**David Henson**

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**Education**

2023- Anticipated Graduation MD-PhD Candidate

University of Kentucky

Lexington, Kentucky

2014- Graduation Bachelor of Arts, Major: Biology and Chemistry

Hanover College

Hanover, Indiana

**Grants Awarded**

**2018 American Heart Pre-doctoral Fellowship**

American Heart Association

Modulation of antibodies targeting Apolipoprotein A-I to reduce atherosclerosis in a mouse model

Dr. Vincent Venditto, PhD- Sponsor, Dr. Alan Daugherty, PhD- Co-Sponsor

**2018 Pharmaceutical Sciences Excellence in Graduate Achievement Fellowship**

University of Kentucky College of Pharmacy

Evaluation of ApoA-I/IgG ICs in cardiovascular disease.

Dr. Vincent Venditto, PhD- Sponsor

**2016 TL-1 Scholar**

University of Kentucky Center for Clinical and Translational Science

Evaluation of Nuanced Antibody Response to C-Terminal Peptide of ApoA-I in Cardiovascular Disease.

Dr. Vincent Venditto, PhD- Sponsor

**2015 Professional Mentored Student Research Fellowship**

University of Kentucky Center for Clinical and Translational Science Program

Investigation into the relationship between Latent Tuberculosis Infection and Acute Myocardial Infarction. Additional examination of the different inflammatory characteristics in LTBI patient.

Dr. Moises Huaman, MD/MS- Sponsor

**Publications**

**Henson, D.,** Samman-Tahhan, Azawi, T., D. Quyyumi, A., Venditto, V. Identification and characterization of human anti-goat-IgG as a biomarker inversely associated with adverse cardiovascular events. *Atherosclerosis, Thrombosis and Vascular Biology. In revisions*.

**Henson, D**., Chou, C., Sakurai, N., Egawa, T. A silencer-proximal intronic region is required for sustained CD4 expression in postselection thymocytes. *Journal of Immunology*. 192(10), 4620-7. 2014.

Huaman, M., **Henson, D**., Ticona, E., Sterling, T., Garvy, B. Tuberculosis and cardiovascular disease: Linking the epidemics. *Tropical Diseases, Travel Medicine and Vaccines*. 1(1), 10. 2014.

Huaman, M., Kryscio, R., Fichtenbaum, C., **Henson, D**., Salt, E., Sterling, T., Garvy, B. Tuberculosis and risk of myocardial infarction: A propensity score-matched analysis. *Epidemiology and Infection*. 145(7), 1363-1367. 2017.

Huaman, M., Ticona, E., Miranda, G., Kryscio, R., Mugruza, R., Aranda, E., Rondan, PL., **Henson, D**., Ticona, C., Sterling, TR., Fichtenbaum, CJ., Garvy, B. The relationship between latent tuberculosis and acute myocardial infarction. *Clinical Infections Disease*. 66(6), 886-892. 2018.

Huaman, M., **Henson, D**., Rondan, P., Ticona, E., Miranda, G., Kryscio, R., Mugruza, R., Aranda, E., Ticona, C., Abarca, S., Heredia, P., Aguirre, A., Sterling, T., Garvy, B., Fichtenbaum, C. Latent tuberculosis infection is associated with increased unstimulated levels of interferon-gamma in Lima, Peru. *Public Library of Science One*. 13(9), e0202191. 2018.

**Oral Presentations**

**Henson, D.,** Samman-Tahhan, A., Quyyumi, A., Venditto, V. Anti-apolipoprotein A-I antibody profile correlates with cardiovascular disease outcomes. Autumn Immunology Conference, Chicago, IL. November, 2018.

**Henson, D**., Samman-Tahhan, A., Quyyumi, A., Venditto, V. Anti-apolipoprotein A-I antibody profile correlates with cardiovascular disease outcomes. Drug Discovery and Development Colloquium, Lexington, KY. June, 2018.

**Henson, D**., Samman-Tahhan, A., Kline IV, R., Howatt, D., Daugherty, A., Quyyumi, A., Venditto, V. Anti-ApoA-I antibody profile correlates with cardiovascular disease outcomes. Autumn Immunology Conference, Chicago, IL. November, 2017.

**Henson, D**., Kline IV, R., Venditto, V. Nuanced immune response to apolipoprotein A-I in cardiovascular disease. Dinner Meetings University of Kentucky CCTS Seminar, Lexington KY. December, 2016.

**Henson, D**., Kline IV, R., Venditto, V., Nuanced immune response to apolipoprotein A-I in cardiovascular disease. Autumn Immunology Conference, Chicago, IL. November, 2016.

**Henson, D**., Kline IV, R., Venditto, V. Nuanced immune response to apolipoprotein A-I in cardiovascular disease. University of Kentucky Cardiovascular Research Day, Lexington KY. November, 2016.

**Henson, D**., Ticona, E., Miranda, G., Ticona, C., Aranda, E., Sterling, T., Garvy, B., Huaman, M. Interplay of latent tuberculosis infection and acute myocardial infarction: A preliminary analysis. Dinner Meetings University of Kentucky CCTS Seminar, Lexington, KY. March 2016.

**Poster Presentations**

**Henson, D.,** Samman-Tahhan, A., Quyyumi, A., Venditto, V. Association between ApoA-I (apolipoprotein A-I) immune complexes and adverse cardiovascular events. TODD Symposium, Lexington, KY. November 2019.

**Henson, D.,** Samman-Tahhan, A., Quyyumi, A., Venditto, V. Association between ApoA-I (apolipoprotein A-I) immune complexes and adverse cardiovascular events. Saha Cardiovascular Research Day, Lexington, KY. September 2019.

**Henson, D.,** Samman-Tahhan, A., Quyyumi, A., Venditto, V. Association between ApoA-I (apolipoprotein A-I) immune complexes and adverse cardiovascular events. Southeast Lipid Research Conference, Cincinnati, OH. September 2019.

**Henson, D.,** Samman-Tahhan, A., Quyyumi, A., Venditto, V. Anti-apolipoprotein A-I antibody profile correlates with cardiovascular disease outcomes. Vascular Discovery, Boston, MA. May 2019.

**Henson, D.,** Samman-Tahhan, A., Quyyumi, A., Venditto, V. Anti-apolipoprotein A-I antibody profile correlates with cardiovascular disease outcomes. Rho Chi Research Day, Lexington, KY. April 2019.

**Henson, D.,** Samman-Tahhan, A., Quyyumi, A., Venditto, V. Anti-apolipoprotein A-I antibody profile correlates with cardiovascular disease outcomes. CCTS Research Day, Lexington, KY. April 2019.

**Henson, D.,** Samman-Tahhan, A., Quyyumi, A., Venditto, V. Anti-apolipoprotein A-I antibody profile correlates with cardiovascular disease outcomes. Autumn Immunology Conference, Chicago, IL. November 2018.

**Henson, D**., Samman-Tahhan, A., Quyyumi, A., Venditto, V. Anti-apolipoprotein A-I antibody profile correlates with cardiovascular disease outcomes. Saha Cardiovascular Research Day, Lexington, KY. September 2018.

**Henson, D**., Samman-Tahhan, A., Quyyumi, A., Venditto, V. Anti-apolipoprotein A-I antibody profile correlates with cardiovascular disease outcomes. Drug Discovery and Development Colloquium, Lexington, KY. June 2018.

**Henson, D**., Samman-Tahhan, A., Kline IV, R., Howatt, D., Daugherty, A., Quyyumi, A., Venditto, V. Anti-ApoA-I antibody profile correlates with cardiovascular disease outcomes. Atherosclerosis, Thrombosis and Vascular Biology Conference, San Francisco, CA. May 2018.

**Henson, D**., Samman-Tahhan, A., Kline IV, R., Howatt, D., Daugherty, A., Quyyumi, A., Venditto, V. Anti-ApoA-I antibody profile correlates with cardiovascular disease outcomes. Annual CCTS Spring Conference Research Day, Lexington, KY. April 2018.

**Henson, D**., Samman-Tahhan, A., Kline IV, R., Howatt, D., Daugherty, A., Quyyumi, A., Venditto, V. Anti-ApoA-I antibody profile correlates with cardiovascular disease outcomes. Rho Chi Research Day, Lexington, KY. April 2018.

**Henson, D**., Samman-Tahhan, A., Kline IV, R., Howatt, D., Daugherty, A., Quyyumi, A., Venditto, V. Anti-ApoA-I antibody profile correlates with cardiovascular disease outcomes. Autumn Immunology Conference, Chicago IL. November 2017.

**Henson, D**., Samman-Tahhan, A., Kline IV, R., Howatt, D., Daugherty, A., Quyyumi, A., Venditto, V. Anti-ApoA-I antibody profile correlates with cardiovascular disease outcomes. University of Kentucky, Cardiovascular Research Day, Lexington KY. November 2017.

**Henson, D**., Kline IV, R., Venditto, V. Nuanced immune response to apolipoprotein A-I in cardiovascular disease. Drug Discovery & Development and Natural Products Consortium Symposium, Lexington, KY. August 2017.

**Henson, D**., Kline IV, R., Venditto, V. Nuanced immune response to apolipoprotein A-I in cardiovascular disease. Atherosclerosis, Thrombosis and Vascular Biology Conference, Minneapolis, MN. May 2017.

**Henson, D**., Kline IV, R., Venditto, V. Nuanced immune response to apolipoprotein A-I in cardiovascular disease. Translational Science 2017, Washington DC, USA. April 2017.

**Henson, D**., Kline IV, R., Venditto, V. Nuanced immune response to apolipoprotein A-I in cardiovascular disease. Annual CCTS Spring Conference Research Day, Lexington, KY. March 2017.

**Henson, D**., Kline IV, R., Venditto, V. Nuanced immune response to apolipoprotein A-I in cardiovascular disease. Autumn Immunology Conference, Chicago, IL. November 2016.

**Henson, D**., Kline IV, R., Venditto, V. Nuanced immune response to apolipoprotein A-I in cardiovascular disease. University of Kentucky Cardiovascular Research Day, Lexington KY. November 2016.

**Henson, D**., Ticona, E., Miranda, G., Ticona, C., Aranda, E., Sterling, T., Garvy, B., Huaman, M. Interplay of latent tuberculosis infection and acute myocardial infarction: A preliminary analysis. University of Kentucky CCTS Research Day, Lexington, KY. April 2016.

**Henson, D**., Ticona, E., Miranda, G., Ticona, C., Aranda, E., Sterling, T., Garvy, B., Huaman, M. Interplay of latent tuberculosis infection and acute myocardial infarction: A preliminary analysis. University of Kentucky MD-PhD AOA Research Day, Lexington KY. February 2016.

**Henson, D**., Bures, R., O’Connell, G., Sajdak, B., Merriman, D. Preliminary results of optic nerve crush damage in the 13 Lined Ground Squirrel. University of Kentucky MD-PhD AOA Research Day, Lexington, KY. February 2015.

**Henson, D**., Bures, R., O’Connell, G., Sajdak, B., Merriman, D. Preliminary results of optic nerve crush damage in the 13 Lined Ground Squirrel. REU Poster Presentations, Oshkosh, WI. August 2012.

**Henson, D**., Johnson, M. Determining the effectiveness of water purification methods used by hikers. Kentucky Academy of Sciences, Highland Heights, KY, May 2010.

**Research Awards**

2017 MD-PhD Student Award- Saha Cardiovascular Research Center

**Academic Awards**

2014 Enos Pray Biology Award, Outstanding Senior Biology Student- Hanover College

Ned Guthrie Chemistry Award, Significant Contribution to the College- Hanover College

2010-2014 Dean’s List Each Academic Semester- Hanover College

2013 Mortar Board Honor Society- Hanover College

Gamma Sigma Phi Honorary Society- Hanover College

**Conference Awards**

2018 American Association of Immunologist Young Investigator Award. Autumn Immunology

Conference- Chicago, Il.

Best Research Blitz. Saha Cardiovascular Research Day- University of Kentucky,

Cardiovascular Research Center.

Gill Heart Travel Award. Saha Cardiovascular Research Day- University of Kentucky,

Cardiovascular Research Center.

2nd Place Graduate Student Oral Presentation. Drug Discovery and Development

Colloquium- University of Kentucky, College of Pharmacy.

Best Graduate Student Poster. Rho Chi Research Day- University of Kentucky, College of

Pharmacy.

2016 National Multiple Sclerosis Society Travel Award. Autumn Immunology Conference.

Gill Heart Travel Award. University of Kentucky Cardiovascular Research Day.

**Research Experience**

2016- Present Graduate School Research- Lab of Dr. Vincent Venditto

College of Pharmacy, University of Kentucky, Lexington, KY

Studying the role of antibodies to ApoA-1 in the development of cardiovascular disease and modulating antibody response in an epitope specific manner.

2015 PMSRF Fellowship- Dr. Moises Huaman

University of Kentucky, Lexington, KY, and Naval Medical Research Station 6, Lima, Peru

Investigated a connection between Tuberculosis and Myocardial Infarction.

2014-16 Lab Rotations- Labs of Dr. Becky Dutch, Dr. Jerold Woodward and Dr. Dave Feola

University of Kentucky, Lexington, KY

2013 Summer Undergraduate Researcher- Lab of Dr. Takeshi Egawa

Washington University in St. Louis, St. Louis, MO

Characterization of a novel transcriptional control element on the *Cd4* Gene.

2012 National Science Foundation Research Opportunity for Undergraduate Student Lab of Dr. Dana Merriman

Wisconsin-Oshkosh University, Oshkosh, WI

Analysis of Glial Healing in a Novel Animal Model the 13 Lined Ground Squirrel.

**Academic Experience**

2016 TA for PHS 932-001 Immunology, Biotechnology and Cancer

University of Kentucky College of Pharmacy

2012-2014 Tutor, Biology and Chemistry Tutor

Hanover College, Hanover, IN

**Conference Planning Experience**

2018 Drug Development and Development Colloquium- Conference Planning Committee

**Technical Skills**

Flow Cytometry Western Blotting

Cell Separations Tissue Culture

Immunohistochemistry High Pressure Liquid Chromatography (HPLC)

Mouse Care Mouse Injections

Mouse Dissections Tissue Staining

Tissue Preservation Enzyme Linked Immunosorbent Assay (ELISA)

Statistical Analysis Python Programing