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**Education**

**Emory University, Atlanta, GA**

Ph.D., Program in Genetics and Molecular Biology, 1992-1998

Graduate research with Dr. Jeremy Boss

Project: Transcriptional activation of Class II MHC genes

**Rice University, Houston, TX**

Bachelor of Arts, Biology, 1988-1992

Undergraduate research with Dr. Michael Stern, 1991-1992

Project: Restriction fragment length polymorphism mapping of the Drosophila inebriated gene

**Positions and Employment**

**University of South Florida**

Assistant Professor, Department of Cell Biology, Microbiology and Molecular Biology, 2010-present

**Northwestern University, Evanston, IL**

Postdoctoral fellow with Dr. Richard Morimoto, 2002–2009

Project: Mechanisms of regulation of the heat shock transcription factor HSF1

**University of North Carolina, Chapel Hill, NC**

Postdoctoral fellow with Dr. Albert Baldwin, 1998-2002

Project: Mechanisms of regulation of the transcription factors NF-κB and Bcl-3

**Awards**

* National Institute of Health Postdoctoral Training Grant, Northwestern University, 2002-2004
* American Cancer Society Postdoctoral Fellowship, 1999-2002
* National Institute of Health Postdoctoral Training Grant, University of North Carolina, 1998-1999
* National Institute of Health Predoctoral Training Grant, Emory University, 1993-1995
* National Merit Scholarship, 1988-1992

**Publications**

Beate I. Escher, Mayumi Allinson, Rolf Altenburger, Peter A. Bain, Patrick Balaguer, Wibke Busch, Jordan Crago, Nancy D. Denslow, Elke Dopp, Klara Hilscherova, Andrew R. Humpage, Anu Kumar, Marina Grimaldi, B. Sumith Jayasinghe, Barbora Jarosova, Ai Jia , Sergei Makarov, Keith A. Maruya, Alex Medvedev, Alvine C. Mehinto, Jamie E. Mendez, Anita Poulsen, Erik Prochazka, Jessica Richard, Andrea Schifferli, Daniel Schlenk, Stefan Scholz, Fujio Shiraishi, Shane Snyder, Guanyong Su, Janet Y.M. Tang, Bart van der Burg, Sander C. van der Linden , Inge Werner , **Sandy D. Westerheide** , Chris K.C. Wong, Min Yang, Bonnie H.Y. Yeung, Xiaowei Zhang, and Frederic D.L. Leusch. [Benchmarking Organic Micropollutants in Wastewater, Recycled Water and Drinking Water with In Vitro Bioassays.](http://www.ncbi.nlm.nih.gov/pubmed/24369993) *Environ Sci Technol*. 2013. DOI: 10.1021/es403899t

Joseph Foley, Shannon E. Hill, Tatiana Miti, Mentor Mulaj, Marissa Ciesla, Rhonda Robeel, Christopher Persichilli, Rachel Raynes, **Sandy D. Westerheide** and Martin Muschol. Structural Fingerprints of Intermediates Formed During Oligomeric *vs.* Oligomer-free Lysozyme Fibril Growth. *Journal of Chemical Physics*. **2013.** 139(12):121901.

[Rachel Raynes](http://gan.sagepub.com/search?author1=Rachel+Raynes&sortspec=date&submit=Submit), [Jessica Brunquell](http://gan.sagepub.com/search?author1=Jessica+Brunquell&sortspec=date&submit=Submit) and [**Sandy D. Westerheide**](http://gan.sagepub.com/search?author1=Sandy+D.+Westerheide&sortspec=date&submit=Submit). Stress Inducibility of SIRT1 and its Role in Cytoprotection and Cancer. *Genes and Cancer*. **2013**. 4(3-4):172. Review.

Rachel Raynes, Kathleen M. Pombier, Kevin Nguyen, Jessica Brunquell, Jamie E. Mendez, and **Sandy D. Westerheide**. The SIRT1 modulators AROS and DBC1 regulate HSF1 activity and the heat shock response. *PLOS ONE.* ***2013.*** 8(1):e54364.

Rachel Raynes, Bruce Leckey, Kevin Nguyen and **Sandy D. Westerheide**. Heat Shock and Caloric Restriction have a Synergistic Effect on the Heat Shock Response in *C. elegans. J Biol Chem*. **2012**. 287(34):29045

**Sandy D. Westerheide,** Rachel Raynes, Chase Powell, Bin Xue, and Vladimir N. Uversky

Characterization of HSF as an intrinsically disordered transcription factor family. *Current Protein and Peptide Science.* ***2012.*** 13(1):86. Review.

**Sandy D. Westerheide**, Julius Anckar, Stanley Stevens, Lea Sistonen and Richard I. Morimoto. Stress-Inducible Regulation of Heat Shock Factor 1 by the Deacetylase SIRT1. *Science,* **2009*.***323(5917):1063

Richard I. Morimoto and **Sandy D. Westerheide**. The heat shock response and the stress of misfolded proteins in the *Handbook of Cell Signaling*. Ralph Bradshaw and Edward Dennis, editors. (Elsevier, Inc., San Diego, California). **2009.**

Amy Trott, James D. West, Lada Klaic, **Sandy D. Westerheide**, Richard B. Silverman, Richard I. Morimoto and Kevin A. Morano. Simultaneous activation of heat shock and oxidative stress pathways by celastrol. *Mol Biol Cell*, **2008**. 19(3):1104

**Sandy D. Westerheide**, Tiara L. Kawahara, Kai Orton and Richard I. Morimoto. Triptolide, an inhibitor of the human heat shock response that enhances stress-induced cell death. *J Biol Chem*, **2006.** 281(30):21575

**Sandy D. Westerheide** and Richard I. Morimoto. Heat shock modulators as therapeutic tools for diseases of protein conformation. *J Biol Chem*, **2005**. 280(39):33097

**Sandy D. Westerheide**, Joshua D. Bosman, Bessie N. A. Mbadugha, Tiara L. A. Kawahara, Gen Matsumoto, Soojin Kim, Wenxin Gu, John P. Devlin, Richard B. Silverman, and Richard I. Morimoto. Celastrols as inducers of the heat shock response and cytoprotection. *J Biol Chem*, **2004.** 279(53):56053

Marty W. Mayo, Lee V. Madrid, **Sandy D. Westerheide**, David R. Jones, Xiu-Juan Yuan, Albert S. Baldwin, Jr. and Young E. Whang. PTEN blocks TNF-induced NF-B-dependent transcription by inhibiting the transactivation potential of the p65 subunit. *J Biol Chem*, **2002**. 277(13):11116

**Sandy D. Westerheide**, Marty W. Mayo, Vasiliki Anest, Julie L. Hanson and Albert S. Baldwin, Jr. The putative oncoprotein Bcl-3 induces cyclin D1 to stimulate G1 transition*. Mol Cell Biol,* **2001**.21(24):8428

Sam J. Gobin, M. van Zutphen, **Sandy D. Westerheide**, Jeremy M. Boss, Peter J. van Den Elsen. The MHC-specific enhanceosome and its role in MHC Class I and beta(2)-microglobulin gene transactivation. *J Immunol*, **2001.** 167(9):5175

Brian P. Ashburner, **Sandy D. Westerheide**, Albert S. Baldwin, Jr. The p65 (RelA) subunit of NF-κB interacts with the histone deacetylase (HDAC) corepressors HDAC1 and HDAC2 to negatively regulate gene expression. *Mol Cell Biol*, **2001.** 21(20):7065

Dan Wang , **Sandy D. Westerheide**, Julie L. Hanson, Albert S. Baldwin, Jr. Tumor necrosis factor alpha-induced phosphorylation of RelA/p65 on Ser529 is controlled by casein kinase II.

 *J Biol Chem*, **2000.** 275(42):32592-7.

**Sandy D. Westerheide** and Jeremy M. Boss. Site-specific crosslinking mapping of RFX and X2BP transcription factor subunits of the Major Histocompatibility Complex Class II transcriptional enhancer. *Nucleic Acids Research*, **1999.**  27(7):1635

**Sandy D. Westerheide**, Pascale Louis-Plence, Dongsheng Ping, Xiao Fe He, and Jeremy M. Boss. HLA-DMA and HLA-DMB gene expression functions through the conserved S-X-Y region. *Journal of Immunology*, **1997.** 158:4812

James L. Riley, **Sandy D. Westerheide**, Jennifer A. Price, Jeffrey A. Brown, and Jeremy M. Boss. Activation of Class II MHC genes requires both the X box region and the Class II Transactivator (CIITA). *Immunity*, **1995.** 2:533

Jeffrey A. Brown, Xiao Fe He, **Sandy D. Westerheide**, and Jeremy M. Boss. Characterization of the expressed CIITA allele in the class II MHC transcriptional mutant RJ2.2.5*. Immunogenetics,* **1995**. 43:88

Gino Van Heeke, **Sandy J. Denslow**, Jill R. Watkins, KJ Wilson, and FW Wagner. Cloning and nucleotide sequence of the Vibrio proteolyticus aminopeptidase gene. *Biochim Biophys Acta,* **1992**.1131:337