

**Dustin Shayne Hittel Ph.D.**  
**Assistant Professor, Exercise and Health Physiology**  
**Faculty of Kinesiology, The University of Calgary**  
**2500 University Drive NW**  
**Calgary, Alberta, T2N1N4**  
**(403) 220-3497 / dhittel@kin.ucalgary.ca**

## Citizenship

Canadian

February 11, 1973  
Hinton, Alberta, Canada

## (A) Academic Training

2002-2006, Post Doctoral Research Fellow, Research Center for Genetic Medicine, Children's National Medical Center, Washington DC, USA.  
Mentor: Eric P. Hoffman, Ph.D.

2001, Ph.D., Institute of Biochemistry, Carleton University, Ottawa, ON, Canada. Mentor: Kenneth B. Storey, Ph.D.

1998, M.Sc., Department of Biological Sciences, University of Calgary, Calgary, AB, Canada. Mentor: Gerrit Voordouw, Ph.D.

1996, B.Sc., Department of Biological Sciences, University of Calgary, Calgary, AB, Canada.

## (B) Academic Appointments

2007- Assistant Professor, Faculty of Kinesiology, University of Calgary, Calgary, AB, Canada.

## (C) Publications

Published Manuscripts:

[Hittel DS, Hathout Y and Hoffman EP.](#) Proteomics and systems biology in exercise and sport sciences research. Exercise and Sport Sciences Reviews. 2007 35(1):5-11.

[Urso, M, Clarkson PC, Hittel DS, Hoffman EP and Thompson P.](#) Changes in ubiquitin proteasome pathway gene expression in skeletal muscle with exercise and statins. *Arteriosclerosis, Thrombosis, and Vascular Biology*. 2005 25(12):2560-2566.

[Hittel DS, Hathout Y, Hoffman EP, and Houmard JA.](#) Proteome analysis of skeletal muscle from obese and morbidly obese women. *Diabetes*. 2005 54(5):1283-1288.

[Hittel DS, Kraus WE, Tanner CJ, Houmard JA and Hoffman EP.](#) Exercise training increases electron and substrate shuttling proteins in muscle of overweight men and women with the metabolic syndrome. *J Appl Physiol*. 2004 98(1):168-179.

[Hittel DS, Kraus WE and Hoffman EP.](#) Skeletal muscle dictates the fibrinolytic state after exercise training in overweight men with characteristics of metabolic syndrome. *J Phys (London)* 2003 548:401-410.

[Hittel DS, Storey KB.](#) The translation state of differentially expressed mRNAs in the hibernating 13-lined ground squirrel (*Spermophilus tridecemlineatus*). *Arch Biochem Biophys*. 2002 401: 244-254.

[Hittel DS, Storey KB.](#) Differential expression of mitochondria-encoded genes in a hibernating mammal. *J Exp Biol*. 2002 205: 1625-631.

[Hittel DS, Storey KB.](#) Differential expression of adipose- and heart-type fatty acid binding proteins in hibernating ground squirrels. *Biochim Biophys Acta*. 2001 1522: 238-243.

[Mizuno N, Hittel DS, Miki K, Voordouw G and Higuchi Y.](#) Preliminary X-ray crystallographic study of DsrD protein from the sulfate-reducing bacterium *Desulfovibrio vulgaris*. *Acta Crystallogr D Biol Crystallogr*. 2000 56: 754-755.

[Hittel DS, Voordouw G.](#) Overexpression, purification and immunodetection of DsrD from *Desulfovibrio vulgaris* Hildenborough. *Antonie van Leeuwenhoek* 1999 77: 271-280.

Manuscripts Submitted or in Progress:

[Hittel DS, Kraus WE and Hoffman EP.](#) The effects of exercise training on gene and metabolite networks in obese and sedentary individuals. *Physiological Genomics*

[Hittel DS, Berggren JR, Hathout Y, Houmard JA and Hoffman EP.](#) Quantitative Proteomic Profiling of Myotubes from the Lean and Very Obese Using Stable

## Isotope Labeling by Amino Acids in Cell Culture (SILAC) Molecular and Cellular Proteomics

### (C) Awards

2000-2001 Ontario Graduate Scholarship (OGS), \$10,000

2000 Ottawa Life Sciences Conference, Outstanding Poster Award

1995-1996 University of Calgary Dean's List

### (D) Invited Lectures

Presentation, Cryobiology 2007 Conference, Lake Louise, AB, Canada, August 2007

Presentation, FASEB Experimental Biology Conference: Advancing the Biomedical Frontier, San Francisco, CA, USA, April 2006

Invited Speaker, Department of Endocrinology, Ottawa Health Research Institute, Ottawa, ON, Canada, March 2006

Invited Speaker, Department of Biology, Carleton University, Ottawa, ON, Canada, October 2005

Invited Speaker, Department of Exercise and Sport Science, East Carolina University, Greenville, NC, USA, May 2005

Invited Speaker, American Physiological Society Intersociety Conference: Integrative Biology of Exercise, Austin, TX, USA, October 2004

Faculty Interview, Department of Kinesiology, York University, Toronto, ON, Canada, February 2004

Invited Speaker, Silicon Genetics Microarray Data Analysis & Interpretation Workshop, San Francisco, CA, USA, September 2003

### (E) Financial Support

#### **Past:**

James Clark Endowed Chair

The Parsons Family Foundation

National Institutes of Health Programs in Genomic Applications Grant NHLBI  
U01-HL-66614

Current:

Faculty of Kinesiology Start-up Grant. Principal Applicant. \$50,000

(F) Volunteer Experience and Interests

Mid-Atlantic (USA) Muscular Dystrophy Association, 2003-2006

NCCP Level 1 road and mountain cycling coach

Competitive cyclist, runner and swimmer

(G) Professional Affiliations

The American Physiological Society

The American College of Sports Medicine