

CLAYTON WRIGHT

Curriculum Vitae

4236 Thalia Station Circle, Virginia Beach, VA 23452

704-232-0063

clayton.wright@hamptonu.edu

PROFESSIONAL BACKGROUND

EDUCATION

Degrees:

Ph.D., Eastern Virginia Medical School, Norfolk VA September, 2005 – May, 2012
Biomedical Sciences (Microbiology)

B.S., Livingstone College, Salisbury NC September, 2001 – May, 2005
Biology

PostDoctoral Fellow: Hampton University (School of Pharmacy)

Microbiology professor: Hampton University, Fall 2014.

Admissions committee member: Hampton University School of Pharmacy, 2014.

Academic Affiliations: Biomedical Science Student Organization (BSSO) (Senior Officer, EVMS, 2005-present), Alpha Kappa Mu (AKM) Honor Society (President, 2004-2005), Beta Kappa Chi (BKX) Scientific Honor Society (President, 2002-2005) International Society for NeuroVirology (ISNV) (member, 2009-present), Virginia Universities AIDS Research Consortium (VUARC) (member, 2009-present).

PH.D. DISSERTATION

Varying effects of Tat from human immunodeficiency virus type 1 (HIV-1) clades on JC virus activation in the central nervous system.

Dr. Edward Johnson (advisor), Dr, Earl Godfrey (director).

With the development and the identification of several HIV-1 subtypes/clades that unevenly share the percentages of HIV-1 infections worldwide, research is needed to understand the mechanisms whereby these other subtypes function to cause the development of PML through JC virus activation. With our focus on the HIV-1 Tat protein, Pura, and the TGF β -1 cytokine pathway, we performed luciferase experiments to determine transactivation from the respective HIV-1 and JCV promoters, as well as immunoblots, DNA replication assays and ChIP experiments to determine protein levels and the respective binding of transcription factors to control regions of DNA. We also used confocal microscopy imaging to determine the localization of said proteins within the cells.

HONORS, AWARDS, AND ACHIEVEMENTS

Valedictorian (3.98 GPA, 2005, Livingstone College), Lamp of Knowledge (Top Student and Academic Excellence, 2005), Presidential Scholar (2004-2005), Academic Scholarship (Tuition Coverage, 2001-2005), Community Excellence Leader Scholarship (Fees Coverage, 2002-2005), Commitment to Cause Award (for outstanding volunteer

service, Community Care Clinic of Rowan County, 2001), *Who's Who Among Students in American Universities & Colleges* (in recognition of outstanding merit and accomplishment as a student at Livingstone College, 2005).

PUBLICATIONS

“SMAD proteins of oligodendroglial cells regulate transcription of JC virus early and late genes coordinately with the Tat protein of human immunodeficiency virus type 1.” Stettner MR, Nance JA, Wright CA, *et al.* J. Gen. Virol. 2009 Aug;90(Pt 8):2005-14. Epub 2009 May 6.

“Effects of Tat Proteins and Tat Mutants of Different Human Immunodeficiency Virus Type 1 Clades on Glial JC Virus Early and Late Gene Transcription.” Clayton A. Wright, Jonas A. Nance and Edward M. Johnson. (*Virology*, publication pending; submitted 01/2012)

PRESENTATIONS AND PUBLIC APPEARANCES

“Investigating the Differences Between HIV-1 Tat Subtypes B, C and D on Viral Transcription and Replication.” (poster, Richmond, VA. 2007. The American Society for Microbiology [ASM])

“Structural and Functional Distinctions Among Tat Proteins of Different HIV-1 Clades.” (poster, Miami, FL. June, 2009. International Society for NeuroVirology)

“Comparison of glial effects of Tat proteins from HIV-1 clades B and C on JC virus late gene transcription and on interaction with the immunomodulatory cytokine TGF-beta1.” (poster/talk Dr. Edward Johnson, Milan, Italy. October, 2010. International Society for NeuroVirology)

“Differential autophagy responses in non-tumorigenic and malignantly transformed lung epithelial cells.” (poster, 2014 AACR Conference. San Diego, CA. 2014)