

**Donald J. Alcendor**  
Curriculum Vitae

**Education:** 1983- Southern University, B.S., Microbiology (Honors)  
1986- Louisiana State University, M.S., Microbiology  
1992- University California, Davis, Ph.D. Microbiology/Molecular Virology

**Graduate and Postdoctoral Training**

1987-1989 Graduate Teaching Assistant, 1987-1989, Department of Bacteriology, University of California, Davis, CA.  
1993-1994 Post Doc, University California, Davis, Microbiology & Immunology  
1995-2000 Post Doc, Johns Hopkins University, Pharmacology and Molecular Sciences  
2000-2005 Faculty Research Fellow, Johns Hopkins University, Viral Oncology and Pharmacology  
1997-2005 Graduate Teaching Appointment, courses developed and taught: Advanced Biochemistry II, Virology, and Science of Xenotransplantation (later revised as Transplantation Science), Johns Hopkins University, Krieger School of Arts and Sciences, Graduate Programs in Biotechnology, Baltimore, MD.

**Predoctoral Experiences**

1983-1986 Graduate Teaching Assistant, Department of Microbiology, Louisiana State University, Baton Rouge, LA., Bacteriology and Immunology Laboratory Instructor  
1987 (Summer) Summer Biologist GS 401-7, National Institutes of Allergy and Infectious Diseases Laboratory of Clinical Investigation, Medical Virology, (M. Frank Laboratory Chief) Dr. Steven Strauss and Dr. Jeff Ostrow (Mentors) Bethesda, Maryland  
1988-1993 Laboratory Coordinator, Biology Undergraduate Scholars Program, Office of the Dean, University of California Davis, Davis, CA.  
1992 Conference Organizer, Moderator for the Third Annual Undergraduate Research Conference, UC Davis, April 18, 1992.

**Professional Appointments**

2018 - present Adjunct Associate Professor Department of Pathology, Microbiology & Immunology (PMI) Vanderbilt Institute for Infection, Immunology and Inflammation, Division of Infectious Diseases, Vanderbilt University Medical Center  
1998 - present Cytomegalovirus Expert, Food & Drug Administration (FDA), Division of Vaccine Injury & Compensation Program, DHHS, Rockville, MD

2015-2017	Co-Director: Continuum of Care Scientific Working Group, Tennessee Center for AIDS Research (TN-CFAR), Vanderbilt, Meharry and the Tennessee Department of Health
2017-present	Donald J. Alcendor: member of the working group supporting the Meharry HIV Research efforts in the military, Meharry Medical College and Walter Reed Army Institute of Research
2017-present	Member: Johns Hopkins Zika Center, Wilmer Eye Institute, Johns Hopkins University Medical Center, Baltimore, Maryland
2016-present	Director: Zika Pathogenesis Working Group, Meharry Medical College, Vanderbilt, Tennessee Department of Health, Tennessee State University, and UC Davis
2016-present	Associate Director, Vanderbilt Short Term Training Program (STTP) for Minority Students, Vanderbilt University Medical Center, Department of Pathology
2016-present	Member of Vanderbilt Institute for Clinical and Translational Research (CTSA) Scientific Review Committee (VICTR SRC), Vanderbilt University
2017-present	(CTSA) Community Engagement Collaborator for information dissemination Vanderbilt University (CTSA)
2016-present	Technical Advisory Group member for the Tennessee Health Care Innovation Initiative Episodes of Care, "HIV Outpatient Skin and Soft Tissue Infection (SSTI) Episodes of care," State of Tennessee, Division of Health Care, Finance, and Administration
2016-2017	Consultant for Global Technology Community (GTC Bio) infectious diseases, biotech partnering, and pharmaceutical litigation, Monrovia, California
2013-present	VICTR-CTSA Grant Studio Expert Reviewer on Infectious Disease, Vanderbilt University Medical Center, MRB-III U1202
2015-present	In Service Specialist for Infectious Disease Training of the 101 <sup>st</sup> Airborne Division (Air Assault) Medics, Fort Campbell, Clarksville, TN
2015-present	Grant Reviewer for the Florida Department of Health Biomedical Research Programs, Oak Ridge Associated Universities and Department of Energy
2015- 2016	Special Government Employee (SGE) Food & Drug Administration Center for Drug Evaluation and Research (CDER), Consultant to the FDA Antimicrobial Drugs Advisory Committee (AMDAC)
2012-2015	Special Government Employee (SGE) Food & Drug Administration Center for Drug Evaluation and Research (CDER) Consultant to the FDA Antiviral Drugs Advisory Committee
2012 - present	Adjunct Associate Professor, Department of Cancer Biology

## Vanderbilt University Medical Center

2012-2017	External Associate of the Vanderbilt Institute for Integrative Biosystems Research and Education (VIIBRE) Vanderbilt University Medical Center
7/2012-present	Human Brain on-a-Chip Investigator: Neurovascular Unit on a Chip: Chemical Communications, Drug and Toxin Responses, National Center for Advancing Translational Sciences (NCATS) at the National Institutes of Health (NIH) Vanderbilt/Meharry/Cleveland, Clinic PI: John Wikswo
1/2012-2015	Principal Investigator and Interim Project Director for "Project SAVED" Meharry Medical College, Center for AIDS Health Disparities Research Funded by the Center for Disease Control and Prevention (CDC)
2012-present	Director of the Community Outreach-Core, Center for AIDS Health Disparities Research, Meharry Medical College
5/31/2012-present	Associate Professor, Center for AIDS Health Disparities Research Department of Microbiology & Immunology Meharry Medical College
11/2005 - 2012	Assistant Professor, Center for AIDS Health Disparities Research Department of Microbiology & Immunology Meharry Medical College
11/2010 - present	Adjunct Assistant Professor, Department of Obstetrics and Gynecology Meharry Medical College
2009 - 2012	Adjunct Assistant Professor, Department of Cancer Biology Vanderbilt University Medical Center
9/2011 - present	Program Faculty, Microbial Pathogenesis Program Pathology, Microbiology and Immunology Vanderbilt University Medical Center

## Honors

1983	Cum Laude undergraduate in Microbiology, Southern University
1989	Patricia Roberts Harris Graduate Fellow, University of California, Davis
1989-1990	University of California, Davis, Research Mentorship Fellow
1990	Academic Achievement Award, University of California, Davis
1990-1991	Floyd and Mary Schwall, Dissertation Fellow
1990-1992	National Heart Lung and Blood Institute Pre-doctoral Fellow
1992	Member of the Graduate Advisory Committee on Diversity, UC Davis,
1992	Merck Special Service Award, Division of Biological Sciences, UC Davis
1992-1993	National Heart Lung and Blood Institute Post-Doctoral Fellow
1994-1996	National Cancer Institute Fellowship, Johns Hopkins University
1997	Unsolicited Award, Detection of Simian Cytomegaloviruses in Human Cells, FDA
1997	National Heart Lung and Blood Institute, Spring Fellow
2007	Host Tumor Interaction Award, Vanderbilt University, Nashville, TN

2008 Tennessee Health Foundation Award, BlueCross BlueShield, TN

2008- State of Tennessee Department of Health Speakers Bureau: "Health Disparities"

2010 Selected as an (AACR) Minority Scholar in Cancer Research

2010 Center for AIDS Research (Meharry-Vanderbilt-CFAR) young investigator select presentation at the 14<sup>th</sup> Annual International CFAR Symposium

2010 Recognized by American Association for Cancer Research (AACR), Minorities in Cancer Research (MICR) "Spotlight" as a CFAR Developmental Core Award Recipient for AIDS-Related Malignancies

2011 Mentor for the Vanderbilt University School of Medicine Medical Scholars Award Program

2012 ASM Research Spotlight on Minority Microbiology Scientist: HCMV and Brain Pericytes

2012 Nashville Business Journal Health Care Hero Award in Research

2012 Member of the Nashville Health Care Council

2012 Panel Member for the National Association for Black Journalist (NABJ) Institute on Health, Health Policy and Health Inequities: U.S. HIV Epidemic at AIDS 2012, The Henry Kaiser Family Foundation

2012 Advisory Board Consultant, Food and Drug Administration (FDA) for Health Disparities, Office of Minority Health, Silver Springs Maryland

2012 Mentor for the Food and Drug Administration (FDA) Office of Minority Health, Health Disparities Fellowship established in a Memorandum of Understanding (MOU) between Meharry Medical College and the FDA

2012 Invited Panelist to the Summit on the Science of Eliminating Health Disparities: Building a Healthier Society, Integrating Science, Policy and Practice and the FDA's Office of Minority Health special session entitled "Personalized Medicine and Health Disparities Travel Award to the 13<sup>th</sup> RCMI International Symposium on Health Disparities

2012 Research Sabbatical at the Cleveland Clinic, Brain on-a-chip project, Cerebrovascular Research, Laboratory of Dr. Damir Janigro, Ph.D., Lerner Research Institute, Cleveland, Ohio

2012 Accepted as a participant in the NIH Early Career Reviewer Program, Center for Scientific Review, National Institutes of Health, Rockville, MD

2013 Invited Investigator to the Defense Advanced Research Projects Agency (DARPA)/NIH Microphysiological Systems Meeting (Human-on-a-Chip Investigator meeting), Washington, DC

2013 Second Research Sabbatical at the Cleveland Clinic, Brain on-a-Chip project, Cerebrovascular Research, Laboratory of Dr. Damir Janigro, Ph.D., Lerner Research Institute, Cleveland, Ohio

2013 Recipient of the Dolores C. Shockley Partnership Award in Research, Department of Pharmacology, Vanderbilt University, Medical Center

2013 Invited presentation at the United States Conference of AIDS, New Orleans, LA

2013 3<sup>rd</sup> Mini-Research Sabbatical at the Cleveland Clinic, Brain on-a-chip project, Cerebrovascular Research, Laboratory of Dr. Damir Janigro, Ph.D., Lerner Research Institute, Cleveland, Ohio, July 30- August 9<sup>th</sup>

2013 Recipient of the Brain-on-a Chip Sub-Award, Human Brain on-a-Chip Investigator: Neurovascular Unit on a Chip: Chemical Communications, Drug and Toxin Responses National Center for Advancing Translational Sciences (NCATS) at the National Institutes of Health (NIH)

2013 Invited Consultant to FDA Antiviral Drugs Advisory Committee Meeting (AVDAC), Silver Springs, MD for the review of Sofosbuvir for the treatment of chronic Hepatitis C.

2013 Invited Consultant to FDA Antiviral Drugs Advisory Committee Meeting (AVDAC), Silver Springs, MD for the review of Simeprevir for the treatment of chronic Hepatitis C.

2013 Clinical and Translational Research Reviewer (CTSA), Vanderbilt University Medical Center HIV/AIDS applications

2014 Member of the Vanderbilt Pre<sup>3</sup> Initiative to Prevent Adverse Pregnancy Outcomes and Prematurity

2014 Selected Project: The Role of CMV in Intrauterine Growth Restriction for PathLINK Beta Testing, Vanderbilt Medical Center, Maternal Fetal Program Initiative

2014 Member of the American Society for Microbiology (ASM) list of distinguish Minority Microbiologist

2014 Oral Presentation for Exemplary Submitted Abstracts, 6<sup>th</sup> Annual Ocular Diseases and Drug Discovery Conference Global Technology Community (GTC), San Diego, CA, March 20-21, 2014

2014 Oral Presentation and Travel Award to the Gordon Conference on “Barriers of the CNS” Colby-Sawyer College in New London, NH, June 15-20, 2014

2014 Advisory Board member to the Annual Ocular Diseases Discovery Conference, Global Technology Community (GTC)

2015 Oral Presentation and session moderator (Clinical Developments Advances & Updates) 7<sup>th</sup> Annual Ocular Diseases Discovery Conference, Global Technology Community (GTC), San Diego, CA, March 19-20, 2015

2015 Consultant and voting member, FDA Antimicrobial Drugs Advisory Committee (AMDAC)

2015 Mentor for Dr. M. Alfred Haynes Mentoring and Advising Students for Success (MASS) Symposium, University of Tennessee Health Science Center co-sponsored by Baylor College of Medicine/National Institute of General Medicine Sciences and the Intercultural Cancer Council at Baylor College of Medicine, Memphis, TN, March 26-27, 2015

2015 Selected Presentation to The 2<sup>nd</sup> Annual Meeting of the Human Placenta Project: on Placental Structure and Function in Real Time, Incorporating Omics and Imaging into the HPP, Natcher Conference Center (Building 45) on the NIH campus, Bethesda, Maryland, April 27-28, 2015

2016 Invited Speaker: Donald J. Alcendor, “MEDICAL GRAND ROUNDS” “Empowering Women and Girls on What They Need to Know About HIV/AIDS,” WEBCAST, June 29, 2016, Southeast AIDS Education and Training Center (SE AETC) Vanderbilt University TN AIDS Education & Training Center (TN AETC) Vanderbilt Comprehensive Care Clinic (VCCC) One Hundred Oaks Facility Conference Room, Vanderbilt University Medical Center

2016 Advisory Board member to the 9<sup>th</sup> Annual Ocular Diseases Discovery Conference, Global Technology Community (GTC)

2017 Speakers Bureau and Consultant for Hologic

2017 Invited Speaker: Oral Presentation 9<sup>th</sup> Annual Ocular Diseases Discovery Conference, Global Technology Community (GTC), San Diego, CA, March 20-21, 2017

2017 Invited Speaker and Panel Member: Oral Presentation 6<sup>th</sup> Annual Infectious Disease Summit, Global Technology Community (GTC), Baltimore, MD, July 13-14, 2017

2017 Vanderbilt Research: Institute for Clinical and Translational Program, Certificate of Recognition as an Expert in VICTR, Vanderbilt CTSA the Studio Program, presented by Gordon R. Bernard, October 19, 2017

2017 Community Fitness/Health Leadership Award presented by Bishop Joseph Walker: Mount Zion Baptist Church, Nashville, TN, October 27, 2017

2018 Mock FDA Panelist for Achaogen

2018 Mock FDA Panelist for SIGA Corporation

2018 Mock FDA Panelist for GlaxoSmithKline

2018 Invited participant: University of North Carolina, STEM Innovation Pitch Event for Minority Entrepreneurs on October 11, 2018.

2018 Invited Speaker: Donald J. Alcendor, Biotech Start-Up Pitch “Development of Antiviral That Target Unique Unmet Clinical Needs” University of North Carolina, at Chapel Hill,

- Rizzo Center, October 11, 2018.
- 2018 Invited Speaker/Participant: University of North Carolina, The Minority Pharma Faculty Research Leadership Summit, November 2018.
- 2018 Article Collection, Guest Editor: Frontiers in Neuroscience: Theme: Neurotropic Viruses and Neurodegenerative Diseases, Focus: JC Polyomavirus (JCV) the causative agent of Progressive multifocal leukoencephalopathy (PML) due May 2019.

### Editor

- 2012 Editor for the special issue -**Cancer Glycobiology** for the Journal of Glycobiology

### Editorial Boards and Journals Reviewer

- 2011 Editorial Board member, Journal of Bioengineering and Biomedical Science,  
2011 Editorial Board member, Springer Index of Viruses  
2011 Editorial Board member, ISRN Virology (International Scholarly Research Network)  
[2012 Editorial Board member, Journal of HIV/AIDS Research & Therapy](#)  
[2012 Editorial Board member, Journal of Oncobiomarkers](#)  
2013 Editorial Board member, Journal of Immunology & Clinical Research  
2013 Editorial Board member, Journal of Clinical Oncology & Research  
[2013 Editorial Board member, Austin Journal of HIV/AIDS Research](#)  
2013 Editorial Board member, Journal of International Scholarly Research Notices  
2014 Editorial Board member, Journal Annals of Clinical and Medical Microbiology  
2014 Editorial Board member, Journal of Cancer Prevention & Current Research  
2014 Editorial Board member, Journal of Cancer Science and Therapeutics  
[2014 Editorial Board member, Journal of HIV and AIDS](#)  
2015 Editorial Board member, Journal Int. Journal of Chronic Diseases & Therapy (IJCDT)  
2015 Editorial Board member, Journal of Autoimmune and Infectious Diseases
- [2013 - present Ad hoc reviewer Journal of Virological Methods](#)  
2013 - present Ad hoc reviewer Journal of Neuroinflammation  
[2012 - present Ad hoc reviewer Journal of Cutaneous Pathology](#)  
2012 - present Ad hoc reviewer Archives of Dermatological Research  
2010 - present Ad hoc reviewer Journal of Translational Oncology  
[2015 - present Ad hoc reviewer Journal of Pathology](#)  
2016 - present Ad hoc reviewer Peer Journal  
2017 - present Ad hoc reviewer Emerging Microbes  
2017 - present Ad hoc reviewer American Journal of Kidney Diseases  
2017 - present Ad hoc reviewer the Journal Placenta  
2018- present Ad hoc reviewer the Journal of Molecular Medicine

### National Committees

- 2012-2015 FDA Center for Drug Evaluation and Research (CDER)  
Consultant to the FDA Antiviral Drugs Advisory Committee
- [2009 - 2014 AIDS Cancer Specimen Resource \(ASCR\) adhoc committee member on the independent Research Evaluation and Decision Panel \(REDP\), University of California San Francisco \(UCSF\), Ohio State University \(OSU\), and George Washington University \(GWU\), supported by NCI-AIDS Malignancy Program](#)



2009 - 2014	Member of the CFAR Women and HIV Research Working Group, University of Washington
2009 - present	Member of the Tumor Microenvironment Working Group, (AACR)
2008 - present	Member of the Round Table Group Expert Network Round Table Group Inc., 601, Pennsylvania Ave, NW, Suite 900, Washington, DC
2007- present	Center for AIDS Research (CFAR) Member, Vanderbilt-Meharry Center for AIDS Research Role: Researcher, Nashville, TN

### **Societies and Professional Memberships**

2006 - 2014	VICC Host-Tumor Interactions Research Program Member, Role: Researcher, Vanderbilt University Medical Center, Nashville, TN
2007 - present	CFAR Member, Vanderbilt-Meharry Center for AIDS Research Role: Researcher
2008 - present	State of Tennessee Department of Health Speakers Bureau: "Health Disparities"
2009 - 2015	Member of the American Association for Cancer Research, (AACR)
2009 - present	Member, American Association for Cancer Research (AARC) Minorities in Cancer Research (MICR)
2009 - present	Member of the Tumor Microenvironment Working Group, (AACR)
2009 - present	Member of the CFAR Women and HIV Research Working Group, University of Washington
2011 - 2013	Member of the American Society for Investigative Pathology

### **Grants Awarded**

#### **Grants Completed:**

**1UL1RR024975** Bernard (PI) 9/17/07-5/31/12

**Clinical and Translational Research Science Award (CTSA), Donald J. Alcendor** "Racial disparities in bacterial vaginosis and its influence on HIV-1 acquisition" Pilot study from the **VICTR grant**. The project focuses on identifying host factors expressed by vaginal epithelial from women of different ethnic backgrounds with and without BV that could predispose them to increased risk for HIV infection. July 17, 2008 Role on project: Alcendor PI.

**1UL1RR024975** Bernard (PI) July 2009

**Clinical and Translational Research Science Award (CTSA), Voucher**

**Donald J. Alcendor** “Microarray Analysis of Pericytes after CMV Infection” July 2009. The project was designed to perform microarray analysis with RNA from mock and CMV infected brain vascular pericytes. Role on project: Alcendor PI.

Alcendor (PI)

**BlueCross BlueShield of Tennessee Health Foundation Grant:** Title: *“Understanding Mechanisms Involved in Human Cytomegalovirus Infection and Implications for Congenital Disease in Children”* 3/10/08-3/10/09. Role on project: Alcendor (PI) 1 year.

**5U54 RR 019192-05** Hildreth (PI) 9/30/03-8/31/09

**NIH/NCRR** Title: ***Comprehensive Center for Health Disparities Research in HIV.***

This grant establishes administrative support and creates an infrastructure for biological, behavioral and community HIV research at Meharry Medical College.

Role: Alcendor: Participating Investigator: Startup package **\$250,000**/year for 3 years

**5P30 AI054999-05** D'Aquila (PI) 5/15/03-8/31/11

**NIH/NIAID** Title: ***Vanderbilt Meharry Center for AIDS Research (CFAR)***

The overall purpose of the grant is to provide infrastructure support and to enhance the multidisciplinary, collaborative environment for AIDS research. Pilot study funds for new collaborative projects are included.

Pilot Title: The Role of Brain Vascular Pericytes in HIV Neuropathogenesis (1/1/08-12/13/2010). The study was designed to examine the role of brain vascular pericytes in HIV neuropathogenesis

Role on project: Alcendor PI.

**5P20RR011792-10** Rice (PI) 9/30/96-7/31/08

**NIH/NCRR** Title: ***Meharry Clinical Research Center***

The overall purpose is to support both the CRC administrative structure and clinical research activities.

Pilot Title: Identification of Dysregulated Genes in the Brain after HIV Infection: Implications for Therapy in HIV-associated Dementia (09/30/07-08/30/09)

Role on project: Alcendor PI.

The pilot study focused on identifying dysregulated genes in blood-brain-barrier cells after HIV infection.

**5P20RR011792-10** Rice (PI) 9/30/96-7/31/08

**NIH/NCRR** Title: ***Meharry Clinical Research Center***

The overall purpose is to support both the CRC administrative structure and clinical research activities.

Pilot Title: Analysis of Factors Expressed by Vaginal Epithelial Cells Associated with Ethnic Disparities in Women with Bacterial Vaginosis and Increase Risk for HIV-1 Acquisition (10/01/06-06/30/08). The focus was a pilot study to recruit patients for cervicovaginal lavages for our BV/HIV studies.

Role on project: Alcendor PI.



**Scholarship Award for Services**, Vanderbilt-Ingram Cancer Center Support Grant (P30CA068485) Vanderbilt University, "KSHV Dysregulation of Endothelial Cells Biomarkers", **VICC Tumor Host Interaction Group** June 26, 2007. For support services. The funds were used to perform microarray analysis on mock and KSHV infected dermal microvascular endothelial cells.

**5P30 AI054999-05** D'Aquila (PI) 5/15/03-8/31/11

**NIH/NIAID Title: *Vanderbilt Meharry Center for AIDS Research (CFAR)***

The overall purpose of the grant is to provide infrastructure support and to enhance the multidisciplinary, collaborative environment for AIDS research. Pilot study funds for new collaborative projects are included.

Pilot Title: "Diagnostic and Therapeutic Potential of Galectin-3, Fibulin-2 and Fibulin-5 in Kaposi's Sarcoma" (9/1/09-8/31/2011). The project focuses on development of biomarkers for early detection and novel therapeutics for KS disease.

Role on project: Alcendor PI.

**1U54RR026140** Adunyah (PI) (9/1/09\8/30/14)

**NIH/NCRR Title: Meharry Clinical Translational Research Center (MeTRC): Collaborative Project Award 2 years.** *In Vitro* Model for the Effects of BV on Vaginal Epithelium HIV Infectivity, Meharry Medical College, March 16, 2010. The project focuses on the development of an in vitro vaginal model that employ co-infection of vaginal explanted tissue with BV bacteria and HIV. Dr. Alcendor role on project: PI.

**1U54RR026140** Adunyah (PI) (9/1/09\8/30/14)

**NIH/NCRR Title: Meharry Clinical Translational Research Center (MeTRC) Pilot Grant** "Pericytes and Cytomegalovirus Neuropathology in Congenital Disease"  
6/1/10-5/31/12, Meharry Medical College, May 5, 2010. The study focuses on the development of a blood brain barrier model to look at CMV dissemination in the CNS using time lapse fluorescent microscopy. Dr. Alcendor Role on project: PI

**1 U65PS001720-02** Alcendor (PI) 9/30/09-03/31/14

**CDC Title: *Capacity Building Assistance (CBA) to improve the Delivery and Effectiveness of Human Immunodeficiency Virus (HIV) Prevention Services for High-risk and/or Racial/Ethnic Minority Populations***

The overall purpose of the grant is to strengthen the capacity of African American faith leaders, health providers (trained), Historically Black College and University (HBCU) leaders in metropolitan and nonmetropolitan US southern states to collaboratively increase access and the use of HIV prevention services. Role on project: Alcendor PI and Interim Project Director.

**1UH2TR000491-01** Wikswo (PI) 7/1/12-06/30/14

Project Title: Neurovascular Unit on a Chip: Chemical Communication, Drug and Toxin Responses, National Institute of Neurological Disorders and Stroke (NCATS)

Role on project: Investigator

Dr. Alcendor will aid in integration of pericytes and other cellular components of the normal brain into a microfluidic device modeled after the normal brain that will allow the monitoring of molecular traffic for therapeutic analysis and cellular responses after CMV infection (diseased brain). Dr. Alcendor will travel to and interact with collaborators on the grant from the Cleveland Clinic in the development of this model device of the BBB. Dr. Alcendor will also be responsible for virus cultivations and maintaining cellular components of the blood-brain-barrier, RNA extractions for real time PCR, immunostaining procedures, and BSL3 duties for handling infected cells.

Role: Donald Alcendor PI of consortium (part of a subcontract with Vanderbilt) over 5 years.

**1UH2TR000491-01 Subaward: Supplement** Alcendor (PI) 7/1/13-06/30/15

Project Title: Neurovascular Unit on a Chip: Chemical Communication, Drug and Toxin Responses, National Institute of DARPA/NCATS

Supplemental Award: Inner Blood-Retinal Barrier-on-a-Chip: Implications for Ocular Disease, Role on award: PI

### **Current Research Support:**

**P30 AI110527 Mallal, S**

**NIH/NIAID**

Tennessee Center for AIDS Research 7/1/2015- 6/30/2020

Tennessee CFAR Vanderbilt/Meharry Medical College/Tennessee Department of Health

Continuum of Care Scientific Working Group: Donald J. Alcendor, Role: Co-Director CoC-SWG

**5U54MD007593-07 Adunyah, S**

7/1/2015-11/15/2016

**NIH/NCRR**

Meharry Clinical Translational Research Center (MeTRC) Pilot Grant "The Role of Placental Inflammation CMV Associated Fetal IUGR PI of pilot grant: Donald Alcendor, Co-investigator: David Aronoff (Vanderbilt)

**Valentine, W (Sebastian Joyce currently)**

2R25 HL096223-06

12/1/2015-11/30/2020

**NIH/NHLBI**

Vanderbilt Vascular Biology Short Term Training Program "Short Term Training for Minority Students"

Donald J. Alcendor, Role: Associate Director

**Mallal, S**

HIV Pre-exposure Prophylaxis (PrEP) Implementation Science in CDC-funded Public Health

Demonstration Projects (Admin Supp). Donald J. Alcendor, Role: Coinvestigator

**Bernard, G**

2017-2022

**CTSA Renewal**

**Vanderbilt CTSA (funded August 2017)**

For this grant, I will serve as Co-Investigator of Community and Collaboration to oversee the implementation of dissemination methods with Dr. Barkin. I will work with Dr. Wikswo to leverage and pilot the Breakthrough Team infrastructure for brain-on-a-chip work and will assist in identifying strategies for workflows, information sharing, meeting timing/planning, and use of resources and tools that best facilitate the new team science infrastructure while advancing the development of tissue on a chip science and expertise at Vanderbilt and Meharry.

**Alcendor, DJ** 11/18/2016-2018  
Research Startup Award “Antiviral Development for Zika” Meharry Medical College  
Donald J. Alcendor, Role: PI

**Alcendor, DJ** 2016-2018  
**Vanderbilt Department of Pathology, Microbiology and Immunology Enhancement Award**  
Factors Encoded by Zika virus as a Potential Therapy for Neuroblastoma  
Donald J. Alcendor, Role: PI and Henan Correa MD CoPI

### **Grants pending**

**R21 (submitted 10/16/2017)**  
**PI. Donald J. Alcendor** 2018-2023  
Coinvestigator: Waldemar Popik

**NEI “Therapy for Zika virus Pathogenesis in Ocular Disease”**

Dr. Alcendor is an Associate Professor (3.5 calendar months) in the Department of Microbiology & Immunology at Meharry Medical College and is an Associate Professor AJ in the Department of Cancer Biology at Vanderbilt University Medical Center. His expertise includes viral congenital disease infection models. Dr. Donald J. Alcendor will supervise the project and be responsible for scientific direction. Dr. Alcendor will also be responsible for all cells and viral cultivations, fluorescent focus assays for viral infectivity, immunostaining of fresh frozen and paraffin embedded tissue section as well as formal presentations and drafting of progress reports and manuscripts.

**Role:** Co-Investigator. Dr. Waldeman Popik will supervise and execute experiment that examines changes in viral replication, assessment of viral load in tissue and body fluids by quantitative reverse transcription polymerase chain reaction (qRT-PCR). Dr. Popik will also be responsible for confocal microscopy analysis and will participate in preparation of progress reports and manuscripts.

**R21 (submitted 10/16/2017)**  
**PI. Rajagopala, Seesandra Venkatappa** (Vanderbilt University School of Medicine) 2018-2020

**NIAID: “Assessment of Zika virus infection via host interactome network”**

**Role:** Coinvestigator: Dr. Donald J. Alcendor (1.2 calendar months) Dr. Alcendor will also be responsible for cells and viral cultivations, fluorescent focus assays and for viral infectivity studies. Dr. Alcendor will also assist in the drafting of progress reports and manuscripts.

### **University Committees at Meharry**

2015-present	Medical School Curriculum Evaluator: ASMD-311 PPR Principles and Practice of Research and MSRE-443 Medical Student Research Experience
2014-present	Member of the Student Scholarship Committee, Meharry School of Medicine
2014-present	Member, Student Evaluation and Promotion Committee, Meharry School of Medicine
2012-present	Member, James Symposium Planning Committee Department Obstetrics and

2011-2014	Gynecology, Meharry Medical College Member, Medical School Admissions Committee, Meharry School of Medicine
2011-present	Member, Appointment, Promotions, and Tenure Committee, Department of Microbiology & Immunology
2008-2009	Member, Academic Appeals Committee Meharry Medical College
2008-2009	Member, Curriculum Design Committee Meharry Medical College
2007- present	Member, Faculty Interviewers for Medical School Admissions, Meharry Medical College
2007- present	Member, Center for Women's Health Research, Meharry Medical College
2007- present	Member, Honorary Degree Committee Meharry Medical College
2014-present	Member, Meharry School of Medicine Scholarship Committee

#### **University Committees at Vanderbilt**

2007-present	Member, Short Term Training Grant Program and the Vascular Biology Summer Research Training Program for Minority Students, NIH sponsored Training Grant in Mechanisms of Vascular Disease, Vanderbilt and Meharry Alliance, Vanderbilt University, Department of Pathology
2006- 2014	Member, Vanderbilt Ingram Cancer Center Host-Tumor Interactions Research Program
2007- present	Member, Vanderbilt-Meharry Center for AIDS Research Role: Researcher
2011-2012	Member, Mentors for the Vanderbilt University School of Medicine Medical Scholar Award Program
2013- present	Member, Vanderbilt-Meharry Center for AIDS Research Planning Committee

#### **University Committees Johns Hopkins**

2005-2011	Research Consultant, Viral Vector Core Laboratory, Department of Oncology, Johns Hopkins University, School of Medicine, Baltimore, MD.
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#### **University Committees at UC Davis**

1992	Member, Graduate Advisory Committee on Diversity, University of California at Davis
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#### **Teaching of Graduate and Medical Students at Meharry**

2015- present	Lecturer, "Blood Supply to the Brain", Clinical Correlations: Integrative Neuroscience, Meharry Medical College for 1 <sup>st</sup> Year Medical Students, Meharry Medical College
2013- present	Facilitator, SGD-Overview of Viral Diseases, Virology for 1 <sup>st</sup> Year Medical Students, Meharry Medical College
2013- present	Lecturer, "Blood-Brain Barrier, Clinical Correlations: Integrative Neuroscience, Meharry Medical College for 1 <sup>st</sup> Year Medical Students, Meharry Medical College
2013- 2015	Lecturer, "HIV/AIDS 101 for Pre-Professional Students, Meharry Medical College Clinical Correlations Program for 1 <sup>st</sup> Year Medical Students, Meharry Medical College
2012- present	Lecturer, Pre-Professional HBCU Medical and Dental Students "HIV/AIDS 101 for Pre-Professional Students, Meharry Medical College
2012- present	Virology Lecturer, New Medical Health Science Degree Curriculum for Pre-Professional Graduate School, Meharry Medical College
2012- present	Facilitator, Principles of Infectious: Disease Patient Oriented Problem Solving (POPS) 1 <sup>st</sup> year medical students in the School of Medicine, Meharry Medical College
2012- present	Lecturer, Principles of Infectious Disease 1 <sup>st</sup> year medical students in the School of Medicine, Meharry Medical College
2012- 2013	Lecturer, Core Curriculum for 1 <sup>st</sup> year dental students in Dental Physiology: "HIV/AIDS Dental Impact and Clinical Correlations" Meharry Medical College. School of Dentistry
2010- present	Lecturer, Graduate School Course, General Virology: Course: Fundamentals of Virology Meharry Medical College
2011- 2012	Lecturer, Core Curriculum for 1 <sup>st</sup> medical year students: "Viruses and Immunity", Department of Microbiology and Immunology, Meharry Medical College
2012- present	Mentor and Interviewer, Health Careers Opportunity Program (HCOP) Meharry Ob/Gyn Summer Mentorship Program sponsored by the Department of Health and Human Services, Health Resources Administration
2010-present	Lecturer on HIV/AIDS for the Bachelors of Science/Doctor of Medicine (BSMD) Program sponsored by Meharry Medical College Center of Excellence

#### **Teaching of Graduate and Medical Students at Vanderbilt**

2011- present	Lecturer, Graduate School Course, Pathology 337 in "Cellular and Molecular Basis of Vascular Diseases", Vanderbilt University School of Medicine, Department of Pathology
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2009-2013            Lecturer, Advanced Graduate School Course, Course CAN342, Cancers of Infectious Origins, Department of Cancer Biology

2013- 2014            Lecturer, Vanderbilt Pediatric ID Seminar Series for Medical Students, Infectious Disease, Department of Pediatrics

### **Teaching of Graduate students at Johns Hopkins**

1998- 2005            New Course Development, Virology, Science of Xenotransplantation, and Transplantation Science, Johns Hopkins University, Krieger School of Arts and Sciences, Graduate Programs in Biotechnology, Baltimore, MD.

1997-2005            Graduate Teaching Appointment, courses taught Advanced Biochemistry II, Virology, and Transplantation Science, Johns Hopkins University, Krieger School of Arts and Sciences, Graduate Programs in Biotechnology, Baltimore, MD., Virology and Transplantation Science (originally Science of Xenotransplantation).

### **Mentoring Graduate, Medical, Undergraduate and High School students at Meharry**

#### Postdoctoral Students-

**Mack Hall III**, Dr. Hall is an FDA sponsored fellow (start date September 17, 2012) in my laboratory as a part of the MOU between Meharry and the FDA's Office of Minority Health, Dr. Hall's Research Project: "The effects of BV bacteria on vaginal epithelium HIV infectivity: Implications for mechanisms linked to health disparities in HIV/AIDS" (manuscript in preparation).

#### Graduate Students-

**Christy N. Marrs**. Dr. Marrs dissertation project involves "Evidence for *Gardnerella vaginalis* uptake and internalization by squamous vaginal epithelial cells: Implications for the pathogenesis of bacterial vaginosis." (see publications). Dr. Marrs was supported by the Vanderbilt Vascular Biology Short-Term Training Program for Minority Students. Dr. Christy Marrs PhD, defended her dissertation on April 13, 2012 and graduated with her PhD in Microbiology and Immunology in May 2012. (See publications)

#### Medical Students-

**Benjamin Lee** (Summer 2017) was a 4<sup>th</sup> year medical student at Meharry that assisted in the establishment of collaborations with Brazil, the University of Liverpool UK, and Johns Hopkins Zika Center for Zika Projects in the Alcendor laboratory (see publications).

**Alyssa Small** 4<sup>th</sup> year Meharry medical student Alyssa Small project entitled "Vaginal Epithelium Expression Signatures from Women of Diverse Ethnicity with Pelvic Organ Prolapse: Implications for Racial Disparities in POP (Vanderbilt Medical Scholars Fellowships Awarded (2011) in Center for AIDS Health Disparities Research, Mentor: Donald J. Alcendor PhD (manuscript in preparation).

**Alyssa Small** selected medical fellow to participate in the 2012 Stanford Clinical and Translational Research (CTR) Scholars Program with a sub-internship in Department of OB/GYN, Palo Alto, California, received March 28, 2012. Dr. Small received her MD degree in 2013 and is in residency training in Boston.

**Emanuel Okoro** (Summer 2007) was a 3rd year medical student at Meharry in the laboratory, project entitled “Cytomegalovirus down-regulation of fucosyltransferase-9 in brain microvascular endothelial cells.” Emmanuel Okoro, MD, recently received an F32 grant and is now an Instructor in research pathology at Meharry.

#### Masters of Health Science Students-

**Joshua Leban** (Fall 2012) was a Masters of Health Science student at Meharry in the laboratory that worked on the project entitled “Retinal Pericytes and Cytomegalovirus Infectivity: Implication for both Retinopathy and Congenital Ocular Disease” (see publications). He is third second year medical student at Meharry Medical College. Joshua Leban, MD is on Doximity, the leading professional network exclusively for Physicians

#### Undergraduates- Vanderbilt: Vascular Biology Summer Training Program

**Hollie Vigil**, Summer Student (Summer 2008) at Meharry: Vanderbilt Vascular Biology, Short Term Training Grant Program for Minority Students, from Colorado State University in Pueblo, CO. “The Role of Pericytes in HIV Infection and Dissemination in the Brain: Implications for Neuropathogenesis” currently she attends the University of Denver Medical School student (see publications). Hollie Vigil received the Denver Medical School Scholars award for 2012. Hollie completed her MD degree in 2013. Hollie was invited to participate in a 2<sup>nd</sup> summer research internship in the Alcendor Lab (summer 2009). Dr. Hollie Vigil is a preventive medicine physician in Coeur D Alene, Idaho. She received her medical degree from University of Colorado Denver School of Medicine and has been in practice between 3-5 years. (See Publications)

**Irene Wilkerson**, Summer Student (Summer 2012) from Atlanta, Georgia at Meharry facilitated through the Vanderbilt Vascular Biology Short-Term Training Program for Minority Students (summer 2012). I.W. was funded by NIH NHLBI 5R25HL096223-04. “Retinal Pericytes and Cytomegalovirus Infectivity: Implication for both Retinopathy and Congenital Ocular Disease” Ms. Wilkerson is currently a sophomore attending Auburn University. Irene was invited to participate in a 2<sup>nd</sup> summer research internship in the Alcendor Lab (summer 2013). (See publications)

**Johnathan Mitchell**, Summer Student (Summer 2012) from West Virginia at Meharry facilitated through Vanderbilt supported by the Vanderbilt Vascular Biology Short-Term Training Program for Minority Students (summer 2012). J.M. was funded by NIH NHLBI 5R25HL096223-04. Project title: “Retinal Glial Muller Cells and Cytomegalovirus Infectivity: Implication for Ocular Disease” Mr. Mitchell is currently a junior attending Marshall University. Johnathan was invited to participate in a 2<sup>nd</sup> summer research internship in the Alcendor Lab (summer 2014). (See Publications)

**Tracoyia Roach**, Summer Student (Summer 2016) from Florida A&M University at Meharry facilitated through Vanderbilt supported by the Vanderbilt Vascular Biology Short-Term Training Program for Minority Students as part of the Vanderbilt Summer Science Academy, Project: “Zika Virus Infection of Retinal Endothelial Cells: Implications for Viral Associated Congenital Ocular Disease” Submitted for publication on July 25, 2016. T.R. received 3<sup>rd</sup> place at VSSA poster session, Vanderbilt University Medical Center, Robinson Building Breezeway, August 4, 2016 (See publication)



**Noyna F. Fabre**, Summer Student (Summer 2018) from Hunter College in Bronx New, York at Meharry facilitated through Vanderbilt supported by the Vanderbilt Vascular Biology Short-Term Training Program for Minority Students as part of the Vanderbilt Summer Science Academy, Project: Assessment of BK Virus Replication in Cellular Components of the Human Glomerular Vascular Unit: Implications for BK Virus Associated Nephropathy (BKVAN). (See publications)

High School students-

**Ashley M. Charest** (Summer 2010) Senior from Mount Juliet High School in Mount Juliet TN. Project “Infection and Upregulation of Proinflammatory Cytokines in Brain Vascular Pericytes by Human Cytomegalovirus” currently attending University of Tennessee, Knoxville and plans to attend graduate school in a Neuroscience program (see publications). Ashley is currently during postgraduate fellow at NIH/ NICHD in the Bethesda, MD work for the ISAS (In-Home Supports Assurance System) Division under the Office of Health Services at the Maryland Department of Health. Ms. Charest has projects which include the evaluation, analysis, research, and development of health care services and Medicaid policies within Policy and Compliance. She is also a graduate of the Johns Hopkins Bloomberg School of Public Health with a Master of Science in Public Health (health policy).

#### **Mentoring in undergraduate programs at University of Tennessee Health Science Center**

2013-present                      Mentor for Dr. M. Alfred Haynes: Mentoring and Advising Students for Success (MASS) Symposium, University of Tennessee Health Science Center co-sponsored by Baylor College of Medicine/National Institute of General Medicine Sciences and the Intercultural Cancer Council at Baylor College of Medicine, Memphis, TN, March 26-27, 2015

#### **Mentoring in undergraduate programs at Vanderbilt**

3/2010 present                      Mentor on the Training Grant in Mechanisms of Vascular Disease, Department of Pathology, Short Term Training Program for Minority Students Vanderbilt University School of Medicine

#### **Mentoring in undergraduate Programs at Johns Hopkins**

1997-2005                              Summer Research Mentor, Leadership, Alliance, American Society of Microbiology at Johns Hopkins University, School of Medicine, Department of Pharmacology and Molecular Sciences, Baltimore, MD

#### **Mentoring in undergraduate programs at UC Davis**

1988-1993                              Laboratory Coordinator, Biology Undergraduate Scholars Program, Office of the Dean, University of California Davis, Davis, CA.

1992                                      Conference Organizer, Moderator for the Third Annual Undergraduate Research Conference, UC Davis, April 18, 1992.

### **Publications**

#### **Original Articles and Invited Reviews**

1. Barry, P.A., Pratt-Lowe, **Alcendor, D.J.**, E. Unger, and Paul Luciw 1990. Molecular interactions between human immunodeficiency virus type I and human cytomegalovirus Ann. New York Acad. Sci. 616: 54-63.
2. Barry, P.A., Pratt-Lowe, E., Unger, R.E., Marthas, M., **Alcendor, D.J.**, and Luciw, P.A. 1990. Molecular interactions of rhesus cytomegalovirus and the human and simian immunodeficiency viruses. J. Med. Primatol. 19:327-337.
3. **Alcendor, D. J.**, Ph.D. Dissertation: 1992. Structure and Function of the Rhesus Cytomegalovirus Immediate Early Gene, University of California, Davis.
4. **Alcendor, D. J**, Barry P.A, Pratt-Lowe E, Luciw PA. 1993. Analysis of the rhesus cytomegalovirus immediate early gene promoter. Virology; 194: 815-21.
5. **Alcendor, D. J**, Chapman GD, Beaman BL. 1995. Isolation, sequencing and expression of the superoxide dismutase-encoding gene (sod) of Nocardia asteroides strain GUH-2. Gene. 164: 143-145.
6. Barry, PA, **Alcendor, D. J**, Power, MD, Kerr, H, and Luciw PA. 1996. Nucleotide sequence and molecular analysis of the rhesus cytomegalovirus immediate-early gene and the UL121-117 open reading frame. Virology; 215: 61-72.
7. Micheals, MG, **Alcendor, D. J**, St. George, K, Rinaldo, Jr. C. R, Ehrlich, G. D, Becich, M. J, and Hayward G. S. 1997. Distinguishing baboon cytomegalovirus from human cytomegalovirus: Importance for xenotransplantation. J. Inf. Dis. 176: 1476-1483.
8. Nicholas, J, Zong, J, **Alcendor, D. J**, Ciufo, D, Poole, L. J, Sarisky, R. T, Chiou, C. J, Zhang, X, Wan, X, Guo, H. G., Reitz, and Hayward G. S, 1998. Novel organizational features, captured cellular genes, and strain variability within the genome of KSHV/HHV8. JNCI 23: 79-88.
9. Richman K. L., Montali R.J., Garber R.L., Kennedy M.L., Lehnhardt, J., Hildebrandt T., Schmitt D., **Alcendor D.J.**, and Hayward G.S. 1999. Novel endotheliotropic herpesviruses fatal for asian and african elephants. Science. 5405: 1171-1176.
10. Zong, JC, Ciufo DM, **Alcendor D. J**, Wan X, Nicholas J, Browning P, Rady P, Orenstein JM, Rabkin C, Su IJ, and GS Hayward. 1999. High level variability in the ORF-K1 membrane protein gene at the left end of the kaposi's sarcoma associated herpesvirus genome defines four major virus subtypes and multiple variants or clades in different human populations J. Virology. 73: 4156-4170.
11. Zong JC, Ciufo DM, **Alcendor D. J**, Browning P, Rady P, Orenstein JM, Su IJ, Rabkin C, and GS Hayward. 1999. Comparison of genetic variability at multiple loci across the genomes of major subgroups of kaposi's sarcoma-associated herpesvirus reveals evidence for recombination and for two distinct types of open reading frame K15 alleles at the right-hand ends. J. Virology. 73: 6646-6660.
12. Wu F.Y., Ahn J.H., **Alcendor D.J.**, Jang W.J., Hayward S.D., Hayward G.S., 2001. Origin-independent assembly of Kaposi's sarcoma-associated herpesvirus DNA replication compartments in transient cotransfection assays and association with the ORF-K8 protein and cellular PML. J. Virol. 75:1487-1506.

13. Arav-Boger, R., Zong, J.C., **Alcendor, D.J.**, RR.F., Pass. R. and Hayward G. S., 2002. Polymorphisms of the Cytomegalovirus (CMV)- encoded tumor necrosis factor alpha and beta chemokine receptors in congenital CMV disease. *J. Inf. Dis.*, 186:1057-64
14. Chiou C. J R, Poole L., Kim P.S., Ciufu D.M., Cannon J.S., Ap Rhys C.M., **Alcendor, D.J** Zong J.C., Ambinder R.F., and Hayward G. S., 2002. Patterns of gene expression and a transactivation function exhibited by the vGCR (ORF74) chemokine receptor protein of kaposi's sarcoma – associated herpesvirus *J. Virol.* 76:3421-3439.
15. Davison, A.J., Dolan, A., Akter, P., Addison, C., Dargan, **D.J., Alcendor**, D.J., McGeoch, D.J., and Hayward, G.S. (2003). The Human Cytomegalovirus Genome Revisited: Comparison with the Chimpanzee Cytomegalovirus Genome. *J Gen Virol.* 84: 17-28.
16. **D.J., Zong R.** Arav-Boger, **Alcendor DJ.**, and Hayward G.S. (2007). Reflections on the interpretations of heterogeneity and strain differences based on very limited PCR sequence data from Kaposi's sarcoma associated herpesvirus. *A review. J. Clin. Viro.* 40: pp 1-8.
17. Hildreth J.E.K, and **Alcendor DJ.** (2009). Mayo Clinic HIV eCurriculum Series: *In* Essentials of HIV Medicine, The Epidemiology of HIV/AIDS. Mayo Clinic Foundation for Medical Education and Research. p. 1-20.
18. **Alcendor DJ**, Zong JC, Dolan A, Davidson A, and Hayward GS. 2009. Patterns of evolutionary divergence in the rapidly evolving vCXC and vGPCR gene clusters in primate cytomegalovirus genomes. *Virology* 365: 21-32. PMID: PMC2846823.
19. **Alcendor DJ**, Knobel, S. (2010). Identifying dysregulated genes induced by Kaposi's sarcoma-associated herpesvirus (KSHV). *J. Vis. Exp* Sep 14; (43). pii: 2078. doi: 10.379/2078. Link: <http://www.jove.com/details.stp?id=2078>.
20. Hayward, G.S, **Alcendor DJ.**, and Boger RA (2010). *In* Viral Oncology: Basic Science and Clinical Applications (Book), The Role of KSHV in Pathogenesis of Kaposi's Sarcoma: Jeang KT and K. Kalili eds. Vers. 8. 377-407.
21. **Alcendor DJ**, Knobel S, Desai P, Zhu WQ, Vigil HE, and Hayward GS. 2010. KSHV downregulation of galectin-3 in kaposi's sarcoma. *Glycobiology*, 20(5):521-32. PMID: PMC2900887.
22. **Alcendor DJ**, Knobel S, Zhu WQ, Desai P, and Hayward GS. 2010. KSHV regulation of fibulins in Kaposi's sarcoma: Implications for tumorigenesis. *Infect Agent Cancer* 5(Suppl1):doi: 10.1186/1750-9378-5-S1-A50. PMID: PMC3002711.
23. **Alcendor DJ**, Knobel S Desai P. Zhu W. and Hayward GS. (2011). KSHV Regulation of Fibulin-2 in Kaposi's Sarcoma: Implications for tumorigenesis *Am. J. Pathol.* 179: 1443-1454. PMID: PMC3157165.
24. **Alcendor, D. J**, and Hayward G. S. 2011. *In* Springer Verlag Index of Viruses: "Cytomegalovirus (Betaherpesviridae)" 2nd edC. Tidona, G. Darai (eds.) The Springer Index of Viruses, pp. 1-12.
25. **Alcendor DJ**: 30 Years Later: HIV/AIDS in America, September Issue (2011) "Diverse Issues in Higher Education" pp. 16-18.<http://www.mc.vanderbilt.edu/documents/cfar/files/Alcendor%20Article%20Diverse%20Issues%20in%20Higher%20Education.pdf>

26. **Alcendor DJ**: AIDS Remains Public Health Challenge 30 Years After its Discovery, "Diverse Issues in Higher Education, by B. Denise Hawkins, September 30, 2011 [diverseeducation.com/article/16458](http://diverseeducation.com/article/16458)
27. Marrs C. N., Zhu W. Q, Sweet S., Chaudhry A., **Alcendor DJ**. (2012). Evidence for *Gardnerella Vaginalis* uptake and internalization by squamous vaginal epithelial cells: Implications for the pathogenesis of bacterial vaginosis *Microbes and Infect.* 14: 500-508. PMCID: PMC3691009
28. **Alcendor DJ**, Charest A. M, Knobel S.M., and Zhu WQ. (2012) Infection and upregulation of proinflammatory cytokines in brain vascular pericytes by human cytomegalovirus. *J. Neuroinflammation* 9:95.
29. **Alcendor DJ**, Block FE, Cliffl DE, Daniels JS, Ellacott KLJ, Goodwin CR, Hofmeister LJ, Li D, Markov DA, May JC, McCawley LJ, McLaughlin B, McLean JA, Niswender KD, Pensabene V, Seale KT, Sherrod SD, Sung H, Tabb DL, Webb DJ, Wikswow JP. (2013) Neurovascular Unit on a Chip: Implications for Translational Applications. *Stem Cell Res. Ther.* 4 (Suppl 1):S18.
30. Wilkerson I, Laban J., Mitchell J., Sheibani N. and **Alcendor DJ**. (2015) Retinal Pericytes and Cytomegalovirus Infectivity: Implications for both CMV Induced Retinopathy and Congenital Ocular Disease. *J. Neuroinflammation* 12:2.
31. **Alcendor DJ**. (2015). KSHV Dysregulation of the Extracellular Protein Tropoelastin in Kaposi's sarcoma, *J Oncobiomarkers.* 2(1): 7.
32. **Donald Alcendor** (2016) Evaluation of the Health Disparity in Bacterial Vaginosis: Implications for HIV-1 Acquisition in African American Women, *Am J Reprod Immunol.* 2016 76(2):99-107.
33. Roach, T and **Alcendor DJ**. 2017. Zika Virus Infection of Retinal Endothelial Cells: Implications for Viral Associated Congenital Ocular Disease *Journal of Neuroinflammation* (2017) 14:43.
34. **Donald J Alcendor**; Zika Virus Infection of the Human Glomerular Cells: Implications for Viral Reservoirs and Renal Pathogenesis. *J Infect Dis* 2017; 216 (2): 162-171. (*Alcendor, Journal Cover July 15<sup>th</sup> issue 2017*)
35. Aronoff DM, Correa H, Rogers LM, Arav-Boger R, **Alcendor DJ**. Placental pericytes and cytomegalovirus infectivity: Implications for HCMV placental pathology and congenital disease. *Am J Reprod Immunol.* 2017;e12728.
36. Popik W, Khatua A, Hildreth, JEK, Lee B and **Alcendor DJ**. 2018. Phosphorodiamidate Morpholino Targeting the 5' Untranslated Region of the ZIKV RNA Inhibits Virus Replication *Virology* 519 77-85.
37. Waldemar Popik, Hernan Correa, Atanu K. Khatua, David M. Aronoff, and **Donald J. Alcendor**. 2018. Mesangial Cells, Specialized Renal Pericytes, and Cytomegalovirus Infectivity: Implications for HCMV Pathology in the Glomerular Vascular Unit and Post-Transplant Renal Disease, *Journal of Transplantation Science* 4 (5) 1-12.
38. **Donald J. Alcendor**; Zika Virus and Kidney Disease. Review (doi: 10.1007/s00109-018-1692-z. [Epub ahead of print] August 24, 2018). *Journal of Molecular Medicine*

39. Waldemar Popik, Atanu K. Khatua, Noyna F. Fabre, James E.K. Hildreth and **Donald J. Alcendor**. BK Virus Lytic Replication in the Glomerular Vascular Unit of the Human Kidney: Implications for BK Virus Associated Nephropathy (BKVAN). *Journal of Molecular Medicine* (*in review in JMM, August 14, 2018*).
40. Waldemar Popik, Atanu K. Khatua, James E.K. Hildreth, Alvin M. George and **Donald J. Alcendor**. 2018. Phosphorodiamidate oligomer targeting the VP1 capsid protein of JC polyoma virus: Implications for therapy against drug associated progressive multifocal leukoencephalopathy. (*manuscript in preparation for Journal of Infectious Disease*)
41. BK Polyomavirus Virus Glomerular Tropism: Implications for virus reactivation after immunosuppression in renal transplant patients. Review: **Donald J. Alcendor**. (*in preparation for J. Molecular Medicine Fall 2018*)
42. Benjamin Lee, Sarah Coupland, Igoracyra Araujo, Hernan Correa, James E.K Hildreth, and **Donald J. Alcendor**. Zika virus Dissemination and Pathology in Human Ocular Tissue (*manuscript in preparation for J. Infectious Disease 2018*).
43. Article Collection, **Donald J. Alcendor**: Guest Editor: *Frontiers in Neuroscience*: Theme: Neurotropic Viruses and Neurodegenerative Diseases, Focus: JC Polyomavirus (JCV) the causative agent of Progressive multifocal leukoencephalopathy (PML) August 15, 2018. (*article collection in progress for Spring 2019*)

#### Conference Publications:

44. **Clarivate Analytics: Novel Therapeutic Targets for Ocular Disease** GTC Bio, 9<sup>th</sup> Annual Ocular Disease and Drug Discovery Conference, San Diego California, United States, March 20-21, 2017, **Reported by Donald J. Alcendor PhD**, Meharry Medical College and Vanderbilt University, Nashville, Tennessee, United States, [dalcendor@mmed.edu](mailto:dalcendor@mmed.edu) and [donald.j.alcendor@Vanderbilt.edu](mailto:donald.j.alcendor@Vanderbilt.edu).
45. **Clarivate Analytics: New Approaches to Antiviral Development** GTC Bio, 6<sup>th</sup> Annual Infectious Disease Summit Conference, Baltimore MD, United States, June 13-14, 2017, **Reported by Donald J. Alcendor PhD**, Meharry Medical College and Vanderbilt University, Nashville, Tennessee, United States, [dalcendor@mmed.edu](mailto:dalcendor@mmed.edu) and [donald.j.alcendor@Vanderbilt.edu](mailto:donald.j.alcendor@Vanderbilt.edu).

#### Published Blogs:

**VU Break Thru:** Vanderbilt Transformative Discoveries in Research “Zika Virus Infection and Ocular Disease in Children” March 9, 2017 by Donald J. Alcendor PhD, Associate, Meharry Medical College, Associate Adjunct Professor, Vanderbilt University

#### Patents 2016

Pending Provisional Patent: Submitted on December 15, 2016 Antiviral specific for Zika Virus Inhibition (DWK-1)

**Pending Non-Provisional Patent:** Submitted on August 17, 2017 Antiviral specific for Zika Virus Inhibition (DWK-2)

### Books Chapters

Alcendor, D. J, and Hayward G. S. 1999. In Encyclopedia of Virology: "Animal Cytomegalovirus (Herpesviridae)" 2nd ed. 357-363. (written and CD-ROM versions available).

Alcendor, D. J, and Hayward G. S. 2001. In Springer Verlag Index of Viruses: "Cytomegalovirus (Betaherpesviridae)" 1st ed. 156-162 (both written and online versions as well as CD-ROM available).

Alcendor, D. J, and Hayward G. S. 2006. In Encyclopedia of Virology: "Cytomegalovirus (Herpesviridae) Simian Cytomegaloviruses" 3rd ed. (written and CD-ROM versions available).

Alcendor, D. J, and Hayward G. S. 2008. In Encyclopedia of Virology: "Cytomegalovirus (Herpesviridae) Simian Cytomegaloviruses" 3rd ed. pp 634-643. (written and CD-ROM versions available).

Alcendor, D. J, and Hayward G. S. 2012. In Springer Verlag Index of Viruses: "Cytomegalovirus (Betaherpesviridae)" 2nd ed. pp 681-69.

### Published Abstracts

1. **DJ Alcendor**, WQ Zhu, P Desai and GS Hayward<sup>1</sup>. 2009. Suppression of galectin-3 in KSHV infected DMVEC cells and Kaposi's sarcoma: Implications for tumorigenesis. *Infectious Agents and Cancer* 4 (Suppl 2): doi: 10/1186/1750-9378-4-S2P5. Poster presentation at the 11<sup>th</sup> International Conference on Malignancies in AIDS and Other Acquired Immunodeficiencies (ICMAOI), Basic, Epidemiological, and Clinical Research.

2. **DJ Alcendor**, S Knobel, WQ, Zhu, P Desai and GS Hayward. 2010. KSHV regulation of fibulins in Kaposi's sarcoma: Implications for tumorigenesis. *Infectious Agents and Cancer* 5(Suppl 1):A50 <http://www.infectagentscancer.com/content/5/S1/A50>, Oral presentation at the 12<sup>th</sup> International Conference on Malignancies in AIDS and Other Acquired Immunodeficiencies (ICMAOI), Basic, Epidemiological, and Clinical Research.

3. Optimization of the Human Neurovascular Unit *In Vitro* Model (2013)  
Chaitali Ghosh, Nicola Marchi, John Wikswo, Michael Deblock, **Donald Alcendor** and Damir Janigro  
*Cleveland Clinic Foundation, Meharry Medical College, Vanderbilt University*

4. Hollow Fiber-based Neurovascular Unit on a Chip (2013)  
Virginia Pensabene, **Donald Alcendor**, Frank Block, Bryson Brewer, Mingjian Shi, Vanessa Allwardt, David Schaffer, Deyu Li, Donna Webb, Philip Samson, Damir Janigro, John Wikswo  
*Vanderbilt University, Cleveland Clinic Foundation, Meharry Medical College*

5. DARPA/NCATS Microphysiological Systems Investigators Meeting How to create a selective permeable blood-brain barrier (BBB) in a neurovascular unit-on-a-chip. Virginia Pensabene, **Donald Alcendor**, Damir Janigro, Hak Joon Sung, Vanessa Allwardt, David Schaffer, Philip Samson, Spencer Crowder, Chaitali Ghosh, Nicola Marchi, Michael Deblock, Kyle Kopin, John P Wikswo, *Cleveland Clinic Foundation, Meharry Medical College, Vanderbilt University* Arlington Virginia, July 24-25, 2013

[Standing HIV/AIDS Lecture for High School Teens from the greater Nashville Area 2009-present](#)



“What you need to Know about HIV/AIDS” presented bi-monthly in the Center for AIDS Health Disparities Conference room. Pearl Cone High School, Hillwood High School, Lebanon High School, Christian Science Academy, Mount Juliet High School, etc.

### **Invited Comments, Published Interviews, Press Releases and Editorials**

1. Featured comments from Meharry Medical College Investigator: Donald J. Alcendor PhD, HIV in African American Community, **World AIDS Day, FOX17 News**, December 1, 2017

2. Featured comments from Meharry Medical College Investigator: Donald J. Alcendor PhD, HIV/AIDS in the African American Community, **World AIDS Day, Essence Magazine**, December 1, 2017

3. Features Comments: Donald J. Alcendor PhD, **Biopharma Insight**: The Medicines Company's Vabomere for cUTI to be priced in same range as rival antibiotics; yearly increases unlikely – Experts August 22, 2017

4. Features Comments: Donald J. Alcendor PhD, **Biopharma Insight**: The Medicines Company's Vabomere split experts on dataset sufficiency for FDA approval in all CRE indications; strong uptake due to poor options July 31, 2017

5. Features Comments: Donald J. Alcendor PhD, **Biopharma Insight**: The Medicines Company's cUTI antibiotic Vabomere to see uptake mainly as second-line treatment after likely FDA approval – experts July 28, 2017

6. Features Comments: Donald J. Alcendor PhD, **Biopharma Insight**: Cidara's IV CD101 for candidiasis anticipated to have favourable efficacy/safety, topical failure an unlikely success spoiler – experts February 22, 2017

7. Features Comments: Donald J. Alcendor PhD, **Biopharma Insight**: “Cidara's Phase III candidiasis trial primed for approval; CD101 uptake triggers largely positive expert feedback” February 22, 2017

8. Features Comments: Donald J. Alcendor PhD, **Biopharma Insight**: “Achaogen is developing plazomicin – experts Biopharma Insight News, November 28, 2016

9. Features Comments: Donald J. Alcendor PhD, **HIV & Men-Nashville Medical News** “Stats show gender and race play key roles in spread of HIV. Experts call for more education. by Melanie Kilgore-Hill June 8, 2016

10. Features Comments: Donald J. Alcendor PhD, **Biopharma Insight** “Starpharma's Vivagel success in recurrent bacterial vaginosis could be muted by off-label generics but safety profile an edge – experts Biopharma Insight News, March 1, 2016

11. Features Comments: Donald J. Alcendor PhD, **Biopharma Insight** “Starpharma's recurrent bacterial vaginosis drug Vivagel could hit Phase III endpoint but draws skepticism due to trial design experts Biopharma Insight News, February 26, 2016

12. Featured comments: Donald J. Alcendor PhD, HEALTH “Scholars Program Should Expanded to Meharry” Tennessee Tribune, January 6, 2016, Nashville, Tennessee

13. Featured comments: Donald J. Alcendor PhD, “Symposium at Meharry Examines HIV Control.”



Tennessee Tribune, The National Newspaper Publishers' Association, and the Tennessee Tribune symposium: "HIV Infection in Communities of Color: Control and Prevention" December 11, 2015, SS Kresge Learning Research Center Compton Auditorium Meharry Medical College

14. Featured Comments from FDA Antiviral Drug Advisory Board Consultant Donald J. Alcendor PhD, Hepatitis C Resource Center "Panel recommends FDA approve sofosbuvir for hepatitis C" Healio: Infectious Disease News October 25, 2013

15. Comments from FDA Antiviral Drug Advisory Board Consultant Donald J. Alcendor PhD, Medscape Medical News "FDA Panel Recommends Approval of Simeprevir for Hepatitis C" by Chaya Winston, October 24, 2013

16. Featured Comments: Donald J. Alcendor PhD "Black Colleges and HIV: How Historically Black Colleges and Universities are trying to stop the spread of HIV on campus". HIV PLUS Magazine, written by Michelle Garcia, February 4, 2013

17. Featured Comments: Donald J. Alcendor PhD, Chattanooga Times Free Press: HIV/AIDS Series: "Men Having Sex with Men and Incarceration and the HIV Epidemic: "Chilling HIV Undercurrent, Some want virus (Bug Chasers)", written by Joan Garrett January 27, 2013.

18. Featured comments from Meharry Medical College Investigator: Donald J. Alcendor PhD, in "Drug Discovery News": "The microbrain", August 20, 2012

19. Featured comments from Meharry Medical College Investigator: Donald J. Alcendor PhD, Polymers Solution News Blog: Tiny Device Could Test Drug Effectiveness Better, by Dale McGeehon, August 14, 2012.

20. Featured comments from Meharry Medical College Investigator: Donald J. Alcendor PhD, in "USA TODAY": "Device to mimic brain to test drug therapies", August 12, 2012

21. Featured comments from Meharry Medical College Investigator: Donald J. Alcendor PhD, in the "Tennessean": "Vanderbilt team develops microbrain in quest for life-saving drugs," August 8, 2012

22. Featured comments from Meharry Medical College Investigator: Donald J. Alcendor PhD, in "NPR": "Nashville researchers get big grant to develop microbrain", July 30, 2012

23. Featured: Donald J. Alcendor PhD, Nashville Business Journal Article: "Tennessee's researchers wary of the budget ax," by Chris Silva, April 13, 2012

24. Featuring: Donald J. Alcendor PhD, Nashville Business Journal 2012 Health Care Hero Award in Research, Nashville Business Journal, by Eric Synder, March 26, 2012

25. Featured Comments: Donald J. Alcendor PhD, Washington Post: The Root, Health Disparities Series: "Research on Women and Health Disparities in HIV/AIDS" by Sheree Crute, February 10, 2012.

26. Featured Comments: Donald J. Alcendor PhD, United Methodist Church News: HIV/AIDS Series: "Meharry attacks HIV/AIDS in lab and Streets"UMC.org, written by Kathy L. Gilbert, February 7, 2012. <http://www.umc.org/site/apps/nlnet/content3.aspx?c=IwL4KnN1LtH&b=5259669&ct=11622181#.TzFF9IV8Gu8.email>.

27. Featured Comments: Donald J. Alcendor PhD, in New Journal & Guide “AIDS Research at Meharry College Offers Hope”, December 1, 2011 by Leonard E. Colvin
28. Featured Comments: Donald J. Alcendor PhD, in New Journal & Guide “Black Newspaper, HBCU’s Partner in HIV/AIDS, November 30, 2011
29. Featured Comments: Donald J. Alcendor PhD, in National Newspapers Publishers Association “NNPA Region 2 Conference Educates Publishers on Importance of HIV/AIDS Coverage”, November 28, 2011 by Kyle Yeldell
30. Featured: Donald J. Alcendor PhD, Florida Courier “Black press urged to focus on HIV/AIDS” December 1, 2011, in view of World AIDS Day.
31. Featured: Donald J. Alcendor PhD, Diverse Issues in Higher Education: “Black-owned Newspapers Join HBCU’s, Black Churches in HIV/AIDS Fight” by B. Denise Hawkins, November 21, 2011
32. Featured Speaker on Kaposi’s sarcoma : Donald J. Alcendor PhD, Nashville Health Council publication “Nashville Host Russian Health Care Delegation” November 7, 2011
33. Featured: Donald J. Alcendor PhD, National College.com 125 years of educational excellence: “Conference aims to bring awareness of increase in HIV/AIDS in communities of color” October 31, 2011
34. Featured: Donald J. Alcendor PhD, The Charlotte Post: The voice of the black community, “Initiative takes on HIV and AIDS” November 23, 2011
35. Featured: Donald J. Alcendor PhD, for The Tennessean “HIV surges among young Tennesseans” April 19, 2011. Link: <http://www.tennessean.com/article/20110419/NEWS07/304190025/HIV-surges-among-young-Tennesseans>
36. Donald J. Alcendor PhD, invited 600 word editorial in The Tennessean: “What should be done to reverse or slow the surge of HIV cases among young people in Tennessee” Editorial in the Tennessean in response to “The Tennessee Department of Health reported a 32% increase in new HIV infections in the state of Tennessee in people 15-24 years of age between 2005 and 2009. April 28, 2011. Link: <http://www.tennessean.com/article/20110428/OPINION/304280050/Teens-need-better-info-HIV?odyssey=mod|newswell|img|News|p>
37. Donald J. Alcendor PhD, invited phone interview with The Tennessean: “Hope and concerns abound as AIDS turns 30.” June 5, 2011 Link: <http://www.tennessean.com/article/20110605/NEWS/306050075/Hope-concern-abound-AIDS-turns-30>

### **Donald J. Alcendor Radio Interviews related to HIV/AIDS**

1. Featured comments from Meharry Medical College Investigator: Donald J. Alcendor PhD, in “National Public Radio (NPR)”: “Nashville researchers get big grant to develop microbrain”, July 30, 2012
2. Dr. Carol Show, Guest: Donald J. Alcendor: Segment 1: HIV/AIDS and Kaposi’s sarcoma, Segment 2: Community Outreach: Meharry’s HIV Center “HIV /AIDS Awareness Summit for Teens.” (Radio broadcast WNAH) September 13, 2011 from 3-4 PM. Search archives at <http://www.drCarolshow.com/>

3. Blog-Talk-Radio with Gary C. Booker, Atlanta GA, Interview with Donald J. Alcendor PhD, “Denialist and HIV/AIDS”, August 12, 2008.
4. Nashville Public Radio: Interview Donald J. Alcendor PhD, “HIV/AIDS in the African American Community” with Christine Buttorff NPR radio. August 2008.
5. Nashville Public Radio: Interview Donald J. Alcendor PhD, “Bacterial Vaginosis and Increased Risks for HIV-1 Acquisition” with Christine Buttorff NPR radio. August 2008.
6. Guest Speaker on “Talk Radio W93, Chattanooga” Research at Meharry Medical College involving HIV AIDS in the African American Community” May 1, 2007.

### **Community Activities related to HIV/AIDS**

**Invited Speaker:** Donald J. Alcendor, “Zika Ocular Disease” Nashville Federation’s Partnership2Gether Project for Visiting Israeli Physicians, Jewish Federation of Nashville and Middle Tennessee, Meharry Medical College, CAHDR Conference Room, Nashville, TN, May 5, 2017

**Meharry Spotlight** Featuring Research in the laboratory of Donald J. Alcendor PhD. Linkage between Bacterial vaginosis and HIV in African American women March 9, 2017

**Invited Speaker:** Donald J. Alcendor, “What you need to know about HIV/AIDS” Cane Ridge High School, Meharry Medical College, West Basic Science Building, November 29, 2016

**Invited Speaker:** Donald J. Alcendor “What you need to Know about HIV/AIDS” Nashville Barber & Style Academy, Madison, TN, January 20, 2016

**Invited Speaker:** Donald J. Alcendor, “HIV/AIDS Awareness” Mount Juliet Christian Science Academy, CAHDR Conference Room, March 12, 2015

**Invited Speaker:** Donald J. Alcendor, “HIV/AIDS Awareness” Hillwood High School CAHDR Conference Room, March 16, 2015

**Invited Speaker:** Health Awareness Initiative “HIV/AIDS Prevention and Awareness” Sponsored by Edmonson Chapel Church, Antioch TN, October 26, 2014.

**Invited Speaker** “What you need to Know about HIV/AIDS” presented HCOP Whites Creek Student, March, 2014, CAHDR

**Invited Speaker:** The 3<sup>rd</sup> Annual HIV/AIDS Awareness Summit for Teens, “What you need to know about HIV/AIDS” Sponsored by Project SAVED, Meharry Alumni Hall Nashville TN, June 27, 2013.

**Invited Speaker:** BSMD Program, “What you need to know about HIV/AIDS” Sponsored by Project SAVED, Meharry HIV Center Conference Room, Nashville TN, June 20, 2013.

**Invited Speaker:** The 1<sup>st</sup> Annual Women & Girls HIV/AIDS Community Awareness Day Program, The National Consortium of Black Women in Ministry, Claiborne Family of Faith Worship Center, Nashville TN, March 10, 2013.

**Invited Speaker:** Meharry Translational Research Center Community Advisory Board: Capacity Building for HIV Prevention, Meharry-Vanderbilt Alliance, conference Room B, Meharry Medical College, May 31, 2012.

**Invited Speaker:** Middle Tennessee Funeral Directors and Morticians Associations: What You Need to Know About HIV/AIDS, 3 CME Credits, Meharry Medical College, May 5, 2012.

**Invited Speaker:** A Frank Discussion on HIV/AIDS, Sponsor by Project SAVED: The Claiborne Family of Faith Worship Center: Focus on Youth, April 15, 2012, Nashville, TN.

**Invited Speaker:** HIV/AIDS/In service: Wilson Central High School, National Strategy on HIV/AIDS and What you need to know about HIV/AIDS, February 24, 2012, Lebanon, TN.

**Invited Speaker:** Jack & Jill Teen Lock-In: Sponsored by Meharry Medical College: "Project Save" "What Teen need to Know about HIV/AIDS, October 29, 2011 Nashville, TN.

The 1<sup>st</sup> HIV/AIDS Awareness Summit for Teens: Sponsored by Donald Alcendor and Walter Braden, **Keynote Speaker:** Donald Alcendor, Center for AIDS Health Disparities Research Conference Room, Meharry Medical College, June 25, 2011.

SEPA Health Messaging and Media Workshops: Sessions on HIV/AIDS information and research with **Featured Speaker:** Donald J. Alcendor, Center for AIDS health Disparities Research, Meharry Medical College, Nashville TN, August 2011.

**Invited Speaker:** Community Tours of the HIV Center and Presentations made to High schools (Mount Juliet HS, Hillwood HS and others as well as undergraduates from FISK and TSU Universities entitled: "What you need to know about HIV/AIDS". September 2008-present.

**Invited Speaker:** in breakout session: Metro Public Health Public Health Department, Nashville United to Stop TB in the African American Community." Nashville Rescue Mission, Nashville TN, February 22, 2009.

**Invited Speaker:** Community Tours of the HIV Center and Presentations made to undergraduates from FISK and TSU Universities entitled: "What you need to know about HIV/AIDS". July and August 2008.

**Invited Speaker:** Community presentation: Magnet Academy of Cultural Arts, "What you need to know about HIV" St. Landry Parish, Louisiana, December 9, 2008.

### **Invited participant**

National Center for Medical Education, Development and Research's Medical Education and Clinical Transformation: A Curriculum Pathway Forward, Communities of Practice (CoP) Conference, Sponsored by Meharry College, Marriott Nashville Vanderbilt Hotel May 31-June 1, 2018.

### **Invited Oral Presentations and Panels**

**Invited Speaker and Participant:** Donald J. Alcendor, Minority Pharma Faculty Research Leadership Summit, University of North Carolina at Chapel Hill (UNC). North Carolina, November 13-15, 2018.

**Invited Speaker:** Donald J. Alcendor, **Biotech Start-Up Pitch in the category of Life Sciences: iNClusive STEM Innovation Pitch Summit** "Development of Antiviral that Target Unique Unmet Clinical Need" University of North Carolina, at Chapel Hill, Rizzo Center, October 11, 2018.

**Invited Speaker:** Donald J. Alcendor, “MEDICAL GRAND ROUNDS IN PEDIATRICS” “An Update on Zika Virus Pathogenesis Research Here At Meharry: Implications For Next Steps” Metro General Hospital, Meharry Medical College and the Internal Medicine, LRC Building, Meharry Medical College, October 10, 2018

**Invited Speaker:** Donald J. Alcendor, MEDICAL GRAND ROUNDS IN OBGYN “An Update on Zika Virus Pathobiology in the Human Ocular and Renal Compartments” Metro General Hospital, Meharry Medical College and the Internal Medicine, LRC Building, Meharry Medical College, October 4, 2018

**Oral presentation: Donald J. Alcendor,** “JC Virus Reactivation in Iatrogenic Immunosuppressed Patients: Opportunity to Support an Unmet Clinical Need” to the Associate Medical Director Dr. Cherie Butts, PhD., of Late Stage Clinical Development at Biogen IDEC, Cambridge MA, HIV Center, Meharry Medical College, October 1, 2018.

**Invited Speaker:** Donald J. Alcendor, “MEDICAL GRAND ROUNDS IN PEDATRICS” “Zika virus and Congenital Disease: From Infection Models to Therapy” Metro General Hospital, Meharry Medical College and the Department of Pediatrics, LRC Building, Meharry Medical College, November 15, 2017

**Invited Speaker:** Donald J. Alcendor, “Zika virus Infection Models for Disease and Novel Therapies in Development” Vanderbilt Center for Translational Immunology and Infectious Diseases, Nashville TN September 29, 2017

**Invited Speaker:** Donald J. Alcendor, “MEDICAL GRAND ROUNDS IN INTERNAL MEDICINE” “Zika virus and Congenital Disease: From Infection Models to Therapy” Metro General Hospital, Meharry Medical College and the Internal Medicine, LRC Building, Meharry Medical College, September 13, 2017

**Invited Speaker:** Donald J. Alcendor “Zika virus Infection Models for Disease and Novel Therapies in Development” Hopkins Zika Center Presentation, The Johns Hopkins University Medical Center, Wilmer Eye Institute, Maumenee Conference Room, Baltimore, MD, August 24-25<sup>th</sup> , 2017.

**Invited Speaker:** Donald J. Alcendor, Bacterial Vaginosis and Increased Risk for Maternal and Neonatal Disease, Clinica Dental Lapaz, Morton’s Conference Room, August 9, 2017, Nashville, TN

**Invited Speaker:** Video Conference Presentation: Donald J. Alcendor, “Development of a Zika virus Antiviral: Indications for Ophthalmic and Systemic Therapy” OrbiMed Health Care Fund Management, San Francisco, CA, August 17, 2017.

**Invited Speaker:** Video Conference Presentation: Donald J. Alcendor, “Development of a Zika virus Antiviral: Indications for Ophthalmic and Systemic Therapy” Clarus: Clear Vision for Health Care Investing, San Francisco, CA, August 3, 2017.

**Invited Speaker and Panelist:** Donald J. Alcendor, “Zika virus Infection Models for Disease and Development of a Specific Antiviral with Implications for Therapy” Infectious Disease Summit, Global Technology Community (GTC), Baltimore, MD, July 13-14, 2017.

**Invited Speaker:** Donald J. Alcendor, Oral Presentation on Zika virus “38th Annual Internal Medicine Commencement Seminar, EMERGING INFECTIONS AND INFECTIOUS DISEASES IN THIS CLOSELY CONNECTED WORLD May 19, 2017.

**Invited Speaker:** Donald J. Alcendor, “Medicinal Antivirals” Université Cheikh Anta Diop, Dakar, Senegal, West Africa, April 14-21<sup>st</sup> 2017.

**Invited Speaker:** Donald J. Alcendor, “Development of a Zika virus Antiviral” Vanderbilt University Medical Center, Division of Infectious Disease Works in Progress, April 5, 2017.

**Invited Speaker:** Donald J. Alcendor, “MEDICAL GRAND ROUNDS” “Zika Virus Clinical Disease Update” Metro General Hospital, Meharry Medical College and the Department of Pediatrics, LRC Building, Meharry Medical College, March 22, 2017

**Invited Distinguish Speaker:** Donald J. Alcendor, Ocular Disease” 9<sup>th</sup> Annual Ocular Diseases Discovery Conference, Global Technology Community (GTC), San Diego, CA, March 20-21, 2017

**Conference Chairperson:** Donald J. Alcendor, *Funding Avenues and Trends*, Ocular Disease” 9<sup>th</sup> Annual Ocular Diseases Discovery Conference, Global Technology Community (GTC), San Diego, CA, March 20-21, 2017

**Conference Moderator:** Donald J. Alcendor, Panel Discussion: *Business Development and Partnering* Ocular Disease” 9<sup>th</sup> Annual Ocular Diseases Discovery Conference, Global Technology Community (GTC), San Diego, CA, March 20-21, 2017

**Invited Speaker:** Donald J. Alcendor, “MEDICAL GRAND ROUNDS” “Zika virus Infection Models for Disease and Novel Therapies in Development at Meharry” Metro General Hospital, Meharry Medical College and the Department of OB/GYN, LRC Building, March 2, 2017.

**Invited Speaker:** Donald J. Alcendor, “Zika Virus Infection of Retinal Endothelial Cells: Implications for Viral Associated Congenital Ocular Disease, Vanderbilt Eye Institute, Population Science Initiative Seminar Series, Vanderbilt University School of Medicine, February 13, 2017.

**Invited Speaker:** Donald J. Alcendor, “Zika Virus Infection Models: Implications for Viral Associated Pathogenesis, 7<sup>th</sup> Annual Primary Care Update, “The Mindfulness Revolution Workshop: Heal Your Patient, Heal Yourself”, S.S. Kresge Learning Resource Center, November 12, 2016

**Invited Speaker:** Donald J. Alcendor, “Zika Virus Infection of Retinal Endothelial Cells: Implications for Viral Associated Congenital Ocular Disease, Vanderbilt P3 Initiative: Prevent Adverse Pregnancy Outcomes and Prematurity, Department of Infectious Disease, Vanderbilt University Medical Center October 12, 2016.

**Invited Speaker:** Donald J. Alcendor, “Zika Virus Infection of Retinal Endothelial Cells: Implications for Viral Associated Congenital Ocular Disease, Vector-Borne Diseases Program Division of Communicable and Environmental Diseases and Emergency Preparedness, Tennessee Department of Health, September 28, 2016.

**Speaker:** Donald J. Alcendor, **Director: Zika Pathogenesis Working Group** “Zika Virus Infection of Retinal Endothelial Cells: Implications for Viral Associated Congenital Ocular Disease, Meharry Vanderbilt Alliance, September 14, 2016.

**Invited Speaker:** Donald J. Alcendor, “MEDICAL GRAND ROUNDS” “Empowering Women and Girls on What They Need to Know About HIV/AIDS,” WEBCAST, June 29, 2016, Southeast AIDS Education and Training Center (SE AETC) Vanderbilt University TN AIDS Education & Training Center (TN AETC)



Vanderbilt Comprehensive Care Clinic (VCCC) One Hundred Oaks Facility Conference Room, Vanderbilt University Medical Center

**Featured Expert Comments** on Bacterial Vaginosis: Donald J. Alcendor PhD, **PBS News Hours** “The Vaginal Microbiome and HIV Susceptibility.” by Heather Boerner, writer for the San Francisco Chronicle June 20, 2016

**Invited Speaker:** Donald J. Alcendor, “The Role of Pericytes in Cytomegalovirus Induced Vascular Disease” Pathology Residency Program, Vanderbilt University Medical Center, Department of Pathology, Microbiology & Immunology (PMI) invited by Dr. Robert D. Hoffman, MD, PhD, Vice Chair for Graduate Medical Education Director, Pathology Residency Program April 25, 2016, LH202/214.

**Invited Speaker:** Donald J. Alcendor, Nashville Metro General Hospital “MEDICAL GRAND ROUNDS” “Empowering Women and Girls on What They Need to Know About HIV/AIDS,” March 3, 2016, S.S. Kresge Learning Resources Center Lecture Hall I, Meharry Medical College

**Invited Speaker:** Donald J. Alcendor, Nashville Metro General Hospital “MEDICAL GRAND ROUNDS” Cytomegalovirus Infection of Vascular Pericytes: Implications for Clinical Disease in Pediatric Patients March 23, 2016, S.S. Kresge Learning Resources Center Lecture Hall, Meharry Medical College

**Invited Speaker:** Donald J. Alcendor, “Cytomegalovirus Infection of the Brain, Retinal and Placental Barriers: Implication for CMV Induced Congenital Disease,” January 26, 2016, Morehouse College, The Shirley E. Massey Executive Conference Center, Atlanta, Georgia.

**Invited Speaker:** Donald J. Alcendor “In Service” For Fort Campbell Medics In service was provided by Donald J. Alcendor PhD, Associate Professor, Meharry Medical College, Center for AIDS Health Disparities Research for Fort Campbell Medics from 101<sup>st</sup> Airborne Division (Air Assault) on “HIV/AIDS Pathology and Biomedical Interventions.” Fort Campbell Medics Conference Room, January 21, 2016.

**Invited Speaker:** Donald J. Alcendor “A common clinical condition in women could increase their risk for contracting HIV” The National Newspaper Publishers’ Association, and the Tennessee Tribune symposium: **HIV Infection in Communities of Color: Control and Prevention**, December 11, 2015, SS Kresge Learning Research Center Compton Auditorium Meharry Medical College

**Invited Speaker and Panelist,** Donald J. Alcendor, World AIDS Day, Students of the National Medical (SNMA), Meharry Medical College, Cal Tuner Auditorium, December 1, 2015

**Invited Speaker:** Donald J. Alcendor, Special Projects presentation on “Congenital Disease” for OB/GYN residents, Meharry Medical College and Metro General Hospital, West Wing, October 22, 2015

**Invited Panelist and Recruiter:** Donald J. Alcendor, The Dr. John H. Hopps Jr., Defense Research Scholars Program, Sponsored by the Department of Defense, October 15-16<sup>th</sup> Morehouse College, The Shirley E. Massey Executive Conference Center, Atlanta, Georgia.

**Invited Keynote Speaker:** Donald J. Alcendor. “DNA Analysis and Genetic Genealogy” Imperial Genealogy Society of St Landry Parish, Delta Grand Theater, October 10, 2015, St. Landry Parish, Louisiana

**Invited Speaker:** Donald J. Alcendor, Men’s Ministry Retreat: Men’s Health and Wellness, What you need to know about HIV/AIDS, Lake Gaston Resort, Gasburg, VA, August 28-30, 2015



**Invited Speaker:** Donald J. Alcendor Selected Presentation for NIMHD Site Visit: The Role of Pericytes in Cytomegalovirus Induced Vascular Disease: Implications for Therapy" Meharry MeTRC Grant, August 27-28, 2015

**Invited Speaker:** Donald J. Alcendor, "The Role of Pericytes in Cytomegalovirus Induced Vascular Disease: Implications for Therapy" Department of Neurology and Department of Microbiology and Immunology, Wayne State University, School of Medicine, Detroit, Michigan, July 28-29 2015.

**Invited Speaker:** Donald J. Alcendor, invited Grand Rounds, Metro General Hospital, Department of Obstetrics and Gynecology, "HIV and Women Health: Clinical Correlations" Cox Auditorium, Nashville Tennessee May 21, 2015.

**Invited Mentor and Panelist:** 2015 Dr. M. Alfred Haynes Mentoring and Advising Students for Success (MASS) Symposium, "Discussion of Organs on- a-Chip Technology: Implications for the Brain and Retina" University of Tennessee Health Science Center co-sponsored by Baylor College of Medicine/National Institute of General Medicine Sciences and the Intercultural Cancer Council at Baylor College of Medicine, Memphis, TN, March 26-27, 2015.

**Invited Speaker and Moderator:** Donald J. Alcendor, Oral Presentation, 7th Annual Ocular Diseases and Drug Discovery Conference, "Retinal Pericytes and Cytomegalovirus Infectivity: Implications for both CMV Induced Retinopathy and Congenital Ocular Disease" Westin Hotel, San Diego, California, March 19-20, 2015.

**Invited Speaker:** Donald J. Alcendor, invited Grand Rounds, Metro General Hospital, Department of Obstetrics and Gynecology, "Cytomegalovirus Infection of the Brain, Retinal and Placental Barriers: Implication for CMV Induced Congenital Disease," Ob/GYN conference Room, Nashville Tennessee September 11, 2014

**Invited Speaker:** Donald J. Alcendor, "Cytomegalovirus Infection of the Brain, Retinal and Placental Barriers: Implications for Congenital Disease, Vanderbilt P3 Initiative: Prevent Adverse Pregnancy Outcomes and Prematurity, Department of Infectious Disease, Vanderbilt University Medical Center May 22, 2014.

**Invited Speaker:** Donald J. Alcendor, "Cytomegalovirus Infection of the Brain, Retinal and Placental Barriers: Implications for Congenital Disease, Meharry MeTRC Program Seminar Series, Cox Auditorium, Meharry Medical College, May 28, 2014.

**Invited Speaker:** Donald J. Alcendor, invited Grand Rounds, Metro General Hospital, Department of Obstetrics and Gynecology, "Cytomegalovirus Infection of the Brain and Retinal Barriers: Implication for CMV Induced Congenital Disease," Ob/GYN conference Room, Nashville Tennessee April 17, 2014

**Invited Speaker and Panelist:** Donald J. Alcendor, "Brain and Retina on a Chip" Research Center of Health Disparities, Equity and the Exposome, sponsored Baylor College of Medicine Intercultural Cancer Council and The University of Tennessee Health Science Center, General Education Building, Memphis Tennessee, March 25-26<sup>th</sup>, 2014

**Invited presentation:** Donald J. Alcendor, invited by the Chairman, **Gordon Conference (Barriers of the CNS)** "Retinal Pericytes of the Inner Blood Retinal Barrier and Cytomegalovirus Infectivity: Implications for both CMV Induced Retinopathy and Congenital Ocular Disease", Colby-Sawyer College in New London, NH., June 15-20, 2014.

**Invited Speaker**, Donald J. Alcendor, **Oral Presentation from Exemplary Submitted Abstracts, 6<sup>th</sup> Annual Ocular Diseases and Drug Discovery Conference**, “Retinal Pericytes and Cytomegalovirus Infectivity: Implications for both CMV Induced Retinopathy and Congenital Ocular Disease”, Hyatt Regency Mission Bay, San Diego, California, March 20-21, 2014 **Note**: Invited for oral presentation in 2015 and received membership on the Advisory Board for the conference.

**Invited Speaker**: Donald J. Alcendor, Fort Campbell Medics, Medical Training, 101<sup>st</sup> Airborne Division, "HIV/AIDS Biomedical Interventions" Meharry Medical College, HIV Center Conference Room, February 22, 2014.

**Invited Speaker**: Donald J. Alcendor, HIV Health Disparities: Student National Medical Association (SNMA) HPREP (Health Professions Recruitment & Exposure Program) February 22, 2014, Meharry Medical College

**Invited Speaker**: Donald J. Alcendor, More Project: Morehouse Office of Health Professionals Alumni Mentoring Social, Vanderbilt Lowes Hotel, November 15, 2013

**Invited Speaker**: Vanderbilt Vascular Biology Short Term Training Program for graduate students “Cytomegalovirus Neuropathology, Vanderbilt University, Medical Center, September 26, 2013

**Invited Speaker**: Cleveland Clinic Foundation Lerner Research Institute: “Glial Muller Cells and Cytomegalovirus Infection: Implications for Ocular Disease” Donald J. Alcendor, Ph.D. (Associate Prof. of **Invited Speaker**: Donald J. Alcendor, Fort Campbell Medics, Deploying to Afghanistan, 101 Airborne Division, "HIV/AIDS Biomedical Interventions" Meharry Medical College, HIV Center Conference Room, August 14, 2013.

Microbiology & Immunology Meharry Medical College), Laboratory of Dr. Damir Janigro, Cleveland Clinic, Lerner Research Institute, Department of Cellular and Molecular Medicine, July 31, 2013,

**Invited Speaker**: Donald J. Alcendor, James Symposium, “HIV in Women Over 50” Department of Obstetrics and Gynecology, Meharry Medical College, April 11, 2013.

**Invited Speaker**: Donald J. Alcendor, State of Tennessee Department of Health, Tennessee Community Planning Group and “Project SAVED: CDC Funded Capacity Building Institute” Druid Hotel, Franklin, TN, April 11, 2013.

**Guest Speaker**: Donald J. Alcendor, Pediatric Infectious Disease Research Conference, “Pericytes and Cytomegalovirus Infectivity: Implications for CMV Induced Congenital Disease, Division of Pediatrics and Infectious Disease, Vanderbilt University Medical Center, March 8, 2013.

**Guest Speaker**: Donald J. Alcendor, College of Community Health Sciences Medical Library, Sponsored The University of Alabama School of Medicine, and Project SAVED both funded by CDC "HIV/AIDS Biomedical Interventions" University Medical Library, Tuscaloosa, Alabama, February 16, 2013.

**Invited Speaker**: Donald J. Alcendor, Fort Campbell Medics, 101 Airborne Division, "HIV/AIDS Biomedical Interventions" Meharry Medical HIV Center Conference Room, March 3, 2013.

**Guest Speaker:** Donald J. Alcendor, 2<sup>nd</sup> Annual Dr. Jacqueline Fleming Hampton National Black HIV/AIDS Awareness Day Lecture Series, Sponsored by Project SAVED funded by CDC "HIV/AIDS Biomedical Interventions" Meharry Medical College, February 11, 2013.

**Invited Speaker:** Donald J. Alcendor, Sponsored by Vanderbilt University (VIIBRE) Vanderbilt Institute for Integrative Biosystems Research and Education "Blood-Brain-Barrier model design and implementation logistics: Implications for deliverables to address project milestones." Biomedical Engineering, Molecular Physiology & Biophysics, and Physics & Astronomy, Vanderbilt University November 27, 2012

**Invited Speaker:** Cleveland Clinic Foundation Lerner Research Institute: "Retinal Pericytes and Cytomegalovirus Infectivity: Implications for both CMV Induced Retinopathy and Congenital Ocular Disease" Donald J. Alcendor, Ph.D. (Associate Prof. of Microbiology & Immunology Meharry Medical College), Cleveland Clinic, Lerner Research Institute Department of Cellular and Molecular Medicine November 14, 2012

**Invited Speaker:** Vanderbilt Cancer Biology: Science Hour "HCMV Infection & Dysregulation of Angiogenic Cytokines in CNS Pericytes: Implications for Patients with CMV Positive Brain Tumors" Donald J. Alcendor, Ph.D. (Associate Prof. of Microbiology & Immunology Meharry Medical College) November 7, 2012, 898 - J PRB, Vanderbilt University Medical Center, Department of Cancer Biology

**Invited Panelist:** 2012 Summit on the Science of Eliminating Health Disparities, Building a Healthier Society Integrating Science, Policy and Practice, The Role of Personalized Medicine in Addressing Health Disparities, Gaylord National Resort and Convention Center, National Harbor, Maryland, October 31<sup>st</sup> - November 3<sup>rd</sup>

**Invited Speaker:** Vanderbilt Eye Institute "HCMV Infection and Dysregulation of Angiogenic Cytokines in CNS Pericytes: Implications for Angiogenic Induced Retinopathy" Department of Ophthalmology Research, Vanderbilt Eye Institute, University School of Medicine, September 27, 2012.

**Invited Speaker:** 28<sup>th</sup> Annual International Black Women's Congress (IBWC) Conference, Hamilton Crowne Plaza Hotel, Washington, DC September 28-30, 2012.

**Invited Speaker:** Educating Teens about HIV/AIDS: Reclaiming Our Youth Through Community Connections, Strategies for Achieving Health Equity for Minority Boys and Young Men, University of Pittsburgh, University Club, August 28, 2012.

**Invited Speaker:** Meharry Masters of Health Science 1<sup>st</sup> Class: "What you need to know about HIV/AIDS for Pre-Professionals," Meharry Medical College, July 11, 2012.

**Invited Speaker:** Outreach Community Care Network: "HIV 101 Training", sponsored Loretta Jennings Executive Director, Daytona Beach, FL, June 7-9, 2012.

**Invited Speaker:** HCOP Ob/Gyn Mentorship Lecture: "Pericytes and Cytomegalovirus Infectivity: Implications for Neuropathology in Congenital Disease", Department of Obstetrics and Gynecology Meharry Medical College, July 6, 2012.

**Invited Speaker:** Prairie View A&M University: Pre-Professional Medical and Dental Students "HIV/AIDS 101 for Pre-Professional Students" Meharry Medical College, HIV Center Conference Room April 16, 2012.

**Invited Speaker:** “Research in Health Disparities,” Dr. M Alfred Haynes Research Training Institute for Social Equity (MAHRTISE), Meharry Medical College, Health Disparities Research Center of Excellence, May 13-25, 2012, Marriott Hotel, Nashville, TN

**Invited Speaker:** Project SAVED Community Capacity Building Institute, Sponsored by Project SAVED, Meharry Medical College, funded by The Center for Disease Control and Prevention, Centennial Ballroom, Holiday Inn Vanderbilt, Nashville TN, March 18-21, 2012.

**Invited Faculty Speaker:** Representing the Department of Cancer Biology, Vanderbilt IGP New Graduate Student Recruitment, Sponsored by Jim Patton, Franklin, TN, March 16, 2012

**Invited Speaker:** National Association of Black Journalist, Media Institute on Health: Health Policy & Health Inequities “Back to Black: Focusing on the U.S. HIV Epidemic at AIDS 2012”. Barbara Jordan Conference Center, The Kaiser Family Foundation, Washington, DC. March 29-31.

**Invited Speaker:** Meharry Translational Research Center (MeTRC) “A Frank Discussion About HIV/AIDS Awareness, Prevention, and Community Outreach”, Cox Auditorium, March 14, 2012.

**Invited Panelist:** 2012 National Women & Girls HIV/AIDS Awareness Day, Sponsored by Meharry Medical College Center for Women’s Health Research and the Center for AIDS Health Disparities Research, LRC Multipurpose Room, March 9, 2012.

**Invited keynote Speaker:** National Black HIV/AIDS Awareness Day, sponsored by Southern's HIV/AIDS Prevention Program and HIV/Alliance for Region Two, Southern University, Baton Rouge, Louisiana, Royal Cotillion Ballroom of the Smith-Brown Memorial Union, February 7, 2012

**Invited Speaker:** The Black College Fund-Lina H. McCord Summer Interns, Meharry Medical College, Center for AIDS Health Disparities Research Conference Room, Remarks on Health Science Studies and Disparities in HIV/AIDS, January 5, 2012.

**Invite Speaker:** Southeast Region Publishers and Meharry Medical College 2011 HIV/AIDS Seminar Donald J. Alcendor, “Understanding HIV/AIDS Testing and its Impact on Treatment” and “Caring for Communities of Color with HIV Infection”, Orlando, Florida, November 17-18, 2011. (Sponsored by MMC Faculty Development Office).

**Invite Speaker:** Open World Delegation from Russia: Senator Bill Frist’s Hope Through Healing Foundation, Invited Speaker: Donald J. Alcendor, Meharry Representative on HIV/AIDS Research, Hermitage Hotel, November 4, 2011, Nashville TN.

**Invite Speaker:** Science Hour Presentation, Vanderbilt University School of Medicine, “KSHV regulation of fibulins in Kaposi’s sarcoma: Implications for tumorigenesis Donald Alcendor<sup>1</sup>, Susan Knobel <sup>1</sup>, Wen Zhu <sup>1</sup>, Prashant Desai <sup>2</sup>, Gary Hayward <sup>2</sup>

<sup>1</sup>Meharry Medical College, School of Medicine, Center for AIDS Health Disparities Research and Department of Microbiology & Immunology, Nashville, Tennessee, USA,

<sup>2</sup>Department of Viral Oncology and Pharmacology, Molecular Virology Laboratories, Sidney-Kimmel Cancer Research Center, Johns Hopkins University School of Medicine, Baltimore, Maryland, USA. October 26, 2011.

**Invite Speaker:** Morehouse School of Medicine, Research Centers in Minority Institutions (RCMI), Department of Microbiology, Biochemistry and Immunology. KSHV Regulation of Fibulins in Kaposi’s

Sarcoma: Implications for the Role of Extracellular Matrix Proteins in Tumorigenesis. Louis W. Sullivan National Center for Primary Care 103/105, September 29, 2011.

**Invite Speaker:** MeTRC Seminar, Meharry Medical College, Invited Speaker: Genomic and Proteomic Signatures of Kaposi's Sarcoma, Donald Alcendor<sup>1</sup>, Susan Knobel <sup>1</sup>, Wen Zhu <sup>1</sup>, Prashant Desai <sup>2</sup>, Gary Hayward <sup>2</sup>

<sup>1</sup>Meharry Medical College, School of Medicine, Center for AIDS Health Disparities Research and Department of Microbiology & Immunology, Nashville, Tennessee, USA,

<sup>2</sup>Department of Viral Oncology and Pharmacology, Molecular Virology Laboratories, Sidney-Kimmel Cancer Research Center, Johns Hopkins University School of Medicine, Baltimore, Maryland, USA. April 13, 2011.

**Invited Panelist:** Selected as a Faculty Panelist at the Levi Watkins Jr. Medical Student Conference, Vanderbilt University Medical Center, February 19, 2011

**Invited speaker:** Building Interdisciplinary Research in Women's Health (BIRCWH Seminar Series) Invited speaker seminar series Vanderbilt University Medical Center, Department of Obstetrics and Gynecology, "KSHV regulation of fibulins in Kaposi's sarcoma: Implications for tumorigenesis." April 21, 2011.

**Invite Speaker:** International Congenital Cytomegalovirus Conference Paris, France, Infection and upregulation of proinflammatory cytokine in brain vascular pericytes by human cytomegalovirus \*Donald J. Alcendor, Ashley M. Charest, Susan M. Knobel and Wei Q. Zhu, Meharry Medical College, School of Medicine, Center for AIDS Health Disparities Research and the Department of Microbial Pathogenesis and Immunology, Paris Descartes University, September 23-25, 2010.

**Invited Speaker:** Meharry Clinical Translational Research Center (MeTRC) "Pericytes and Cytomegalovirus Neuropathology in Congenital Disease" May 26, 2010.

**Invited Speaker:** 12<sup>th</sup> International Conference on Malignancies in AIDS and Other Acquired Immunodeficiencies (ICMAOI) "*KSHV regulation of fibulins in Kaposi's sarcoma: Implications for tumorigenesis*" Lister Hill Center Auditorium, National Library of Medicine, NIH, April 26-27, 2010.

**Invited Speaker:** Presentations: Meharry Clinical Translational Research Center (MeTRC) BV/HIV project for CRP/ Big Science for NIH External Advisory Committee October 14, 2010

**Invite Speaker:** Building Interdisciplinary Research in Women's Health (BIRCWH Seminar Series) Invited speaker seminar series Vanderbilt University Medical Center, Department of Obstetrics and Gynecology, "Bacterial Vaginosis and Increased Risks for HIV-1 Acquisition." February 17, 2010.

**Invited Speaker:** Grand Rounds at Meharry Medical College "Kaposi's sarcoma: An AIDS Related Malignancy" Department of Preventive and Occupational Medicine, January 13, 2010

**Invited Speaker:** Grand Rounds: Preventive Medicine by Chief Resident Courtney J. Kihlberg MD, "Bacterial Vaginosis and Increased Risks for HIV-1 Acquisition." November 11, 2009.

**Invite Speaker:** Fisk University Pre-Health Careers Club: Viral Infections: "H1N1" Talley Brady Hall, October 14, 2009

**Invite Speaker:** Presented at the Vanderbilt Cancer Biology Science Hour, September 9, 2009

(Kaposi's Sarcoma).

**Invited Speaker:** Vanderbilt VICC Host-Tumor Interaction Retreat "KSHV and Galectin-3: Implications for Kaposi's sarcoma" Vanderbilt University, Department of Cancer Biology, May 18, 2009.

**Invited Speaker:** "HIV Disparities" Substance Abuse and Infectious Disease: Cross Training for Collaborative Systems of Prevention, Treatment and Care, Ryan White HIV/AIDS Program, Metro Public Health Department of Nashville, Vanderbilt, Marriott, Nashville, TN, March 30, 2009.

**Invited Speaker:** Meharry Faculty Development Warm Chat Series "Disparities Associated with Cancers of Infectious Origins" S.S. Kresge Learning Resource Conference Room, Meharry Medical College, March 31, 2009.

**Invited Speaker:** Vanderbilt Vascular Biology Retreat "Downregulation of Galectin-3 in Kaposi's Sarcoma: Implications for Tumorigenesis." 8<sup>th</sup> Annual Vascular Biology Retreat, Hatchland Hill Vineyard, Joelton, TN, October 3, 2008

**Invited Speaker:** Latino HIV/AIDS Strategy Meeting, "HIV/AIDS Research Summary", Hotel Preston, Nashville, TN, June 25, 2008.

**Invited Speaker:** The 11<sup>th</sup> International Workshop on Kaposi's Sarcoma Associated Herpesviruses (KSHV) and Related Agents, Birmingham, UK, July 22- July 26, 2008 KSHV Downregulation of Galectin-3 in Kaposi's Sarcoma, Donald Alcendor, J., Wen Q. Zhu, Prashant Desai, Hollie E., Vigil and Gary S. Hayward

**Invite Speaker:** "Kaposi's Sarcoma and the Pathogenesis of KSHV", Cancer Biology Science Hour Seminar Series, Department of Cancer Biology, Vanderbilt, University, May 21, 2008.

**Invite Speaker:** "Impact of HIV/AIDS in the African American Community" Freedom Temple Church of God in Christ, Featured attendees The Illinois Congressional Black Caucus and Clergy of the State of Illinois, Chicago, IL, November 28, 2007.

**Invite Speaker:** "Bacterial Vaginosis and Increased Risk for HIV Acquisition". Annual Biomedical Research Conference for Minority Students, Austin, Texas, November 7-10, 2007.

**Invite Speaker:** "Impact of HIV/AIDS in the African American Community" HIV AIDS Coalition, Mount Nebo Baptist Church, Nashville TN, October 28, 2007.

**Invite Speaker:** Vanderbilt Vascular Biology Retreat "KSHV Global Suppression of Vascular Endothelial Cell Biomarkers: Implications for Tumorigenesis". 7<sup>th</sup> Annual Vascular Biology Retreat, Hatchland Hill Vineyard, Joelton, TN, October 12, 2007.

**Invite Speaker:** Global-World HIV/AIDS Alliance, International AIDS Conference "Suppression of Endothelial Cells Biomarkers by KSHV in Kaposi's Sarcoma" Richards Bay, South Africa hosted by the University of Zululand, KwaZulu-Natal Province, South Africa, October 1-5, 2007

**Invited Lecturer:** Host Cell factors and HIV Pathogenesis Scientific Program Vanderbilt /Meharry CFAR: "KSHV Global Suppression of Microvascular Endothelial Cell Biomarkers: Implications for Immune Pathogenesis" August 16, 2007 CAHDR, Meharry Medical College



**Invite Speaker:** Vanderbilt-Ingram Cancer Research, Center Retreat on Recent Advances in Breast Cancer, Poster Presentation “Identifying Viral Genes Involved in KSHV Suppression of Endothelial Cell Biomarkers: Implications in Tumorigenesis” Vanderbilt University, May 4, 2007.

**Invite Speaker:** BlueCross BlueShield of Tennessee, In Service “The Impact of HIV in the African American Community”, Miller Building, Chattanooga, Tennessee, May 1, 2007.

**Invite Speaker:** 4<sup>th</sup> Annual Research Symposium in Obstetrics and Gynecology-Meharry Medical College, “An Overview of Health Disparities Research in HIV, Focusing on Bacterial Vaginosis and Increased Risk for HIV-1 Acquisition”, April 12, 2007.

**Invite Speaker:** Vanderbilt-Ingram Cancer Research Center Host Tumor Interactions Program, “KSHV Suppression of Endothelial Cell Biomarkers: Implications for Immune Pathogenesis and Tumor Progression”, Vanderbilt University, February 19, 2007

**Keynote Speaker:** BlueCross BlueShield of Tennessee, Black History Month Window Dedication Ceremony “HIV Awareness, Treatment and Prevention”, Miller Building, Chattanooga, Tennessee, February 15, 2007.

**Invite Speaker:** The 10<sup>th</sup> International Workshop on Kaposi’s Sarcoma Associated Herpesviruses and Related Agents, Portland, Oregon, August 1- 5, 2007 “Identifying Viral Genes Involved in KSHV Suppression of Microvascular Endothelial Cell Biomarkers: Implications for Immune Pathogenesis.”

**Invited Panelist:** Spokesman for the Meharry Center for Health Disparities Research in HIV, Panelist: PBS Special, Nashville Public Television, Round Table Discussion “HIV Research in Nashville” May 2006.

**Invited Panelist:** Meharry Health Waves (Fisk radio, WFSK 88.1 Nashville), “HIV AIDS in the African American Community” March 2006.

**Invite Speaker:** KSHV Dysregulation of Endothelial Cell Adhesion Molecules: Implications for Immune Pathogenesis and Tumorigenesis; Meharry Medical College, Nashville, TN, Dec. 16, 2005.

**Invite Speaker:** Asilomar Research Conference Center Evidence for Multiple Infections and Pathogenic Variants of the TNF alpha Receptor (UL144) and Chemokine (US28) Receptor Genes of HCMV in Neonatal Disease. Arav-Boger R., Willoughby, R.F., Pass, R.F., Zong, J.C., Jang, W.J., Alcendor D.J., and Hayward G.S., Monterey, California, May 19-25, 2001.

**Invite Speaker:** Comprehensive Transplant Research Center (CTC Lecture Series) Animal Cytomegalovirus: Implications for Disease after Transplantation, Johns Hopkins University School of Medicine, Baltimore, MD. Oct. 29, 1999.

**Invite Speaker:** Animal Health Science Symposium, Indianapolis, IN, “Herpesvirus Zoonosis” Sept. 1998.

**Invite Speaker:** Special Conference; Animal Cytomegalovirus Infection of Human tissue; “Cytomegalovirus Evolution” Food and Drug Administration, Center for Disease Control, National Institutes of Health, Rockville, MD. 1995. Panel Discussion Member.



**Invite Speaker:** Research Centers for Minority Institutions International AIDS Symposium, “A Focus on Minority and AIDS” Structure and function of the Rhesus Cytomegalovirus Immediate Early Gene; Sponsored by the National Institutes of Health; Atlanta, GA, Sept. 5-7, 1991.

**Invite Speaker:** West Coast Regional Herpesvirus Workshop, Asilomar Research Conference Center; Monterey, California, Characterization of the Rhesus Cytomegalovirus Immediate Early Gene; April 27-28, 1990.

**Invite Speaker:** Symposium on Immunodeficiency Viruses , UC Davis, Davis California, Interactions of Rhesus Cytomegalovirus and Simian Immunodeficiency Virus: A model for AIDS and Herpesviruses; July 20, 1990.

**Invite Speaker:** 15<sup>th</sup> International Herpesvirus Workshop, Georgetown University, Washington D.C; Interactions of Rhesus Cytomegalovirus and Simian Immunodeficiency Virus; A model for AIDS and Herpesviruses; Aug 2-8, 1990.

**Invite Speaker:** Ninth Annual Biomedical Research Symposium, UC Davis Medical Center; Interactions of Rhesus Cytomegalovirus and Simian Immunodeficiency Virus; A model for AIDS and Herpesviruses; Oct. 23, 1990.

**Invite Speaker:** Symposium on Nonhuman Primate Models for AIDS, Westin Canal Place, New Orleans LA.; Interactions of Rhesus Cytomegalovirus and Simian Immunodeficiency virus (SIV) in Co-infected Macaques; Nov.28- Dec. 1, 1990.

### **Poster Presentations**

**Donald J. Alcendor Presenter: Vanderbilt Symposium on Infection and Immunology** co-hosted by the Division of Adult Infectious Diseases in the Department of Medicine, the Division of Pediatric Infectious Diseases in the Department of Pediatrics, the Division of Rheumatology & Immunology, Department of Medicine, and the Division of Host-Pathogen Interactions in the Department of Pathology, Microbiology & Immunology, The Vanderbilt Infection and Immunology Symposium April 5th, 2018 in the Student Life Center at Vanderbilt University  
“Modified Dendrimer Targeting the translation initiation complex of ZIKV Inhibits Virus Replication: Implications for Therapy” Waldemar Popik, Atanu Khatua, James E.K. Hildreth, Benjamin Lee and Donald J. Alcendor

**Donald J. Alcendor Presenter:** Donald J. Alcendor, “Modified Dendrimer Based Antiviral Inhibits Zika Virus Replication: Implications for Therapy” Waldemar Popik, Atanu Khatua and Donald J. Alcendor Southeastern Vision Conference, Sponsored by Vanderbilt, Emory University, and the University of Alabama, Vanderbilt Marriott, Nashville, TN, October 2-3<sup>rd</sup>, 2017.

**Donald J. Alcendor Presenter:** Donald J. Alcendor, “Zika virus Infection Models for Disease and Development of a Specific Antiviral with Implications for Therapy” Infectious Disease Summit, Global Technology Community (GTC), Baltimore, MD, July 13-14, 2017.

**Donald J. Alcendor Presenter: Vanderbilt Symposium on Infection and Immunology** co-hosted by the Division of Adult Infectious Diseases in the Department of Medicine, the Division of Pediatric Infectious Diseases in the Department of Pediatrics, the Division of Rheumatology & Immunology, Department of Medicine, and the Division of Host-Pathogen Interactions in the Department of Pathology, Microbiology & Immunology, April 10th, 2017 in the Student Life Center at Vanderbilt University  
“Modified Dendrimer Based Antiviral Inhibits Zika Virus Replication: Implications for Therapy” Waldemar Popik, Atanu Khatua and Donald J. Alcendor

**Donald J. Alcendor Presenter: Vanderbilt Symposium on Infection and Immunology** co-hosted by the Division of Adult Infectious Diseases in the Department of Medicine, the Division of Pediatric Infectious Diseases in the Department of Pediatrics, the Division of Rheumatology & Immunology, Department of Medicine, and the Division of Host-Pathogen Interactions in the Department of Pathology, Microbiology & Immunology, April 10th, 2017 in the Student Life Center at Vanderbilt University

“Zika Virus Infection of Cellular Components of the Blood Retinal Barriers: Implications for Viral Associated Congenital Ocular Disease”  
Roach and Donald J. Alcendor

**Donald J. Alcendor Presenter: Vanderbilt Symposium on Infection and Immunology** co-hosted by the Division of Adult Infectious Diseases in the Department of Medicine, the Division of Pediatric Infectious Diseases in the Department of Pediatrics, the Division of Rheumatology & Immunology, Department of Medicine, and the Division of Host-Pathogen Interactions in the Department of Pathology, Microbiology & Immunology, April 10th, 2017 in the Student Life Center at Vanderbilt University

Zika Virus Infection of the Human Glomerular Cells: Implications for Viral Reservoirs and Renal Pathogenesis  
Donald J. Alcendor

**Donald J. Alcendor Presenter:** Selected Presentation to **The 2<sup>nd</sup> Annual Meeting of the Human Placenta Project: on Placental Structure and Function in Real Time, Incorporating Omics and Imaging into the HPP**, Natcher Conference Center (Building 45) on the NIH campus, Bethesda, Maryland, April 27-28, 2015

**Donald J. Alcendor Presenter: Vanderbilt Symposium on Infection and Immunology** co-hosted by the Division of Adult Infectious Diseases in the Department of Medicine, the Division of Pediatric Infectious Diseases in the Department of Pediatrics, the Division of Rheumatology & Immunology, Department of Medicine, and the Division of Host-Pathogen Interactions in the Department of Pathology, Microbiology & Immunology, April 10th, 2015 in the Student Life Center at Vanderbilt University **“The Role of Pericytes in Placental Vascular Disease”**

L. Tetz<sup>a</sup>, L.M. Rogers<sup>a</sup>, D.M. Aronoff<sup>a,b,c</sup>, R. Arav-Boger<sup>d</sup>, **D.J. Alcendor**<sup>c\*</sup> <sup>a</sup>Division of Infectious Diseases, Department of Medicine, and <sup>b</sup>Department of Pathology, Microbiology and Immunology, Vanderbilt University Medical Center, Nashville, Tennessee 37232, USA, <sup>c</sup>Department of Microbiology and Immunology, Center for AIDS Health Disparities Research, Meharry Medical College, School of Medicine, 1005 Dr. D.B. Todd Jr. Blvd., Nashville, Tennessee 37208, USA, <sup>d</sup>Department of Pediatrics, Johns Hopkins University School of Medicine, Baltimore, Maryland 21287, USA

**Donald J. Alcendor Presenter: Vanderbilt Symposium on Infection and Immunology** co-hosted by the Division of Adult Infectious Diseases in the Department of Medicine, the Division of Pediatric Infectious Diseases in the Department of Pediatrics, the Division of Rheumatology & Immunology, Department of Medicine, and the Division of Host-Pathogen Interactions in the Department of Pathology, Microbiology & Immunology, April 10th, 2015 in the Student Life Center at Vanderbilt University **“Retinal pericytes and cytomegalovirus infectivity: implications for CMV induced retinopathy and congenital ocular disease”**

**Donald J. Alcendor**<sup>1\*</sup> Irene Wilkerson<sup>1</sup>, Johnathan Mitchell<sup>1</sup>, Nader Sheibani<sup>2</sup> and <sup>3</sup>John P. Wikswo  
<sup>1</sup>Meharry Medical College, School of Medicine, Center for AIDS Health Disparities Research, 1005 Dr. DB Todd Jr Blvd, Nashville, TN 37208-3599, USA.

<sup>2</sup>Department of Ophthalmology and Visual Sciences, University of Wisconsin School of Medicine and Public Health, Madison, WI 53792, USA, <sup>3</sup>Vanderbilt University, VU Station B 351807, Nashville, TN 37235-1807, USA. Department of Biomedical Engineering, Vanderbilt University, VU Station B 351631, Nashville, TN 37235-1631, USA. <sup>4</sup>Department of Chemistry, Vanderbilt University, VU Station B 351822, Nashville, TN 37235-1822, USA.

2014 National Institute on Minority Health and Health Disparities Grantees' Conference, "Transdisciplinary Collaborations: Evolving Dimensions of US and Global Health Equity," Blood Retinal barrier and Cytomegalovirus Congenital Disease" National Harbor, Maryland, December 1–3, 2014

Vanderbilt University Medical Center, Vascular Biology Retreat "Cytomegalovirus Infection of Retinal Pericytes: CMV Induced Retinopathy and Congenital Ocular Disease." Donald Alcendor, Irene Wilkerson Joshua Laban, Johnathan Mitchell, and John Wikswo. Funded by NIH NHLBI 5T32HL007751-19, Hatchland Hill Vineyard, Joelton, TN, October 24, 2014

Vanderbilt University Medical Center, Vascular Biology Retreat "Cytomegalovirus Infection of the Brain and Retinal Barriers: Implications for CNS Disease." Donald Alcendor, Johnathan Mitchell, Irene Wilkerson and John Wikswo. Funded by NIH NHLBI 5T32HL007751-19, Hatchland Hill Vineyard, Joelton, TN, September 20, 2013

2013 United States Conference on AIDS, "Racial Disparities in Bacterial Vaginosis and Associated Risks for HIV-1 Acquisition" Donald J. Alcendor presenting, Hyatt Regency, New Orleans, LA, September 8-11, 2013

DARPA/NCATS Microphysiological Systems Investigators Meeting **How to create a selective permeable blood-brain barrier (BBB) in a neurovascular unit-on-a-chip**. Virginia Pensabene, Donald Alcendor, Damir Janigro, Hak Joon Sung, Vanessa Allwardt, David Schaffer, Philip Samson, Spencer Crowder, Chaitali Ghosh, Nicola Marchi, Michael Deblock, Kyle Kopin, John P Wikswo, *Cleveland Clinic Foundation, Meharry Medical College, Vanderbilt University* Arlington Virginia, July 24-25, 2013

DARPA/NCATS Microphysiological Systems Investigators Meeting: Humans on-a-Chip, "**Optimization of the Human Neurovascular Unit *In Vitro* Model**" Chaitali Ghosh, Nicola Marchi, John Wikswo, Michael Deblock, Donald Alcendor and Damir Janigro *Cleveland Clinic Foundation, Meharry Medical College, Vanderbilt University*, Arlington Virginia, January 29-February 1, 2013.

Vanderbilt Ingram Cancer Center/Meharry Medical College/ U54 Cancer Partnership, In collaboration with Tennessee State University 12<sup>th</sup> Annual Cancer Partnership Retreat "Interface Between Cancer and the Immune System", "KSHV Regulation of the Extracellular Matrix Protein Tropoelastin in Kaposi's Sarcoma and an Animal Model for Disease", Meharry Medical College, West Basic Science Building, Nashville, TN., January 19, 2013.

12<sup>th</sup> Annual Host-Tumor Interactions/Cancer Biology Joint Retreat, Department of Cancer Biology **KSHV Regulation of the Extracellular Matrix Protein Tropoelastin in Kaposi's Sarcoma and an Animal Model for Disease** Donald J. Alcendor, Meharry Medical College, Scarritt-Bennett Center, Vanderbilt University, November 30, 2012.

Vanderbilt Vascular Biology Retreat "Training Grant in Mechanisms of Vascular Disease" Funded by NIH NHLBI 5T32HL007751-18 "**Retinal Pericytes and Cytomegalovirus Infectivity: Implications for both CMV Induced Retinopathy and Congenital Ocular Disease.**"

Donald J. Alcendor<sup>1\*</sup>, Irene Wilkerson<sup>1</sup>, Susan M. Knobel<sup>1</sup>, Nader Sheibani<sup>2</sup>.

<sup>1</sup>Department of Microbiology and Immunology, Center for AIDS Health Disparities

Research, Meharry Medical College, School of Medicine, 1005 Dr. D.B. Todd Jr. Blvd., Nashville, Tennessee 37208-3599 USA. 2Department of Ophthalmology and Visual Sciences, University of Wisconsin School of Medicine and Public Health, Madison, WI 53792-4673, USA. Irene Wilkerson was supported by the Vanderbilt Vascular Biology Short-Term Training Program for Minority Students October 19, 2012, Hachland Hill Vineyard, Joelton, TN

Vanderbilt Vascular Biology Retreat “Training Grant in Mechanisms of Vascular Disease”

**"The effects of BV bacteria on vaginal epithelium HIV infectivity: Implications for mechanisms linked to health disparities in HIV/AIDS."**

Mack Hall, III<sup>1</sup>, Susan M. Knobel<sup>1</sup>, Ahsen R. Chaudhry<sup>2</sup>, Donald J. Alcendor<sup>1</sup>

<sup>1</sup>Meharry Medical College, School of Medicine, Center for AIDS Health Disparities Research, Nashville, TN 37208, USA. <sup>2</sup>Meharry Medical College, School of Medicine, Department of Obstetrics and Gynecology, Nashville, TN 37208, USA, Vanderbilt University Medical Center, VASCULAR BIOLOGY RETREAT “Training Grant in Mechanisms of Vascular Disease” Funded by NIH NHLBI 5T32HL007751-18, October 19, 2012, Hachland Hill Vineyard, Joelton, TN

The Interdisciplinary Graduate Program (IGP) in Cancer Biology, poster session for welcoming new students: “KSHV Regulation of the Extracellular Matrix Protein Tropoelastin in Kaposi’s sarcoma and an Animal Model for KS Disease” poster presented in Department of Cancer Biology, Vanderbilt University Medical Center, August 24, 2012.

13<sup>th</sup> RCMI International Symposium on Health Disparities, San Juan, Puerto Rico, December 10-13, 2012, KSHV REGULATION OF EXTRACELLULAR MATRIX PROTEINS IN KAPOSIS SARCOMA: IMPLICATIONS FOR TUMORIGENESIS”

Donald J. Alcendor, and Susan M. Knobel

Meharry Medical College, School of Medicine, Center for AIDS Health Disparities Research and the Department of Microbiology and Immunology, Hubbard Hospital 1005 Dr. D.B. Todd Jr. Blvd., Nashville, Tennessee 37208-3599 USA. San Juan Puerto Rico,

13<sup>th</sup> RCMI International Symposium on Health Disparities, San Juan, Puerto Rico, December 10-13, 2012, VAGINAL EPITHELIUM EXTRACELLULAR MATRIX EXPRESSION PROFILES FROM WOMEN OF DIVERSE ETHNICITY WITH PELVIC ORGAN PROLAPSE: IMPLICATIONS FOR RACIAL DISPARITIES IN POP

Ahsen R. Chaudhry<sup>1</sup>, Wassem Khoder<sup>1</sup> Alyssa Small<sup>2</sup> Susan M. Knobel<sup>2</sup> Donald J. Alcendor<sup>1,2</sup>

<sup>1</sup> Meharry Medical College, School of Medicine, Department Obstetrics and Gynecology,

<sup>2</sup> Meharry Medical College, School of Medicine, Center for AIDS Health Disparities Research and the Department of Microbiology and Immunology, Hubbard Hospital 1005 Dr. D.B. Todd Jr. Blvd., Nashville, Tennessee 37208-3599 USA.

AUGS 33<sup>rd</sup> Annual Scientific meeting (American Urogynecological Society): Vaginal epithelium extra-cellular matrix expression profiles from women of diverse ethnicity with pelvic organ prolapse: Implications for racial Disparities in POP, A. Chaudhry, A. Small, S. M. Knobel, W. Khoder, G. M. Ladson, G. A. Richard-Davis, and D. J. Alcendor, OB/GYN & Microbiology and Immunology, Meharry Medical College Chicago, IL, October 3-6, 2012.

Vanderbilt Ingram Cancer Center/Meharry Medical College/U54 Cancer Partnership, In collaboration with Tennessee State University 11<sup>th</sup> Annual Retreat “Personalized Medicine, *KSHV Regulation of the*

*Extracellular Matrix Protein Tropoelastin in Kaposi's Sarcoma and an Animal Model for KS Disease*, Meharry Medical College, Harold D. West Basic Science Building, Nashville, TN., January 21, 2012.

11<sup>th</sup> Annual Host-Tumor Interactions Program & Department of Cancer Biology Retreat  
Vanderbilt University School of Medicine, "KSHV Regulation of Fibulins in Kaposi's sarcoma: Implications for the Role of Extracellular Matrix Proteins in Tumorigenesis" Cheekwood Botanical Gardens, Nashville, TN, November 18, 2011.

Poster: presented at the Vanderbilt University Medical Center, Department of Cancer Biology incoming new graduate students: KSHV regulation of fibulins in Kaposi's sarcoma: Implications for tumorigenesis Donald Alcendor<sup>1</sup>, Susan Knobel<sup>1</sup>, Wen Zhu<sup>1</sup>, Prashant Desai<sup>2</sup>, Gary Hayward<sup>2</sup> August 19, 2011.

10th Annual Research Symposium in Obstetrics and Gynecology, Meharry Medical College. "KSHV regulation of fibulins in Kaposi's sarcoma: Implications for tumorigenesis"

DJ Alcendor S Knobel, WQ, Zhu, Center for AIDS Health Disparities Research and Department of Microbiology and Immunology, Department of Obstetrics & Gynecology, Meharry Medical College, Nashville, TN 37208, Funded by the Vanderbilt CTSA and the Meharry MeTRC to D.J.A.  
April 14, 2011. 1<sup>st</sup> Place Honors

Vanderbilt Ingram Cancer Center/Meharry Medical College/ U54 Cancer Partnership, In collaboration with Tennessee State University 10<sup>th</sup> Annual Retreat "New Insights into Colorectal Cancer, *KSHV Downregulation of Extracellular Matrix Proteins in Kaposi's sarcoma: Implications for Tumorigenesis*, Meharry Medical College, West Basic Science Building, Nashville, TN., January 15, 2011.

7th International Symposium on Recent Advances in Environmental Health Research "Benzo (a) Pyrene Perturbs Ovarian function by Suppressing E2 Synthesis", Anthony E. Archibong<sup>1,2</sup>, Aramandla Ramesh<sup>3</sup>, Deok-Soo Son<sup>3</sup>, Mohammed S. Niaz<sup>3</sup> and Donald Alcendor<sup>4</sup>, Departments of <sup>1</sup>Physiology and <sup>2</sup>Obstetrics and Gynecology, <sup>3</sup>Biochemistry and Cancer Biology, <sup>4</sup>Microbiology and Center for AIDS Health Disparity Research, Meharry Marriott Hotel, Jackson, MS, USA September 12-15, 2010

14<sup>th</sup> Annual International Center for AIDS Research (CFAR) Conference. "KSHV regulation of Fibulins in Kaposi's sarcoma: Implications for role of the Extracellular Matrix", sponsored by the UCLA AIDS Institute and the University of Alabama CFAR, Los Angeles, CA., November 3-4, 2010.

10<sup>th</sup> RCMI International Symposium on Health Disparities, "Bridging the Gap between Disparity and Equity: New Minds — New Methods" Nashville, TN December 9-12, 2010

*Racial disparities in bacterial vaginosis and its influence on HIV-1 acquisition*, DJ Alcendor, PhD; CN Marrs, BS; SM Knobel, BS; SD Sweet, MD; QW Zhu, MD; AR Chaudhry, MD. Meharry Medical College (DJA, CNM, SDS, WQZ AC).

10<sup>th</sup> RCMI International Symposium on Health Disparities, "Bridging the Gap between Disparity and Equity: New Minds — New Methods" Nashville, TN December 9-12, 2010

*Infection and upregulation of proinflammatory cytokines in brain vascular pericytes by human cytomegalovirus* DJ Alcendor PhD; AM Charest, HS; SM Knobel, BS; QW Zhu, MD. Meharry Medical College (DJA, AMC, SMK, QWZ).

10<sup>th</sup> RCMI International Symposium on Health Disparities, "Bridging the Gap between Disparity and Equity: New Minds — New Methods" Nashville, TN December 9-12, 2010

*KSHV regulation of fibulin-2 in Kaposi's sarcoma: Implications for tumorigenesis* DJ Alcendor, PhD; SM Knobel, BS; WQ Zhu, MD, Meharry Medical College (DJA, SMK, WQZ).

10<sup>th</sup> RCMI International Symposium on Health Disparities, “Bridging the Gap between Disparity and Equity: New Minds-New Methods” Nashville, TN December 9-12, 2010  
*Pericytes and HIV neuropathology*, DJ Alcendor, PhD; HE Vigil, BS; WQ Zhu, MD, Meharry Medical College (DJA, HEV, WQZ).

American Association for Cancer Research, 2010 AACR Conference on the Science of Cancer Health Disparities: Miami, Florida October 2-3, 2010., “KSHV regulation of fibulins in Kaposi’s sarcoma: Implications for tumorigenesis”. Donald J. Alcendor, Susan Knobel and Wen Qin Zhu.

8th Annual Research Symposium in Obstetrics and Gynecology, Meharry Medical College. Racial Disparities in Bacterial Vaginosis and its Influence on HIV-1 Acquisition D.J. Alcendor C.N. Marrs, A.R. Chaudhry, S.D. Sweet, and W.Q. Zhu Center for AIDS Health Disparities Research and Department of Microbiology and Immunology, Department of Obstetrics & Gynecology, Meharry Medical College, Nashville, TN 37208, Funded by the Vanderbilt CTSA and the Meharry MeTRC to D.J.A. April 15, 2010. 1<sup>st</sup> Place Honors

8th Annual Research Symposium in Obstetrics and Gynecology, Meharry Medical College. “Pericytes and HIV Neuropathology”. Donald J. Alcendor, Hollie Vigil, Wen Qin Zhu. 1<sup>st</sup> Place Honors in poster contest, Funded by the Vanderbilt Meharry CFAR and BlueCross BlueShield of Tennessee Health Foundation to D.J.A. April 15, 2010.

Meharry Medical College/Vanderbilt Ingram Cancer Center U54 Cancer Partnership, In collaboration with Tennessee State University 8<sup>th</sup> Annual Retreat “Lung Cancer: Insights & Therapeutics Progress, *KSHV* Suppression of galectin-3 and fibulin-2 in Kaposi’s sarcoma: Implications for Tumorigenesis and Therapeutic potential, Meharry Medical College, West Basic Science Building, Nashville, TN., January 23, 2010.

The Interdisciplinary Graduate Program (IGP) in Cancer Biology, poster session for welcoming new students: Kaposi’s Sarcoma poster presented in Department of Cancer Biology, Vanderbilt University Medical Center, January 15, 2010.

American Association for Cancer Research, 2009 AACR Conference on the Science of Cancer Health Disparities: Poster Session A, Session category Biomarkers, Carefree Arizona, February 3-6, 2009. Galectin-3 as a biomaker in Kaposi’s sarcoma. Donald J. Alcendor, Hollie E. Vigil and Wen Qin Zhu.

The 11<sup>th</sup> International Conference on Malignancies in AIDS and Other Acquired Immunodeficiencies (ICMAOI) Lister Hill Auditorium, NIH Campus, Bethesda, MD  
Suppression of Galectin-3 in KSHV Infected DMVEC Cells and Kaposi’s sarcoma: Implications for Tumorigenesis Donald Alcendor, J., Wen Q. Zhu, Prashant Desai, Hollie E., Vigil and Gary S. Hayward, Center for AIDS Health Disparities Research and Department of Biomedical Sciences, Meharry Medical College, Nashville, TN 37208 and Johns Hopkins University, Department of Oncology and Pharmacology, Baltimore, MD April 2009.

Meharry Medical College/ Vanderbilt Ingram Cancer Center U54 Cancer Partnership, In collaboration with Tennessee State University 8<sup>th</sup> Annual Retreat “Lung Cancer: Insights & Therapeutics Progress, “KSHV suppression of galectin-3 and fibulin-2 in Kaposi’s sarcoma: Implications for Tumorigenesis and therapeutic potential”, Meharry Medical College, West Basic Science Building, Rm. 1206, January 24, 2009, Nashville, TN.

Alcendor, D.J., Knobel SM and Zhu W.Q. 2009. KSHV Downregulation Galectin-3 and Fibulin-2 in Kaposi’s Sarcoma: Implications for Tumorigenesis. Vanderbilt-Ingram Cancer Center (VICC) Retreat “Mechanisms of Malignancy, Tumor Angiogenesis, and Metastasis May 5, 2009.



HIV Prevention Conference “Racial Disparities in Bacterial Vaginosis and its Influence on HIV-1 Acquisition D.J. Alcendor C.N. Marrs, S.D. Sweet, and W.Q. Zhu. Center for AIDS Health Disparities Research and Department of Microbial Pathogenesis and Immune Response, Meharry Medical College, Nashville, TN 37208, August 23-26, 2009, Atlanta Marriott, Atlanta, GA.

HIV Prevention Conference “Pericytes and HIV Neuropathology”  
D.J. Alcendor, H.E. Vigil, W.Q. Zhu. Center for AIDS Health Disparities Research and Department of Microbial Pathogenesis & Immune Response, Meharry Medical College, Nashville, TN 3720 August 23-26, 2009, Atlanta Marriott, Atlanta, GA.

Congenital Cytomegalovirus Conference, CDC, Atlanta, Georgia, November 5-7, 2008. HCMV Altered Gene Expression in the Placenta and Brain: Implications for Congenital Disease. Donald J. Alcendor, Charmaine O'Brien and Wen Qin Zhu.

The 11<sup>th</sup> International Conference on Malignancies in AIDS and Other Acquired Immunodeficiencies October 6-7, 2008, Lister Hill Auditorium, NIH Campus, Bethesda, MD Suppression of Galectin-3 in KSHV Infected DMVEC Cells and Kaposi's sarcoma: Implications for Tumorigenesis. Donald J. Alcendor, Wen Q. Zhu, Prashant Desai, Hollie E., Vigil and Gary S. Hayward.

6<sup>th</sup> Annual Conference of the Specialized Neuroscience Research Programs (SNRP) New York, NY, August 19-22, 2008. Brain Vascular Pericytes and HIV Neuropathology. D.J. Alcendor, H.E. Vigil, W.Q. Zhu. 1<sup>st</sup> place honors in poster contest.

Poster: Vanderbilt Vascular Biology Retreat, “Downregulation of Galectin-3 in Kaposi's sarcoma: Implications for Tumorigenesis.” 8<sup>th</sup> Annual Vascular Biology Retreat, Hatchland Hill Vineyard, Joelton, TN, October 3, 2008.

Tennessee Public Health Association Conference: Preparing the Best Game Plan: Tackling Behaviors in Health Improvement, Cools Springs Marriott, Franklin, Tennessee, August 27-29, 2008. Donald J. Alcendor: “Human Cytomegalovirus Dissemination in Placenta and Brain”

National Women's Health Week Symposium sponsored by the Center for Women Health Research, Meharry Medical College. Presenter: Donald J. Alcendor. May 11-17, 2008.

5<sup>th</sup> Annual Research Symposium in Obstetrics and Gynecology, Meharry Medical College.  
“Understanding Mechanisms Involved in Human Cytomegalovirus Dissemination in Placenta and Brain: Implications for Congenital Disease in Children” Donald J. Alcendor, Charmaine O'Brien and Wen Qin Zhu. Funded in part by the BlueCross BlueShield of Tennessee Health Foundation. The project received 1<sup>st</sup> Place Honors.

“KSHV Global Suppression of Vascular Endothelial Cell Biomarkers: Implications for Tumorigenesis”. Donald Alcendor, J., Wen Qin Zhu and Gary Hayward S. American Association for Cancer Research, AACR Conference on Science of Cancer Health Disparities, Atlanta, Georgia, November 27 December 1, 2007.

The Vanderbilt Vascular Biology Retreat “KSHV Global Suppression of Vascular Endothelial Cell Biomarkers: Implications for Tumorigenesis”. 7<sup>th</sup> Annual Vascular Biology Retreat, Vanderbilt University, Joelton, TN, October 12, 2007.



Meharry Medical College Poster Competition Identification of Dysregulated Genes in the Brain after HIV-1 Infection: Implications for Therapy in HIV-associated Dementia. Melanie R. Duncan and Donald J. Alcendor, 1<sup>st</sup> Place Honors, April 12, 2007.

Vanderbilt-Ingram Retreat: Recent Advances in Breast Cancer Research  
Identifying Viral Genes Involved in KSHV Suppression of Microvascular Endothelial Cell Biomarkers: Implications for Tumorigenesis Charmaine C. O'Brien and Donald J. Alcendor, May 4, 2007.

### **Donald J. Alcendor PhD., Graduate, Rotation and Summer Students Activities:**

Science Day Poster Presentations, Meharry Medical College October 17, 2007 Graduate Students, Christy C. Marrs, Melanie R. Duncan, and Charmaine O'Brien  
Bacterial Vaginosis and Increase Risk for HIV-1 Acquisition, Christy N. Marrs, Wen Qin Zhu, Stephanie D. Sweet, and Donald J. Alcendor, Center for AIDS Health Disparities Research and Department of Microbial Pathogenesis and Immune Responses, Meharry Medical College, Nashville, TN 37208.

The 17<sup>th</sup> ISSTD (International Society for STD Research, 10<sup>th</sup> IUSTI World Congress, International Union Against Sexually Transmitted Infections Seattle, Washington, USA, July 29-August 1, 2007  
\*(Student presentation) Bacterial Vaginosis and Increase Risk for HIV-1 Acquisition, Christy N. Marrs, Wen Qin Zhu, Stephanie D. Sweet, and Donald J. Alcendor, Center for AIDS Health Disparities Research and Department of Microbial Pathogenesis and Immune Responses, Meharry Medical College, Nashville, TN 37208.

Identification of Dysregulated Genes in the Brain after HIV Infection: Implications for Therapy in HIV-associated Dementia, Melanie R. Duncan and Donald J. Alcendor, Center for AIDS Health Disparities Research and Department of Microbial Pathogenesis and Immune Responses, Meharry Medical College, Nashville, TN 37208.

The Role of Pericytes in CMV Dissemination in the Brain: Implications for CMV induced Congenital Disease Charmaine C. O'Brien and Donald J. Alcendor, Center for AIDS Health Disparities Research and Department of Microbial Pathogenesis and Immune Responses, Meharry Medical College, Nashville, TN 37208.

### **Medical Student Oral Presentations:**

Student Research Day, **Joshua Laban** and Donald J. Alcendor: Medical Student Presentation "Retina Pericytes and Cytomegalovirus Infectivity: Implications for Both CMV Induced Retinopathy and Ocular Disease" Ballroom of the Turner Family Center for Student Education, Meharry Medical College, March 18, 2015.

Building Interdisciplinary Research in Women's Health (BIRCWH Seminar Series) **Invited Speaker Alyssa Small**, Vanderbilt University Medical Center, Department of OB/GYN, "Vaginal Epithelium Expression Signatures from Women of Diverse Ethnicity with Pelvic Organ Prolapse: Implications for Racial Disparities in POP." Vanderbilt University Medical Center, OB/GYN Board Room, March 6, 2012, Alyssa Small is a 4<sup>th</sup> year medical student at Meharry who was awarded the Vanderbilt Medical Scholar award for 2011, Mentor: Dr. Donald J. Alcendor.

### **Medical Student Poster Presentations:**

#### **Small, Alyssa**

National Clinical and Translational Sciences Predoctoral Programs Meeting  
TL1 Training Program Institution: Meharry Medical College; Vanderbilt School of Medicine

CTSA Name: Vanderbilt Institute for Clinical & Translational Research (VICTR)

Area of Research: Obstetrics and Gynecology; Molecular Biology

Mentors: Donald Alcendor; Kevin Osteen

**Racial Differences in Vaginal Epithelium Gene Expression in Pelvic Organ Prolapse**

Small AN; Chaudhry AR; Knobel SM; Khoder W; Ladson G; Davis GR; Alcendor DJ

Mayo Clinic Campus, Rochester, MN, May 6-8th, 2012.

**Summer Student Poster and Oral Presentations:**

Poster Presentations

Poster Presentation: Vanderbilt Summer Science Academy, Poster Symposium, VSSA Student: Noyna Fabre and Mentor: Donald J. Alcendor, Title: Assessment of BK Virus Replication in Cellular Components of the Human Glomerular Vascular Unit: Implications for BK Virus Associated Nephropathy (BKVAN).

Annual Biomedical Research Conference for Minority Students (ABRCMS) Tracoyia Roach and Donald J. Alcendor. "Zika Virus Infection of Retinal Endothelial Cells: Implications for Viral Associated Congenital Ocular Disease". November 9-12 at the Tampa Convention Center in Tampa, FL.

Tracoyia Roach and Donald J. Alcendor. "Zika Virus Infection of Retinal Endothelial Cells: Implications for Viral Associated Congenital Ocular Disease". Vanderbilt Summer Science Academy, Robinson Breezeway, Vanderbilt University Medical Center, August 4, 2016

Johnathan Mitchell, Poster Presentation: Summer Student: Vanderbilt Summer Academy Research Symposium, "Glial Muller Cells and Cytomegalovirus Infectivity: [Implications for Ocular Diseases](#)" Vanderbilt University, August 1, 2013.

Summer Student Oral Presentations Johnathan Mitchell, Summer Student: Vanderbilt Summer Academy Research Symposium, "Glial Muller Cells and Cytomegalovirus Infectivity: Implications for Ocular Diseases" Vanderbilt University, August 2, 2013.

Poster Presentations

Irene Wilkerson, Summer Student: Vanderbilt Summer Academy Research Symposium, "Retinal Pericytes and Cytomegalovirus Infectivity" Vanderbilt University, August 2, 2012.

Summer Student Oral Presentations

Irene Wilkerson, Summer Student: Meharry-Vanderbilt Alliance, Short Term Training Grant Program, "Retinal Pericytes and Cytomegalovirus Infectivity" Vanderbilt University, August 3, 2012.

[Hollie Vigil, Summer Student: Vanderbilt Summer Academy Research Symposium, "The Role of Pericytes in HIV Infection and Dissemination in the Brain: Implications for Neuropathogenesis" Vanderbilt University, August 2, 2007.](#)

[Summer Student Oral Presentations](#)

[Hollie Vigil, Summer Student: Meharry Vanderbilt Alliance, Short Term Training Grant Program, "The Role of Pericytes in HIV Infection and Dissemination in the Brain: Implications for Neuropathogenesis" Vanderbilt University, August 3, 2007.](#)

[Poster Presentations](#)

Hollie Vigil, Summer Student: Meharry Vanderbilt Alliance, Short Term Training Grant Program, "The Role of Pericytes in HIV Infection and Dissemination in the Brain: Implications for Neuropathogenesis: Update" Vanderbilt University, August 3, 2008.