

# Shuichi Sato, Ph.D., ATC

Bourgeois Hall Room 134-A

Lafayette, LA 70503

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As of April 2019

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## **1. Current position:**

Assistant Professor (Tenure Track) & Program Coordinator, Exercise Science, School of Kinesiology, University of Louisiana at Lafayette

Researcher, New Iberia Research Center, University of Louisiana at Lafayette

## **2. Education/Training:**

Institution & location	Degree	Year(s)	Field of Study
Sophia University, Tokyo, Japan	BS	1994	Chemistry
Sophia University, Tokyo, Japan	MS	1996	Chemistry
Univ. of Southern Mississippi, Hattiesburg, MS	BS	2003	Athletic Training
Univ. of Southern Mississippi, Hattiesburg, MS	MS	2005	Exercise Science
Univ. of South Carolina, Columbia, SC	Ph.D.	2012	Applied Physiology
Univ. of Louisville SOM, Louisville, KY	Post doc	2015	Cell Biology

## **3. Research experience:**

### **University of Louisiana at Lafayette, Lafayette, LA (2015 - Current)**

**Principle Investigator**, Exercise Science, School of Kinesiology

### **University of Louisville, Louisville, KY (2012 – 2015)**

**Postdoctoral Fellow**, Department of Anatomical Sciences & Neurobiology, School of Medicine

**Mentor:** Dr. Ashok Kumar

### **University of South Carolina, Columbia, SC (2006 - 2012)**

**Graduate Research Assistant**, Department of Exercise Science, Arnold School of Public Health

**Mentor:** Dr. James Carson (Integrative Muscle Biology Lab)

**Dissertation:** The effect of sex and exercise training during the progression of cancer cachexia in the ApcMin/+ Mouse.

### **Sophia University, Tokyo, Japan (1994 - 1996)**

**Graduate Student**, Department of Chemistry, Faculty of Science and Technology

**Mentors:** Drs. Gen P. Sato and Haruko Ikeuchi (Analytical Chemistry Lab)

**Thesis:** The viscosities of [tris(acetylacetonato) cobalt(III)] in some organic solvents.

### **Sophia University, Tokyo, Japan (1993 – 1994)**

**Undergraduate Student**, Department of Chemistry, Faculty of Science and Technology

**Mentor:** Dr. Gen P. Sato (Analytical Chemistry Lab)

**Thesis:** The partial molar volumes of [tris(acetylacetonato) cobalt(III)] in some organic solvents.

## **4. Publication:**

1. **Sato S**, Gao S, Puppa MJ, Kostek MC, Wilson LB, Carson JA. **High-Frequency Stimulation on Skeletal Muscle Maintenance in Female Cachectic Mice**. *Med Sci Sports Exerc*. 2019 Mar 30. doi: 10.1249/MSS.0000000000001991.
2. Hindi SM, **Sato S**, Xiong G, Bohnert KR, Gibb AA, Gallot YS, McMillan JD, Hill BG, Uchida S, Kumar A. **TAK1 regulates skeletal muscle mass and mitochondrial function**. *JCI Insight*. 2018 Feb 8;3(3). pii: 98441.
3. Bohnert KR, Gallot YS, **Sato S**, Xiong G, Hindi SM, Kumar A. **Inhibition of ER stress and unfolding protein response pathways causes skeletal muscle wasting during cancer cachexia**. *FASEB J*. 2016 Sep;30(9):3053-68.
4. Hardee JP, Mangum J, Gao S, **Sato S**, Hetzler KL, Puppa MH, Fix D, and Carson JA. **Effect of cachexia severity on eccentric contraction-induced myofiber growth in tumor-bearing mice**. *J Appl Physiol* (1985). 2016 Jan 1;120(1):29-37. doi: 10.1152/jappphysiol.00416.2015.
5. Ogura Y, Hindi SM, **Sato S**, Xiong G, and Kumar A. **TAK1 is a critical regulator of satellite stem cell homeostasis and skeletal muscle repair**. *Nat Commun*. 2015 Dec 9;6:10123. doi: 10.1038/ncomms10123.
6. **Sato S**, Ogura Y, Tajrishi MM, and Kumar A. **Elevated levels of TWEAK in skeletal muscle promote visceral obesity, insulin resistance, and metabolic dysfunction**. *FASEB J*. 2015 Mar;29(3):988-1002.
7. Hetzler KL, Hardee JP, Puppa MH, Narsale AA, **Sato S**, Davis JM, Carson JA. **Sex differences in the relationship of IL-6 signaling to cancer cachexia progression**. *Biochim Biophys Acta*. 2015 May;1852(5):816-25.
8. Ogura Y, Tajrishi MM, **Sato S**, Hindi SM, and Kumar A. **Therapeutic potential of matrix metalloproteinases in muscular dystrophy**. *Front. Cell Dev. Biol.*, 01 April 2014 | doi: 10.3389/fcell.2014.00011.
9. Tajrishi MM, **Sato S (Equal contribution)**, Shin J, and Kumar A. **The TWEAK-Fn14 signaling axis mediates age-associated fiber atrophy, inflammation, and interstitial fibrosis in skeletal muscle of mice**. *Biochem Biophys Res Commun*. 2014 Mar 26. pii: S0006-291X(14)00533-6. doi: 10.1016/j.bbrc.2014.03.084.
10. **Sato S**, Ogura Y and Kumar A. **TWEAK/Fn14 signaling axis mediates skeletal muscle atrophy and metabolic dysfunction**. *Front. Immunol*. 5:18. doi: 10.3389/fimmu.2014.00018.
11. Hindi SM, **Sato S**, Choi Y, Kumar A. **Distinct roles of TRAF6 at early and late stages of muscle pathology in the mdx model of Duchenne muscular dystrophy**. *Hum Mol Genet*. 2014 Mar 15;23(6):1492-505.
12. **Sato S**, Ogura Y, Mishra V, Shin J, Bhatnagar S, Hill BG, Kumar A. **TWEAK promotes exercise intolerance by decreasing skeletal muscle oxidative phosphorylation capacity**. *Skelet Muscle*. 2013 Jul 8;3(1):18. doi: 10.1186/2044-5040-3-18.
13. White JP, Puppa MJ, Gao S, **Sato S**, Welle SL, and Carson JA. **Muscle mTORC1 suppression by IL-6 during cancer cachexia: a role for AMPK**. *Am J Physiol Endocrinol Metab*. 2013 May 15;304(10):E1042-52. doi: 10.1152/ajpendo.00410.2012. Epub 2013 Mar 26.
14. Lima M, **Sato S**, Enos RT, Baynes JW, and Carson JA. **Development of an UPLC mass spectrometry method for measurement of myofibrillar protein synthesis: application to analysis of murine muscles during cancer cachexia**. *J Appl Physiol*. 2013 Mar 15;114(6):824-8. doi: 10.1152/jappphysiol.01141.2012. Epub

2013 Jan 17.

15. White JP, Gao S, Puppa MJ, **Sato S**, Welle SL, and Carson JA. **Testosterone regulation of Akt/mTORC1/FoxO3a signaling in skeletal muscle.** Mol Cell Endocrinol. 2013 Jan 30;365(2):174-86. doi: 10.1016/j.mce.2012.10.019. Epub 2012 Oct 29.
16. White JP, **Sato S**, Puppa MJ, Baynes JW, Kostek, MC, Matesic LE and Carson JA. **IL-6 regulation of muscle mitochondrial biogenesis and fission/fusion dynamics during the progression of cancer cachexia.** Skeletal Muscle. 2012 Jul 6;2:14. doi: 10.1186/2044-5040-2-14.
17. Puppa MJ, White JP, Velasquez KT, Baltgalvis KA, **Sato S**, Baynes JW, and Carson JA. **The Effect of Exercise on IL-6-induced Cachexia in the *Apc<sup>Min/+</sup>* mouse.** J Cachexia Sarcopenia Muscle. 2012 Jun;3(2):117-37. doi: 10.1007/s13539-011-0047-1. Epub 2011 Nov 30.
18. Puppa MJ, White JP, **Sato S**, Cairns M, Baynes JW, and Carson JA. **Gut barrier dysfunction in the *Apc<sup>Min/+</sup>* mouse model of colon cancer cachexia.** Biochimica et Biophysica Acta – Molecular Basis of Disease. Dec;1812(12):1601-6. Epub 2011 Sep 2.
19. White JP, Baynes JW, Welle SL, Kostek MC, Matesic LE, **Sato S**, and Carson JA. **The regulation of skeletal muscle protein turnover during the progression of cancer cachexia in the *Apc<sup>Min/+</sup>* mouse.** PLoS One. 2011. 6(9):e24650. Epub 2011 Sep 19.
20. **Sato S.** **The effect of growth factors and anabolic agents on skeletal muscle regeneration.** Journal of health, physical education, and recreation. Vol.61 No.4, 2011. p.277-283.
21. Washington TA, White JP, Davis JM, Wilson LB, Lowe LL, **Sato S**, and Carson JA. **Skeletal muscle mass recovery from atrophy in IL-6 knockout mice.** Acta Physiol (Oxf). Acta Physiol (Oxf). 2011 Aug;202(4):657-69.
22. White JP, Baltgalvis KA, Puppa MJ, **Sato S**, Baynes JW, Carson JA. **Muscle oxidative capacity during IL-6 dependent cancer cachexia.** Am J Physiol Regul Integr Comp Physiol; 2011 Feb;300(2):R201-11.
23. White JP, Baltgalvis KA, **Sato S**, Wilson LB, Carson JA. **The effect of nandrolone decanoate administration on recovery from bupivacaine-induced muscle injury.** J Appl Physiol. 2009 Nov;107(5):1420-30.
24. White JP, Reecy JM, Washington TA, **Sato S**, Le ME, Davis JM, Wilson LB, Carson JA. **Overload-induced skeletal muscle extracellular matrix remodelling and myofibre growth in mice lacking IL-6.** Acta Physiol (Oxf). 2009 Dec;197(4):321-32.

#### **4. Scholarly/Conference presentations and abstract publications:**

##### **National/International Conference**

1. **Sato S**, Boudreaux SP, Bellar DM. The Effect of Royal Jelly on Satellite Cell Activation in Aged Monkey Muscle Cells. Experimental Biology, Orlando, FL (2019).
2. Anderson KA, Walker ER, Abston LH, and **Sato S**. Impaired compensatory muscle hypertrophy following 7 days of functional overload in *Apc<sup>Min/+</sup>* Mice. SEACSM annual meeting. Greenville, SC (2019). Selected as a finalist for undergraduate poster competition.

3. **Sato S**, Pecor IJ, Walker ER, and Nguyen TN. Potential involvement of Yes-Associated Protein in anabolic resistance during mechanical loading in cachectic mice. 11th International Conference on Cachexia, Sarcopenia & Muscle Wasting, Maastricht, Netherlands (2018).
4. Gooden LJ, Lim BW, & **Sato S**. The Role of Hippo Signaling Pathway on Muscle Wasting in ApcMin/+ Mice: A Pilot Study. Experimental Biology, Chicago, IL (2017).
5. **Sato S**. Hindi SM, Xiong G, & Kumar A. Skeletal muscle-specific deletion of TAK1 activates AMPK and autophagy in mice. The Integrative Biology of Exercise VII, Phoenix, AZ (2016).
6. **Sato S**, Hindi SM, Tajrishi MM Xiong G, Kumar A. TAK1 is a key regulator of skeletal muscle maintenance in mice. National ACSM's Annual Meeting and World Congresses, Boston, MA (2016)
7. Bohnert, K, **Sato, S**, Xiong, G, and Kumar, A. Unfolding Protein Response Pathways Attenuates Skeletal Muscle Wasting in Mouse Models of Cancer Cachexia. Advances in Skeletal Muscle Biology in Health and Disease Conference. Gainesville, FL (2016).
8. Bohnert K, **Sato S**, Xiong G, and Kumar A. Unfolded protein response pathways mediates skeletal muscle wasting in mouse models of cancer cachexia. The 2015 Midwest membrane trafficking and signaling symposium. Louisville, KY (2015).
9. **Sato S**, Ogura Y, and Kumar A. Skeletal muscle-specific transgenic overexpression of TWEAK causes metabolic abnormalities and obesity in mice. The Muscle Microenvironment: A Niche for the Next Generation of Biomedical Scientists. Columbus, OH (2014).
10. Hetzler KL, **Sato S**, Narsale AA, Puppa MJ, and Carson JA. The effect of sex on IL-6 regulation of cancer cachexia progression in the Apcmin/+ mouse. Experimental Biology. San Diego, CA (2014).
11. Hindi SM, **Sato S**, Tajrishi MM, Mishra V, Ogura Y, and Kumar A. Reciprocal interaction between TWEAK-FN14 system and PGC-1 $\alpha$  regulates skeletal muscle atrophy program. EMBO workshop-molecular mechanisms of muscle growth and wasting in health and disease. Ascona, Switzerland (2013).
12. Hindi SM, **Sato S**, and Kumar A. Distinct roles of TRAF6 at early and late stages of disease progression in the mdx model of Duchenne muscular dystrophy. Cardiovascular Forum, Louisville, KY (2013).
13. **Sato S**, Hetzler KL, Puppa MJ, Gao S, and Carson JA. The effect of acute and repeated eccentric muscle contractions on cachectic muscle anabolic signaling in the female mouse. Southeast ACSM annual meeting, Greenville, SC (2013).
14. **Sato S**, Puppa MJ, Gao S, and Carson JA. The effect of muscle contraction on cachectic muscle mTOR signaling and protein synthesis in ApcMin/+ mouse. APS Intersociety Meeting: Integrative Biology of Exercise, Westminster, CO (2012).
15. **Sato S**, Gao S, Puppa MJ, Narsale AA, Aartun JD, and Carson JA. The effect of resistance training on muscle maintenance in the ApcMin/+ mice. Advances in Skeletal Muscle Biology in Health and Disease, Gainesville, FL (2012).
16. Puppa MJ, White JP, **Sato S**, and Carson JA. IL-6 signaling regulates muscle FIS1 expression during the progression of cachexia. Advances in Skeletal Muscle Biology in Health and Disease, Gainesville, FL (2012).

17. Hardee JP, Velázquez KT, Puppa MJ, Aartun JD, Narsale AA, **Sato S**, Davis JM , and Carson JA. The effect of quercetin supplementation on volitional fatigue and skeletal muscle mass retention during cancer cachexia. Annual Meeting of the Southeast Chapter of the American College of Sports Medicine, Jacksonville, FL (2012).
18. Puppa MJ, Narsale AA, Velazquez KT, **Sato S**, White JP, and Carson JA. The effect of exercise training on muscle energy status in IL-6 induced cachexia. Annual Meeting of the Southeast Chapter of the American College of Sports Medicine, Jacksonville, FL (2012).
19. White JP, **Sato S**, Puppa MJ, and Carson JA. IL-6 receptor signaling antagonism maintains muscle oxidative capacity during the progression of cachexia in the *Apc<sup>Min/+</sup>* mouse: a role for exercise. 6th Cachexia Conference, Milan, Italy (2011).
20. White JP, **Sato S**, Puppa MJ, and Carson JA. Exercise training prevents IL-6 suppression of muscle PGC-1 $\alpha$  and Mitofusin 1 & 2 proteins during the progression of cachexia in the *ApcMin/+* mouse. American Institute for Cancer Research (AICAR) Annual Research Conference, Washington DC (2011).
21. **Sato S**, Puppa MJ, Velazquez KT, White JP, Narsale AA and Carson JA. The Effect of tumor growth and moderate exercise on *Apc<sup>Min/+</sup>* mouse cage activity. Annual Meeting of American College of Sports Medicine, Denver, CO (2011).
22. White JP, Puppa MJ, **Sato S**, Baynes JW and Carson JA. IL-6 inhibition attenuates activation of ubiquitin proteasome-dependent degradation in cachectic muscle. Experimental Biology, Washington, DC (2011).
23. **Sato S**, Lima M, Enos RT, Baynes JW, and Carson JA. The effect of oxidative capacity on mouse muscle protein synthesis during cachexia. Experimental Biology, Washington, DC (2011).
24. Puppa MJ, Aartun JD, White JP, Velázquez KT, **Sato S**, and Carson JA. The Effect of Exercise Training on Neuromuscular Performance in Cachectic Mice. Southeast ACSM. Greenville, SC (2011).
25. White JP, **Sato S**, Puppa MJ, Velazquez KT, Baynes JW, Welle SL and Carson JA. Skeletal muscle protein synthesis and IL-6 induced cancer cachexia. ACSM conference on integrative physiology of exercise, Miami, FL (2010).
26. Puppa MJ, White JP, **Sato S**, Baynes JW and Carson JA. Role of gut barrier dysfunction and endotoxemia in development of colon cancer cachexia. Experimental Biology, Anaheim, CA (2010).
27. White JP, **Sato S**, Puppa MJ, Baynes JW, Welle SL and Carson JA. IL-6-induced cachexia and muscle IGF-1 signaling. Experimental Biology, Anaheim, CA (2010).
28. Velazquez KT, **Sato S**, White JP, Puppa MJ, Baynes JW and Carson JA. Skeletal muscle oxidative capacity in cachectic mice. Experimental Biology, Anaheim, CA (2010).
29. White JP, Puppa MJ, **Sato S**, Baynes JW, and Carson JA. Glucose Tolerance and Exercise in a Mouse Model of Cancer Cachexia. Annual Meeting of the Southeast Chapter of the American College of Sports Medicine, Greenville, SC (2010).
30. Sheehan J, White JP, **Sato S**, and Carson JA. The association between glucose tolerance and cachexia in the *APCMin/+* mouse. Annual Meeting of the Southeast Chapter of the American College of Sports Medicine,

Greenville, SC (2010).

31. White JP, **Sato S**, Baltgalvis KA, Baynes JW and Carson JA. Inflammatory Cytokine IL-6 and Cachectic Muscle Oxidative Capacity, Experimental Biology, New Orleans, LA (2009).
32. **Sato S**, White JP and Carson JA. Effect of castration on mouse skeletal muscle oxidative capacity. Experimental Biology, New Orleans, LA (2009).
33. White JP, **Sato S** and Carson JA. Nandrolone Decanoate Administration and Growth-Related Signaling during Muscle Recovery from Myotoxin-induced Injury. Annual Meeting of American College of Sports Medicine. Seattle, WA (2009).
34. **Sato S**, White JP and Carson JA. Nandrolone Decanoate and Mouse Tibialis Anterior Muscle Regeneration: The Effect of Fiber Type. Annual Meeting of American College of Sports Medicine. Seattle, WA (2009).
35. **Sato S**, White JP and Carson JA. Nandrolone Decanoate administration and skeletal muscle recovery from disuse atrophy. Annual Meeting of American College of Sports Medicine, Indianapolis, IN (2008).
36. White JP, **Sato S**, Cairns M, and Carson JA. (Feb 2008). The effect of anabolic steroids on tibialis anterior muscle force production after recovery from myotoxin-induced injury (Poster). Annual Meeting of the Southeast Chapter of the American College of Sports Medicine, Birmingham, AL (2008).
37. **Sato S**, White JP, Washington TA, and Carson JA. Anabolic steroid administration and muscle recovery from disuse. Annual Meeting of the Southeast Chapter of the American College of Sports Medicine, Birmingham, AL (2008).
38. **Sato S**, Okuno S, Sato R, Kanai T, Ikeuchi H, Satô GP. Partial molar volumes and viscosities of [tris (acetylacetonato) cobalt (III)] -dichloromethane and -benzene solutions. 2CP06. The 45th Symposium on Coordination Chemistry, Fukuoka, Japan (1995).

#### **Local/State conference**

1. Walker ER, Anderson KA, Abston LH, and **Sato S**. Reduced mTOR response after 7-day mechanical overload in cachectic mice. Student Research Symposium at the University of Louisiana at Lafayette, Lafayette, LA. (2019).
2. Walker ER, Nguyen TN, and **Sato S**. Genotyping *Apc*<sup>Min/+</sup> mice with standard PCR. Student Research Symposium at the University of Louisiana at Lafayette, Lafayette, LA. (2018).
3. Gooden LJ, Lim BW, and **Sato S**. The Change of MST1 Expression in Cancer Cachexia Mice. Student Research Symposium at the University of Louisiana at Lafayette, Lafayette, LA. (2017).
4. Bohnert, K, **Sato S**, Xiong G, and Kumar A. Unfolding protein response pathways mediate skeletal muscle wasting in mouse models of cancer cachexia. Research!Louisville, Louisville, KY. (2015).
5. **Sato S**, Ogura Y, Tajrishi MM, and Kumar A. Overexpression of TWEAK in skeletal muscle promote visceral obesity, insulin resistance, and metabolic dysfunction. Research!Louisville, Louisville, KY. (2014).
6. **Sato S**, Ogura Y, Hill B, and Kumar A. Skeletal muscle-specific transgenic overexpression of TWEAK causes metabolic abnormalities and obesity in mice. Research!Louisville, Louisville, KY. (2013).

## **5. Research grants:**

### **Funded**

#### **Active:**

Shuichi Sato (Principle Investigator) 07/01/2017 – 06/30/2020  
Louisiana Board of Regents Support Fund \$150,761 (Total costs, 3 years)  
Research Competitiveness Subprogram (Health and Medical Sciences)  
Title: The effect of Yes-associated protein YAP during the development of cancer cachexia

#### **Completed:**

Shuichi Sato (Principle Investigator) 12/01/2016 – 1/31/2018  
Yamada Research Grant Approximately \$9,400 (1 year)  
Title: The effect of royal jelly on skeletal muscle atrophy in cancer cachexia

## **6. Honors:**

- Joan D. and Alexander S. Haig/BORSF Endowed Professorship in Education (2018-Current)
- Travel Grants for Emerging Faculty (TGEF), Louisiana Experimental Program to Stimulate Competitive Research (EPSCoR, September 2017)
- Faculty Member of the Year (2016-2017), School of Kinesiology, University of Louisiana at Lafayette (September 2017)
- Award for Excellence in Academic Advising, University of Louisiana at Lafayette (May 2017)
- Rising Star Award, Center for Research, Innovation, and Economic Development at the University of Louisiana at Lafayette (November 2016)
- Summer Research Award, University of Louisiana at Lafayette (June 2016)
- Research!Louisville, 1<sup>st</sup> place in Postdoctoral Fellow Award (September 2014)
- Norman J. Arnold Foundation Doctoral Student Fellowship (August 2011)
- Mississippi Athletic Trainers' Association Scholarship (August 2002)

## **7. Books:**

Translation into Japanese. Essentials of Strength and Training and Conditioning, 3<sup>rd</sup> edition. (2<sup>nd</sup> chapter, biochemistry of exercise and metabolism, Book House HD Ltd., ISBN 4938335085)

## **8. Participated in reviewing manuscripts for the following journals:**

- FASEB journal
- Medicine & Science in Sports & Exercise
- AJP: Cell Physiology
- AJP: Regulatory, Integrative and Comparative Physiology
- AJP: Endocrinology and Metabolism
- AJP: Gastrointestinal and Liver Physiology
- Journal of Applied Physiology
- BMC Cancer
- BMC International
- PLOS One
- Muscle & Nerve
- BBA - Molecular Basis of Disease

- Molecular and Cellular Endocrinology
- Acta Physiologica
- Frontier in Physiology
- Experimental Gerontology
- International Journal of Orthopaedics

### **9. Other activities:**

<b>Abstract reviewer for SEACSM annual meeting</b>	<b>2018</b>
<b>SEACSM annual meeting, Session Chair: Tutorial Session XXIII, Making the Most of Your Graduate Exercise Science Experience</b>	<b>2017</b>
<b>Editorial Board Member: International Journal of Orthopaedics (ISSN 2311-5106)</b>	<b>2013-present</b>

### **10. Professional affiliations:**

- American Physiological Society (APS)
- Southeast Chapter of American College of Sports Medicine (SEACSM)
- American College of Sports Medicine (ACSM)
- Athletic Trainer, Certified (ATC, NATA Board of Committee)
- National Athletic Trainers' Association (NATA)
- Louisiana Athletic Trainers' Association (LATA)

### **11. Mentoring/Teaching experience:**

<b>Research mentor</b>	<b>2008-present</b>
<b>University of Louisiana at Lafayette</b>	
<ul style="list-style-type: none"> <li>• Lane Abston (Master's student in Exercise Science)</li> <li>• Emily Walker (Undergraduate student in Exercise Science)</li> <li>• Kayla Anderson (Undergraduate student in Exercise Science)</li> </ul> <p><u>Project:</u> The role of Hippo signaling on anabolic resistance in tumor-bearing mice</p>	August 2018-Current
<ul style="list-style-type: none"> <li>• Chisato Kataoka, Ph.D. (Visiting Research Scholar)</li> </ul> <p><u>Project:</u> The potential risk of silver nanoparticles on mouse immune system</p>	March 2018-March 2019
<ul style="list-style-type: none"> <li>• Ian Pecor (Master's student in Exercise Science)</li> <li>• Emily Walker (Undergraduate student in Exercise Science)</li> <li>• Thao Nguyen (Undergraduate student in Nursing)</li> </ul> <p><u>Project:</u> The role of Hippo signaling on muscle atrophy in tumor-bearing mice</p>	August 2017-May 2018
<ul style="list-style-type: none"> <li>• Janesha Gooden (Undergraduate Student in Exercise Science)</li> <li>• Benjamin Lim (Undergraduate Student in Exercise Science)</li> </ul> <p><u>Project:</u> The role of Hippo signaling during the development of cancer cachexia in <i>Apc<sup>Min/+</sup></i> mice</p>	August 2016-May 2017
<b>University of Louisville</b>	
<ul style="list-style-type: none"> <li>• Kyle Bohnert (Doctoral student in Anatomical Sciences and Neurobiology)</li> </ul> <p><u>Project:</u> Skeletal muscle loss due to ER stress in C26 cancer cachexia mice</p>	August 2014– July 2015
<ul style="list-style-type: none"> <li>• Aman Mann (duPont Manual High School Student, Science Project)</li> </ul>	August 2013– May 2014



Project: Relationship between TWEAK/FN14 system and skeletal muscle loss

### **University of South Carolina**

- Mark Hilla (Master's student in Athletic Training) January 2012– May 2012
- Joseph Panchella (Master's student in Athletic Training)  
Project: Methacillin Resistant Stapholococcus Aureus (MRSA) in athletic facilities
- Nick Thomas (Master's student in Athletic Training) January 2011– May 2011  
Project: Methacillin Resistant Stapholococcus Aureus (MRSA) in collegiate football players and their equipment
- Erica Littles (Undergraduate student at Claflin University) May 2008 – July 2008  
EXPORT Summer Research Internship Program  
Project: The effect of testosterone on skeletal muscle oxidative capacity

### **Assistant Professor**

**2015-present**

*University of Louisiana at Lafayette – School of Kinesiology*

#### Undergraduate courses

KNES 303 – Physiology of Exercise  
KNES 304 – Physiology of Exercise Lab  
KNES 497 – Independent Study  
KNES 499 – Internship in Kinesiology

#### Graduate courses

KNES 502 – Measurement and Evaluation Instrumentation in Exercise Physiology (taught wet lab section)  
KNES 507 – Bioenergetics  
KNES 509 – Organization and Management of Exercise and Activity Programs  
KNES 510 – Research Methods in Kinesiology  
KNES 512 – Muscle physiology  
KNES 597 – Independent study  
KNES 600 – Internship in Kinesiology

### **Graduate Teaching Assistant**

**2006-2012**

*University of South Carolina - School of Public Health*

#### Undergraduate courses

EXSC 223 - Anatomy / Physiology I Lab  
EXSC 224 - Anatomy / Physiology II Lab

#### Graduate courses

EXSC 742 - Clinical Exercise Testing  
EXSC 743 - Laboratory Measurements for Exercise Testing  
EXSC 780 - Physiology of Exercise  
EXSC 785 - Advanced techniques in Exercise Physiology Lab

#### Guest speaker/ Temporary Instructor

EXSC 223 - Anatomy / Physiology I, Topic: Fluid, electrolyte, and acid-base balance  
EXSC 224 - Anatomy / Physiology II, Topic: Lymphatic System  
EXSC783 - Seminar Series in Public Health

- Topic: Skeletal muscle adaptations to gravitational loading
  - Topic: The role of testosterone and androgen receptor during the development of cancer cachexia
- EXSC780 - Physiology of Exercise, Topic: Cardiovascular physiology & Nervous system and motor control

**Approved Clinical Instructor**

**2003-2004**

Athletic Training Educational Program, Quinnipiac University, Hamden, Connecticut

**12. Professional work experience**

Encore Rehabilitation Inc., Hattiesburg, Mississippi

Athletic Trainer

August 2005 – May 2006

- Purvis High School (Head athletic trainer)
- William Carey University

Lab technician

August 2005 – May 2006

Compaq Computer Japan, Tokyo, Japan

(Tandem Computers Japan)

Sales Representative

April 1996 – August 1999