

TERRY E. JONES

CURRICULUM VITAE

PRESENT ADDRESS

Department of Physical Therapy
College of Allied Health Sciences
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EDUCATION

Ph.D. Biochemistry
University of Kansas, 2000

M.S.Ed. Exercise Physiology
University of Kansas, 1988

B.A. Physical Education (concentration - Exercise Science)
Washburn University, 1985

PROFESSIONAL EXPERIENCE

2009 – present Associate Professor, Department of Physical Therapy, College of Allied Health Sciences, East Carolina University, Greenville, NC

2003 – 2009 Assistant Professor, Department of Physical Therapy, College of Allied Health Sciences, East Carolina University, Greenville, NC

2003 – 2008 Joint appointment as Clinical Assistant Professor, Division of Endocrinology, Department of Internal Medicine, East Carolina University, Greenville, NC

2000 – 2003 Postdoctoral Research Fellow/NIH Trainee in the laboratory of Dr. John Holloszy, Dept. of Internal Medicine, Section of Applied Physiology, Washington University School of Medicine, St. Louis, MO

1993 – 2000 Graduate Research Assistant and Graduate Teaching Assistant, Department of Molecular Biosciences, Univ. of Kansas, Lawrence, KS

1987 – 1991 Exercise Physiologist, Colmery-O'Neil VA Hospital, Topeka, KS

1983 – 1985 Adjunct Instructor, Dept. of Health and Physical Education, Washburn University, Topeka, KS

FELLOWSHIPS

2000 – 2003 NIH Postdoctoral Trainee

AWARDS

2008 Dean's Award for Outstanding Performance in Teaching

STUDENT AWARDS

2011 L. Brittany Rice, winner, Human Health Graduate Poster Presentation, ECU Research and Creative Achievement Week

2007 Katherine Stephenson & Julia King, 2nd place, Student Research Awards, NC PTA Annual Meeting

2007 Katherine Stephenson & Julia King, runner-up, Human Health Graduate Poster Presentation, ECU Research and Creative Achievement Week

COMPLETED RESEARCH SUPPORT

Research Development Grant from East Carolina University Division of Research and Graduate Studies. Role – PI. Funding period 05/05/05 - 06/15/06. Total direct cost – \$29,150. Total direct and indirect cost – \$29,150.

Research/Creative Activities Grant from East Carolina University Division of Research and Graduate Studies. Role – PI. Funding period 2004-2005 academic year. Total direct cost – \$10,000. Total direct and indirect cost – \$10,000.

Glenn Foundation/AFAR Scholarship for Research in the Biology of Aging, American Federation for Aging Research. Role – PI. Funding period 07/01/97 - 09/30/97. Total direct cost – \$5,500. Total direct and indirect cost – \$5,500.

RESEARCH SUPPORT SUBMITTED

Foundation of Physical Therapy, Clagett Family Research Grant. Role – PI. Total direct cost – \$274,909. Total direct and indirect cost – \$299,634. Submitted 05/10. Not funded.

NIH R15 NIA Academic Research Enhancement Award. Role – PI. Total direct cost – \$300,000. Total direct and indirect cost – \$431,681. Original submission 02/10. Not funded.

NIH R15 NIDDK Academic Research Enhancement Award. Role – PI. Total direct cost – \$150,000. Total direct and indirect cost – \$213,750. Original submission 02/07. First resubmission 10/07. Second resubmission 06/09. Not funded.

NIH K01 NIDDK Mentored Research Scientist Development Award. Role – PI. Total direct cost – \$300,000. Total direct and indirect cost – \$324,000. Submitted 10/07. Original submission 09/06. First resubmission 07/07. Second resubmission 03/09. Not funded.

NIH R03. Role – Co-PI. Total direct cost – \$100,000. Total direct and indirect cost – \$136,955. Submitted 10/07. Not funded.

Research/Creative Activities Grant from East Carolina University Division of Research and Graduate Studies. Role – PI. Total direct cost – \$10,000. Total direct and indirect cost – \$10,000. Submitted 1/07. Not funded.

Research Institute funding from East Carolina University Chancellor's Office. Role – project member. Submitted a pilot project as PI. Total direct cost – \$50,000. Total direct and indirect cost – \$50,000. Submitted 10/03. Entire institute was not funded.

PUBLICATIONS

Jones TE, Stephenson KW, King JG, Knight KR, Marshall TR and Scott WB (2009) Sarcopenia – mechanisms and treatments. *J Geriatr Phys Ther*, 32:39-45

Jones TE, Basillo J, Brophy P, McCammon M and Hickner RC (2009) Long-term exercise training in overweight adolescents improves plasma peptide YY and resistin. *Obesity* 17:1189-1195

Boschek CB, **Jones TE**, Smallwood HS, Squier TC, Bigelow DJ. (2008) Loss of the calmodulin-dependent inhibition of the RyR1 calcium release channel upon oxidation of methionines in calmodulin. *Biochemistry* 47:131-142

Boschek CB, **Jones TE**, Squier TC, Bigelow DJ. (2007) Calcium occupancy of N-terminal sites within calmodulin induces inhibition of the ryanodine receptor calcium release channel. *Biochemistry* 46:10621-10628

Wright DC, Geiger PC, Han DH, **Jones TE**, Holloszy JO (2007) Calcium induces increases in peroxisome proliferator-activated receptor γ coactivator-1 α and mitochondrial biogenesis by a pathway leading to p38 mitogen-activated protein kinase activation. *J Biol Chem* 282:18793-18799.

Wright DC, Han DH, Garcia-Roves PM, Geiger PC, **Jones TE**, Holloszy JO (2007) Exercise-induced mitochondrial biogenesis begins before the increase in muscle PGC-1 α expression. *J Biol Chem* 282:194-199

Garcia-Roves PM, **Jones TE**, Otani K, Han DH, Holloszy JO (2005) Calcineurin does not mediate exercise-induced increase in muscle GLUT4. *Diabetes* 54:624-628

Garcia-Roves PM, Han DH, Song Z, **Jones TE**, Hucker KA, Holloszy JO (2003) Prevention of glycogen supercompensation prolongs the increase in muscle GLUT4 after exercise. *Am J Physiol Endocrinol Metab* 285:E729-736

Baar K, Song Z, Semenkovich CF, **Jones TE**, Han D-H, Nolte L, Ojuka EO, Chen M, Holloszy JO (2003) Skeletal muscle overexpression of nuclear respiratory factor 1 increases glucose transport capacity. *FASEB J* 17:1666-1673

Ojuka EO, **Jones TE**, Han D-H, Chen M, Holloszy JO (2003) Raising Ca²⁺ in L6 myotubes mimics effects of exercise on mitochondrial biogenesis in muscle. *FASEB J* 17:675-681

- Jones TE**, Baar K, Ojuka E, Chen M, Holloszy JO (2003) Exercise induces an increase in muscle UCP3 as a component of the increase in mitochondrial biogenesis. *Am J Physiol Endocrinol Metab* 284:E96-101
- Baar K, Wende AR, **Jones TE**, Marison M, Nolte LA, Chen M, Kelly DP, Holloszy JO (2002) Adaptations of muscle to exercise: rapid increase in the transcriptional coactivator PGC-1. *FASEB J* 16:1879-86
- Ojuka EO, **Jones TE**, Han DH, Chen M, Wamhoff BR, Sturek M, Holloszy JO (2002) Intermittent increases in cytosolic Ca²⁺ stimulate mitochondrial biogenesis in muscle cells. *Am J Physiol Endocrinol Metab* 283:E1040-E1045
- Fisher JS, Nolte LA, Kawanaka K, Han DH, **Jones TE**, Holloszy, JO (2002) Glucose transport rate and glycogen synthase activity both limit skeletal muscle glycogen accumulation. *Am J Physiol Endocrinol Metab* 282:E1214-E1221
- Ojuka EO, **Jones TE**, Nolte LA, Chen M, Wamhoff BR, Sturek M, Holloszy JO (2002) Regulation of GLUT 4 biogenesis in muscle: evidence for involvement of AMPK and Ca²⁺. *Am J Physiol Endocrinol Metab* 282:E1008-E1013
- Chen B, **Jones TE**, Bigelow DJ (1999) The nucleotide-binding site of the sarcoplasmic reticulum Ca-ATPase is conformationally altered in aged skeletal muscle. *Biochemistry* 38:14887-14896
- Ferrington DA, **Jones TE**, Qin Z, Miller-Schlyer M, Squier TC, Bigelow DJ (1997) Decreased conformational stability of the sarcoplasmic reticulum Ca-ATPase in aged skeletal muscle. *Biochem Biophys Acta* 1330:233-247

INVITED TALKS

American College of Sports Medicine 51st Annual Meeting Mini-Symposium, 06/04/04. Altered regulation of the ryanodine receptor by oxidized calmodulin.

ABSTRACTS/POSTER PRESENTATIONS

Jones TE, Rice LB, Williams JE, Pearce MM. Transcriptional regulation of skeletal muscle GLUT4 by elevated long chain fatty acids. *Experimental Biology*, 04/11

King JG, Stephenson KW, **Jones TE**. Calcium elevates GLUT4 transcriptional activity in the presence of elevated fatty acids. North Carolina Physical Therapy Association Fall Conference, 06/07

Jones TE, Stephenson KW, King JG. Calcium elevates GLUT4 transcriptional activity in the presence of elevated fatty acids. American Diabetes Association, 06/07

Cummings D, **Jones TE**, Stephenson KW, and King JG. Effect of diabetes and obesity on CRP and IL-6 Levels: population-based results. American Diabetes Association, 06/06. (Accepted for publication only.)

Jones TE, McCammon MR, Basilio J, Brophy P, and Hickner RC. Alterations in CVD risk factors and satiety hormones in overweight adolescents with vigorous exercise training. American College of Sports Medicine, 05/06

Five at university events (Graduate Student Research Day 03/06, Graduate Student Research Week 03/07, Diabetes and Obesity Center of ECU Research Day 05/07, Rehab and Allied Health Research Day 11/07, Research and Creative Achievement Week 04/11)

GRADUATE STUDENTS TRAINED

Ellis Jensen, PhD Dissertation, Dept. of Exercise and Sport Science, co-mentor

GRADUATE COMMITTEES

Hoke Whitworth, Master's Thesis, Dept. of Exercise and Sport Science, committee member

William Mixon, (09/10 –) Master's Thesis, Dept. of Exercise and Sport Science, committee member

Sarah George, Master's Thesis, Dept. of Exercise and Sport Science, committee member

DPT STUDENT PROJECTS DIRECTED

Brittany Rice
Meghan Belanger
Eamon Doherty
Matthew Duncan
Jonathan Williams
Johanna Stanley Murrell
Aaron Wooten
Kenneth McConnaughey
Rachel Schnegelberger
Katherine Parrish
Katherine Stephenson
Julia King
Kylie Knight

TEACHING RESPONSIBILITIES

PTHE 8700 Cardiovascular and Pulmonary Rehabilitation
PTHE 8704 Health Promotion for Physical Therapists
PTHE 8502 Muscle Physiology
PTHE 8901 Advances in Muscle Research
PTHE 8907 Research Concentration

PROFESSIONAL ACTIVITIES

University	Member, Institutional Biosafety Committee
Departmental	Member, Personnel Committee

Memberships

American Diabetes Association
American Physiological Society
ECU Pediatric Healthy Weight Research and Treatment Center
East Carolina Diabetes and Obesity Institute