

# University of Louisiana at Lafayette

## College of Education Faculty Curriculum Vitae Information

### Scott Fuller, Ph.D.

Title Department Office Number Extension Email Address	Assistant Professor Kinesiology Bourgeois Hall 109-A 482-5618 Scott.fuller@louisiana.edu
Education	PhD, Kinesiology, Louisiana State University. M.S., Kinesiology, Louisiana State University. B.A., History, Louisiana State University.
Teaching Philosophy	Teaching at the university level provides an opportunity to engage with students with a view towards their future role as leaders in their chosen field of work and in the community at large. One of my most important tasks as a university teacher is to provide students with an understanding of the value of the scientific method and evidence-based practice in providing service to the community as educated professionals. Specifically, through lectures, case studies, and laboratory experiences I seek to provide students with opportunities to discover empirically the biological mechanisms governing responses to exercise in a continuing quest to ameliorate the burden of chronic disease and enhance health and human performance.
Bio	Dr. Fuller has maintained a keen interest in exercise ever since participating in sports throughout his primary and secondary school years. This interest eventually led him to complete a doctoral degree in Kinesiology at LSU under the mentorship of Dr. Arnold Nelson. Upon completion of his doctoral degree, Dr. Fuller was awarded an NIH Ruth L. Kirschstein National Research Service Award to serve as a post-doctoral fellow at the Botanical Dietary Supplements Research Center of the Pennington Biomedical Research Center in Baton Rouge. During his three years as a post-doctoral fellow, Dr. Fuller authored publications on metabolism in internationally recognized journals such as <i>Proceedings of the National Academy of Sciences</i> and <i>Advances in Nutrition</i> . Dr. Fuller aims to continue exploration of how exercise and dietary strategies can be combined to combat obesity and

	Type 2 diabetes, which currently are among the most significant public health challenges facing the United States.
Courses Taught	KNES 450 – Exercise Testing and Prescription KNES 504 – Advanced Exercise Physiology KNES 499 – Internship in Kinesiology
Research Interests	Dr. Fuller’s research interests are focused on interactions between diet, exercise, and energy metabolism. He focuses on basic research in animal models of obesity and diabetes to help unravel the molecular mechanisms by which exercise and diet can modulate fuel metabolism in insulin-sensitive tissues. This research is aimed at determining optimal dietary and exercise interventions in an effort to prevent and reverse insulin resistance and obesity.
Teaching Experience	LSU 2005 – 2010 <ul style="list-style-type: none"> <li>• Exercise Physiology</li> <li>• Principles of Conditioning</li> <li>• Exercise Physiology Lab</li> <li>• First Aid</li> <li>• Weight Training</li> </ul>
Publications	<p><b>Fuller, S.,</b> &amp; Stephens, J. M. (2015). Diosgenin, 4-hydroxyisoleucine, and fiber from fenugreek: mechanisms of actions and potential effects on metabolic syndrome. <i>Adv Nutr</i>, 6(2), 189-197. doi:10.3945/an.114.007807</p> <p>Wicks, S. E., Vandanmagsar, B., Haynie, K. R., <b>Fuller, S. E.,</b> Warfel, J. D., Stephens, J. M., . . . Mynatt, R. L. (2015). Impaired mitochondrial fat oxidation induces adaptive remodeling of muscle metabolism. <i>Proc Natl Acad Sci U S A</i>, 112(25), E3300-3309. doi:10.1073/pnas.1418560112</p> <p>Richard, A. J., <b>Fuller, S.,</b> Fedorcenco, V., Beyl, R., Burris, T. P., Mynatt, R., . . . Stephens, J. M. (2014). <i>Artemisia scoparia</i> enhances adipocyte development and endocrine function in vitro and enhances insulin action in vivo. <i>PLoS One</i>, 9(6), e98897. doi:10.1371/journal.pone.0098897</p> <p><b>Fuller, S.,</b> Richard, A. J., Ribnicky, D. M., Beyl, R., Mynatt, R., &amp; Stephens, J. M. (2014). St. John's Wort Has Metabolically Favorable Effects on Adipocytes In Vivo. <i>Evid Based Complement Alternat Med</i>, 2014, 862575. doi:10.1155/2014/862575</p>
Presentations	<b>Fuller, SE.,</b> Worsham, E., Simon, J., Gettys, TW., Mynatt, RL., Noland, RC. “Energy sensing pathways differentially

regulate peroxisomes in skeletal muscle vs. liver.” American Physiological Society Invited Oral Presentation, Experimental Biology Annual Conference, San Diego, CA. 2016.

**Fuller, SE.**, Boudreau, A., Ribnicky, D., Stephens, JM. “Baccharis halimifolia promotes adipocyte development and enhances adiponectin expression *in vitro*.” Poster presentation, Experimental Biology Annual Conference, American Society for Nutrition, San Diego, CA. 2016.

**Fuller, S.E.**, Simon, J., Batdorf, H.M., Worsham, E.A., Brown, J.M., Baes, M., Burke, S.J., Collier, J., and Noland, R.C. Quercetin-enriched red onion extract modulation of peroxisomes in skeletal muscle. Poster Presented at the NIH Botanical Dietary Research Center Director’s Meeting. Bethesda, MD. 2016.

Noland RC, Worsham EA, Simon J, **Fuller SE**, Baes M, Ghosh S, Mynatt RL. Peroxisomes in skeletal muscle protect against lipid-induced insulin resistance. Experimental Biology Annual Conference. San Diego, 2016.

Davis, GR., **Fuller, SE.**, Daray, L., Nelson, AG., Stephens, JM., Datri, J., Stewart, LK. “The effects of marathon training versus combined training on plasma c-reactive protein and adiponectin in young, healthy females.” Poster presentation, National Strength and Conditioning Association Annual Meeting, Orlando, FL. 2015.

Richard, A.J., **Fuller, S.**, Fedorcenco, V., Beyl, R., Mynatt, R., Ribnicky, D.M., and Stephens, J.M. Artemisia scoparia enhances adipocyte development and endocrine function in vitro and enhances insulin action in vivo. *Faseb Journal*. 2014; 28.

**Fuller, S**, Richard, AJ, Ribnicky, D, Mynatt, RL, and Stephens, JM. The modulation of adipose tissue insulin sensitivity by St. John’s Wort in vivo. NIH NCCAM Botanical Research Centers Annual Meeting, 2013.

**Fuller S**, Nelson A, Stewart L, Henagan T, and Waldrop G. Effect of high- and low-carbohydrate diets on glycogen branching enzyme activity in the liver of C57BL/6J mice. *Faseb Journal*. 2013;27.

	<b>Fuller SE</b> , and Stewart LK. Cortisol response to an acute bout of static stretching. <i>Faseb Journal</i> . 2010;24.
Grants	<ul style="list-style-type: none"> <li>• 2016 – Faculty Travel Grant, UL at Lafayette</li> <li>• 2015 – NIH National Center for Complementary and Integrative Health Pilot and Feasibility Grant, Awarded by the PBRC Botanical Research Center. “Quercetin-Enriched Red Onion Extract Modulation of Peroxisomes in Skeletal Muscle.” Role: Co-PI</li> </ul>
Conferences Attended	<p>2016 – American Physiological Society, Integrative Biology of Exercise Annual Conference, Phoenix, AZ.</p> <p>2015 – Institute for Strategic Funding Development Grant Preparation Workshop, Tulane University.</p> <p>2015 – “Climate Changes at NIH and Application Strategies.” Health Research Associates. Pennington Biomedical Research Center, Baton Rouge, LA.</p> <p>2015 – Experimental Biology Annual Conference, American Society for Nutrition, San Diego, CA.</p> <p>2014 – Experimental Biology Annual Conference, American Society for Biochemistry and Molecular Biology, San Diego, CA.</p> <p>2014 – “Grantsmanship Strategy.” Health Research Associates. Pennington Biomedical Research Center, Baton Rouge, LA.</p> <p>2013 – Experimental Biology Annual Conference, American Physiological Society, Boston, MA.</p> <p>2010 – Experimental Biology Annual Conference, American Physiological Society, Anaheim, CA.</p>
Professional Memberships	American Physiological Society American Society for Nutrition
Awards	NIH T32 Ruth L. Kirschstein National Research Service Award, support for post-doctoral research from 2013 to 2016 at Pennington Biomedical Research Center.
Additional Skills	Proficient in spoken and written German.
Dissertation	“Factors Influencing Glycogen Branching Enzyme in Mouse Liver.” This project examined the effect of quercetin, a bioactive phytochemical compound, on the activity of glycogen branching enzyme in mouse liver. Mentor: Dr. Arnold Nelson, Professor, LSU School of Kinesiology.
Other Professional Experience	Volunteer Strength and Conditioning Coach, LSU Men’s Tennis, 2007 -2008.
Service	Member, UL at Lafayette School of Kinesiology Exercise Science Committee. 2016 – current.

	Member, UL at Lafayette School of Kinesiology Ad Hoc Committee on Faculty Research. 2017 – current.
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