

# ***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:***

Vice Chair. 2024-present

Department of Epidemiology and Biostatistics, Dornsife School of Public Health, Drexel University

Associate Teaching Professor. 2018-present

Department of Epidemiology and Biostatistics, Dornsife School of Public Health, Drexel University

MPH Director. 2017-present

Department of Epidemiology and Biostatistics, Dornsife School of Public Health, Drexel University

Assistant Teaching Professor. 2013-2018

Department of Epidemiology and Biostatistics, Dornsife School of Public Health, Drexel University

Post-Doctoral Fellow. 2010-2013

Department of Epidemiology and Biostatistics, Dornsife 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

### ***Curriculum and Course Design Experience***

#### **Drexel University School of Public Health**

PBHL 510 - Public Health Foundations and Systems I. Course lead and co-designer  
PBHL 511 - Public Health Foundations and Systems II. Course lead and co-designer  
Infectious Disease Control and Practice Minor. Program co-designer  
Integrated Learning Experience in Epidemiology I. Course designer  
Integrated Learning Experience in Epidemiology II. Course designer  
PBHL 311 - Public Health Biology. Course designer  
PBHL 321/EPI 569 - Outbreak Investigations. Course designer  
EPI 561 - Pathophysiology. Course designer  
PBHL 320 - Exploring the HIV/AIDS Pandemic. Course designer  
PBHL 301 - Epidemiology in Public Health. Course designer  
EPI 555/PBHL 450 - Vaccine Design, Testing & Implementation. Course designer  
Vaccines Micro-Credential for Employees at long term care facilities - Course designer

### ***Teaching Experience - Courses taught***

#### **Drexel University Dornsife School of Public Health**

EPI 561 - Pathophysiology. 2013-present  
PBHL 301 - Introductory Epidemiology. 2014-present  
PBHL 321/EPI 569 - Outbreak Investigations. 2015-present  
EPI 555/PBHL 450 - Vaccine Design, Testing & Implementation. 2023 - present  
Vaccines Micro-Credential - 2024  
PBHL 311 - Public Health Biology. 2015 - 2022  
PBHL 510 - PH Foundations and Systems I. 2017 - 2022  
PBHL 511 - PH Foundations and Systems II. 2018 - 2022

#### **Temple University, Department of Biology**

Biology 1012 - General Biology II. 2009-2011  
Biology 328 - Virology. 2001-2009  
Biology 1001 - Human Biology. 2007-2009  
Biology 102 - General Biology Lab 2005  
Biology 71 - Human Biology Lab. 2004  
Biology 80 - Human Development. 2002-2003  
Biology 300 - Directed Readings. 2002-2007

**University of Michigan, School of Public Health**

Epidemiology 545 - Virus Lab Methods. 1995

Epidemiology 565 - Bacteriology Lab Methods. 1994

Tutor III. Courses included Epidemiology Methods and Biostatistics. 1994-1998

***Service Contributions***

Vice-Chair, Department of Epidemiology & Biostatistics, Drexel University Dornsife School of Public Health. 2014 – present

Epidemiology MPH Director, Department of Epidemiology & Biostatistics, Drexel University Dornsife School of Public Health. 2017 – present

Chair of Graduate Subcommittee of Drexel University Senate Committee on Academic Affairs. 2023-present

Member of Drexel University Senate Committee on Academic Affairs. 2018-present

Chair of Executive Committee of the Faculty Drexel University Dornsife School of Public Health. 2022 - 2024

Member of Executive Committee of the Faculty Drexel University Dornsife School of Public Health. 2021 – present

Faculty representative of the University Advisory Committee on Cluster Feasibility Team. 2024

Drexel University Online Traditional Learner Subcommittee Meeting. 2021 - 2022

Lead faculty, co-designer and instructor for the Public Health Foundations and Systems I and II, Drexel University Dornsife School of Public Health. 2016-2022

Member of the Workgroup to design the new Foundational Core Courses for the MPH Redesign, Drexel University Dornsife School of Public Health. 2016

Faculty Mentor for the Drexel Dragon Navigator Program. 2022 - present

Member of MPH Admission Committee.  
Drexel University Dornsife School of Public Health. 2015-2017

Member of MS in Epidemiology Admission Committee. Department of Epidemiology, Drexel University Dornsife School of Public Health. 2014-2017

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

### ***Continued Educational Training***

Quality Matter Workshop. Independent Applying the QM Rubric. 2018

Attended the "Teaching by the Case Method: Principles and Practice for Public Health Professionals" offered at the Harvard School of Public Health June 6-8, 2016

### ***Awards and Fellowships:***

Golden Apple Teaching Award. Drexel University. 2016

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-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

### ***Oral Presentations:***

Invited speaker to "STEM is Everywhere" a STEM career expo for the Philadelphia School District. February 23, 2017

Invited Speaker and Panel Member to ZombieCon hosted by Drexel University Honors College. May 15, 2016

Invited speaker to the Preconception Peer Educator Group, Drexel University School of Public Health. December 13, 2013

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:**

Del Valle L, Sweet T, Parker-Struckoff A, Perez-Liz G, Piña-Oviedo S. Activation of the anti-apoptotic Survivin promoter by JCPyV T-Antigen; Role in the development of Progressive Multifocal Leukoencephalopathy. *Viruses*. 12(11), 1253. 2020.

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, SL. 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- $\kappa$ 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 $\beta$  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  $\beta$ 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- $\kappa$ 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 $\beta$  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 gene transcription: evidence for autoregulation of Pura 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 $\beta$  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 NF $\beta$ P and NF- $\kappa$ 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 NF $\beta$ P, 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 $\beta$  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- $\kappa$ 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