

## CURRICULUM VITAE

**Kyle R. Bohnert, M.S.**

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**Residency Status:** US Citizen

### A. EDUCATION & TRAINING:

(Month/Year)

- |         |   |
|---------|---|
| 06/2012 | BA, Exercise Science, Psychology<br>Hanover College, Hanover, IN                              |
| 06/2014 | MS, Kinesiology and Health Promotion (Biomechanics),<br>University of Kentucky, Lexington, KY |
| 08/2016 | MS, Anatomical Sciences and Neurobiology,<br>University of Louisville, Louisville, KY         |
| 08/2018 | PhD, Anatomical Sciences and Neurobiology,<br>University of Louisville, Louisville, KY        |

### B. RESEARCH EXPERIENCE

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| 2011-2012 | Senior Thesis, Hanover College, Dr. Bryant Stamford laboratory Department of Exercise Science, Hanover, IN. Study completed in laboratory of Dr. Jeff Haddad, Purdue University, West Lafayette, IN<br><u>Research Topic:</u> The Effect of a Cognitive and Motor Task on Postural Stability |
| 2011-2012 | Senior Thesis, Hanover College, Dr. John Krantz laboratory, Department of Psychology, Hanover, IN<br><u>Research Topic:</u> The Effect of Sensory Manipulation on Postural Sway  |
| 2012-2014 | Masters Thesis, Dr. Robert Shapiro laboratory, University of Kentucky, Lexington, KY<br><u>Research Topic:</u> A Complete Kinematic, Kinetic, and Electromyographical Analysis of the Football Throw in Collegiate Quarterbacks  |
| 2014-2018 | PhD Dissertation, Dr. Ashok Kumar's laboratory, University of Louisville, Louisville, KY<br><u>Research Topic:</u> ER Stress and Unfolding Protein Response Pathways in Skeletal Muscle Homeostasis  |

### C. AWARDS AND HONORS

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| 2012 | Teaching Assistantship, University of Kentucky |
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2014 Graduate Fellowship Award, University of Louisville  
2016 Research! Louisville Poster Presentation Third Place  
2018 Ruth L. Kirschstein NRSA Individual Predoctoral Fellowship (F31), National Institute of Health.

#### D. TEACHING EXPERIENCE

2012-2013 Teaching Assistant, Kinesiology and Health Promotion Classes, University of Kentucky  
  
2013-2014 Teaching Assistant, Undergraduate Biomechanics Laboratory, University of Kentucky  
  
2013-2014 Teaching Assistant, Select Undergraduate Biomechanics Lectures, University of Kentucky  
  
2016 Teaching Assistant, Medical Gross Neurobiology Laboratory, University of Louisville

#### E. PEER-REVIEWED PUBLICATIONS

- 1) **Bohnert KR**, Gallot YS, Sato S, Xiong G, Hindi SM, Kumar A. (2016) Inhibition of ER stress and unfolding protein response pathways causes skeletal muscle wasting during cancer cachexia. *FASEB Journal*, 30: 3053-3068. PMID: 27206451. PMCID: PMC5001510
- 2) Xiong G, Hindi SM, Mann AK, Gallot YS, **Bohnert KR**, Cavener DR, Whittemore SR, Kumar A. (2017). The PERK arm of the unfolded protein response regulates satellite cell-mediated skeletal muscle regeneration. *Elife* pii: e22871. doi: 10.7554/eLife.22871. PMID: 28332979
- 3) Gallot YS, McMillan JD, Xiong G, **Bohnert KR**, Straughn A, Hill B, Kumar A (2017). Distinct roles of TRAF6 and TAK1 in the regulation of adipocyte survival, thermogenesis program, and high-fat diet-induced obesity. *Oncotarget*, 8:112565-112583. PMID: 29348847
- 4) **Bohnert KR**, McMillan JD, and Kumar A (2018). Emerging roles of ER stress and unfolded protein response pathways in skeletal muscle health and disease. *Journal of Cellular Physiology*, 233:67-78.
- 5) Hindi SM, Sato S, Xiong G, **Bohnert KR**, Gibb AA, Gallot YS, McMillan JD, Hill B, Uchida S, Kumar A (2018). TAK1 is a key regulator of skeletal muscle mass and mitochondrial function. *JCI Insight*. 3(3). pii: 98441. doi:10.1172/jci.insight.98441.
- 6) Gallot YS, Straughn AR, **Bohnert KR**, Xiong G, Hindi SM, and Kumar A (2018). MyD88 is required for satellite cell-mediated myofiber regeneration in dystrophin-deficient mdx mice. *Hum Mol Genet*. 2018 Jul 14. doi: 10.1093/hmg/ddy258.
- 7) Gallot YS, **Bohnert KR**, Straughn AR, Xiong G, and Kumar A (2018). PERK regulates skeletal muscle mass and contractile function in adult mice. *FASEB Journal* (Accepted).

## F. POSTER PRESENTATIONS

- 2015 Bohnert, KR, Sato S, Xiong G, and Kumar A. Poster Presented at “2nd Midwest Membrane Trafficking & Signaling Symposium” at the University of Louisville on July 25th, 2015.
- 2015 Bohnert, KR, Gallot YS, Sato S, Xiong G, Hindi S, and Kumar A. Presented poster at the “Research Louisville” symposium on October 14th, 2015.
- 2016 Bohnert, KR, Gallot YS, Sato S, Xiong G, Hindi S, and Kumar A. Poster Presentation at “Advances in Skeletal Muscle Biology in Health and Disease” conference at the University of Florida from January 20-22, 2016.
- 2016 Bohnert, KR, Gallot YS, Sato S, Xiong G, Hindi S, and Kumar A. Poster presentation at the “Neuroscience Day”, University of Louisville on April 7th, 2016.
- 2016 Bohnert, KR and Kumar A. Poster Presentation at “3rd Cancer Cachexia” conference in Washington DC from September 23-25, 2016.
- 2016 Bohnert, KR and Kumar A. Presented poster at the “Research Louisville” symposium on October 11th, 2016.
- 2017 Bohnert, KR and Kumar A. Poster Presentation at “Advances in Skeletal Muscle Biology in Health and Disease” conference at the University of Florida from March 8-10, 2017.
- 2017 Bohnert, KR Gallot YS, Xiong G, McMillan JD. Poster Presentation at “Research Louisville” symposium on September 12, 2017