

VALERIE HOLCOMB, PH.D.

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EDUCATION/CERTIFICATION

University of Texas Health Science Center at San Antonio, San Antonio, Texas

Doctor of Philosophy in Molecular Medicine

May 2007

Texas Lutheran University, Seguin, Texas

Bachelor of Science in Biology, Cum Laude with Honors

May 2000

Certifications

Texas Educator's Certificate to teach Science Composite 9-12 - Texas

Texas Educator's Certificate to teach ESL/Supplemental - Texas

TEACHING EXPERIENCE

High School Dual Credit Science Instructor, Boerne-Samuel V. Champion High School, Boerne, Texas

Northwest Vista College

2017-Present

Angelo State University

2021-Present

High School Science Teacher Boerne-Samuel V. Champion High School, Boerne, Texas

2017-Present

PROFESSIONAL AFFILIATIONS

Association of Texas Professional Educators

PUBLICATIONS (Peer-reviewed journals)

NA Ford, NP Nunez, VB Holcomb and SD Hursting. IGF1 dependence of dietary energy balance effects on murine Met1 mammary tumor progression epithelial-to-mesenchymal transition, and chemokine expression. *Endocr Relat Cancer*. 2013 Jan;20(1):39-51.

RE Stubbins, VB Holcomb and NP Nunez. Estrogen modulates abdominal adiposity and protects female mice from obesity and impaired glucose tolerance. *Eur J Nutr*. 2012 Oct;51(7):861-70.

VB Holcomb, J Hong and NP Nunez. Exogenous estrogen protects female mice from the consequences of obesity and alcohol. *Menopause*. 2012 Jun;19(6):680-90.

AW Wong, SM Dunlap, VB Holcomb and NP Nunez. Alcohol promotes mammary tumor development via the estrogen pathway in estrogen receptor alpha-negative HER2/neu mice. *Alcohol Clin Exp Res*. 2012 Apr;36(4):577-87.

RE Stubbins, K Najjar, VB Holcomb, J Hong and NP Nunez. Oestrogen alters adipocyte biology and protects female mice from adipocyte inflammation and insulin resistance. *Diabetes Obes Metab*. 2012 Jan;14(1):58-66.

VB Holcomb, J Hong, K Kushiro and NP Nunez. Estrogen inhibits the effects of obesity and alcohol on mammary tumors and fatty liver. *Int J Oncol.* 2011 Dec;39(6):1443-53.

QX Paulson, J Hong, VB Holcomb and NP Nunez. Effects of body weight and alcohol consumption on insulin sensitivity. *Nutr J.* 2010 Mar;9(1):14.

J Hong, VB Holcomb, SA Tekle, B Fan and NP Nunez. Alcohol consumption promotes mammary tumor growth and insulin sensitivity. *Cancer Lett.* 2010 Aug 28;294(2):229-35.

J Hong, VB Holcomb, F Dang, K Porampornpilas and NP Nunez. Alcohol consumption, obesity, estrogen treatment and breast cancer. *Anticancer Res.* 2010 Jan;30(1):1-8.

VB Holcomb, H Vogel and P Hasty. Unlike p53, p27 failed to exhibit an anti-tumor genetic interaction with Ku80. *Cell Cycle.* 2009 Aug 11;8(15):2463-6.

VB Holcomb, VA Keck, JC Barrett, J Hong, SK Libutti and NP Nunez. Obesity impairs wound healing in ovariectomized female mice. *In Vivo.* 2009 Jul-Aug;23(4):515-8.

VB Holcomb, F Rodier, YJ Choi, RA Busuttil, H Vogel, J Vijg, J Campisi and P Hasty. Ku80 deletion suppresses spontaneous tumors and induces p53-mediated DNA damage response. *Cancer Res.* 2008 Nov 15; 68(22):9497-502.

H Li, H Vogel, VB Holcomb, Y Gu and P Hasty. Deletion of either ku70, ku80 or both causes early aging without substantially increased cancer. *Mol Cell Biol.* 2007 Dec; 27(23):6205-14.

VB Holcomb, H Vogel, RW Kornegay and P Hasty. Deletion of ku80 causes early aging independent of chronic inflammation and rag-1-induced DSBs. *Mech Ageing Dev.* 2007 Nov-Dec; 128(11-12):1601-8.

VB Holcomb, TM Kim, L Dumitrache, SM Ma, MJ Chen and P Hasty. The HPRT minigene generates chimeric transcripts as a by-product of gene targeting. *Genesis.* 2007 May; 45(5):275-81.

M van de Ven, JO Andressoo, VB Holcomb, P Hasty, Y Suh, H van Steeg, GA Garinis, JH Hoeijmakers and JR Mitchell. Extended longevity mechanisms in short-lived progeroid mice: Identification of a preservative stress response associated with successful aging. *Mech Ageing Dev.* 2007 Jan; 128(1):58-63. Epub 2006 Nov 28. Review

M van de Ven, JO Andressoo, VB Holcomb, M von Lindern, WM Jong, CI de Zeeuw, Y Suh, P Hasty, JH Hoeijmakers, GT van der Horst and JR Mitchell. Adaptive stress response in segmental progeria resembles long-lived dwarfism and calorie restriction in mice. *PLoS Genet.* 2006 Dec 15; 2(12):e192.

VB Holcomb, H Vogel, T Marple, RW Kornegay and P Hasty. Ku80 and p53 suppress medulloblastoma that arise independent of Rag-1-induced DSBs. *Oncogene.* 2006 Nov 16; 25(54):7159-65.