

CURRICULUM VITAE

PERSONAL

NAME: Philip M. Gallagher, Ph.D.
ADDRESS: 1301 Sunnyside Ave.
 Robinson Center Room 101 DJ
 Lawrence, KS 66045
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EDUCATION

Ball State University, Muncie, IN 47306
 Doctor of Philosophy in Human Bioenergetics 1997 – 2000
Northern Michigan University, Marquette, MI 49855
 Master of Science in Exercise Science 1994 – 1997
University of Wisconsin - Green Bay, Green Bay, WI 54311
 Bachelor of Science in Human Biology 1989 – 1994

POSTDOCTORAL TRAINING

Muscle Physiology, Ball State University 2000 – 2004

PROFESSIONAL EXPERIENCE

University of Kansas – Department of Health, Sports and Exercise Sciences
 Director of the Applied Physiology Laboratory 2005 – Present
 Assistant Professor 2004 – Present
University of Kansas Medical Center – Department of Neurology
 Assistant Professor – Secondary Appointment 2005 – Present
Ball State University – Human Performance Laboratory
 Post – Doctoral Fellow 2000 – 2004
 Doctoral Fellow 1997 – 2000
Northern Michigan University
 Graduate Assistant in the Physical Education Department 1994 – 1996

AFFILIATIONS

Associate of the Gerontology Center
 University of Kansas 2006 – Present
Center for Physical Activity, Nutrition & Weight Management
 University of Kansas 2008 – Present
Neuromuscular and Movement Disorders Division: Institute for Neurological Disorders
 University of Kansas Medical Center 2009 – Present

HONORS AND AWARDS

- Joyce Elaine Pauls-Morgan Teaching Award, Department of Health, Sports and Exercise Science at the University of Kansas (2009).
- Faculty Achievement Award: Promising Scholar, School of Education at the University of Kansas (2008).
- Accepted to Baltic Summer School - Signaling in muscle metabolism (August – September 2002).
- Inducted into University of Wisconsin – Green Bay Phoenix Hall of Fame (2000).
- Nominated for Chancellors Leadership Medallion and University Leadership Award, University of Wisconsin - Green Bay (1994).
- Individual Qualifier for NCAA National Championships in Cross-Country Skiing (1991, 1992, and 1994).

PUBLICATIONS

1. **Richmond, S, C Touchberry, P Gallagher.** Forskolin attenuates the action of insulin on the Akt/mTOR pathway in human skeletal muscle. *Appl Physiol Nutri Metab*, (in press).
2. **Sogabe, A, N Mukai, S Miyakawa, N Mesaki, K Maeda, T Yamamoto, P Gallagher, M Schragar, A Fry.** Influence of knee alignment on quadriceps cross-sectional area, *Journal of Biomechanics* 42: 2313-2317. 2009.
3. **Trappe, S, D Costill, P Gallagher, A Creer, J Peters, H Evans, D Riley, R Fitts.** Exercise in Space: Skeletal muscle after 6 months aboard the international space station. *J Appl Physiol*, 106: 1159-1168, 2009.
4. **Wacker, M, M Tehel, P Gallagher.** Technique for quantitative RT-PCR analysis directly from single muscle fibers. *J Appl Physiol*, 105: 308-15, 2008.
5. **Touchberry, C, T Le, S Richmond, M Prewitt, D Beck, D Carr, P Vardiman, P Gallagher.** Diathermy treatment increases heat shock protein expression in female, but not male skeletal muscle. *Eur J Appl Physiol*, 102:319-23, 2008.
6. **Trappe, S, M Harber, A Creer, P Gallagher, D Slivka, K Minchev and D Whitsett.** Single Muscle Fiber Adaptations with Marathon Training. *J Appl Physiol*, 101: 721-727, 2006.
7. **Creer, A, P Gallagher, D Slivka, B Jemiolo, W Fink, S Trappe.** Influence of pre-exercise muscle glycogen levels on mitogenic responses to resistance exercise. *J Appl Physiol*, 99: 950–956, 2005.
8. **Gallagher, P, M Harber, A Creer, S Mazzetti, T Trappe, B Alkner, P Tesch, S Trappe.** Effects of 84-days of bedrest and resistance training on single muscle fibre myosin heavy chain distribution in human vastus lateralis and soleus muscles. *Acta Physiol Scand*, 185:61-69, 2005.
9. **Raue, U, Terpstra, B, Williamson, D, P Gallagher, S Trappe.** Effects of short-term concentric vs. eccentric resistance training on single muscle fiber MHC distribution in humans. *Int J Sports Med*, 26:339-43, 2005.
10. **Carrol, C, P Gallagher, M Seidle, S Trappe.** Single fiber myosin heavy chain distribution with multiple sclerosis. *Arch Phys Med Rehab*, 86:224-9, 2005.
11. **Harber, M, P Gallagher, A Creer, K Minchev, and S Trappe.** Single muscle fiber contractile properties during a competitive season in male runners. *Am J Physiol: Regul Integr Comp Physiol*, 278:R1124-R1131, 2004.
12. **Trappe, S, T Trappe, P Gallagher, M Harber, B Alkner, P Tesch.** Human single muscle fibre function with 84 day bed-rest and resistance exercise. *J Physiol (Lond)*, 557:501-513, 2004.

13. **Trappe, S, P Gallagher, M Harber, J Carrithers, and T Trappe.** Aging Human Skeletal Muscle: Single Muscle Fiber Contractile Properties. *J Physiol (Lond)*, 552: 47-58, 2003.
14. **Williamson, D, P Gallagher, M Harber, S Hollon, T Sevier, and S Trappe.** Mitogen-activated protein kinase (MAPK) pathway activation: Effects of age and acute exercise on human skeletal muscle. *J Physiol (Lond)*, 547:977-87, 2003.
15. **Harber, M, P Gallagher, J Trautmann, S Trappe.** Myosin heavy chain composition of single fibers in male distance runners. *Int J Sports Med*, 23: 484-488, 2002.
16. **Godard, M, P Gallagher, U Raue, D Williamson, D Costill, S Trappe.** Alterations in single fiber calcium sensitivity with resistance training in older women. *Pflugers Arch*, 444: 419-425, 2002.
17. **Williamson, D, P Gallagher, C Carrol, U Raue, S Trappe.** Reduction in hybrid single muscle fiber proportions with resistance training in humans. *J Appl Physiol*, 91:1955-1961, 2002.
18. **Schulze, K, P Gallagher, and S Trappe.** A resistance training countermeasure to preserve skeletal muscle function during unloading. *Med Sci Sports Exerc*, 34: 303-313, 2002.
19. **Trappe S, M Godard, P Gallagher, C Carroll, G Rowden, D Porter.** Resistance training improves single muscle fiber contractile function in older women. *Am J Physiol: Cell Physiol*, 281:C398-406, 2001.
20. **Gallagher, P, J Carrithers, M Godard, K Schulze, and S Trappe.** β -hydroxy- β -methylbutyrate ingestion part I: Effects on strength and fat free mass. *Med Sci Sports Exerc*, 2:2109-2115, 2000.
21. **Gallagher, P, J Carrithers, M Godard, K Schulze, and S Trappe.** β -hydroxy- β -methylbutyrate ingestion part II: Effects on hematology, hepatic and renal function. *Med Sci Sports Exerc*, 32:2116-2119, 2000.
22. **Watts, P, M Daggett, P Gallagher, and B Wilkins.** Metabolic response during sport rock climbing and the effects of active versus passive recovery. *Int J Sports Med*, 21:185-190, 2000.
23. **Carrithers, J, D Williamson, M Godard, P Gallagher, K Schulze, and S Trappe.** Effects of post-exercise carbohydrate-protein feeding on muscle glycogen restoration. *J Appl Physiol*, 88:1976-1982, 2000.
24. **Watts, P, B Coleman, C Clure, P Gallagher, S Humphreys, P Sustrich, and B Wilkins.** Metabolic and cardiovascular responses to performance on a high ropes course. *J Sports Med Physical Fit*, 39:37-41. 1999.
25. **Sustrich, P, P Gallagher, and D Drewlinger.** Kinematic analysis of an indoor ski jumping simulator. *Proceedings XIII Int Symp Biomechan Sports*, 261-264. 1995.

GRANTS

1. Insulin Sensitivity and Brain Structure in Parkinson's Disease and Parkinson's Disease Dementia. TEVA Neuroscience Research Grant, (\$25,000). **Co-Investigator (J. Burns, PI)**, 1/02/09 – 12/31/09.
2. Inflammatory cytokines, intracellular stress kinases, obesity and aging skeletal muscle. University of Kansas General Research Fund, (\$8654). **Principle Investigator**, 6/01/08 – 5/30/09.
3. Whey protein supplementation with resistance training: Effects on body composition of young adults. Dairy Management, Inc / National Dairy Council, (\$1,410,463). **Co-Investigator (R. Washburn, PI)**, 6/01/07 – 5/31/10.
4. Interaction between age and activity level on skeletal muscle. School of Education Innovative Idea Support Program, (\$15,548). **Principle Investigator**, 12/15/06 – 12/14/07.

5. Effects of various core-temperatures on heat-shock protein expression. University of Kansas General Research Fund, (\$7660). **Principle Investigator**, 7/01/06 – 6/30/07.
6. Effects of amino acid supplementation and resistance exercise on intracellular signaling pathways in skeletal muscle. New Faculty General Research Fund, (\$8,000) **Principal Investigator**, 1/01/05 – 12/31/07.
7. Ball State University New Faculty Research Grant, (\$1,500). **Principal Investigator**, 6/01/02–5/30/03.

PUBLISHED ABSTRACTS

1. **Touchberry, C, A Gupte, G Bomhoff, P Geiger, P Gallagher.** The effect of shock on acute hypertrophic signaling following skeletal muscle damage. *The Physiologist*, 51, 2008.
2. **Gallagher, P, M Tehel, E McCabe, N Gandy, M Wacker.** The effects of resistance exercise on fiber-type specific GLUT4 and insulin-like growth factor-I receptor expression in human skeletal muscle. *FASEB J*, 22, 2008.
3. **Touchberry, C, G. Bomhoff, A. Gupta, P. Geiger, P. Gallagher.** The effect of heat shock on acute hypertrophic signaling following skeletal muscle damage. *FASEB J*, 22, 2008.
4. **Vardiman, J, C Riggs, P Gallagher, C Touchberry.** Immune Response of Collegiate Female Soccer Athletes Participating In Sport Training and Competition. *Journal of Athletic Training*, 43:3-S, 2008.
5. **Gallagher, P, S Richmond, K Dudley, M Prewitt, N Gandy, B Kudrna, C Touchberry.** Interaction of resistance exercise and BCAA supplementation on Akt and p70 s6 kinase phosphorylation in human skeletal muscle. *FASEB J*, 21, 2007.
6. **M Wacker, M Tehel, E McCabe, R Huenergardt and P Gallagher.** Analysis of gene expression directly from single muscle fibers using real time RT-PCR. *FASEB J*, 21, 2007.
7. **Touchberry, C, T Le, S Richmond, M Prewit, D Beck and P Gallagher.** Gender differences in skeletal muscle heat shock proteins induced by diathermy. *FASEB J*, 21, 2007.
8. **Trappe, S, J Peters, P Gallagher, H Evans, A LeBlanc, V Sinitsyn, D Riley, D Costill and R Fitts.** Human skeletal muscle responses to prolonged space flight: whole muscle size and strength. *FASEB J*, 21, 2007.
9. **Fitts, R, J Romatowski, J Peters, S Trappe, P Gallagher, A Creer, D Costill and D Riley.** Human skeletal muscle responses to prolonged spaceflight: functional capacity of single slow and fast fibers. *FASEB J*, 21, 2007.
10. **Gallagher, P, S Richmond, C Touchberry, T Le, P Vardiman, and D Carr.** Effects of Diathermy on Hsp70 Content in Human Skeletal Muscle. *Med Sci Sports Exerc.* 38(11) Suppl 1:S11, 2006.
11. **Haus, J, P Gallagher, J Oleson, S Trappe, B Craig.** AMP-activated protein kinase (AMPK) and calcium/calmodulin-dependent protein kinase II (CAMK II) activation in exercising human skeletal muscle. *FASEB J*, 19, 2005.
12. **Gallagher, P, A Creer, B Jemiolo, S Trappe.** No change in AMPK phosphorylation (Thr172), despite significant decreases in total adenine nucleotide levels in human skeletal muscle. *FASEB Journal*, 19, 2005.
13. **Gallagher, P, M Harber, K Minchev, D Whitsett, S Trappe.** Comparison of gastrocnemius muscle single fiber function between college elite runners and moderately active runners. *Med Sci Sports Exerc*, 36:S339, May 2004.
14. **Trappe, S, M Harber, P Gallagher, K Minchev, D Whitsett.** Effects of marathon run training on single muscle fiber function. *Med Sci Sports Exerc*, 36:S339, May 2004.

15. **Creer, A Y Yang, P Gallagher, M Harber, D Whitsett, S Trappe.** Marathon training alters single muscle fiber MHC distribution. *Med Sci Sports Exerc*, 36:S339, May 2004.
16. **Gallagher, P, B Jemiolo, S Trappe.** ERK 1/2 and TNF-alpha responses to 12-wks of resistance exercise training in young and old men. *FASEB J*, 18, 2004.
17. **Creer, A, Y Yang, P Gallagher, B Jemiolo, S Trappe.** Time course of gene activation in response to moderate running. *FASEB J*, 18, 2004.
18. **Mazzetti, S, P Gallagher, M Harber, A Creer, B Jemiolo, S Trappe.** Mitogenic signaling responses in human skeletal muscle with intense contractions. *FASEB J*, 18, 2004.
19. **Yang, Y, P Gallagher, B Jemiolo, S Trappe.** Time course activation of myogenic and metabolic genes with an acute bout of resistance exercise. *FASEB J*, 18, 2004.
20. **Gallagher, P, M Harber, S Trappe.** Human Single Muscle Fiber Contractile function from multiple biopsies and consecutive fiber segments. *FASEB J*, 17, 2003.
21. **Trappe, S, P Gallagher, M Harber, T Trappe, B Alkner, P Tesch.** Human single muscle fiber function with 84-d bedrest and resistance exercise. *FASEB J*, 17, 2003.
22. **Harber, M, P Gallagher, A Creer, S Mazzetti, T Trappe, B Alkner, P Tesch, S Trappe.** Human single muscle fiber morphology with 84-d bedrest and resistance exercise. *FASEB J*, 17, 2003.
23. **Williamson, D, P Gallagher, M Harber, S Trappe.** Human skeletal muscle mitogen-activated protein kinase (MAPK) pathway activation: effects of age and exercise. *FASEB J*, 17, 2003.
24. **Trappe, S, P Gallagher, M Harber, J Carrithers, W Evans, T Trappe.** Muscle power with aging: Whole muscle and myocellular determinants of quality. *Med Sci Sports Exerc*, 34:S98, 2002.
25. **Carrither, J, S Trappe, P Gallagher, M Harber, D Sullivan, T Trappe.** Muscle strength with aging: Whole muscle and myocellular determinants of quality. *Med Sci Sports Exerc*, 34:S98, 2002.
26. **Raue, U, B Terpstra, D Williamson, P Gallagher, S Trappe.** Effects of concentric vs. eccentric resistance training on single fiber muscle fiber MHC distribution in young men. *Med Sci Sports Exerc*, 34:S98, 2002.
27. **Harber, M, P Gallagher, J Trautmann, S Trappe.** Myosin heavy chain composition of single muscle fibers in male runners. *Med Sci Sports Exerc*, 34:S98, 2002.
28. **Carroll, C, P Gallagher, M Seidle, S Trappe.** Single fiber myosin heavy chain distribution with multiple sclerosis. *Med Sci Sports Exerc*, 34:S98, 2002.
29. **Gallagher, P, M Harber, J Carrithers, T Trappe, S Trappe.** Single muscle fiber quality is maintained with age. *FASEB J*, 16, 2001.
30. **Carrithers, J, S Trappe, P Gallagher, T Trappe.** In-vivo skeletal muscle function with aging. *FASEB J*, 16, 2001.
31. **Harber, M, P Gallagher, J Carrithers, T Trappe, S. Trappe.** Single muscle fiber shortening velocity is not altered with age. *FASEB J*, 16, 2001.
32. **Trappe, S, P Gallagher, M Harber, J Carrithers, T Trappe.** Single muscle fiber power with aging. *FASEB J*, 16, 2001.
33. **Williamson, D, P Gallagher, M Harber, U Raue, S Trappe.** Comparison of three methodologies for fiber type determination in human vastus lateralis muscle. *FASEB J*, 16, 2001.
34. **Godard, M, P Gallagher, U Raue, D Williamson, D Costill, D Porter, G Rowden, S Trappe.** Effects of progressive resistance training on single myofiber calcium sensitivity in older women. *Med Sci Sports Exerc*, 33:S187, 2001.

35. **Gallagher, P, D Williamson, M Godard, J Witter, S Trappe.** Effects of ribose supplementation on adenine concentration in skeletal muscle following high-intensity exercise. *Med Sci Sports Exerc*, 33:S167, 2001.
36. **Trappe, S, D Williamson, M Godard, P Gallagher.** Maintenance of whole muscle strength and size following resistance training in older men. *Med Sci Sports Exerc*, 33:S147, 2001.
37. **Raue, U, P Gallagher, D Williamson, M Godard, S Trappe.** Effects of ribose supplementation on performance during repeated high-intensity cycle sprints. *Med Sci Sports Exerc*, 33:S44, 2001.
38. **Williamson, D, M Godard, P Gallagher, D Costill, and S Trappe.** Single myofibril myosin heavy chain expression among inactive humans: influence of age and gender. *Med Sci Sport Exerc*, 32:S41, 2000.
39. **Carrithers, J, D Williamson, P Gallagher, M Godard, K Shultze, and S Trappe.** Effects of post-exercise carbohydrate-protein feeding on muscle glycogen restoration. *Med Sci Sport Exerc*, 32:S290, 2000.
40. **Gallagher, P, J Carrithers, M Godard, K Schulze, S Trappe.** β -hydroxy- β -methylbutyrate supplementation during resistance training. *Med & Sci Sports Exerc*. 31(5) Suppl:S402, 1999.
41. **Carrithers, J, P Gallagher, S Baier, S Trappe.** Oral ingestion of ORAL INGESTION OF β -hydroxy- β -methylbutyrate: Effects on hematology, hepatic and renal function. *Med & Sci Sports Exerc*. 31(5) Suppl:S121,1999.
42. **Schulze, K, P Gallagher, S Trappe.** A minimalistic model of resistance training: Effects on skeletal muscle function during unloading. *Med & Sci Sports Exerc*. 31(5) Suppl:S329, 1999.
43. **Gallagher, P, M Daggett, R Jensen, P Watts.** Physiological comparison of arm vs. leg vs. combined arm and leg exercise during modified rowing. *Med & Sci Sports Exerc*. 30(5) Suppl:78, 1998.
44. **Gallagher, P, M Daggett, B Wilkins, P Watts.** Effects of sport rock climbing and active vs passive recovery on hand grip force and blood lactate. *Med & Sci Sports Exerc*. 29(5) Suppl:223, 1997.
45. **Watts, P, M Daggett, P Gallagher, B Wilkins.** Continuous assessment of oxygen uptake during and after difficult sport rock climbing. *Med & Sci Sports Exerc*. 29(5) Suppl:223, 1997.
46. **Daggett, M, R Jensen, P Gallagher, E Gannon, P Watts.** Physiological responses elicited by varied terrain while riding a mountain bicycle. *Med & Sci Sports Exerc*. 29(5) Suppl:187, 1997.
47. **Jensen, R, M Daggett, P Gallagher, B Wilkins.** The reliability and validity of the Caltrac[™] activity monitor during stationary cycling at 60 and 90 RPM. *Med & Sci Sports Exerc*. 29(5) Suppl:45, 1997.
48. **Coleman, B, C Clure, P Gallagher, S Humphreys, P Sustrich, B Wilkins, P Watts.** Metabolic and cardiovascular responses to performance on a high ropes course. *Med & Sci Sports Exerc*. 28(5) Suppl:211, 1996.

PRESENTATIONS

1. Heat Shock Proteins and Exercise. *American College of Sports Medicine, Central State Regional Meeting*. Kansas City, Missouri (October, 2008).
2. Skeletal Muscle Physiology. *Integrative Physiology of Exercise*. University of Kansas Medical Center, Kansas City, KS (September 2007).
3. Exercise physiology and aging skeletal muscle. *Neurophysiology Fellows Lecture*. Landon

- Center on Aging, Kansas City, KS (May 2007).
4. Interaction of resistance exercise and BCAA supplementation on Akt and p70 s6 kinase phosphorylation in human skeletal muscle. *Federation of American Societies for Experimental Biology*. Washington, DC, (May, 2007).
 5. Aging muscle: Use it or lose it? *Alzheimer & Memory Seminar Series*, Landon Center on Aging, Kansas City, KS (March 2007).
 6. Effects of diathermy on Hsp70 content in human skeletal muscle. *American College of Sports Medicine Intersociety Meeting: Integrative Biology of Exercise*. Indianapolis, IN (September, 2006).
 7. Muscle wasting with unloading and aging, *University of Kansas Gerontology Center Faculty Colloquium*. Lawrence, KS (April 2006).
 8. Role of exercise in compression of morbidity. *Central Plains Geriatric Education Center Core Conference*. Kansas City, MO (January 2006).
 9. Zvezdny Gorodok: My travels to Stellar Town. *Center for Russian, East European and Eurasian Studies Brown Bag Lunch*. Lawrence, KS (October, 2005).
 10. No change in AMPK phosphorylation (Thr172), despite significant decreases in total adenine nucleotide levels in human skeletal muscle. *Federation of American Societies for Experimental Biology*. San Diego, CA (April, 2005).
 11. Human muscle volume and performance: The effect of 6-months of microgravity. *American Physiological Society Intersociety Meeting: Integrative Biology of Exercise*. Austin, Texas (October, 2004).
 12. Potential mechanisms for skeletal muscle wasting. *American College of Sports Medicine, Central State Regional Meeting*. Kansas City, Missouri (October, 2004).
 13. Comparison of gastrocnemius muscle single fiber function between college elite runners and moderately active runners. *American College of Sports Medicine Annual Meeting*. Indianapolis, Indiana (June, 2004).
 14. ERK 1/2 and TNF-alpha responses to 12-wks of resistance exercise training in young and old men. *Federation of American Societies for Experimental Biology*. Washington, D.C. (April, 2004).
 15. Human single muscle fiber contractile function from multiple biopsies and consecutive fiber segments. *Federation of American Societies for Experimental Biology*. San Diego, California (April, 2003).
 16. Effects of age and resistance training on myosin heavy chain distribution, *Baltic Summer School*. Copenhagen, Denmark (August, 2002).
 17. Single muscle fiber quality is maintained with age. *Federation of American Societies for Experimental Biology*. New Orleans, Louisiana (April, 2002).
 18. Aging and skeletal muscle. *Sports Medicine Lecture Series*. Central Indiana Sport Medicine Clinic, Muncie, Indiana (September, 2001).
 19. Effects of ribose supplementation on adenine nucleotide concentration in skeletal muscle following high-intensity exercise. *American College of Sports Medicine Annual Meeting*. Baltimore, Maryland. (June, 2001).
 20. Single muscle fiber myosin heavy and light chain phenotype changes with resistance training. *Federation of American Societies for Experimental Biology*. Orlando, Florida (April, 2001).
 21. Effects of ribose supplementation on adenine nucleotide concentration in skeletal muscle following high-intensity exercise. *Mid-West Region of the American College of Sports Medicine Annual Meeting*. Grand Rapids, Michigan (October, 2000).

22. β -hydroxy- β -methylbutyrate supplementation during resistance exercise training: Influence of dosage on muscle metabolism. *American College of Sports Medicine Annual Meeting*. Seattle, Washington. (June, 1999).
23. Physiological comparison of arm vs. leg vs. combined arm and leg exercise during modified rowing. *American College of Sports Medicine Annual Meeting*. Orlando, Florida. (June, 1998).
24. No effect of music on performance and physiological parameters during a simulated running race. *American College of Sports Medicine Annual Meeting*. Cincinnati, Ohio. (June, 1996).

TEACHING EXPERIENCE

University of Kansas

| | |
|--|----------------------------------|
| Exercise Biochemistry (U) | S09 |
| Grant Writing (G) | S08 |
| Biochemistry of Exercise (G) | F06, F08 |
| Exercise Physiology (U) | Su06, Su07, F07, Su08, Su09, F09 |
| Clinical Fitness and Evaluation Techniques (U) | Su06 |
| Lab Exper & Analysis – Ex Phys (G) | F05, F06, F08 |
| Intro to Exercise Science (U) | Su05 |
| Proc & Tech in Physical Training (U) | Su05 |
| Adv. Exercise Physiology (G) | S05, S06, S07, F09 |
| Exercise and the Cardiovascular System (G) | S05, S06, S07, S08, S09 |
| Muscle Physiology (G) | F04, F05, F07 |

Ball State University

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|------------------------------------|---------------|
| Exercise Physiology (U) | S02, S04 |
| Physiology (U) | F01, S99 |
| Exercise Physiology Laboratory (U) | F01, F00, F99 |

Northern Michigan University

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|---|--------------------|
| How to Teach Rock Climbing (U) | S97 |
| Exercise Physiology Laboratory (U) | S96, F95, F94 |
| Mechanical Kinesiology Laboratory (U) | S96, S95 |
| Activity Classes: XC Skiing, Mountain Biking, Jogging, Rock Climbing | S96, F95, S95, F94 |

STUDENT MENTORING

Current Doctoral Student

- Becky Kudrna, 3rd year Doctoral (PhD) student in the Department of Health, Sport and Exercise Sciences (Exercise Physiology), School of Education - University of Kansas.
- Nicole Gandy, 3rd year Doctoral (PhD) student in the Department of Health, Sport and Exercise Sciences (Exercise Physiology), School of Education - University of Kansas.
- Yahya Alayafi, 1st year Doctoral (PhD) student in the Department of Health, Sport and Exercise Sciences (Exercise Physiology), School of Education - University of Kansas.

Past Doctoral Students

- Chad Touchberry, (PhD) Graduated in August 2009, Department of Health, Sport and Exercise Sciences (Exercise Physiology), School of Education - University of Kansas.
- Scott Richmond, (PhD) Graduated in May 2007, Department of Health, Sport and Exercise Sciences (Exercise Physiology), School of Education - University of Kansas.

Current Masters Students

- Justin Fletcher, 2nd year Masters (MS) student in the Department of Health, Sport and Exercise Sciences (Exercise Physiology), School of Education - University of Kansas.
- Zachary Graham, 2nd year Masters (MS) student in the Department of Health, Sport and Exercise Sciences (Exercise Physiology), School of Education - University of Kansas.
- Mallory McCartney, 1st year Masters (MS) student in the Department of Health, Sport and Exercise Sciences (Exercise Physiology), School of Education - University of Kansas.

Past Masters Students

- Michael Prewitt, (MS) Graduated in August 2009, Department of Health, Sport and Exercise Sciences (Exercise Physiology), School of Education - University of Kansas.
- Laura Jefferies, Masters (MS) Graduated in December 2008, Department of Health, Sport and Exercise Sciences (Exercise Physiology), School of Education - University of Kansas.
- Kelli Dudley, Masters (MS) Graduated in May 2006, Department of Health, Sport and Exercise Sciences (Exercise Science), School of Education - University of Kansas.

Current Undergraduate Students Currently Working In the Applied Physiology Laboratory

- Jeremy Bustamante, Undergraduate student in the College of Liberal Arts and Sciences

PROFESSIONAL MEMBERSHIPS

- American College of Sports Medicine (ACSM)
- American Physiological Society (APS)
- Central States Regional Chapter of ACSM

PROFESSIONAL SERVICE

Currently serve on the following University of Kansas committees:

- Human Subjects Committee, Lawrence Campus

Currently serve on the following School of Education committees:

- Graduate Studies Committee
- Multicultural Committee

Currently serve on the following Health Sports and Exercise Science departmental committees:

- Graduate Curriculum Committee, Chair
- Awards and Scholarship Committee

Program Coordinator for Exercise Science

Kansas State Representative for Central States Chapter of ACSM (2005 – 2007)

President of the Central States Chapter of ACSM (2007 – 2010; three year term: President Elect, President and Past-President)

Reviewer for Ball State University's Internal Grant Program (Fall 2003)

Manuscript Reviewer:

- Journal of Physiology
- Medicine and Science in Sports and Exercise
- International Journal of Sports Medicine and Physical Fitness
- Journal Sports Medicine and Physical Fitness
- Journal of Applied Physiology
- Muscle and Nerve
- Journal of Sports Science and Medicine