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PERSONAL DATA:

Citizenship: United States

Marital Status: Married to Christopher G. Church

EDUCATION:

Makerere University, School of Veterinary Medicine, Kampala, Uganda, Doctor of Veterinary Medicine (D.V.M.), 1997-2002

St. Cloud State University, St. Cloud, Minnesota, Master of Science (M.Sc.) in Cell and Molecular Biology, 2004-2006

Mentor: Dr. Oladele Gazal.

Thesis Title: Leptin and N-methyl-D-aspartate (NMDA) Receptor Activation, as a Mechanistic link between Nutrition and Reproduction.

University of Florida, Gainesville, Florida, Doctor of Philosophy (Ph.D.) in Physiology and Functional Genomics, 2007-2011.

Mentor: Dr. Peter Sayeski.

Dissertation Title: Jak2 Tyrosine Kinase as a Potential new Target in the Treatment of Myeloproliferative Disorders and Cardiovascular Disease.

TRAINING:

California Polytechnic University, San Luis Obispo, California, Global Cow Veterinary Fellowship, 2003-2004

Vanderbilt University School of Medicine, Nashville, Tennessee, Post-Doctoral Fellowship in Cardiovascular Disease and Inflammation, 2011-2014

Mentor: Dr. David G. Harrison

Leadership Training:

1. Vanderbilt University School of Medicine 2024 Mid-career Leadership Development Program
2. As a Chancellor's Faculty Fellow, I attend academic leadership development offerings throughout the year. The Office of Faculty Development invites you to attend our first Academic Leadership Development offering of the semester: Building Trust as a Department Chair.
3. Trust between faculty colleagues is vital to maintaining a thriving departmental culture. Building trust as a department chair can be a challenge, requiring skills to navigate difficult conversations and build consensus. In this session, department chairs will hear from Dana Nelson, Nancy Perot Chair & Professor of English and past department chair, as she discusses the impact of trust on navigating conflict within departments/academic units. Participants will hear case studies, gain strategies, and identify steps to take to help support their important roles as department chairs.
4. VUMC Department of Medicine Women's Leadership Development Workshop, 2024
5. EQ (Emotionally Intelligent Leader) and/or our MBTI (Myers Briggs Type Indicator) courses, 2023
6. VUMC Department of Medicine one-on-one with a leadership development coach

ACADEMIC APPOINTMENTS:

- Research Instructor in Medicine, Department of Medicine, Vanderbilt University School of Medicine, 2015-2016
- Assistant Professor of Medicine, Department of Medicine, Division of Clinical Pharmacology, Vanderbilt University School of Medicine, 2016-2022
- Assistant Professor, Department of Molecular Physiology and Biophysics, Vanderbilt University School of Medicine, 2016-2022
- Adjunct Assistant Professor, Department of Physiology, Meharry Medical College, 2018-2022
- Honorary Lecturer, University of Mulungushi, Zambia, 2020-2022
- Associate Professor of Medicine, Department of Medicine, Division of Clinical Pharmacology, Vanderbilt University School of Medicine, 2022-present
- Associate Professor, Department of Molecular Physiology and Biophysics, Vanderbilt University School of Medicine, 2022-present
- Associate Professor, Vanderbilt Institute of Global Health, Vanderbilt University, 2022-present

EMPLOYMENT:

- Undergraduate Student Researcher, Department of Pathology, School of Veterinary Medicine, Makerere University, Kampala, Uganda. 2000-2002
- Graduate Teaching Assistant, Anatomy and Physiology, Department of Biological Sciences, St. Cloud State University, St. Cloud, Minnesota, 2004-2006
- Graduate Teaching Assistant, Interdisciplinary Program in Biomedical Sciences, University of Florida College of Medicine, 2007-2011

PROFESSIONAL ORGANIZATIONS:

- Member, American Physiological Society (APS), 2009-present
- Member, American Heart Association (AHA), 2009-present
- Member, North American Vascular Biology Organization (NAVBO), 2011-2012
- Member, Faculty 1000 aka Faculty Opinions. Associate Faculty, 2012-present
- Member, American Society of Nephrology (ASN), 2017-present
- Member, Women in Nephrology (WIN), 2021

PROFESSIONAL ACTIVITIES:**Editorial responsibilities**

- Nature Reviews Cardiology Advisory Board Member, 2024
- *Hypertension* Editorial Board Member, 2018 – present
- Section Editor-Inflammation & Cardiovascular Diseases, *Current Hypertension Reports*, 2018-present
- Associate Editor – *Circulation Research*, 2019 – present
- AJP-Heart and Circulatory Physiology Editorial Board member, 2021 – present
- AJP-Heart and Circulatory Physiology Consulting Editor board, 2021 – present
- AJP-Renal Editorial Board member, 2021 – present
- Frontiers in Physiology, 2021 – present

Reviewer

- F1000 Associate Faculty (Faculty Opinions) Reviewer, 2012-present
- American Journal of Hypertension, 2015
- Integrated blood pressure control, 2015
- African Journal of Physiology and Pharmacology, 2015
- Molecular Biology Reports, 2016
- Bioscience Reports, 2016-present
- BMC Cardiovascular Disorders, 2016-present
- American Journal of Physiology: Regulatory, Integrative and Comparative Physiology, 2017-present
- American Journal of Physiology Heart and Circulation Physiology, 2017-present
- Pharmacological Research Journal, 2017
- British Journal of Pharmacology, 2017
- Clinical Science, 2017
- JAHA, 2017-present
- Hypertension, 2017-present
- Cardiovascular Research (fast-track reviewer), 2017-present

- Nature Reviews Nephrology, 2018-present
- Circulation Research, 2018-present
- Circulation, 2019-present
- JCI Insight, 2019-present

Extramural Grant Review

- American Heart Association (AHA) Vascular Wall Biology Peer Review Study Group, 2017-present
- AHA Career Development Award Basic Vascular Sciences Review Committee, 2018-present
- NIH ECR (Early Career Reviewer) program, 2020
- NIH-NHLBI. Cellular and Molecular Immunology A (CMIA) Study Section, *ad hoc*. 2020
- NIH-NHLBI. Integrated Vascular Physiology and Pathology (IVPP) Study Section, *ad hoc*. 2021
- American Heart Association Fellowship Vascular Endothelial Review committee, 2021
- NIH-ZRG1. Molecular and Cellular Immunology, IDIA-E (02) M Study Section, Special Emphasis Panel, 2021
- Department of Defense (DOD) Health Program Study sections FY21 Peer Reviewed Medical Research Program (PRMRP) Investigator-Initiated Research Award Preapplication (IIRA-Pre), 2021
- Department of Defense (DOD) Health Program Study sections FY21 Peer Reviewed Medical Research Program (PRMRP) Technology/Therapeutic Development Award Preapplication (TTDA-pre), 2021
- American Heart Association Health Equity Research Network (HERN) on Prevention of Hypertension review committee, 2021
- American Heart Association Diversity Supplement, 2022
- NIH-ZRG1 IDIA-E (02) Study Section, Member Conflict: Innate and Adaptive Immunology Study Section, Special Emphasis Panel, 2021
- NIH-NHLBI. Cellular and Molecular Immunology A (CMIA) Study Section, *ad hoc*. Oct 2021
- NIH-NHLBI. Integrated Vascular Physiology and Pathology (IVPP) Study Section, *ad hoc*. Oct 2021
- NIH-ZRG1 IDIA-E (02) Study Section, Member Conflict: Innate and Adaptive Immunology Study Section, Special Emphasis Panel, Nov 30th, 2021 ([Served as Alternate Chair](#))
- NIH-ZRG1 VH-B (02) Study Section, Member Conflict: Vascular and Hematology, Special Emphasis Panel, March 2022
- NIH-ZRG1 IDIA-E (02) Study Section, Member Conflict: Innate and Adaptive Immunology Study Section, Special Emphasis Panel, April 2022 ([Served as Alternate Chair](#))
- NIH CSR ZRG1 IDIA-C (02) M Special Emphasis Panel: Cellular and Molecular Immunology - 2022/10 Council Round, July 2022

- NIH-NHLBI. Integrated Vascular Physiology and Pathology (IVPP) Study Section, Standing Member 07/01/2022 to 06/30/2028.
- Burroughs Wellcome Fund Review Committee, 2023-present
- Chair - American Heart Association Diversity Supplement, 2024

Intramural Grant Review

- Vanderbilt Institute for Clinical & Translational Research (VICTR) Reviewer, 2016-present
- Diabetes Research and Training Center (DRTC) Pilot and Feasibility Project Reviewer, 2018
- Edge Review Vanderbilt Internal Study Section

Extramural Abstract/Poster Review

- Judge, Alachua County Schools Science Fair, Gainesville, Florida, 2009-2010
- Medical Guild Research Incentive Award Reviewer – University of Florida, College of Medicine, 2010-2011
- The 23rd Annual University of Alabama at Birmingham Vascular Biology and Hypertension Symposium – Poster Judging, 2012
- The 60th Annual Meharry Medical College Research Symposium - Poster Judging, 2016
- The 61st Annual Meharry Medical College Research Symposium - Poster Judging, 2017
- Abstract Reviewer for the American Society of Nephrology (ASN) Kidney Week, 2017
- Abstract Reviewer, Experimental Biology, American Physiology Society Translation Physiology Group, 2017
- Abstract Reviewer, Experimental Biology, American Physiology Society Translation Physiology Group, 2018
- The 31st Annual University of Alabama at Birmingham Vascular Biology and Hypertension Symposium –mPoster Judging, 2021
- American Heart Association (AHA) Scientific Sessions Abstract Review, 2021
- American Physiological Society Summit, Water and Electrolyte Homeostasis Poster Session Poster Judge, Long Beach California, 2023.
- American Physiological Society Summit, Water and Electrolyte Homeostasis Awards and Data Diuresis Session Oral Presentation Early Career Awards Judge, Long Beach California, 2023.
- Eicosanoid conference 2023 Abstract Reviewer

Intramural Abstract/Poster Review

- Vanderbilt Summer Science Academy Poster Judging, Vanderbilt University, Nashville, 2012-2014
- Poster Judge, Vanderbilt University Medical Center Annual Research Forum, 2018
- Abstract Judge, Research Forum_VUMC trainees in this 39th Annual event, 2021
- Poster Judge, Vanderbilt Postdoctoral Association, 2021

Organization of Symposia and Featured Topics, National and International Conferences:

- Vascular Biology and Dysfunction American Society of Nephrology (ASN) Kidney Week (November 2017)
- Cell and Molecular Physiology Symposium on Molecular Mechanisms for Salt-induced Cardiovascular Disease, Experimental Biology, San Diego (April 2018)
- Oral New Advances in Levuglandins and Isolevuglandins Symposium, 17th International Winter Eicosanoid Conference (March 2018)
- Nominated to Organize and Chair a Featured Topic session for the Cell & Molecular Physiology Section of APS "*Cellular Signaling and Transduction*" at the Experimental Biology Meeting in Philadelphia, April 2022.
- American Society of Nephrology Abstract Chair, 2022
- American Physiological Society Summit, Water and Electrolyte Homeostasis Awards and Data Diuresis Session - Long Beach California, 2023.

Scientific Session Chair/Moderator

- Abstract Category Chair for the American Society of Nephrology (ASN) Kidney Week, 2017
- Chair for Oral Session: Vascular Biology and Dysfunction, American Society of Nephrology (ASN) Kidney Week (November 2017)
- Chair for the Oral Cell Physiology Symposium on Molecular Mechanisms for Salt-induced Cardiovascular Disease, Experimental Biology, San Diego (April 2018)
- Co-chair for the Oral New Advances in Levuglandins and Isolevuglandins Symposium, 17th International Winter Eicosanoid Conference (March 2018)
- Chair for the Joint Hypertension 2018 Scientific Sessions, Inflammatory Cytokines in Hypertension – Chicago (September 2018)
- Co-chair for ASBMB Annual Meeting, held in conjunction with Experimental Biology. Pennsylvania, Philadelphia (April 2022).
- Chair for the Oral Session – Cardio-Nephro Career Path: What does it take? American Heart Association 2022 Scientific Sessions, Chicago.

- Chair for the Oral Abstract Session on Sex Differences at the 2022 AHA Council on Hypertension Conference, San Diego California
- American Physiological Society Summit, Water and Electrolyte Homeostasis Awards and Data Diuresis Session Chair - Long Beach California, 2023.
- American Physiological Society Summit, Water and Electrolyte Homeostasis Awards and Data Diuresis Session Chair - Long Beach California, 2023.
- Co-Chair: Sex Differences in Cardiovascular Disease. APS Summit Long Beach California, 2023.
- Chair – Cardio-Immunology in Heart Disease Oral Session. AHA BCVS Scientific Sessions, Boston 2023.
- Chair – Microbiome Mechanisms Regulating Blood Pressure. AHA Council on Hypertension Scientific Sessions, Boston 2023
- Chair and organizer for the Oral Advances in Cardiovascular Eicosanoids Symposium, 19th International Winter Eicosanoid Conference (March 2023)
- Chair/moderator – Early Career Spotlight – AHA Scientific Sessions 2023 – Philadelphia.
- American Physiological Society Summit, Water and Electrolyte Homeostasis Awards and Data Diuresis Session Chair - Long Beach California, 2024.
- Chair - American Physiological Society Summit Game Changer session with a focus on Gut Microbiota and Immunometabolism. Long Beach California, 2024.

Committees at National and International Level

- American Physiology Society (APS) Cardiovascular Section Trainee Committee, 2013-2016
- Chair of the American Physiology Society Translation Physiology Group Awards Committee, 2016-2019
- American Heart Association Membership Committee Council on Hypertension, 2018-present
- American Heart Association Communications Committee of the Council on Hypertension, 2018-present
- American Heart Association Council on Hypertension Nominating Committee, 2018-present
- Newsletter Editor on the Hypertension Membership & Communications Committee of the American Heart Association Council on HTN, 2020-present
- Hypertension Leadership Committee, American Heart Association Council on Hypertension, 2020-present
- Awards Committee, American Heart Association Council on Hypertension, 2021-present

- Twitter Account Manager for Council on Hypertension (@CouncilonHTN), 2021-present
- Chair, American Heart Association Communications Committee of the Council on Hypertension, 2022-present
- AHA Council on Hypertension @AHAScience Twitter Moderator, 2022
- American Physiological Society, Water and Electrolyte Section Leadership Steering Committee
- AHA Lead Science Social Media Influencers Collective, 2023-2026
- Vice Chair – American Heart Association Council on Hypertension Communications Committee, 2020-2022
- Chair – American Heart Association Council on Hypertension Council on Hypertension Communications Committee, 2022-2024
- Immediate Past Chair – American Heart Association Council on Hypertension Council on Hypertension Communications Committee, 2024 – 2026
- Conference Organization Committee, American Society of Nephrology (ASN) Kidney Week, 2023-2025
- Chair – International Society of Hypertension (ISH), Cartagena. Colombia, 2024
- External Advisory Board, Meharry Cardiometabolic Research, 2024

Committees at Vanderbilt

- Vanderbilt University Post-Doctoral Association Symposium Organizing Committee, 2012
- Vanderbilt University Career Symposium Organizing Committee, 2014
- Faculty Search Committee Department of Pharmacology and Division of Clinical Pharmacology, 2017
- Interviewing for the Vanderbilt MPB PhD program, 2018
- UNZA-Vanderbilt Partnership for HIV-Nutrition Research Training (UVP) leadership committee – Vanderbilt Institute for Global Health, 2020-present
- Interviewing for the MSTP and Harrison Society PSTP program, 2021
- Vanderbilt Integrated Training Alliance [VITA] Symposium Steering Committee, 2021-present
- Department of Medicine Diversity Liaison for the Division of Clinical Pharmacology, VUMC, 2021 - Present
- Department of Medicine Neilson Society Faculty Development Liaison for the Division of Clinical Pharmacology, VUMC, 2022 - Present

- Vanderbilt MSTP Admissions Subcommittee Member
- Scientific Member of the Vanderbilt Medical Center (VUMC), Vanderbilt University (VU), and Department of Veteran Affairs Tennessee Valley Healthcare System (VA) Institute of Animal Care and Use Committee (IACUC), 2023 - Present

LEADERSHIP

- Class Representative, School of Veterinary Medicine, Makerere University, Kampala, Uganda, 2000-2002
- Student Government Senate Representative for Graduate Family Housing, University of Florida, 2009-2010
- Discussion Group Coordinator, Fundamentals of Physiology & Functional Genomics (GMS 6008), Interdisciplinary Program in Biomedical Sciences, University of Florida, 2009-2010
- Co-Leader in the Student Science Training Program (SSTP), Physiology and Disease, University of Florida, 2009-2010
- Physiology and Pharmacology Representative, Graduate Students Organization (GSO), Interdisciplinary Program in Biomedical Sciences, University of Florida, 2009-2010
- Division of Clinical Pharmacology Department Representative, Post-Doctoral Association, Vanderbilt University, 2011-2013
- Junior Co-Chair, Vanderbilt University Medical Center Post-Doctoral Association, Vanderbilt University, Nashville, TN, 2012-2013
- Chair, American Physiology Society Translational Physiology Interest Group Awards Committee, 2016-2019
- American Society of Nephrology Abstract Chair, 2022
- American Physiological Society, Water and Electrolyte Section Data Diuresis Chair, 2022
- American Heart Association Council on Hypertension Communications Committee Chair, 2022
- Panelist, Vanderbilt University Medical Center Post-Doctoral Association, Vanderbilt University, Nashville, TN, 2024

MENTORING

- Student Mentor, Scientific Discovery Program for Minority High School Students, St. Cloud State University, St. Cloud, Minnesota, 2005-2006
- University of Florida Summer Research Students Mentor, 2011
- Mentor of Minority Travel Fellowship - American Physiology Society and the National Institute of Diabetes and Digestive and Kidney Diseases (APS/NIDDK), 2012-2019

- Experimental Biology 2012 Tour Guide for High School Students, 2012 -2013
- Vanderbilt Summer Science Academy (VSSA) mentor, Vanderbilt University, School of Medicine, Nashville Tennessee, 2013
- Mentor in the NeXXt Scholars Program conducted by The New York Academy of Sciences, 2013-2014
- Mentor for the Renal Section PI-trainee mixer at Experimental Biology, 2017-2019
- Visiting Lecturer and Mentor, University of Zambia – Vanderbilt Partnership for HIV-Nutrition Research Training, 2019 -present
- Mentor for International Society of Hypertension Mentoring Program (Liang Xie, PhD student, Monash University), 2020 – 2023
- Mentor for International Society of Hypertension Mentoring Program (Hamdi A Jama, PhD student, Monash University), 2022 – present
- Mentor of Minority Travel Fellowship - American Physiology Society (Martin Frank). Round Table Speaker on CVs, Bio-sketches and Cover Letters, 2022.
- Mentoring panel for the CHAMP by the TAC at AHA Council on Hypertension, 2022
- American Physiological Society Summit Water and Electrolyte Spread Mentoring, 2024.
- American Physiological Society Summit Renal Section Mentor, 2024.
- Mentor, Short Course in Transferable Skills Training (SHIFT) Program, 2024

Trainees in the laboratory

Name	Current Status	Dates	Did work result in publications?
Kala Dixon, MSc (Research Intern)	Director in Family Medicine at University of Alabama at Birmingham	2016	Yes, 1 first-authored publication
Shivani Kumaresan (Summer Research Intern)	Medical Student at Northwestern Feinberg School of Medicine	2016 Summer	Yes, 2 co-authored publications
Nikita Tsyba (Rotating Graduate Student)	Data Analyst at BioCentury Inc.	2017	Yes, 1 co-authored publication
Zoe McDowell (Rotating Graduate Student)	Graduate student at Meharry	2017	Yes, 1 co-authored publication
Natalia R. Barbaro, BPharm., PhD (Postdoc)	Scientist in immunology, Translational Research at Celularity, Inc.	2016-2020	Yes, 3 first authored and 8 co-authored publications
Jason D. Foss, PhD (Postdoc)	Medical Writer at Intellia Therapeutics, Inc.	2016-2017	Yes, 1 first-authored and 5 co-authored publications

Justin PV Beusecum, PhD, (Postdoc)	Assistant Prof. at Medical University of South Carolina	2017-2021	Yes, 5 first-authored and 8 co-authored
Sepiso K. Masenga (Postdoc)	Faculty and Head of Physiology Department at Mulungushi University	2017-2020	Yes, 13 first-authored and 12 co-authored publications
Ashley Pitzer, PhD (Postdoc)	Faculty (Instructor) at Vanderbilt University	2019-present	Yes, 5 first-authored and 14 co-authored publications
Jeanne Ishimwe Ph.D. (Postdoc)	Scientist for Keros Therapeutics	2021-2023	Yes, 5 first-authored, 6 co-authored publications
Mohammad Saleem Ph.D. (Postdoc)	Faculty (Instructor) at Vanderbilt University	2021-present	Yes, 2 first-authored, 13 co-authored publications
Lale Ertuglu M.D. (Postdoc)	Resident Physician at Vanderbilt University Medical Center	2021-2023	Yes, 7 first authored, 8 co-authored publications
Taseer Ahmad Ph.D. (Postdoc)	Postdoctoral Fellow Trainee	2022-present	Yes, 1 first author paper and 2 co-authored
Luul Aden (Undergraduate Research Student)	Medical student at Vanderbilt University	2018-2020	Yes, 5 co-authored publications
Paul Kasner (Summer Undergraduate Student)	Graduate student at Vanderbilt University	2021-2022	Yes, 1 co-authored, under revision
Mutengo Hope Katongo	Graduate student Vanderbilt/UNZA Partnership	2022-present	Yes, 2 manuscripts, 1 first author
Thanvi Dola (Summer Undergraduate Student)	Undergraduate student at Vanderbilt University	2021-2022	Yes, 1 co-authored, under revision
Tyrone Thomas (Summer Undergraduate Student)	Undergraduate student at Morehouse College	2021 Summer	No
Jalyn White (Summer Undergraduate Student)	Undergraduate student at Howard University	2022 Summer	No
Jennifer Park (Summer Undergraduate Student)	Undergraduate student at Vanderbilt University	2021 Summer	Yes, 1 co-authored,
Taseer Ahmad	Postdoctoral Fellow Trainee	2022 – present	Yes, 1 first author and 6 co-authored publications
Sydney Jameson	Graduate Student at Vanderbilt/Meharry	2023-present	Yes, 6 co-authored publications
Claude Albritton	Graduate Student at Vanderbilt/Meharry	2023-present	Yes, 2 first author and 5 co-authored, under revision
Alexandria Porcia Haynes	Research Assistant	2023-present	Yes, 1 first author under revision
Suha Arshad	Summer Undergraduate Scholar	2023-2024	Yes, 1 co-author publication
Selam Desta	Research Assistant	2023-present	Yes, 2 co-author publications
Mert Dimitri	Postdoctoral Fellow Trainee	2023-present	Yes, 1 first author and 5 co-authored publications
Mohd M. Kahn	Postdoctoral Fellow Trainee	2023 – present	No
Jeremiah Afolabi	Postdoctoral Fellow Trainee	2024 – present	Yes, 2 first author and 1 co-authored publication

Trey Tinich (Summer Research Intern)	Medical Student at UMKC Medical School	2024 Summer	No
Aihnoa Shibao (Summer Research Intern)	Undergraduate student at Cayetano Heredia University	2024 Summer	No
Ronald McMillan	Postdoctoral Fellow Trainee	2024 – present	No

Mentoring & Thesis Committees

2017-2022	Heather Beasley, PhD	Graduate Student - Meharry
2018-2020	Van Beusecum, PhD	Post-doctoral Research Fellow, VU
2018-2020	David Patrick, MD, PhD	Post-doctoral Research Fellow, VU
2021-present	Keri M. Kemp, PhD	Post-doctoral Research Fellow, UAB
2022-present	G. Ryan Crislip, PhD	Post-doctoral Research Fellow
2022-present	Jamie Garcia, PhD	Post-doctoral Research Fellow, VU
2023-present	Sherry Ameli Gonabadi Nezhad	Graduate Student – VU
2023-present	Amber Crabtree	Graduate Student – VU
2024-present	Chanel Harris	Graduate Student – VU
2024-present	Kuniko Hunter, PhD	Post-doctoral Research Fellow, VU

Faculty Mentoring Committees

2023-present	Eman Gohar PhD, (Chair)	Assistant Professor of Medicine VUMC
2023-present	David Patrick MD, PhD	Assistant Professor of Medicine VUMC
2023-present	Celestine Wanjalla MD, PhD	Assistant Professor of Medicine VUMC
2023-present	Antentor Hinton Jr. PhD	Assistant Professor of Molecular Physiology and Biophysics VUMC

International External PhD Thesis Examiner

- Hamdi A Jama, PhD Thesis External Examiner, Thesis Title: Protective effects of dietary fibre in cardiovascular disease - Monash University, Australia, 2022
- Kevin Donald Comeau, PhD Thesis External Examiner, Thesis Title: Memory gd T cells enhance angiotensin II-induced blood pressure elevation and sensitize mice to develop hypertension - McGill University, Montreal, Canada, 2022
- Rikeish R Muralitharan, PhD Thesis Examiner, Thesis Title: The role of the gut microbiota and its metabolite-sensing receptors in blood pressure regulation - Monash University, Australia, 2023
- Evan Niekerk, PhD Thesis External Examiner, Thesis Title: Cardiovascular health and adiposity-related inflammation: The African-PREDICT study - North-West University, South Africa

TEACHING ACTIVITIES**Teaching Assistant/Fellow**

- Graduate Teaching Assistant, Anatomy and Physiology, Department of Biological Sciences, St. Cloud State University, St. Cloud, Minnesota. 2004-2006
- Graduate Teaching Assistant, Physiology of Reproduction, Department of Animal Sciences, Texas A&M University, College Station, Texas. 2006-2007
- Graduate Teaching Assistant, Fundamentals of Physiology & Functional Genomics (GMS 6008),

Interdisciplinary Program in Biomedical Sciences, University of Florida, Gainesville, Florida. 2009-2010

- Student Science Training Program (SSTP), Physiology and Disease, University of Florida, Gainesville, Florida. 2009-2010
- Graduate Teaching Assistant, Science for Life Seminar, University of Florida, Gainesville, Florida. 2009-2010
- Graduate Teaching Assistant, Interdisciplinary Program in Biomedical Sciences, University of Florida, Gainesville, Florida. 2010-2011
- Career Development Teaching Fellow for Vanderbilt Summer Science Academy Vanderbilt University, School of Medicine, Nashville Tennessee. 2013
- Teaching of summer students, graduate students and postdocs in the laboratory, 2012-present

Didactic Faculty Lectures/Courses

- Clinical Pharmacology Fellows Conference (1 hr panel discussion) – “Pearls for Successful Grant Writing.” 2015
- Lecture for the Clinical Pharmacology Fellows (1 hr) – “The K word - Developing a Successful Career Development Award.”, 2016
- Lecture for the Clinical Pharmacology Fellows (1 hr) The role of the Immune System in Hypertension, 2017
- Lecture for the Clinical Pharmacology Fellows (1 hr) –Developing a Successful Career Development Award. 2018
- Harrison Society – Obtaining Foundation Funding, 2018
- Directed and Independent Studies in Biological Sciences (BSCI3861, 3 credit hours). 2018
- Research Independent Study (2 credits) MLI-6025, section 02, 2018
- American Physiological Society Physiology Understanding Week at Big Picture High School (3 hours), 2018
- Directed and Independent Studies in Biological Sciences (BSCI3861, 5 credit hours), 2018
- Lecture for the Clinical Pharmacology Fellows (1 hr) ENaC Regulation and its role in Immune Salt-Sensitivity and Salt-Sensitive Hypertension, 2019
- Research Independent Study (2 credits) MLI-6025, section 02, 2019
- Undergraduate Research Credit (BSCI 3850, 2 credit hours), 2021
- Lecture for the Clinical Pharmacology Fellows (1 hr) The Immunology of Hypertension, 2021-present
- Undergraduate Research Credit (BSCI 3850, 2 credit hours), 2022-present

Honors & Awards

- Uganda Government Full Scholarship for University Education, Best students graduating from high school in the country, as well as the valedictorian in the class of 1997, 1997-2002:
- Dean's list Award, School of Veterinary Medicine, Makerere University, Kampala, Uganda. 2000
- Dean's list Award, School of Veterinary Medicine, Makerere University, Kampala, Uganda. 2001
- Dean's list Award, School of Veterinary Medicine, Makerere University, Kampala, Uganda. 2002
- Degree in Veterinary Medicine with Honors. 2002
- Best Poster Award, Honorable Mention, Students' Research Colloquium, St. Cloud State University. 2006
- Travel Fellowship Award - American Physiological Society, Professional Skills Training Workshop, Orlando, Florida. 2009
- Pre-Doctoral Caroline tum Suden/Francis Hellebrandt and Steven M. Horvath Professional Opportunity Award, American Physiological Society. 2010
- Greater Southeast Affiliate American Heart Association (AHA) Pre Doctoral Fellowship, 2010
- International Honorary for Leaders in University Apartment Communities (IHLUAC). University of Florida and Department of Housing and Residence Education. 2011
- American Physiology Society and the National Institute of Diabetes and Digestive and Kidney Diseases (APS/NIDDK) Minority Travel Fellowship Award. 2011
- American Physiology Society and the National Institute of Diabetes and Digestive and Kidney Diseases (APS/NIDDK) Minority Travel Fellowship Award. 2012
- Post-Doctoral Caroline tum Suden/Francis Hellebrandt and Steven M. Horvath Professional Opportunity Award, American Physiological Society. 2013
- Greater Southeast Affiliate AHA Post-Doctoral Fellowship, 2013
- American Physiology Society Travel Fellowship Award, 2013
- Best Poster Award, AHA High Blood Pressure Research Conference, 2014
- NIH NHLBI K01 Career Development Award, 2014
- Clinical Pharmacology Service Award, Vanderbilt University Medical Center, 2016
- Distinguished service as Trainee Committee Representative, The American Physiological Society Cardiovascular Section, 2016

- Elected as a Fellow of the American Heart Association (FAHA) conferred by the Council Hypertension Council (HTN), 2017
- New Investigator Review Award, American Journal of Physiology (Regulatory, Integrative and Comparative Physiology), 2017
- Certificate of Recognition for participation in VICTR Studios, Vanderbilt Research Institute for Clinical and Translational Program, June 2018
- Frontiers in Physiology Research Community Leader Professional Development Fellowship Award, American Physiology Society, April 2019
- Clinical Pharmacology Faculty Teaching Award, Vanderbilt University Medical Center, June 2019
- Top #4 highly cited paper award by Vanderbilt VI4, 2020.
- AHA Harry Goldblatt Award for Early Career Investigators, 2020
- *Hypertension* High Impact Top Paper Award, 2020
- Featured Scientists by Advanced Genetics – Women in Science, 2021
- AHA Nominee for the High Blood Pressure Research Council of Australia's Annual Scientific Meeting, 2021
- Top #4 highly cited paper award by Vanderbilt VI4, 2022.
- Top #3 highly cited paper award by Vanderbilt VI4, 2022.
- 2024 Chancellor Faculty Fellow, Department of Medicine, Vanderbilt University

Invited Lectures at Vanderbilt

2012

1. Activation of T Cells by Dendritic Cells in Hypertension: A Potential Role of Isoketal-modified Proteins. Clinical Pharmacology Grand Rounds, Vanderbilt University School of Medicine, Nashville Tennessee. 2012

2013

2. Communication Skills in a Research Laboratory: Vanderbilt Summer Science Academy (VSSA), Vanderbilt University, School of Medicine, Nashville Tennessee. 2013

2015

3. Role of excess Salt in Mediating Lipid Oxidation Leading to Inflammation and Hypertension. Clinical Pharmacology Grand Rounds, Vanderbilt University School of Medicine. 2015
4. Pearls for Successful Grant Writing. Fellow's Conference. Division of Clinical Pharmacology, Vanderbilt University School of Medicine. 2015

2016

5. Excess Salt, Lipid Oxidation, Inflammation and Hypertension Clinical Pharmacology Grand Rounds, Vanderbilt University School of Medicine. 2016
6. A Novel Mechanism for Salt-induced Lipid Oxidation in Inflammation and Hypertension. Department of
a. Molecular Physiology and Biophysics, Vanderbilt University. 2016
7. Oxidative Lipid-modifications, Inflammation and Hypertension. Translational Research Forum, Vanderbilt University Medical Center. 2016
8. Effect of Excess Dietary Salt on the Gut Microbiome Leading to Hypertension. Departments of Biological Sciences and Pathology, Microbiology, and Immunology, Vanderbilt University. 2016
9. Oxidative Lipid Modifications, Inflammation and Hypertension. Show-casing Vanderbilt - VU EDGE Pre-VU event. 2016

2019

10. ENaC Regulation and its role in Immune Salt-Sensitivity and Salt-Sensitive Hypertension, Clinical
b. Pharmacology Fellows Seminar, Vanderbilt University Medical Center. 2019
11. Immune Salt-Sensitivity in Hypertension and Renal Inflammation: A role of Oxidative Lipid Modifications, Renal Research Conference, Vanderbilt University Medical Center. 2019
12. Lipid Peroxidation and the Gut Microbiome in Salt-Sensitivity and Cardiometabolic Disease. Vanderbilt Digestive Disease Research Center (VDDRC) Retreat Progenitor Cells, Development, Regeneration and pre-malignant lesions (PC). 2019
13. ENaC Regulation and its Role in Salt-induced Lipid Oxidation, Inflammation and Hypertension. Clinical
c. Pharmacology Grand Rounds, Vanderbilt University School of Medicine. 2019
14. Salty issues: The Roman Legion, epidemiology and inflammation. Medicine Grand Rounds, Vanderbilt
d. University School of Medicine. 2019

2021

15. Salt-sensitivity of Blood Pressure: A role of ENaC-mediated Oxidative Lipid Oxidation in Antigen Presenting Cells. Clinical Pharmacology Grand Rounds, Vanderbilt University School of Medicine. 2021
16. Immunity, Inflammation, and Salt-Sensitivity of Blood Pressure. The Vanderbilt Institute for Global Health Grand Rounds. 2021

2022

17. Myeloid Cell ENaC Regulation in Salt Sensitive Hypertension. Clinical Pharmacology Grand Rounds, Vanderbilt University School of Medicine. 2022
18. The Immunology of Salt-Sensitive Hypertension: A role for ENaC and Oxidative Lipid Modifications. Cardiology Grand Rounds, Vanderbilt University School of Medicine. 2022

2023

19. Using Social Media to Advance Your Career. Nelsen Society. Vanderbilt Medical Center Department of Medicine, February 2023.
20. Research Success through community engagement using Social Media. Pulmonary Division Trainee Research Success Seminar Series. Vanderbilt University Medical Center. March 2023.
21. Creating Community Through Story - from a village Ugandan girl child to human academic medicine research via veterinary medicine, Vanderbilt University Medical Center. September 2023.
22. Leveraging Adversity to Thrive in Academia: A Personal Journey and Lessons Learned while Building a Career in Cardiometabolic Inflammation. Nelsen Society. Vanderbilt Medical Center Department of Medicine, December 2023.
23. Renal and Extrarenal Mechanisms of Myeloid-Specific ENaC in Salt-Sensitive Hypertension. Renal Conference Research Seminar. Division of Nephrology, Vanderbilt University Medical Center. December 2023.

Invited Lectures at National Level

24. Symposium Speaker, Outstanding Graduate Student during the Interdisciplinary Program in Biomedical

2011

25. Sciences Ph.D. Interviews. The role of Jak2 in human diseases. University of Florida, Gainesville. 2011
26. Vascular smooth muscle Jak2 expression and the pathogenesis of cardiovascular disease, Georgia Health Sciences University. 2011
27. Vascular smooth muscle Jak2 expression and the pathogenesis of cardiovascular disease, University of Mississippi Medical Center. 2011
28. Vascular smooth muscle Jak2 expression and the pathogenesis of cardiovascular disease, Emory University. 2011
29. Vascular smooth muscle Jak2 expression and the pathogenesis of cardiovascular disease, Vanderbilt University School of Medicine, 2011

2012

30. Inflammation, Immunity and Hypertension, the 23rd Annual University of Alabama at Birmingham Vascular Biology and Hypertension Symposium. 2012

2017

31. A Novel Mechanism for Excess Dietary Salt-induced Lipid Peroxidation in Dendritic Cells leading to f. Inflammation and Hypertension. Meharry Medical College, 2017
32. Invited Guest Speaker for Women in Science. Pfeiffer University, North Carolina. 2017

2018

33. Hypertension and its links to Immunity in the Vasculature in Disease Session. Vasculata 2018, Washington University School of Medicine. St. Louis, Missouri, 2018
34. Lipid Peroxidation and Immune Salt-sensitivity in Hypertension, University of Mississippi Medical Center, 2018

2019

35. The SCOPE – from microscopes to the stethoscopes. A community outreach event to discussing gut health. Nashville Tennessee. 2019
36. Myeloid Cell ENaC Regulation and its role in Renal Inflammation and Salt-Sensitive Hypertension, University of Pittsburg Medical Center. 2019

2020

37. Dendritic cell ENaC Regulation and its Role in Sodium-induced Renal Inflammation and Hypertension, Emory University School of Medicine. 2020
38. Immune Salt-Sensing and Oxidative Protein Modifications in Hypertension and Kidney Disease. Tulane g. University, Department of Pharmacology, Tulane School of Medicine. 2020
39. Renal versus Immune cell Sodium Sensing in Hypertension and Kidney Damage. University of Kentucky, Department of Pharmacology and Nutritional Sciences. 2020
40. Inaugural Diversity Roundtable. University of Kentucky, Department of Pharmacology and Nutritional Sciences, 2020

2021

41. The role of ENaC in immunity and salt-sensitive hypertension. University of Utah, Division of Nephrology and Hypertension. 2021
42. Excess Dietary Salt in Inflammation, and Cardiovascular Disease, the 31st Annual University of Alabama at Birmingham Vascular, Biology and Hypertension Symposium. 2021
43. Myeloid Cell-specific ENaC and Salt-Sensitivity of Blood Pressure. University of Nebraska Medical Center. 2021
44. Unrecognized Anti-oxidant and Anti-inflammatory actions of ENaC Inhibition in Salt-Sensitive Hypertension. Tufts University, Immunology. 2021
45. The Gut Microbiome and Immunity in Salt-sensitive Hypertension. Baylor College of Medicine, Cardiovascular Research Institute, 2021

2022

46. Immune ENaC Regulation in Kidney Function and Salt Sensitive Hypertension. Columbia University, Renal Grand Rounds Lecture. Feb, 2022

47. ENaC-dependent Myeloid Cell activation in Salt-sensitive Hypertension and Kidney Disease. Washington University in St Louis. March, 2022
48. Dietary Sodium Loading/Depletion Effect on Antigen Presenting Cell Isolevuglandins in Humans with Salt-Sensitive, Salt-Resistant and Inverse Salt-Sensitive Hypertension. NIH NHLBI Cardiovascular Branch. March 2022.
49. Dendritic Cell ENaC in Inflammation, Salt-sensitive Hypertension and Kidney Damage. Boston University College of Medicine, Renal Section Grand Rounds. May 2022.
50. Excess Dietary Salt, Gut Microbiota and Immune Cell Activation Mechanisms in Hypertension. Johns Hopkins University School of Medicine, Microbiome Forum. June 2022
51. Renal-Immune Mechanisms of Salt-Sensitive Hypertension. Duke, Renal Grand Rounds. September 2022
52. Immune Cell ENaC and Lipid Peroxidation in Salt-sensitive Hypertension. Medical College of Wisconsin, Department of Physiology Seminar. November 2022

2023

53. Host-Microbial Interaction, ENaC and Immunity in Salt-Sensitivity of Blood Pressure: My Journey, Perspectives and Vision. University of Indiana, Department of Medicine, Division of Clinical Pharmacology. January 2023
54. Immunity and ENaC Regulation in Kidney Function and Salt-Sensitive Hypertension. The 2023 Fellow Choice Speaker hosted by the University of Alabama at Birmingham's Nephrology Research and Training Center (NRTC), PRedoctoral Interdisciplinary training in renal physiology and Medicine (PRIME) training program, and the Post-Doctoral T32: Interdisciplinary Training in Kidney-Related Research.
55. Immune Cell ENaC and Blood Pressure Regulation. University of Tennessee Health Science Center – Memphis, Tennessee. March 2023
56. Immune Mechanisms of Salt-Sensitivity of Blood Pressure. University of Florida, Center for Cardiometabolic Disease. March 2023
57. Host-Microbial Interaction, ENaC and Immunity in Salt-Sensitivity of Blood Pressure and Kidney Function. Wake Forest, Cardiovascular Sciences Center, Winston-Salem, NC. April 2023
58. The Immunology of Salt-Sensitive Hypertension: A role for Dendritic Cell ENaC. Department of Physiology, Medical College of Georgia, Augusta University. May 2023
59. Immune Mechanisms of Salt-Sensitive Hypertension: A role for ENaC. Tulane University, Physiology Seminar Series. May 2023
60. Hypertension and its links to immunity. Tulane University. VASCULATA 2023.
61. Immunity and Inflammation in Salt-Sensitive Hypertension. Mayo Clinic, Frontiers in Immunology Seminar Series. August 2023.

62. AHA Merit Award Phase II Reverse Site Visit - Targeting the Immune System in the treatment of Salt-sensitive Hypertension. Dallas, Texas. November 2023.

2024

63. Host-Microbiota Interaction and Myeloid-Specific ENaC Regulation in Salt-Sensitive Hypertension. Yale School of Medicine, New Haven CT, February 2024.
64. Immunity and Host-Microbiota Interaction in Salt-Sensitive Hypertension: A personal journey and lessons learned. Neural Gut Axis Symposium, Texas A&M. 2024
65. Immune Mechanisms of Sodium and Blood Pressure Regulation in Cardiovascular Disease. Frontiers in Cardiovascular Science, Stanford University, Stanford Cardiovascular Institute. 2024
66. Cardiovascular Undergraduate Research Initiative for Underrepresented Students (CURIOUS), Louisiana State University Health Sciences Center-Shreveport (LSUHSC-S. Shreveport, Louisiana. 2024
67. High salt, inflammation and cardiovascular disease. NIH-FDA IIG Translational Immunology Symposium - Environmental Triggers to Advanced Therapeutics, Bethesda, Maryland. 2024
68. The Immunology of Salt-sensitive Hypertension. Howard University. Washington, DC. September 2024.
2. Immune Mechanisms of Vascular Dysfunction in Salt-Sensitive Hypertension Vasoregulation: Signaling and Multicellular Inputs. Federation of American Societies of Experimental Biology (FASEB). Tucson, Arizona. 2024

Invited Lectures at International Level

2017

70. Invited Keynote Speaker, Oxidative Protein Modifications, Inflammation and Hypertension in Cellular
a. Mechanisms of Stress and Inflammation, Experimental Biology Conference, Chicago, Illinois, 2017
71. Invited Symposium Speaker, Isoketals: Inflammation and Hypertension, American Heart Association Scientific Sessions, Anaheim, California. 2017

2018

72. Invited Speaker, New Advances in Levuglandins and Isolevuglandins Symposium, 17th International Winter Eicosanoid Conference, Baltimore, Maryland. 2018

2019

73. Invited lecturer, Mechanisms of cardiovascular disease, with emphasis on hypertension. Cardiovascular
b. Disease Research in Zambia - Priorities, Programs and Progress UNZA Public Health Lecture Theatre Lusaka, Zambia, 2019

74. Invited lecturer, Immune mechanisms of salt-sensitive hypertension. Cardiovascular Disease Research in Zambia - Priorities, Programs and Progress UNZA Public Health Lecture Theatre Lusaka, Zambia - UNZA-Vanderbilt Training Partnership for HIV-Nutrition-Metabolic Research (UVP, D43TW009744, funded through 2020 and focused solely on building HIV/NCD research capacity with and at UNZA SOM), 2019

75. Invited Symposium Speaker, Dendritic Cell Activation by Oxidative Stress in Cardiovascular Disease, c. American Heart Association Scientific Sessions, Philadelphia, Pennsylvania. 2019

2020

76. AHA Harry Goldblatt Award for Early Career Investigators Lecture, American Heart Association, Scientific Sessions on Hypertension. 2020

77. Strategies for Work-Life Continuum: Panelist at American Society of Nephrology 2020 conference. Kidney Week. 2020

78. Journey to Becoming a Fellow of American Heart Association (FAHA). American Heart Association, Scientific Sessions. 2020

2021

79. Unique Challenges and Novel Strategies for Launching and Maintaining a Lab During a Global Pandemic. TAC CHAMP Session: American Heart Association, Scientific Sessions on Hypertension. 2021

80. Immune Modulation of Salt-sensitive Hypertension, in the Session “The Pressure Is On: Update on Mechanisms of Salt-Sensitive Hypertension” American Society of Nephrology 2021 conference. Kidney Week. 2021

81. Inflammation in Salt-sensitive Hypertension, in the Session “Inflammation: Too Much, Too Little, or Just Too Long?” American Heart Association, Scientific Sessions. 2021

82. Webinar for the Emerging Leaders Program (ELP), International Society of Nephrology (ISN) on Personal journey, work tips and leadership strategies in the cardio-renal co-morbidities space. 2021

83. Role of Oxidative Protein Modifications in Salt-Induced Hypertension and Kidney Disease. High Blood Pressure Research Council of Australia's Annual Scientific Meeting. 2021

84. Excess Dietary Salt, Gut Microbiota and Hypertension. Microbiome Symposium. High Blood Pressure Research Council of Australia's Annual Scientific Meeting. 2021

85. Women in Hypertension – Closing Remarks on Issues faced by Women in Hypertension. High Blood Pressure Research Council of Australia's Annual Scientific Meeting. 2021

2022

86. Immune Mechanisms of ENaC-mediated Lipid Oxidation in Salt-Sensitive Hypertension. Hudson Institute of Medical Research and Centre for Endocrinology and Metabolism, Monash University, Australia. 2022

87. Invited NIH NHLBI Workshop/Symposium Speaker on Diet Interventions and Inflammation: Impact of Excess Dietary Salt on the Gut Microbiota, leading to Dendritic Cell Activation, Oxidative Stress in Hypertension, Experimental Biology, ASBMB, Philadelphia, Pennsylvania. 2022
88. Invited Speaker - 2022 APS/ASN Control of Renal Function in Health and Disease conference. ENaC-dependent Activation of the NLRP3 Inflammasome in APCs Contributes to Salt-Sensitive Hypertension. Boar's Head Resort, Charlottesville, Virginia. 2022
89. Speaker at Trainee Mentoring Session - 2022 APS/ASN Control of Renal Function in Health and Disease conference. Personal Journey and Career Path in Academia. June 26–30, 2022, Boar's Head Resort, Charlottesville, Virginia.
90. Invited speaker of the NCCR TransCure Final Conference, August 2022 at University of Bern, Switzerland (<https://www.nccr-transcure.ch/events/final-conference>)
91. Invited Speaker: Session Title: State of the Art Update on Salt and Hypertension. Talk Title: Salt Sensitivity: New Evidence and Gaps – American Heart Association 2022 Scientific Sessions, Chicago
92. Black in Cardio panel discussion on Being a Scientists in the Social Media Era - American Heart Association 2022 Scientific Sessions, Chicago
93. Panel Discussion for Circulation Research Highlights and Initiatives – American Heart Association 2022 Scientific Sessions, Chicago
94. Angiotensin II Gordon Conference, Ventura Beach California 2022 – Discussion Panel for Women Power House

2023

95. Immune ENaC in Salt-Sensitive Hypertension. School of Cardiovascular and Metabolic Health British Heart Foundation Glasgow Cardiovascular Research Centre. Glasgow University, Scotland, UK. March 2023.
96. Immune System in Salt Balance and Hypertension Session Title: New Physiology of Salt Balance. APS Summit Long Beach California, 2023.
97. Panel Discussion for Session Title: Sex Differences in Cardiovascular Disease. APS Summit Long Beach California, 2023.
98. Hypertension International Collaboration and NIH Funding Support in Sub-Saharan Africa. Hypertension in Africa Research Team (HART) – South Africa.
99. Invited Speaker - ENaC-Dependent Inflammasomes in Hypertension. American Society of Nephrology (ASN) Kidney Week, 2023, Philadelphia.
100. Invited Speaker – Pecha Kucha, Learn novel discoveries in Hypertension. Is Inflammation a link between high Salt-Sensitivity & Hypertension? American Heart Association Scientific Sessions, Philadelphia. 2023
101. Angiotensin II Gordon Conference, Renaissance Tuscany Il Ciocco Lucca (Barga), Lucca, Italy 2024 – Immune Renin Angiotensin Aldosterone System in Salt-Sensitive Hypertension.

102. Invited Speaker - Salt and hypertension: What's new? Hypertension Australia Winter School 2024, Parkroyal Darling Harbour, Sydney, Australia. 2024
103. Invited Speaker - The Salty Truth: How Salt Triggers Inflammation and High Blood Pressure. International Society of Hypertension. Cartagena, Colombia. 2024.

RESEARCH PROGRAM FUNDING

Current Research Support

ACTIVE

1. **5R01HL147818-22** (Kleyman, Kirabo **MPI**) 04/01/2019 – 03/31/2023 (**NCE**) 2.76 calendar months
National Heart, Lung, and Blood Institute \$3,085,234
ENaC regulation and its role in blood pressure homeostasis
Dr. Kirabo will be responsible for the overall administration and development of the proposed studies in Aim 1 including analysis/interpretation of the results, and publication of the findings in form of presentations at national meetings and in manuscripts
2. **1R01HL144941-01A1** (Kirabo, **PI**) 04/01/2021 - 03/31/2026 3.00 calendar months
NHLBI \$3,014,350
Immune Mechanisms of Salt-Sensitive Hypertension
High salt consumption in the Western diet leads to inflammation and cardiovascular disease but the mechanisms are not known. A major problem with excess dietary intake is salt sensitivity of blood pressure, which is an increase or decrease in blood pressure when salt intake increases or decreases respectively, and is an independent predictor of death due to cardiovascular disease. Our proposed studies to determine the interplay between immune cell activation and tissue sodium accumulation in contributing to salt sensitivity of blood pressure may lead to better diagnosis and treatment of this important risk factor.
3. **1R01HL157584-01** (Shibao, Kirabo - **MPI**) 04/01/2021 – 03/31/2026 3.60 calendar months
NHLBI \$3,041,495
Enhancing parasympathetic activity to reduce vascular oxidative stress and endothelial dysfunction
4. **R01DK135764** (Kon, Shelton, Kirabo -**MPI**) 06/01/2023 - 05/31/2028. *Salt Mediated Cross Talk Between Lymphatic Vessels and Immune Cells in Kidney Disease*
5. **R21TW012635** (Kirabo, Masenga – **MPI**) 07/01/2023 - 06/30/2025
Salt taste sensitivity, genetics and salt sensitivity of blood pressure in HIV
6. **VUMC95340(D43TW009744) Sub w/ Uni of Zambia** (Heimbürger, Kirabo - **subcontract PI**) 04/01/2021 – 03/31/2026 1.20 calendar months
John E Fogarty International Center \$851,685
UNZA-Vanderbilt Training Partnership for HIV-NCD Research (UVP-2)
7. **VU Chancellors Fellow** 2024-2026 \$80,000

Completed Research Support

1R03HL155041-01 (Kirabo, PI) 09/01/2020 – 08/31/2022 0.12 calendar months
 NHLBI \$173,000
Deep phenotypic and functional characterization of salt-responsive immune cells in human salt sensitive hypertension using ECTE-Seq
 Excess dietary salt contributes to inflammation and aggravates cardiovascular disease. A major problem with excess salt consumption is that 50% of the hypertensive and 25% of the normotensive population exhibits salt-sensitivity of blood pressure which is an independent predictor of death due to cardiovascular disease. Proposed studies will determine if immune cell activation correlates with salt-sensitivity of blood pressure and may lead to more targeted diagnosis and therapy for salt-induced hypertension.

1K01HL130497-01 (Kirabo, PI) 12/01/2015 - 11/30/2021, 11.76 calendar months
 National Heart, Lung, and Blood Institute \$763,189
 Role of Salt, Isoketal-modified Proteins and Dendritic Cells in Hypertension

Pilot Vanderbilt Institute for Clinical and Translational Research (PI) 2019 – 2021,
 (\$75,360)
 Salt-Sensitivity and Immunity Cell Activation

Venture Pilot Funding (PI) Vanderbilt Microbiome Initiative (VMI) and Vanderbilt Institute for Infection, Immunology, and Inflammation (VI4) 08/24/2017 – 03/01/2018

13POST14440041 (PI) 01/01/2013-12/31/2014
 Effect of hypertension on dendritic cells and a potential role of isoketals
 Greater Southeast Affiliate American Heart Association (AHA) Post-Doctoral Fellowship.

5P01 GM015431-48 (Co-investigator) 09/30/2011 - 06/30/2016
 NIH/NIGMS. Research Center for Pharmacology and Drug Toxicology

5R01HL039006-26 (Co-investigator) 02/01/2013 – 01/31/2018
 NHLBI. Immunity, Inflammation and Hypertension

14SFRN20420046 (Co-investigator) 07/01/2014 - 06/30/2018 (no cost extension to 2019), American Heart Association, Vanderbilt University Strategically Focused Prevention Research Center

1R01HL125865-01 (Co-investigator) 07/01/2015 - 06/30/2020
 National Heart, Lung, and Blood Institute. The role of T cells in the genesis of hypertension

Student Research Award (PI) 2005-2006
 St. Cloud State University, St. Cloud, Minnesota. To understand the mechanistic link between obesity and reproduction.

Medical Guild Research Incentive Award (PI) 2009–2010
 University of Florida, College of Medicine. To determine the role of Jak2 signaling in cardiovascular disease.

10PRE4310065 (PI) 07/01/2010-08/15/2011
 Jak2 and Cardiovascular Disease
 Greater Southeast Affiliate American Heart Association (AHA) Pre Doctoral Fellowship: to determine the specific involvement of vascular smooth muscle cell expression of Jak2 in the pathogenesis of cardiovascular disease.

PENDING

1R01DK134399-01 (Hasty, Kirabo – mPI) 09/01/2023 - 08/31/2028
Antigen Presentation and Activation of Adaptive Immune Memory in Weight Cycling

R01HL147818 (Kleyman, Kirabo – mPI) 05/01/1996 - 03/31/2028
ENaC regulation and its role in blood pressure homeostasis – Renewal

PPG – Autoimmunity and Cardiovascular Disease (Harrison PI, Kirabo – Project Lead)

T32- HL144446 Vanderbilt Hypertension and Blood Pressure Regulation (VHBPR) training program (Kirabo, Harison mPI) – **Impact Score 38**

R35 – Immune Mechanisms of Salt-Sensitive Hypertension in HIV

ARTICLES IN PEER-REVIEWED JOURNALS (*Corresponding Author)

Research Manuscripts

1. McDoom I, Ma X, **Kirabo A**, Lee KY, Ostrov DA, and Sayeski PP. Identification of Tyrosine 972 as a Novel Site of Jak2 Tyrosine Kinase Phosphorylation and its Role in Jak2 Activation. *Biochemistry* 47:8326–8334, 2008 Jul. PMCID: PMC3636534
2. Kiss R, Polgár T, **Kirabo A**, Sayyah J, Figueroa NC, List AF, Sokol L, Zuckerman KS, Gali M, Bisht KS, Sayeski PP, Keserű GM. Identification of a novel inhibitor of JAK2 tyrosine kinase by structure-based virtual screening. *Bioorg Med Chem Lett*. 2009 May. PMCID: PMC2812898.
3. **Kirabo A**, Park SO, Majumder A, Gali M, Reinhard MK, Wamsley HL, Zhao ZJ, Cogle CR, Bisht KS, Keserű GM, Sayeski PP. The Jak2 Inhibitor, G6, Alleviates Jak2-V617F-Mediated Myeloproliferative Neoplasia by Providing Significant Therapeutic Efficacy to the Bone Marrow. *Neoplasia*. 2011 Nov;13(11):1058-68. PMCID: PMC3223609.
4. **Kirabo A**, Kearns PN, Jarajapu YP, Sasser JM, Oh SP, Grant MB, Kasahara H, Cardounel AJ, Baylis C, Wagner KU, and Sayeski PP. Smooth Muscle Jak2 Tyrosine Kinase Mediates Angiotensin II-induced Hypertension by Increasing the Levels of Reactive Oxygen Species. *Cardiovasc Res*. 2011 Jul 1;91(1):171-9. Epub 2011 Feb. PMCID: PMC3112021.
5. **Kirabo A**, Oh SP, Kasahara H, Wagner KU and Sayeski PP. Vascular Smooth Muscle Jak2 Deletion Prevents Angiotensin II-mediated Neointima Formation Following Injury in Mice. *J Mol Cell Cardiol*. 2011 Jun. PMCID: PMC3092026.
6. **Kirabo A**, Embury J, Kiss R, Polgár T, Gali M, Majumder A, Bisht KS, Cogle CR, Keserű GM, and Sayeski PP. The Jak2 tyrosine kinase inhibitor, G6, suppresses Jak2-V617F mediated human pathological cell growth. *J Biol Chem* 286(6):4280-91, 2011 Feb. PMCID: PMC3039371.
7. Majumder A, Magis AT, Park SO, Figueroa NC, Baskin R, **Kirabo A**, Allan RW, Zhao ZJ, Bisht KS, Keserű GM, Sayeski PP. A46, a benzothiophene-derived compound, suppresses Jak2-mediated pathologic cell growth. *Exp Hematol*. 2012 Jan;40(1):22-34. Epub 2011 Oct. PMCID: PMC3237899.
8. Majumder A, **Kirabo A**, Karrupiah K, Tsuda S, Caldwell-Busby J, Cardounel AJ, Keserű GM, Sayeski PP. Cell death induced by the Jak2 inhibitor, G6, correlates with cleavage of vimentin filaments. *Biochemistry*. 2011 Sep 13;50(36):7774-86. Epub 2011 Aug. PMCID: PMC3168676.
9. **Kirabo A**, Park S, Majumder A, Kiss R, Polgár T, Gali M, Bisht KS, Cogle CR, Keserű GM, and Sayeski PP. The Small Molecule Inhibitor, G6, Significantly Reduces Bone Marrow Fibrosis and the Mutant

Burden in a Mouse Model of Jak2-mediated Myelofibrosis. *Am J Pathol*. 2012 Jul. PMCID: PMC3432437.

10. Wu J, Thabet SR, **Kirabo A**, Trott DW, Saleh MA, Xiao L, Madhur MS, Chen W, Harrison DG. Inflammation and mechanical stretch promote aortic stiffening in hypertension through activation of p38 mitogen-activated protein kinase. *Circ Res*. 2014 Feb. PMCID: PMC4186716.
11. Jin X, Zhao W, **Kirabo A**, Park SO, Ho WT, Sayeski PP, Zhao ZJ. Elevated Levels of Mast Cells Are Involved in Pruritus Associated with Polycythemia Vera in JAK2V617F Transgenic Mice. *The Journal of Immunology*. 2014 Jul. PMID: 24920845.
12. **Kirabo A**, Fontana V, de Faria AP, Loperena R, Galindo CL, Wu J, Bikineyeva AT, Dikalov S, Xiao L, Chen W, Saleh MA, Trott DW, Itani HA, Vinh A, Amarnath V, Amarnath K, Guzik TJ, Bernstein KE, Shen XZ, Shyr Y, Chen SC, Mernaugh RL, Laffer CL, Eljovich F, Davies SS, Moreno H, Madhur MS, Roberts J 2nd, Harrison DG. DC isoketal-modified proteins activate T cells and promote hypertension. *Journal of Clinical Investigation*. 2014 Oct. PMCID: PMC4220659. **Highlighted in Editorial PMCID: PMC4191001**
13. Trott DW, Thabet SR, **Kirabo A**, Saleh MA, Itani H, Norlander AE, Wu J, Goldstein A, Arendshorst WJ, Madhur MS, Chen W, Li CI, Shyr Y, Harrison DG. Oligoclonal CD8+ T cells play a critical role in the development of hypertension. *Hypertension*. 2014 Nov. PMCID: PMC4191997.
14. Kamat NV, Thabet SR, Xiao L, Saleh MA, **Kirabo A**, Madhur MS, Delpire E, Harrison DG, McDonough AA. Renal transporter activation during angiotensin II hypertension is blunted in IFN- γ -/- and IL-17A-/- mice. *Hypertension*. 2015 Jan. PMCID: PMC4326622.
15. Saleh MA, McMaster WG, Wu J, Norlander AE, Funt SA, Thabet SR, **Kirabo A**, Xiao L, Chen W, Itani HA, Michell D, Huan T, Zhang Y, Takaki S, Titze J, Levy D, Harrison DG, Madhur MS. Lymphocyte adaptor protein LNK deficiency exacerbates hypertension and end-organ inflammation. *Journal of Clinical Investigation*. 2015 Feb. PMCID: PMC4362266.
16. Xiao L, **Kirabo A**, Wu J, Saleh MA, Zhu L, Wang F, Takahashi T, Loperena R, Foss JD, Mernaugh RL, Chen W, Roberts J 2nd, Osborn JW, Itani HA, Harrison DG. Renal Denervation Prevents Immune Cell Activation and Renal Inflammation in Hypertension. *Circ Res*. 2015 Aug. PMCID: PMC4629828.
17. Wu J, Saleh MA, **Kirabo A**, Itani HA, Montaniel KR, Xiao L, Chen W, Mernaugh RL, Cai H, Bernstein KE, Goronzy JJ, Weyand CM, Curci JA, Barbaro NR, Moreno H, Davies SS, Roberts LJ 2nd, Madhur MS, Harrison DG. Immune activation caused by vascular oxidation promotes fibrosis and hypertension. *Journal of Clinical Investigation*. 2015 Nov. PMCID: PMC4701546.
18. Itani HA, Xiao L, Saleh MA, Wu J, Pilkinton MA, Dale BL, Barbaro NR, Foss JD, **Kirabo A**, Montaniel KR, Norlander AE, Chen W, Sato R, Navar LG, Mallal SA, Madhur MS, Bernstein KE, Harrison DG. CD70 Exacerbates Blood Pressure Elevation and Renal Damage in Response to Repeated Hypertensive Stimuli. *Circ Res*. 2016 Mar. PMID:26988069
19. **Kirabo A**, Ryzhov S, Gupte M, Sengsayadeth S, Gumina RJ, Sawyer DB, Galindo CL. Neuregulin-1 β induces proliferation, survival and paracrine signaling in normal human cardiac ventricular fibroblasts. *J Mol Cell Cardiol*. 2017 April. PMID:28263756
20. Barbaro NR, Foss JD, Kryshital DO, Tsyba N, Kumaresan S, Xiao L, Mernaugh RL, Itani HA, Chen W, Dikalov S, Titze JM, Knollmann BC, Harrison DG, and **Kirabo A***. Dendritic cell amiloride sensitive

channels mediate sodium-induced inflammation and hypertension. *Cell Rep.* 2017 Oct. PMID:PMC5674815. **Recognized among Top 4 highly cited papers by V14.** **Role:** *I am the senior and corresponding author of this manuscript. I was actively involved in designing the experiments, analyzing the data, writing the manuscript, and funding this project. I supervised the first author, Natalia Barbaro, who was a post-doctoral fellow in my lab.*

21. McDonnell WJ, Koethe JR, Mallal SA, Pilkinton MA, **Kirabo A**, Ameka MK, Cottam MA, Hasty AH, Kennedy AJ. High CD8 T Cell Receptor Clonality and Altered CDR3 Properties are Associated with Elevated Isolevuglandins in Adipose Tissue During Diet-Induced Obesity. *Diabetes*. 2018 Sep 4. pii: db180040. doi: 10.2337/db18-0040. PMID:30181158
22. Van Beusecum JP, Xiao L, Barbaro NR, Patrick DP, and **Kirabo A***. Isolation and Adoptive Transfer of High Salt Treated Antigen-Presenting Dendritic Cells. 2019. *J Vis Exp*. 2019 Mar 5;(145). doi: 10.3791/59124. PMID:30907877
23. Ferguson JF, Aden LA, Barbaro NR, Van Beusecum JP, Xiao L, Simmons AJ, Warden C, Pasic L, Himmel LE, Washington MK, Revetta FL, Zhao S, Kumaresan S, Scholz MB, Tang Z, Chen G, Reilly MP, and **Kirabo A***. High dietary salt-induced dendritic cell activation underlies microbial dysbiosis-associated hypertension. *JCI Insight*. 2019 Jun 4;5. pii: 126241. doi: 10.1172/jci.insight.126241. PMID: 31162138. **Featured on issue cover.** <https://insight.jci.org/posts/138>. **Role:** *I am the senior and corresponding author of this manuscript. I was actively involved in designing the experiments, analyzing the data, writing the manuscript, and funding this project.*
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Patents:

Methods for Treating Inflammation and Hypertension with Gamma-Ketoaldehyde Scavengers
U.S. Patent # 14/232,615

Multimedia:

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