

CURRICULUM VITAE

W. Grady Campbell, Ph.D.

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TITLE AND PRESENT POSITION

Associate Professor of Biochemistry
College of Medical Sciences
Nova Southeastern University, Health Professions Division
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HOME ADDRESS

851 Altavista Terrace
Fort Lauderdale, FL 33325
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EDUCATION

Ph.D.	Biochemistry & Molecular Biology	1998	University of Florida College of Medicine, Gainesville, FL
M.S.	Physics	1985	University of Tennessee, Knoxville, TN
B.S.	Physics	1977	Emory University, Atlanta, GA

EMPLOYMENT

2011– present	Associate Professor of Biochemistry, Nova Southeastern University, College of Medical Sciences, Fort Lauderdale, FL
2000 – 2011	Assistant Professor of Biochemistry, Nova Southeastern University, College of Medical Sciences, Fort Lauderdale, FL

- 1998 – 2000 Research Fellow, Department of Integrative Biology, Physiology and Pharmacology, University of Texas Health Science Center at Houston, Houston, TX
- 1986 – 1992 Educational Staff, Division of Physics, Mathematics, and Astronomy, California Institute of Technology, Pasadena, CA
- 1977 – 1986 Associate Physicist, Research & Development, EG&G ORTEC, Oak Ridge, TN

TEACHING EXPERIENCE

- Nova Southeastern University, College of Medical Sciences, Biochemistry, 17 years.
- Nova Southeastern University, College of Arts, Humanities, and Social Sciences, First Year Seminar, 1 year.
- Nova Southeastern University, Audiology Department, Pharmacology, 10 years.
- Nova Southeastern University, Farquhar College, Independent Study, 4 years.
- Florida Atlantic University, Biochemistry, 3 years.
- University of Florida, Center for Precollegiate Education (GATOR lab) and Teacher Research Update Experience (TRUE), Teaching Assistant, 1 year.
- University of Florida College of Medicine, Biochemistry, Teaching Assistant, 2 years.
- Emory University, Chemistry & Physics, Teaching Assistant, 1 year.

ADMINISTRATIVE AND COMMITTEE EXPERIENCE

Nova Southeastern University	Institutional Animal Care and Use Committee 2016-2017
Nova Southeastern University	Institutional Review Board Member 2005-2006
Nova Southeastern University	Institutional Review Board Alternate Member 2003-2004
Emory University	Sigma Pi Sigma President
Emory University	Sigma Pi Sigma Member

PUBLICATIONS

Refereed Journal Articles

Campbell, W.G., and Venkatachalam, K.V. (2002): Analysis of the human 3'-phosphoadenosine 5'-phosphosulphate synthase gene. *Scientific World Journal* 2(1 Suppl 2):15-16.

Verlander, J.W., Moudy, R.M., **Campbell, W.G.**, Cain, B.D., and Wingo, C.S. (2001): Immunohistochemical localization of H-K-ATPase alpha(2c)-subunit in rabbit kidney. *Am J Physiol Renal Physiol.* 281(2):F357-65.

Campbell, W.G., Gordon, S.E., Carlson, C.J., Pattison, J.S., Hamilton, M.T., and Booth, F.W. (2001): Differential global gene expression in red and white skeletal muscle. *Am J Physiol Cell Physiol.* 280(4):C763-8.

Campbell, W.G., Weiner, I.D., Wingo, C.S., and Cain, B.D. (1999): H,K-ATPase in the RCCT-28A rabbit cortical collecting duct cell line. *Am. J. Physiol.* 276:F237-345.

Caviston, T.L., **Campbell, W.G.**, Wingo, C.S., and Cain, B.D. (1999): Molecular identification of the renal H⁺-K⁺ -ATPases. *Semin. Nephrol.* 15(5):431-437.

Campbell-Thompson, M.L., Verlander, J.W., Curran, K.A., **Campbell, W.G.**, Cain, B.D., Wingo, C.S., and McGuigan, J.E. (1995): *In situ* hybridization of H⁺-K⁺ -ATPase β-subunit mRNA in rat and rabbit kidney. *Am. J. Physiol.* 269:F345-354.

Callaghan, J.M., Tan, S.S., Khan, M.A., Curran, K.A., **Campbell, W.G.**, Smolka, A.J., Toh, B.H., Gleeson, P.A., Wingo, C.S., Cain, B.D., and Van Driel, I.R. (1995): Renal expression of the gene encoding the gastric H⁺-K⁺ -ATPase β-subunit. *Am J. Physiol.* 268:F363-374.

Abstracts

M.H. Siev, J.N. Stern, **W.G. Campbell** (2017). Insulin regulation of hypoxia-related mRNAs in a rat skeletal muscle cell line – analytics. 50th Miami 2017 Winter Symposium. Diabetes: Today's Research – Tomorrow's Therapies

Michael H. Siev, Jonathan N. Stern, Nina O. Wong, and **W. Grady Campbell** (2009). INSULIN STIMULATION OF GENOME EXPRESSION IN A RAT SKELETAL MUSCLE CELL LINE. Miami Nature Biotechnology Winter Symposium. MNBWS Short Reports 20, P11-P12

Wong, Nina O., and **W. Grady Campbell** (2006). Real-time RT-PCR Evaluation of Insulin-regulated Genes in Skeletal Muscle. Biotech 2006. May 17, 2006

Dilanchian, Paula, Ayanna M. Ahing, and **W. Grady Campbell** (2005). Microarray Analysis Shows Insulin Affects Nitrogen as well as Carbon Metabolism in Liver. Biotech 2005. March 10, 2005

Ahing, A. M., P. Dilanchian, and **W. G. Campbell** (2005). Oligonucleotide microarray profiling of insulin mRNA response in liver cells. Miami Nature Biotechnology Winter Symposium. MNBWS Short Reports 16:Supplement 25

Ahing, A. M., P. Dilanchian, and **W. G. Campbell** (2004). Insulin Gene Expression Profiles. 1st Annual Florida Research Consortium Tech Transfer Conference. May 17, 2004

Campbell, W.G. (2004): Comparison of oligonucleotide microarray analysis software. Miami Nature Biotechnology Winter Symposium, Miami Beach, FL

Nydick, J.A., and **Campbell, W.G.** (2003): Novel genes relevant to loss of insulin action in type 2 diabetes. 29th Annual Eastern-Atlantic Student Research Forum.

Nydick, J.A., and **Campbell, W.G.** (2003): Novel genes relevant to loss of insulin action in type 2 diabetes. 1st Annual Nova Southeastern University College of Medicine Poster Session.

Eftekhari, P., J. Matherly, J. A. Nydick, and **W. G. Campbell** (2003): Skeletal muscle mRNA regulation by insulin. Miami Nature Biotechnology Winter Symposium, Miami Beach, FL

Campbell, W.G. and Venkatachalam, K.V. (2001): Analysis of the human 3'-phosphoadenosine 5'-phosphosulfate synthase genes. Miami Nature Biotechnology Winter Symposium, Miami Beach, FL

Zies, D.L., **Campbell, W.G.**, Gumz, M.L., and Cain B.D. (2000): Molecular characterization of the rabbit renal HKalpha2 gene. Annual Meeting of the ASBMB. *FASEB J.* 14:A1568.

Campbell, W.G., Gordon, S.E., Carlson, C.J., Hamilton, M.T., and Booth, F.W. (2000): Microarray analysis in muscle fiber type. Molecular Biology Week 2000. <http://biotech.missouri.edu/mbp/exchange/mbw2k/abstracts/campbellg.html>

Verlander, J.W., Moudy, R.M., **Campbell, W.G.**, Cain, B.D., and Wingo, C.S. (1998): Immunohistochemical localization of HKalpha2 in rabbit kidney. Annual meeting of the ASN. *J. Am. Soc. Nephrol.* 9:13.

Campbell, W.G., Wingo, C.S., and Cain, B.D. (1998): Alternatively spliced K,K-ATPase catalytic subunit in rabbit kidney. Annual meeting of the ASBMB. *FASEB J.* 12:A1436.

Campbell, W.G., Wingo, C.S., and Cain, B.D. (1997): Molecular heterogeneity of H,K-ATPase isoforms in the rabbit kidney. Annual meeting of the ASN. *J. Am. Soc. Nephrol.* 8:3A.

Campbell, W.G., Weiner, I.D., Wingo, C.S., and Cain, B.D. (1996): H,K-ATPase in a rabbit cortical collecting duct cell line. Annual meeting of the ASN. *J. Am. Soc. Nephrol.* 7:1252.

Gordon, J., **Campbell, W.G.**, Wingo, C.S., and Cain, B.D. (1994): A potassium deficient diet results in the increased steady-state levels of mRNA in the alpha subunit of the rat gastric H⁺, K⁺-ATPase. *Gastroenterology* 106(4):A810.

Van Driel, I.R., Khan, M.A., Curran, K.A., **Campbell, W.G.**, Smolka, A.J., Toh, B.-H, Gleeson, P.A., Wingo, C.S., Cain, B.D., and Callaghan, J.M. (1994): Renal expression of the gene encoding the gastric H(+)-K(+)-ATPase beta-subunit. Annual meeting of the ASN *J. Am. Soc. Nephrol.* 5:302.

Books and Book Chapters

Wingo, C.S., Zhou, X., Smolka, A.J., Madsen, K., Tisher, C.C., Curran, K.A., **Campbell, W.G.**, and Cain, B.D. (1994). "The renal H-K-ATPase: function and expression." IN: Molecular and Cellular Mechanisms of H⁺ Transport, NATO ASI Series Vol. H 89. B.H. Hirst (ed.) Springer-Verlag, Berlin Heidelberg 153-161.

PRESENTATIONS

Campbell, W.G. (2007): Concise Review of the Design and Manufacture of Biopharmaceuticals. Contemporary Pharmacy Issues, Nova Southeastern University, Pharmacy Continuing Education.

Campbell, W.G. (2007): Microarray Analysis. Florida International University Biomedical Engineering.

Campbell, W.G. (2005): Stretching in Perspective. South Florida Sports Science Group.

Campbell, W.G. (2003): Oligonucleotide Microarray Analysis of Insulin Action in Rat Skeletal Muscle. Biotech 2003, Florida Atlantic University

Campbell, W.G. (2002): Genetics and Jewish Heritage. Broward County Jewish Genealogical Society.

Campbell, W.G. (2000): Differential global gene expression in mouse skeletal muscle. Georgetown University, Department of Chemistry Faculty.

Campbell, W.G. (2000): Signal Transduction. Nova Southeastern University, Health Professions Division Faculty.

Campbell, W. G. (2000): Differential global gene expression in mouse skeletal muscle – fiber types, treadmill running, and hindlimb suspension, Brigham & Women's Hospital Faculty, Harvard University.

Campbell, W.G. (1998): Molecular heterogeneity of H,K-ATPase isoforms in the rabbit kidney. Laboratory of Experimental & Computational Biology, National Institutes of Health, Bethesda, MD

Campbell, W.G. (1998): Molecular heterogeneity of H,K-ATPase isoforms in the rabbit kidney. Department of Integrative Biology, Physiology, and Pharmacology, University of Texas Health Science Center at Houston.

AWARDS AND HONORS

American Physiological Society Fellowship in Genomics, 1999-2001.
University of Florida Department of Sponsored Research DSR-B Graduate Research Assistantship, 1995.

AFFILIATIONS

Sigma Pi Sigma National Physics Honor Society

EDITORIAL RESPONSIBILITIES

Reviewer - American Journal of Physiology-Cell and Regulatory Physiology, 1999.
Reviewer - Journal of Applied Physiology, 1999
Reviewer - Optometry, 2003, 2004, 2006, 2009

FUNDED RESEARCH

President's Faculty Scholarship Award, Nova Southeastern University 2012-2014

President's Faculty Scholarship Award, Nova Southeastern University 2006-2007

President's Faculty Scholarship Award, Nova Southeastern University 2004-2005

Health Professions Division Research Grant 2003-2004

President's Faculty Scholarship Award, Nova Southeastern University 2001-2002

American Physiological Society Fellowship in Genomics 1999-2001