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## BIOGRAPHICAL SKETCH

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|   |                                       |       |                        |
|---|---------------------------------------|-------|------------------------|
| NAME<br>Short, Kevin R.   | POSITION TITLE<br>Assistant Professor |       |                        |
| eRA COMMONS USER NAME (credential, e.g., agency login)<br>SHORT1  |                                       |       |                        |
| EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.) |                                       |       |                        |
| INSTITUTION AND LOCATION  | DEGREE<br>(if applicable)             | MM/YY | FIELD OF STUDY         |
| Illinois Wesleyan University, Bloomington, IL   | BA                                    | 05/91 | Psychology             |
| Purdue University, West Lafayette, IN   | MS                                    | 08/94 | Exercise Physiology    |
| Ball State University, Muncie, IN   | PhD                                   | 07/97 | Human Bioenergetics    |
| Mayo Clinic, Rochester, MN  | post-doc                              | 08/02 | Endocrinology & Metab. |

### Positions and Honors

#### Positions and Employment

|              |  |
|--------------|--|
| 1989-1990    | Research Assistant, Department of Psychology, Illinois Wesleyan University, Bloomington, IL  |
| 1992-1994    | Research Assistant, Departments of Health, Kinesiology & Leisure Studies, and Foods & Nutrition, Purdue University, West Lafayette, IN                       |
| 1994-1997    | Doctoral Research Fellow, Human Performance Laboratory, Ball State University, Muncie, IN  |
| 1997-2002    | Research Fellow and Senior Research Fellow, Endocrinology Research Unit, Mayo Clinic, Rochester, MN  |
| 2001-2006    | Assistant Professor of Medicine, Graduate School of Medicine, Mayo Clinic  |
| 2002-2006    | Professional Associate in Research, Endocrinology Research Unit, Mayo Clinic   |
| 2006-present | Assistant Professor, Department of Pediatrics, Section of Diabetes & Endocrinology, University of Oklahoma Health Sciences Center (OUHSC), Oklahoma City, OK |
| 2007-present | Adjunct Assistant Professor, Department of Geriatric Medicine, OUHSC   |
| 2010-present | Adjunct Assistant Professor, Department of Physiology, OUHSC   |

#### Other Experience and Professional Memberships

|           |  |
|-----------|--|
| 1992-     | Member, American College of Sports Medicine  |
| 1995-     | Member, American Physiological Society   |
| 2004-     | Member, American Diabetes Association  |
| 2006-     | Member, American Society for Nutrition   |
| 2005-     | Editorial board, <i>J Aging Phys Activity</i>  |
| 2006-     | Editorial board, <i>J Cardio Metabol Synd</i>  |
| 2006-2009 | NIH Peer Review: Skeletal Muscle Exercise Physiology study section, ad hoc reviewer        |
| 2009      | NIH Peer Review: Integrated Nutrition & Metabolic Processes study section, ad hoc reviewer |

#### Honors

|      |   |
|------|---|
| 1989 | Psi Chi national psychology honor society   |
| 1991 | Phi Kappa Phi National Academic Honor Society   |
| 1991 | Graduated Magna Cum Laude with Research Honors, Illinois Wesleyan University                    |
| 1993 | Student Research Presentation Award, Midwest Chapter of the American College of Sports Medicine |
| 1997 | Outstanding Graduate Student Award, Midwest Chapter of the American College of Sports Medicine  |
| 2001 | Thompson-Mayo Research Fellowship   |
| 2005 | Outstanding Research Associate, Department of Internal Medicine, Mayo Clinic                    |
| 2008 | Vernon Young International Award for Amino Acid Research, American Society for Nutrition        |

#### Selected Peer-reviewed Publications

1. **Short KR**, M Sheffield-Moore, and DL Costill. Glycemic and insulinemic responses to multiple pre-exercise carbohydrate feedings. *Int J Sport Nutr* 7: 1-10, 1997.

2. Halvatsiotis P, **KR Short**, M Bigelow, and KS Nair. Synthesis rate of muscle proteins, muscle functions and amino acid kinetics in Type 2 diabetes. *Diabetes* 51: 2395-2404, 2002.
3. Stump CS, **KR Short**, ML Bigelow, JM Schimke and KS Nair. Effect of insulin on in vivo skeletal muscle mitochondrial ATP production, protein synthesis, and mRNA transcripts. *Proc Natl Acad Sci USA*, 100: 7996-8001, 2003. PMID: PMC164701
4. **Short KR**, JL Vittone, ML Bigelow, DN Proctor, JM Coenen-Schimke, RA Rizza, and KS Nair. Impact of aerobic exercise training on age-related changes in insulin sensitivity and muscle oxidative capacity. *Diabetes*, 52: 1888-1896, 2003.
5. **Short KR**, JL Vittone, ML Bigelow, DN Proctor, and KS Nair. Age and aerobic exercise training effects on whole body and muscle protein metabolism. *Am J Physiol Endocrinol Metab* 286: E92-E101, 2004.
6. **Short KR**, ML Bigelow, J Kahl, J Coenen-Schimke, R Singh, R Sreekumar, and KS Nair. Decline in skeletal muscle mitochondrial function with aging in humans. *Proc Natl Acad Sci USA*, 102: 5618-5623, 2005. PMID: PMC556267
7. Asmann, Y, CS Stump, **KR Short**, ML Bigelow, and KS Nair. Skeletal muscle mitochondrial functions, mitochondrial DNA copy numbers and gene transcript profiles in Type 2 diabetic and non-diabetic subjects at equal levels of low or high insulin and euglycemia. *Diabetes* 55: 3309-3319, 2006.
8. Igwebuike A, BA Irving, ML Bigelow, **KR Short**, JP McConnell, GE Smith, and KS Nair. Lack of DHEA effect on a combined endurance and resistance exercise program in postmenopausal women. *J Clin Endocrinol Metab* 93: 5534-538, 2008. PMID: PMC2729150
9. Walrand S, **KR Short**, ML Bigelow, AJ Sweatt, SM Hutson, and KS Nair. Functional impact of high protein intake on healthy elderly people. *Am J Physiol Endocrinol Metab* 295: E921-E928, 2008. PMID: PMC2575899
10. Lanza I, DK Short, **KR Short**, S Raghavakaimal, R Basu, MJ Joyner, JP McConnell, and KS Nair. Endurance exercise as a countermeasure for aging. *Diabetes* 57: 2933-2942, 2008. PMID: PMC2570389
11. Krishnan S†, and **KR Short**. Prevalence and significance of cardiometabolic risk factors in children with type 1 diabetes. *J Cardiometab Syndr*, 4: 50-56, 2009. †pediatric endocrine fellow
12. Graf DL†, LV Pratt, CN Hester, and **KR Short**. Playing active video games increases energy expenditure in children. *Pediatrics* 124: 534-540, 2009. †student author
13. **Short KR**, P Blackett, AW Gardner and KC Copeland. Vascular health in children and adolescents: effects of obesity and diabetes. *J Vasc Hlth Risk Mgmt*, 5: 973-990, 2009.
14. Karakelides H, BA Irving, **KR Short**, P O'Brien, KS Nair. Age, obesity, and sex effects on insulin sensitivity and skeletal muscle mitochondrial function. *Diabetes* 59: 89-97, 2010.
15. Tatpati LL, BA Irving, A Tom, ML Bigelow, A Jaleel, K Klaus, **KR Short** and KS Nair. The effect of branched chain amino acids on skeletal muscle mitochondrial function in young and elderly adults. *J Clin Endocrinol Metab* Published online Dec 18, 2009.

#### **D. Research Support**

##### **Ongoing Research Support**

##### **Oklahoma Center for Advancement of Science and Technology**

Impact of age, adiposity & exercise on metabolic risk

HR07-156S

10/1/2007–7/31/2010

PI: K Short

*Purpose:* To evaluate the mixed meal glucose tolerance test in children and adults and to measure the impact of exercise training insulin sensitivity and vascular function in overweight children.

*Role:* PI

##### **NIH/National Center for Research Resources**

Mentoring diabetes research in Oklahoma

P20 RR024215-01

9/15/2007-6/30/2012

PI: J Ma

*Purpose:* To establish a Center of Biomedical Research Excellence (COBRE) in diabetes at OUHSC, providing individual project funding and core laboratory and administrative support for diabetes research.

*Sub-Project 1:* Impact of age and exercise on insulin action. *Purpose:* To examine the effect of age on exercise-mediated changes in meal glucose tolerance in children, young adults and elderly people.

*Role:* PI, Sub-Project 1 of 5

**Endocrine Fellows Foundation/Bristol-Myers Squibb**

12/1/2009–11/30/2010

Vascular compliance and endothelial function in children with obesity and type 2 diabetes *PI:* K Short (on behalf of J Tryggestad)

*Purpose:* To determine the effects of age, obesity and type 2 diabetes on arterial compliance and endothelial function in children.

*Role:* PI acting as mentor to fellow, Dr. Jeanie Tryggestad