

Curriculum Vitae

Name:

Thersa M. Sweet

Place of Birth:

Detroit, Michigan

Email Address: ts36@drexel.edu

Education:

Ph.D. in Epidemiological Sciences.

Rackham School of Graduate Studies, University of Michigan, Ann Arbor, Michigan.

Dissertation: "Virulence Studies Associated with Influenza A/AnnArbor/6/60"

M.P.H in Molecular Epidemiology

School of Public Health, University of Michigan, Ann Arbor, Michigan.

B.S. in Biology

University of Michigan, Ann Arbor, Michigan.

Employment:

Assistant Teaching Professor. 2013-present

Epidemiology Department, School of Public Health, Drexel University

Post-Doctoral Fellow. 2010-2013

Epidemiology Department, School of Public Health, Drexel University

Assistant Professor. 2008-2009

Biology Department, Temple University

Associate Scientist. 2002-2007

Center for Neurovirology and Cancer Biology, Temple University.

Lecturer, adjunct faculty. Temple University. 2002-2004.

Assistant Scientist. 1999-2002.

Center for Neurovirology and Cancer Biology, Temple University.

Post-Doctoral Fellow. 1998-1999.

Center for Neurovirology and Neuro-Oncology, MCP-Hahnemann University.

Graduate Student Research Assistant. 1995-1998.

University of Michigan, School of Public Health.

Tutor III. 1994-1998.

University of Michigan, School of Public Health.

Teaching Assistant for Virus Lab Methods, Epidemiology 545. 1995.
University of Michigan, School of Public Health, Department of Epidemiology.

Teaching Assistant for Bacterial Pathogenesis Lab, Epidemiology 565. 1994.
University of Michigan, School of Public Health, Department of Epidemiology.

Research Assistant. Virology Research Lab. 1993.
University of Michigan, School of Public Health, Department of Epidemiology.

Research Assistant. Microbiology Research Lab. 1994.
University of Michigan, School of Public Health, Department of Epidemiology.

Research Assistant. Allergy Research Lab. 1987-1993.
University of Michigan, Department of Internal Medicine.

Teaching and Curriculum Experience

PBHL 301, Epidemiology in Public Health. 2014
Drexel University School of Public Health. Course organizer and lecturer.

PBHL 321, Outbreak Investigations. 2013
Drexel University School of Public Health. Course designer

PBHL Epidemiology of AIDS, Outbreak Investigations. 2013
Drexel University School of Public Health. Course designer

PBHL 822. Pathophysiology. 2013
Drexel University School of Public Health. Course designer, organizer and lecturer.

PBHL 311, Public Health Biology. 2013.
Drexel University School of Public Health. Course designer.

Biology 1012, General Biology II. 2009-2011.
Temple University. Course organizer and lecturer.

Biology 328, Virology. Fall 2001-2009.
Temple University. Course lecturer.

Biology 1001, Human Biology. 2007-2009.
Temple University. Course organizer and lecturer.

Biology 102, General Biology Lab, 2005.
Temple University. Adjunct assistant professor.

Biology 71, Human Biology Lab. 2004.
Temple University. Course lecturer.

Biology 80, Human Development. 2002-2003.
Temple University. Course organizer and lecturer

Directed Readings, Biology 300, 2002-2007.
Temple University.

Epidemiology 545, Virus Lab Methods. 1995
University of Michigan, School of Public Health. Course organizer, lecturer and laboratory advisor.

Epidemiology 565, Bacteriology Lab Methods. 1994
University of Michigan, School of Public Health. Course organizer, lecturer and laboratory advisor.

Tutor III. 1994-1998.
University of Michigan, School of Public Health. Courses included Epidemiology Methods and Biostatistics.

Awards and Fellowships:

KOI grant award, KO1 MH069128-01, National Institute of Health, 2003-2008.
Primary Investigator
Title “NFBP, a novel factor regulating HIV-1 transcription.”

RO1 grant award, 1NS 055644-01, National Institute of Health, 2007-2012.
Co-Primary Investigator
Title, “Involvement of Survivin in the Development of Progressive Multifocal Leukoencephalopathy.”

Investigator in Training, International Society for Neurovirology, Dusseldorf, Germany,
June 19-22, 2002

Payne Fellowship-Virology Research, University of Michigan, School of Public, Health,
Department of Epidemiology. 1996.

Student winner of the 1996 Epidemiology Poster Session, University of Michigan, School of
Public Health. 1996.

NIH sponsored “Nucleic Acid and Protein Sequence Analysis Workshop.” 1994.

Michigan Competitive Scholarship. 1987-1991.

Regents Alumni Scholarship. 1987.

Service Contributions:

Member of MS in Epidemiology Admission Committee. Department of Epidemiology,
Drexel University School of Public Health. 2014.

Faculty representative of the University Advisory Committee on Drexel Student Learning Priorities. 2014.

Chair for Equipment committee. Center for Neurovirology and Cancer Biology, Temple University. 2007.

Seminar series organizer. Center for Neurovirology and Cancer Biology, Temple University. 2002-2008.

Student Representative to Curriculum Committee. 1995-1996. University of Michigan, School of Public Health, Department of Epidemiology.

Member of the Graduate Student Forum. 1994-1996. University of Michigan, Rackham School of Graduate Studies.

Reviewer:

Child Abuse & Neglect. 2013

American Journal of Public Health. 2012

AIDS Care. 2012

Journal of Biosocial Science. 2012

Oral Presentations:

Invited speaker at the Black Journalists Training Workshop for the Black AIDS Institute at the International AIDS Conference. Washington DC, July 21, 2012.

Mediation of HIV/STI Risk among Persons Reporting Early Life Sexual Abuse by Mental Health Disorders. Society for Epidemiologic Research. Montreal, Canada, June 24, 2011.

NFBP, a Novel Human Protein from Glial Cells that Interacts the NF-kappaB Subunits to Modulate HIV-1 LTR. International Society for Neurovirology. Dusseldorf, Germany, June 19-22, 2002.

Increased Virulence in Mice Associated with Sequence Changes in the Hemagglutinin Gene of Influenza A/AA/6/60 (H2N2). American Society for Virology. Bozeman, MT, July 1998.

Molecular Analysis of the Matrix Gene in the ca A/AA/6/60 Influenza virus. Center for Neurovirology and Neuro-Oncology, Hahnemann University. Philadelphia, PA, April 1998.

Molecular Analysis of the Matrix Gene of the ca A/AA/6/60 virus. American Society for Virology. London, Ontario, Canada, July 13-15, 1996.

Articles Published:

Sweet T, Polanski M, and Welles SL. Mediation of HIV/STI Risk by Mental Health Disorders Among Persons Living in the US Reporting Childhood Sexual Abuse. *J Acquir Immune Defic Syndr*. 62(1), 81-89. 2013.

Sweet, T., & Welles, S. L. Associations of sexual identity or same-sex behaviors with history of childhood sexual abuse and HIV/STI risk in the United States. *J Acquir Immune Defic Syndr*, 59(4), 400-408, 2012

Gualco E, Urbanska K, Perez-Liz G, Sweet T, Peruzzi F, Reiss K, and Del Valle L. IGF-1R dependent activation of Survivin is required for T-Antigen mediated protection from apoptosis and proliferation of neural progenitors. *Cell Death & Differentiation*; 17 (3): 439-451, 2010.

Deshmane SL, Mukerjee R, Fan S, Del Valle L, Michiels C, Sweet T, Rom I, Khalili K, Rappaport J, Amini S, Sawaya BE, Activation of the Oxidative Stress Pathway by HIV-1 Vpr Leads to Induction of Hypoxia-inducible Factor 1{alpha} Expression. *J Biol Chem* 284:17. 2009.

Sweet T, Yen W, Khalili K, Amini S. Evidence for Involvement of NFBP in Processing of rRNA. *J Cell Physiol.*;214(2):381-8, 2008.

Pina-Oviedo, Urbanska K, Radhakrishnan S, Sweet T, Reiss K, Khalili K, Del Valle L. Effects of JC Virus Infection on Anti-Apoptosis Protein Survivin in Progressive Multifocal Leukoencephalopathy. *Am J Path.* 170(4). 2007.

Sweet T, Sawaya BE, Khalili K, Amini S. Interplay between NFBP and NF- κ B modulates the Tat interaction of the LTR. *J Cell Phys.* 204:375-380. 2005.

Abraham S, Sweet T, Sawaya BE, Rappaport J, Khalili K, Amini S. Cooperative interaction of C/EBP β and Tat modulates MCP-1 gene transcription in astrocytes. *J Neuroimmunology*. 160:219-227. 2005.

Sweet TM, Maassab HF, Herlocher ML. Reverse genetics studies attenuation of the CA A/AA/6/60 influenza Virus: the role of the matrix gene. *Biomedicine and Pharmacotherapy*. 58:509-515. 2004.

Enam S, Sweet TM, Amini S, Khalili K, Del Valle L. Evidence for involvement of transforming growth factor β 1 signaling pathway in activation of JC virus in Human Immunodeficiency Virus-1 associated Progressive Multifocal Leukoencephalopathy. *Arch Path.* 128:282-291. 2004.

Sweet, T.M.; Sawaya, B.E.; Amini, S.; Khalili, K. Identification of a novel protein from glial cells based on its ability to interact with NF- κ B subunits. *J Cell Biochem*. 90:884-891. 2003

Sweet, T.M., Del Valle, L., and Khalili, K. Molecular biology and immunoregulation of human neurotropic JC virus in CNS. *J Cell Physiol.* 191:249-256. 2002

Coyle-Rink J. Del Valle L. Sweet T. Khalili K. Amini S. Developmental expression of Wnt signaling factors in mouse brain. *Cancer Biology & Therapy.* 1(6):640-5. 2002.

Coyle-Rink, J, Sweet, T.M., Abraham, S., Sawaya, B.E., Batuman, O., Khalili, K., and Amini, S. Interaction between TGF β Signaling proteins and C/EBP controls basal and tat-mediated transcription of HIV-1 LTR in astrocytes. *Virology.* 299(2):240-7. 2002.

Muralidharan, V., Sweet, T., Amini, S., and Khalili, K. Regulation of Pura α gene transcription: evidence for autoregulation of Pura α promoter. *J Cell Phys.* 186:406-413. 2001

Sweet, T.M.; Maassab, H.F.; Coelingh, K., Herlocher, M.L. Creation of Amantadine Resistant Clones of Influenza Type A Virus Using a New Transfection Procedure. *J Vir Meth.* Vol. 69 (1-2). pp. 103-111, Dec 1997.

Posters presentations:

Sweet T, Abraham S, Sawaya BE, Rappaport J, Khalili K, Amini S. Cooperative interaction of C/EBP β and tat modulates MCP-1 gene transcription in astrocytes. International Society for Neurovirology. Sardinia, Italy, September 10-14, 2004.

Sweet T, Kandari H, Amini S, Khalili K. The importance of RNA in the interaction between NFBP and NF- κ B and HIV-1 tat. International Society for Neurovirology. Sardinia, Italy, September 10-14, 2004.

Sweet T, Sawaya BE, Amini S, Khalili K. Transcriptional Activation of HIV-1 by NFBP, a Novel Human Protein. International Society for Neurovirology. Baltimore, Maryland, September 2003.

Sweet, T; Coyle-Rink, J; Abraham, S; Sawaya, B; Batuman, O; Khalili, K; Amini, S. Interaction Between TGF β Signaling Proteins and C/EBP Controls Basal and Tat-mediated Transcription of HIV-1 LTR in Astrocytes. International Society for Neurovirology. Dusseldorf, Germany, June 19-22, 2002.

Sweet, T.M. and Khalili, K. Isolation of a novel human gene which binds to NF- κ B and is important in apoptosis. International Society for Neurovirology. San Francisco, CA, 2000.

Sweet, T.M.; Maassab, H.F.; Herlocher, M.L. Reverse Genetics Studies of Attenuation of the cold-adapted A/AA/6/60 Influenza Virus: the Role of the Matrix Gene. University of Michigan, School of Public Health, Department of Epidemiology Poster Session. October 21, 1996.

Sweet, T.M.; Maassab, H.F.; Herlocher, M.L. Molecular Analysis of the Matrix Gene in the ca A/AA/6/60 Influenza Virus. University of Michigan, School of Public Health, Department of Epidemiology Poster Session. November 6, 1995.