiken, and F.X. Pizza. Deferoxamine reduces and nitric oxide synthase inhibition increases neutrophil-mediated myotube injury. *Cell & Tissue Research* 313:313-319, 2003.

7. Mylona E., M.M. Fahlman, A.L. Morgan, D. Boardley, and **S.K. Tsivitse**. sIgA response in females following a single bout of moderate intensity exercise in cold and thermoneutral environments. *Int J Sports Med.* 23:453-456, 2002.

C. Research Support

Internal

(Principal Investigator) The University of North Carolina – Charlotte, Faculty Research Grant. (2007 – 2008), “The effect of Notch signaling on satellite cell activation following downhill running”, \$6,000.

Co-Principal Investigator with T. Hubbard; The University of North Carolina – Charlotte, Bonnie Cone Fellowship, ADVANCE Competitive Awards Program. (2007), “The Effect of Exercise on Sarcopenia and Osteoarthritis in Aged Mice”, \$15,000.

Principal Investigator; The University of North Carolina – Charlotte, Faculty Research Grant. (2009 – 2010) “The effect of *in situ* muscle lengthening contractions on Notch signaling in regenerating muscle”, \$6,000.

Principal Investigator; The University of North Carolina – Charlotte, Faculty Research Grant. (2011-2012) “The interaction of Msx1 and Notch signaling in skeletal muscle repair following downhill running”, \$6,000.

External

Principal Investigator; Stanford University School of Medicine, C.F. Aaron Dean’s Fellowship. (2004 – 2005). “Regulation of the Notch signaling pathway during muscle stem cell activation”, \$20,000

Co-Principal Investigator with T. Palmer; Charlotte/Mecklenburg Senior Center. (2011 – current) “Master student graduate assistantships”, \$35,000 yearly.

Collaborator; (Principal Investigators: K. Zwetsloot, A. Shanely) Appalachian State University, University Research Council Competitive Grant. (2011 – 2012) “Ajuga turkestanica as a countermeasure against sarcopenia”, \$5,000.00.

Mentoring Committee Member/Collaborator, (Principal Investigators; R. Shanely, K. Zwetsloot, D. Nieman, A. Knab, M. Lila) USDA Transdisciplinary Training Program in Functional Foods: Kannapolis Scholars Program (for Appalachian State Master’s student M. Lawrence). (2011 – 2012) “Naturally – produced phytoecdysteroids from *Ajuga turkestanica* as a countermeasure against Sarcopenia”, \$33,300.00.