**David J. Vigerust, MS., Ph. D**

**5125 Overton Road**

**Nashville, Tennessee 37220**

**Email: VigerustPhD@gmail.com**

**615-504-4369**

***Education:***

**Post-doctorate:** Vanderbilt University School of Medicine, 2007-2009.

Department of Pediatrics, Program in Vaccine Sciences. Nashville, Tennessee 37232.

St. Jude Children’s Research Hospital, 2004-2007. Department of Infectious Diseases. Memphis, Tennessee 38105.

**Doctorate:** Vanderbilt University School of Medicine. Nashville, Tennessee 37212

Degree- Ph. D (Cellular and Molecular Pathology), 2004.

**Masters:** Texas Tech University. Lubbock, Texas 79409

Degree- M.S. (Microbiology/ Immunology), 1999.

Arizona State University. Tempe, AZ 85001

Degree- M.S. (Biomedical Diagnostics), 2020.

**Undergraduate:** University of Texas at El Paso. El Paso, TX 79925

Degree- B.S. (Biology), 1992.

***Certification/ Licenses:***

MB, (ASCP)- Pending (December 2019)

TS, (ASCP)- Pending (December 2019)

HCLD, (AAB)- Pending (October 2021)

***Industry Experience:***

***Volente Healthcare LLC., Director of Clinical Affairs.***

Volente is a healthcare company that is leading the way in infectious disease diagnostics with innovative and highly sensitive platforms to bring personalized medicine to infectious disease management and treatment.

* Design, development and implementation of assays for infectious disease management and treatment.
* Physician education and scientific support.
* Development of grant proposals to support future products and processes.
* Patent filings for core intellectual property and processes.
* Coordination and implementation of clinical studies and trials.
* Strategy and implementation of the business plan and model for the United States and abroad.

***Digital Tech Initiative, LLC., Partner and Founding Member.***

The Digital Tech Initiative is a multidisciplinary team of professionals interested in the education, diagnosis and treatment of digital dependency.

* Responsible the biological portion of the program related to genetic contributions to digital dependency.
* Coordination of clinical studies related to genomic testing.

***Strategic Biosciences, LLC., CEO and Founder.***

Strategic Biosciences develops innovative solutions to biological problems. This includes consulting, design and development of assays and devices.

***MyGenetx Clinical Laboratory., Chief Science Officer.***

MyGenetx is a dynamic healthcare company working with physicians and their practice to provide proactive patient outreach, disease management reporting, and business initiatives in designated health services. MyGenetx mission is to empower providers and their patients in the management of chronic disease and in so doing generate synergies regarding access, compliance, and cost. MyGenetx provides personalized and precision testing to inform clinicians about disease therapies. As CSO I am involved in:

* Served as Corporate Secretary and Compliance Officer
* Oversight of laboratory operations.
* Experience in Analytical and Clinical Chemistry
* Design, development and implementation of assays for diabetes, cardiovascular disease.
* Strategy and implementation of the business plan and model for the United States and abroad.

***Premier Biomedical Inc., VP of Technology, Scientific Advisory Board.***

Premier Biomedical is a biopharmaceutical and device company developing therapeutics for several debilitating and often fatal illness. These include Traumatic Brain Injury (TBI), Multiple Sclerosis (MS), Muscular Dystrophy, Clinical Depression, Alzheimer’s Disease, Blood Sepsis, Atherosclerosis and Cancer. As a member of the scientific advisory board I have been involved in:

* Regulatory affairs of obtaining FDA approval, to include protocol, investigators brochures and consent form.
* Coordinating and implementing a clinical trial to compare our drug against the current standard of care.
* Design and prototyping of a medical device for the elimination of pathophysiologic molecules associated with disease.
* Strategy and implementation of the business plan and model for the United States and abroad.
* Scientific assistance on the development of a monoclonal antibody for the treatment of melanoma, breast and lung cancer.
* Grant proposal development to the Department of Defense and Foundations to support development of future products and processes.
* Patent filings for core technologies.

***Professional Experience:***

2016-Present : University of Maryland Eastern Shore, Clinical Asst. Professor

2015-Present : Vanderbilt University School of Medicine, Adjunct Asst. Professor.

2013-Present : Strategic Biosciences., LLC., Founder and Chief Scientific Officer.

2019-2019 : Volente Healthcare., Director of Clinical Affairs

2014-2019: MyGenetx Clinical Laboratories., Chief Scientific Officer.

2014-2016: Premier Biomedical Inc., SAB, Vice President of Technology.

2003-2014: Nashville Community College, Faculty in Math and Natural Sciences.

2010-2013: Vanderbilt University School of Medicine, Research Asst Professor.

2009-2013: Department of Veteran Affairs Research Service, Health Research Scientist. 2007-2009: Vanderbilt University School of Medicine, Postdoc Fellow.

2004-2007: St. Jude Children’s Research Hospital, Postdoc Research Associate.

1999-2004: Vanderbilt University, Research Assistantship.

1997-1999: Texas Tech University, Microbiology/ Immunology Teaching Assistant.

1996-1997: St. Mary's Hospital, I.V. Pharmacy Technician.

1994-1996: University of New Mexico Cancer Center, Oncology Research Technician.

***Teaching Experience:***

2016-Present : Preceptor for University of MD Eastern Shore School of Pharmacy

2007-2014: Professor in Math and Science - Nashville State Community College

Biol 2230- Microbiology

Biol 1215- Principles of Nutrition Biol 1010- Introduction to Biology I

Biol 1110- General Biology I

Biol 2020- Anatomy and Physiology II

2003-2004: Adjunct Instructor in Microbiology- Nashville State Community College

Biol 2230- Microbiology

2002-2002: Teaching Assistant in Medical Microbiology- Vanderbilt University SOM

Microbiology and Immunology 564-5020

1999-1999: Teaching Assistant in Immunology- Texas Tech University

Biol 4301- Immunology

1997-1998: Teaching Assistant in Microbiology- Texas Tech University

Mbiol 3400- Microbiology

***Academic Appointments:***

2016- Present: Clinical Assistant Professor, University of Maryland Eastern Shore, School of Pharmacy.

2015-Present: Adjunct Assistant Professor, Vanderbilt University Department of Neurological Surgery.

2013-2015- Instructor, Nashville State Community College, Department of Math and Science.

2010-2013- Research Asst. Professor, Vanderbilt University, Department of Pathology, Microbiology and Immunology.

2009-2013- Health Research Scientist, U.S. Department of Veterans Affairs.

***Professional Associations/ Memberships:***

Society for Experimental Biology and Medicine

American Association for Cancer Research

American Association of Bioanalysts

American Society for Clinical Pathologists

International Association for Identification

American Society for Microbiology

American Association of Immunologists

American Society for Cell Biology.

***Awards and Honors:***

2016-TEDx Nashville Speaker

2015- FASEB MARC Faculty Mentor Travel Award to ABRCMS 2013- FASEB MARC Faculty Mentor Travel Award to ABRCMS.

2012- ASCB MAC Junior Faculty Career Development Workshop Travel Award. 2012- Keystone Symposia Early Career Investigator Travel Award.

2012- Mirus Bio Research Award.

2009- Department of Veteran Affairs Career Development Award. 2008- FASEB Postdoctoral Development and Enrichment Award. 2007- NIAID Diversity Supplement Fellowship.

2007- FASEB/MARC Travel Award to SACNAS National Meeting. 2007- FASEB/MARC Grantsmanship Travel Award.

2004-2006 FASEB/ MARC Peer Mentor Program Award. 2003 ASCB/MAC Minority Award.

2nd Place MAC Poster Competition.

2003 AAI Minority Scientist Award.

2002/ 2003 Vanderbilt University Graduate School Travel Award.

2002 Recipient of the Elizabeth Glaser Pediatric AIDS Foundation Student Internship Award.

2000-2003 NHLBI Vascular Biology Training Grant Trainee.

***Advisory Boards:***

Electronic Caregiver LLC, Health Support and Digital monitoring to cut costs, improve care and extend functional independence with innovative outcomes management.

Las Cruces, NM

### MicroDrop LLC, Physician-directed wellness platform designed to expand health awareness through convenient home-based health testing. Microdrop strived to empower individuals with access to their health information to take corrective action to improve their quality of life.

Houston, TX

***Current Research:***

HonorHealth, John C. Lincoln Medical Center- 07/1/2019 – 06/31/2021. An open label pilot study of Electronic Caregiver® and association with outcomes following ground level fall-related injuries in both care recipients and caregivers. Investigator(s) Alecia Mangrum MD., David Vigerust MS., Ph.D (Co-PI).

Volente DX Multicenter- 3/1/2019 - 2/28/2021. Prospective Randomized Study of Wound Healing Acceleration in Skin and Soft Tissue Wounds with Molecular Diagnostics and Pharmacist Collaboration (The WoundMDX trial) Investigator(s) Matthew Regulski DPM., Marcus Gitterle MD., David Vigerust MS., Ph.D.

Johns Hopkins University- 08/1/2018 - 9/30/2023 (Funded) EsophaCap for the Detection of Early Esophageal Adenocarcinoma. NIDDK RO1, Award #DK118250.

Investigator(s): Stephen Meltzer MD., David Vigerust MS., Ph.D.

***Completed Research:***

Western Kentucky University- 12/01/2015 -11/30/2016 (approved)

Pilot Study on the Role of Genomic Mapping to Define Genes Associated with Sleep Disorder in Children with Autism.

Investigator(s): Neile Chumbler Ph.D., Scott Lyons, Ph.D., Mary Lloyd Moore, Ph.D., Rick Rogers, Ph.D., David Vigerust, Ph.D.

St. Thomas Heart – 04/01/2016 - 12/31/2016 (approved)

Prospective Study on the Role of Pharmacogenomics on Readmission following Percutaneous Coronary Intervention.

Investigator(s): Dante Graves, MD., Karen Graves, MD., David Vigerust Ph.D.

University of Kansas- 6/01/2018 - 12/31/2019

Genomic Mapping and Temporal-Spatial Three-Dimensional Imaging of Brain Cancer. Investigator(s): Eduardo Rosa-Molinar, Ph.D., David Vigerust Ph.D.

***Patents:***

Vigerust, David. A Method for the Treatment of Ebola Hemorrhagic Fever by Multiplex Antigen Capture. U.S. Provisional Patent Application. Filed August 7, 2016. Patent Pending.

Vigerust, David. A Method for Determination of Oxidative Stress. U.S. Provisional Patent Application 62/207018. Filed August 21, 2015. Patent Pending.

Vigerust, David and Felder, Mitchell. A Novel Treatment Method for Cockayne Syndrome. U.S. Provisional Patent Application 62/206733. Filed August 18, 2015. Patent Pending.

Felder, Mitchell and Vigerust David. A Method for the Treatment of Duchenne Muscular Dystrophy. U.S. Provisional Patent Application 62/144875. Filed April 8, 2015. Patent Pending.

***Thesis/ Dissertations:***

Doctoral Dissertation: Characterization of Post-translational Regulation of the Macrophage Mannose Receptor by HIV-1 Nef. 2004. Vanderbilt University School of Medicine, Department of Pathology. Nashville TN.

Master’s Thesis: Peroxidase Mediated Oxygenation and Microbicidal Activity. 1999. Texas Tech University, Department of Biological Sciences, Lubbock TX.

***Peer-Reviewed Publications:***

1. **Vigerust DJ**. Cooperativity of Mannose Receptor and Toll-Like Receptor-2 in

Staphylococcus aureus Internalization. Traffic. Pending Submission

1. **Vigerust DJ**. Treatment and Cure of Disease via Removal of Pathophysiological Molecules: A Novel Method. Medical Hypotheses. Pending Submission.
2. Vick S, **Vigerust DJ**. Influenza Non-Structural Protein Mediates Enhanced MHC Class I Surface Expression. Journal of Virology. Pending Submission
3. **Vigerust DJ**. Implications of Haptoglobin Genotype in Infectious Disease and Immunobiology. Immunobiology. Pending Submission
4. Wade J, **Vigerust DJ**. Estimating the Cost Savings and Clinical Risk Reduction of Pharmacogenomic Testing in a Health Network. Journal of Medical Economics. Pending Submission
5. Cheeley MK, Hester AM, **Vigerust DJ**, Jacobsen T. Examination of Genetics in the Development of Familial Hypercholesterolemia. Journal of Clinical Lipidology. Pending Submission
6. Doneen AL, Bale BF, **Vigerust DJ**, Leimgruber PP. Arteriology: Redefinition of CV risk assessment – from a binary approach to a ternary classification to improve risk stratification in CVD Risk: The BaleDoneen Method. Frontiers in Cardiovascular Medicine. In revision
7. Bale BF, Doneen AL, **Vigerust DJ**. Precision Healthcare of Type 2 Diabetic Patients Through Implementation of Haptoglobin Genotyping. Frontiers in Cardiovascular Medicine. 2018; 16(5): 141-145. PMID: 30386783
8. Bale BF, Doneen AL, **Vigerust DJ**. High Risk Periodontal Pathogens Contribute to the Pathogenesis of Atherosclerosis. Postgraduate Medical Journal. 2017; Apr; 93(1098): 215-220. PMID: 27899684.
9. **Vigerust DJ**. The Enigma of Sleep. Future Neurology. 2016; 11(4): 245-254.
10. **Vigerust DJ**. Clinical Importance of Haptoglobin Testing in Diabetes. Diabetes Management. 2016; 6(5): 95-98.
11. Mackellar M, **Vigerust DJ**. Role of Haptoglobin in Heath and Disease: A Focus on Diabetes. Clinical Diabetes. 2016; Jul; 34(3): 148-157. PMID: 27621532.
12. Graves KL, **Vigerust DJ**. Haptoglobin: An Inflammatory Indicator in Cardiovascular Disease. Future Cardiology. 2016; 12(4): 471-481.

PMID: 27203711.

1. **Vigerust DJ**. Neuroinflammation: A Precursor and Promoter of Oncogenesis.

Future Neurology. 2016; 11(2): 113-117.

1. **Vigerust DJ**, Vick S, Shepherd VL. Stable Expression and Characterization of an Optimized Mannose Receptor. Journal of Clinical and Cellular Immunology. 2015; 6:330. PMID: 26581716.
2. Roca AI, Abajian AC, **Vigerust DJ**. ProfileGrids Solve the Large Alignment Visualization Problem: Influenza Hemagglutinin Example. F1000 Research. 2013; 2:2.
3. Yang S, **Vigerust DJ**, Shepherd VL. Interaction of Members of the Heat Shock HSP-70 Family with the Macrophage Mannose Receptor. Journal of Leukocyte Biology. 2013; Apr; 93(4): 529-36. PMID: 23345393.
4. **Vigerust DJ**, Vick S, Shepherd VL. Characterization of a Functional Mannose Receptor from a Human Hybridoma Cell Line. BMC Immunology. 2012; 13(51). PMID: 22967244.
5. D’Costa SM, **Vigerust DJ**, Perales-Hull MR, Lodhi SA, Viravathana P, Bilimoria SL. First Compete and Productive Cell Culture Model of the Genus Iridovirus. Archives of Virology. 2012; 157(11): 2171-2178. PMID: 22828780.
6. **Vigerust DJ**. Protein Glycosylation in Infectious Disease Pathobiology and Treatment. Central European Journal of Biology. 2011; 6(5): 802-816.
7. Lopez JP, **Vigerust DJ**, Shepherd VL Mitogen-Activated Protein Kinases and NF-κB are Involved in SP-A-Enhanced Killing of Mycobacteria by Macrophages. Respiratory Research. 2009; Jul. 10:60. PMID 19566962.
8. **Vigerust DJ**, McCullers JA. Chloroquine is an Effective Treatment for Influenza A Virus In Vitro but not In Vivo. Influenza and other Respiratory Viruses. 2007; 1(5-6): 189-192. PMID 19453426.
9. **Vigerust DJ**. Pathobiology of Virus Glycosylation: Implications for Disease and Prospects for Therapy. Future Virology. Review. 2007; 2(6): 615-623.
10. **Vigerust DJ**, Ulett KB, Boyd KL, Madsen J, Hawgood S, McCullers JA. N- linked Glycosylation Attenuates H3N2 Viruses. J. Virol. 2007; 81(16): 8593- 8600. PMID 17553891.
11. **Vigerust DJ**, Shepherd VL. Virus Glycosylation: Role in Virulence and Immune Interaction. Trends in Microbiology. Review. 2007; 15(5): 211-18. PMID 17398101.
12. **Vigerust DJ**, Egan BS, Shepherd VL. HIV-1 Nef Mediates Post-Translational Down-Regulation and Redistribution of the Macrophage Mannose Receptor. Journal of Leukocyte Biology. 2005; 77(4): 522-34. PMID 15637102.
13. **Vigerust DJ**, Lincoln JA, Stuart RW, Gnade B, Lefkowitz DL, Lefkowitz SS, Allen RC. Peroxidase- Mediated Oxygenation and Microbicidal Activity. Inflammation. 2000; 24(3): 251-263.
14. Gelderman MP, Stuart RW, **Vigerust DJ**, Fuhrmann S, Lefkowitz DL, Allen RC, Lefkowitz SS, Graham S. Perpetuation of Inflammation Associated with Experimental Arthritis: The Role of Macrophage Activation by Neutrophilic Myeloperoxidse. Mediators Inflamm. 1998; 7(6): 381-9. PMID 9927230.

***Invited Publications:***

1. **Vigerust DJ**. Precision Medicine in the Treatment of Chronic Disease. Future Medicine OA, December 2018.
2. Hyde MT, **Vigerust DJ**. Clinical Importance of Haptoglobin in Diabetes.

Nashville Medical News, February 2016.

1. **Vigerust DJ**. Macrophage Polarization: An Introduction. Journal of Clinical and Cellular Immunology, Special Issue Summer 2015.
2. **Vigerust DJ**. Biomedical Research: The Age of Biology. Winds of Change Magazine, Summer 2009: 5-9.
3. **Vigerust DJ**. The power of PI: Role of the PI in Trainee Advancement. SACNAS News- Perspectives Fall 2008: 20-21.
4. **Vigerust DJ**, Torrez M. Using Telementoring to Create a National Peer-Peer Network of Postdoctoral Scholars. SACNAS News- Science for Americas Future, Fall 2005: 20-21.

***Invited Presentations:***

1. **Vigerust DJ**. Precision Healthcare in Diagnosis and Prevention of Cardiovascular Disease. Indiana Osteopathic Association. Indianapolis, IN. April 12, 2019
2. **Vigerust DJ**. Beyond the Bench: Realizing the Power of Precision Medicine. University of Kansas, Department of Toxicology and Pharmacology. Lawrence, KS. February 21, 2019.
3. **Vigerust DJ**. Utilization of Genetic Testing in Workers Compensation. Tennessee Self-Insurers’ Association 2018 Annual Conference. Nashville, TN. September 6-7, 2018.
4. **Vigerust DJ**. Genomics 101. FASEB Rigor and Reproducibility: Promoting Credible Science and Interdisciplinary Collaborations. Myrtle Beach, SC. April 26-28, 2018.
5. **Vigerust DJ**. Precision Medicine in Primary Care. CareHere Annual Conference. Franklin, TN. March 14, 2018.
6. **Vigerust DJ**. Bridge to Precision Medicine. Ballard Benefit 9th Annual Conference. Novi, MI. April 26, 2017.
7. **Vigerust DJ**. Management and Business Principles for Scientists. Vanderbilt University. Nashville, TN. March 1, 2017.
8. **Vigerust DJ**. Benefits of Precision Medicine in the VA. El Paso Department of Veterans Affairs Provider Conference. El Paso, TX. December 13, 2016.
9. **Vigerust DJ**. The Promises and Challenges of Precision Medicine. Alliance for Health Reform. Washington DC. October 24, 2016.
10. **Vigerust DJ**. Benefits of Genetics in Drug Efficacy Testing. 3rd Annual Healthcare Innovation Conference. Covington, KY. September 13, 2016.
11. **Vigerust DJ**. Precision Medicine in Pain Management. 19th Annual Tennessee Workers Compensation Conference. Murfreesboro, TN. June 22, 2016.
12. **Vigerust DJ**. Personalized Medicine. Florida Nuclear Medical Technologists Annual Conference. Tampa, FL. April 29, 2016.
13. **Vigerust DJ**. Beyond Accurate: Embracing Precision Medicine. TEDx Nashville. Nashville TN. April 15, 2016.
14. **Vigerust DJ**, West JD. The Next Generation of Wellness. 2nd Annual Healthcare Innovation Conference. Covington, KY. September 23, 2015.
15. **Vigerust DJ**. Pharmacogenomics in Clinical Medicine. American Esoteric Laboratories. Memphis, TN. March 24, 2015.
16. **Vigerust DJ**. Pharmacogenomics Grand Rounds Lecture. Grace Health System, Lubbock, TX. March 12, 2015.
17. **Vigerust DJ**. Research Opportunities with the Department of Veteran Affairs. Improving the Human Condition: Challenges for Interdisciplinary Science (SACNAS), Dallas, TX. October 15-18, 2009. (Session Co-Chair and moderator).
18. **Vigerust DJ**. Fellowships and Opportunities for a Successful Postdoc Experience. Stretching the Imagination to Support Leadership and Sustainability (SACNAS), Kansas City, MO. October 11-14, 2007. (Session Co- Chair).
19. **Vigerust DJ**. Fellowships: Funding your Graduate Education and Postdoctoral Experience. Science Revolution in Minority Communities: What Progress Have We Made? (SACNAS) Tampa, FL. October 26-29, 2006. (Session Co- Chair).
20. **Vigerust DJ**. Success in Graduate School- Conducting Research and Publishing During Your Graduate Career. Science Revolution in Minority Communities: What Progress Have We Made? (SACNAS) Tampa, FL. October 26-29, 2006.
21. **Vigerust DJ**, Bartmess K, McCullers JA. The Role of Glycosylation in Influenza A (H3N2) Virulence. 3rd Orthomyxovirus Research Conference, Queens College, Cambridge UK. July 28-31, 2005.

***Poster Presentations:***

1. **Vigerust DJ**, Vick S, Shepherd VL. Cooperation of TLR2, Rab5 and MMR in the Internalization of Staphylococcus aureus. Keystone Symposia, Innate Immunity: Sensing the Microbes and Damage Signals. Keystone, CO. March 4- 9, 2012.
2. **Vigerust DJ**, Shepherd VL. Host Innate Receptor Regulation is Mediated by Influenza Virus Proteins. American Society for Cell Biology Annual Meeting, Denver, CO. December 3-7, 2011.
3. **Vigerust DJ**, Shepherd VL. Regulation of Host Innate Immune Receptors by Influenza. AAI 98th Annual Meeting, San Francisco, CA. May 13-17, 2011.
4. Roca AI, Abajian AC, **Vigerust DJ**. JProfileGrid: Visualizing Very Large Multiple Sequence Alignments. VIZBI, Broad Institute, Cambridge, MA. March 16-19, 2011.
5. Roca AI, Abajian AC, **Vigerust DJ**. Visualizing Protein Family Nanoanatomy using ProfileGrids. International Society for Computational Biology Annual Conference, Boston, MA. July 9-13, 2010.
6. **Vigerust DJ**, Lindquist ME, Crowe JE Jr. Influenza-Mediated Induction of Stress Granule Formation. SACNAS Annual Meeting, Salt Lake City, UT. October 9-12, 2008.
7. Torres M, Aguilar-Roca N, Barerra A, Juarez M, Rudati J, Pizarro IV, **Vigerust DJ**, Yoshida LC, Roca AI. The SACNAS Postdoc Committee as a Model for Diversifying the Science Workforce. National Postdoctoral Association 4th Annual Conference, Bethesda, MD. April 21-23, 2006.
8. **Vigerust DJ**, Shepherd VL. HIV-1 Nef Mediated Down-Regulation and Redistribution of the Macrophage Mannose Receptor. ASCB 43rd Annual Meeting, San Francisco, CA. Dec 13-17, 2003.
9. **Vigerust DJ**, Shepherd VL. HIV-1 Nef Expression Induces Down-Regulation and Redistribution of Mannose Receptor. AAI 90th Annual Meeting, Denver, Colorado. May 6-10, 2003.
10. **Vigerust DJ**, Egan BS, Aiken CR, Shepherd, VL. Regulation of Mannose Receptor by HIV-1 Nef. ASCB 42nd Annual Meeting, San Francisco, CA. December 14-18, 2002.
11. **Vigerust DJ**, Stuart RW, Gnade B, Lefkowitz DL, Lefkowitz SS, Allen RC. Enzyme Mediated Oxygenation and Candidicidal Activity: A Peroxidase Pecking Order. FASEB Meeting, Washington D.C., April 17-24, 1999.
12. Gnade B, **Vigerust DJ**, Stuart RW, Roberts ED, Lefkowitz DL, Grattendick K, Lefkowitz, SS. Exacerbation of Experimental Arthritis by Myeloperoxidase: A New Model. FASEB Meeting, Washington D.C., April 17-24, 1999.
13. Roberts ED, Stuart RW, Lincoln JA, **Vigerust DJ**, Gnade B, Lefkowitz DL, Castro A, Lefkowitz SS. A Paradigm for in vivo Macrophage/ Neutrophil Interaction. FASEB Meeting, Washington D.C., April 17-24, 1999.
14. D'Souza S, Henderson C, Lodhi S, **Vigerust D**, Glass A, Yao H, Bilimoria SL. Cell culture models for replication of an insect virus pathogenic to the cotton boll weevil. 73rd Annual Meeting, SWARM, AAAS, College Station, TX. May 18- 22, 1997.

***Media Presentations:***

1. Mental Health News Radio, Is There a Fastlane to Finding the Right Medications? May 1, 2019.
2. Mental Health News Radio, Autism and Sleep. February 22, 2018.
3. Mental Health News Radio, Precision Medicine Reflections. May 1, 2017.
4. Mental Health News Radio, The Importance of Precision Medicine in Behavioral Health. April 1, 2017.
5. Neurology Central Interview, Trauma, Inflammation and Oncogenesis. August 31, 2016.
6. Talk of the Town segment, WTVF Channel 5, Nashville TN. Value of Haptoglobin in the Diabetic Patient. August 2016.
7. Control in Diabetes Segment, Orlando FL. When to Test for Haptoglobin. May 28, 2016.

***Continuing Education:***

1. Understanding Melt Curves for Improved SYBR® Green Assay Analysis and Troubleshooting, April 2, 2015. Webinar
2. Bale Doneen Preceptor Course, February 20-21, 2015. Las Vegas, NV. May 28-30, 2015. Atlanta, GA.

***Research Support:***

**Completed**

David J. Vigerust (PI)

VA Career Development Award – 08/01/2009- 03/23/2013

$147,000 per annum

Role of the Macrophage in Acute Respiratory Infection

David J. Vigerust (PI)

Mirus Bio Research Award- 02/07/2012- 02/07/13

$3000

Role of MMR and Influenza Nonstructural Proteins in Acute Respiratory Infection

James E. Crowe JR (PI)

NIAID Diversity Supplement to PI RO1 7/1/07-02/28/09 Alphavirus-based Vaccine Prevention of MPV Infection

The primary thrust of the project is to explore the cell biology of viral infection with emphasis on development of vaccines.

Role: Postdoctoral Fellow

Jonathan A. McCullers (PI)

NIAID/ ALSAC 12/5/04- 01/01/07

Synergism between Influenza and Pneumococcus

The primary direction of this project is the determination of the strain-specific contributions of influenza virulence factors on secondary bacterial pneumonia.

Role: Postdoctoral Fellow

Virginia L. Shepherd (PI)

NIH/ VAMC 05/30/99- 12/04/04

Post-Translational Regulation of The Macrophage Mannose Receptor

The role of this Project was to characterize the post-transcriptional regulation of the macrophage mannose receptor by the HIV-1 Nef accessory protein.

Role: Trainee

Richard L. Hoover (PI)

NHLBI 08/01/00- 05/01/03

T32 Training Grant in Mechanisms of Vascular Disease

The role of this support was to provide training and research experience in leukocyte biology.

Role: Trainee

Paul W. Spearman (PI)

Elizabeth Glazer Pediatric AIDS Foundation Student Award 05/01/02- 05/01/03

The primary direction of this project was to examine the role of pseudovirion production by live vector HIV vaccines on the generation of a robust immune response.

Role: Co-investigator

***Students Supervised:***

Megan Cox, University of MD Eastern Shore School of Pharmacy Pharm.D. Student, Experiential Preceptor Education.

Tinsae Dimasee, Vanderbilt Postbacculaureate student

Project: Role of Rac1 and Cdc42 in Respiratory Virus Infection.

Nicholas Ware. Dartmouth College. Vanderbilt Summer Academy Project: Role of PI3K signaling in RSV Infection.

***Ad Hoc Reviewer:***

Atherosclerosis (2018-present)

Minerva Pediatrica (2018-present)

International Journal of Cardiology (2017)

Journal of Comparative Effectiveness Research (2017)

***Service:***

Keystone Symposia, Diversity Advisory Committee Member.

Faculty Mentor for Experimental Biology National Meeting,

Life Sciences Tennessee Mentor Program

Event Supervisor for the 2015 Science Olympiad Regional Tournament, Tennessee State University.

tnAchieves Mentoring Program,

Faculty Mentor for FASEB MARC Program

Faculty Mentor for ABRCMS National Meeting

American Society for Microbiology. Member, Minority Mentoring Program

American Diabetes Association- Nashville Tour de Cure Organizing committee 2011-2016.

Knights of Columbus, Council 12256 2015 Knight of the Year

Knight of Columbus, 4th Degree Assembly 1081

Supplemental Science Educational Program, Christ the King School 2013-2015. Vanderbilt University School of Medicine Postdoctoral Association

Member and Chair, Committee on Scholarly Learning (2007).

St. Jude Children’s Research Hospital Postdoctoral Executive Council Vice-Chair, Benefits and Volunteer activities (2005-2006).

Vice-Chair, Career Development (2006).

Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) Co-Chair, Postdoctoral Committee 2006-2010

Member, Conference Program and Planning Committee 2010-2011 Member, Abstract Selection Committee: National Conference- Science for America's Future. Denver, CO. September 29-October 2, 2005.

Member, Abstract Selection Committee: Science Revolution in Minority Communities: What Progress Have We Made? Tampa, FL. October 26-29, 2006.

MentorNet Mentor to Shavonne Collins, Pre-medical student at Howard University

Mentor to Michelle Kinder, Graduate Student at University of Pennsylvania Experimental Biology Conference Peer Mentor 2004-2006.