

CURRICULUM VITAE

Annet Kirabo, D.V.M., M.Sc., Ph.D.

Office Address: Division of Clinical Pharmacology
Vanderbilt University School of Medicine
P415C Medical Research Building IV
Nashville Tennessee, 37232-6602

Office Phone Number: 615-343-0933

EDUCATION

- 1997-2002: Degree in Veterinary Medicine (D.V.M.), Makerere University, School of Veterinary Medicine, Kampala, Uganda
Mentor: Dr. Ojok Lonzy.
Dissertation Title: Prevalence of Johne's Disease in Uganda
- 2003-2004: Global Cow Veterinary Fellowship, California Polytechnic University, San Luis Obispo, California,
- 2004-2006: Master of Science (M.Sc.) in Cell and Molecular Biology, St. Cloud State University, St. Cloud, Minnesota
Mentor: Dr. Oladele Gazal.
Thesis Title: Leptin and N-methyl-D-aspartate (NMDA) Receptor Activation, as a Mechanistic link between Nutrition and Reproduction in Rats.
- 2007-2011: Doctor of Philosophy (Ph.D.) in Physiology and Functional Genomics. University of Florida, Gainesville, Florida
Mentor: Dr. Peter Sayeski.
Dissertation Title: Jak2 Tyrosine Kinase as a Potential new Target in the Treatment of Cancer and Cardiovascular Disease.
- 2011-2014: Post-Doctoral Fellowship in Cardiovascular Disease and Inflammation, Vanderbilt University School of Medicine, Nashville, Tennessee.
Mentor: Dr. David G. Harrison

Professional Training

- 2009: Professional Skills Training Workshop: Presentation Skills, American Physiological Society, Orlando, Florida
- 2009: Professional Skills ONLINE Training: Writing and Reviewing for Scientific Journals, American Physiological Society
- 2015: EQ + IQ = Career Success, ASPIRE Module, Vanderbilt University School of Medicine

ACADEMIC APPOINTMENTS

- 2015-2016: Research Instructor in Medicine, Vanderbilt University School of Medicine, Nashville, TN
- 2016: Assistant Professor of Medicine, Vanderbilt University School of Medicine, Nashville, TN

EMPLOYMENT

- 2000-2002: Undergraduate Student Researcher, Department of Pathology, School of Veterinary Medicine, Makerere University, Kampala, Uganda.
- 2004-2006: Graduate Research Assistant, Laboratory of Reproductive Physiology and Endocrinology, Department of Biological Sciences, St. Cloud State University, St. Cloud, Minnesota.
- 2007-2011: Graduate Research Assistant, Department of Physiology and Functional Genomics, University of Florida College of Medicine, Gainesville, Florida.
- 2011-2014: Post-Doctoral Research Fellow, Vanderbilt University School of Medicine, Nashville, TN

PROFESSIONAL ORGANIZATIONS:

- 2009-present: American Physiological Society. Member
- 2009-present: American Heart Association. Member
- 2011-present: North America Vascular Biology Organization. Member
- 2012-present: Faculty 1000. Associate Faculty Member

PROFESSIONAL ACTIVITIES:**Reviewing**

- 2009-2010: Judge, Alachua County Schools Science Fair, Gainesville, Florida.
- 2010-2011: Medical Guild Research Incentive Award Reviewer – University of Florida, College of Medicine.
- 2012-Present: F1000 Associate Faculty Reviewer. Division of Clinical Pharmacology, Vanderbilt University, Nashville, Tennessee.
- 2012-Present: Vanderbilt Summer Science Academy Poster Judging, Vanderbilt University, Nashville, Tennessee
- 2012: The 23rd Annual University of Alabama at Birmingham Vascular Biology and Hypertension Symposium - Poster Judging.
- 2014-present: Ad hoc reviewer for African Journal of Pharmacy and Pharmacology.
- 2016: The 60th Annual Meharry Medical College Research Symposium - Poster Judging.
- 2016 Ad hoc reviewer for American Heart Association

Leadership

- 2000-2002: Class of 2002 Representative, School of Veterinary Medicine, Makerere University, Kampala, Uganda.
- 2009-2010: Student Government Senate Representative for Graduate Family Housing, University of Florida, Gainesville, Florida.
- 2009-2010: Discussion Group Coordinator, Fundamentals of Physiology & Functional Genomics (GMS 6008), Interdisciplinary Program in Biomedical Sciences, University of Florida, Gainesville, Florida.
- 2009-2010: CO-Leader in the Student Science Training Program (SSTP), Physiology and Disease, University of Florida, Gainesville, Florida.
- 2009-2010: Physiology and Pharmacology Representative, Graduate Students Organization (GSO), Interdisciplinary Program in Biomedical Sciences, University of Florida, Gainesville, Florida.
- 2011-2013: Division of Clinical Pharmacology Department Representative, Post-Doctoral Association, Vanderbilt University, Nashville, TN
- 2012-2013: Junior Co-Chair, Vanderbilt University Medical Center Post-Doctoral Association, Vanderbilt University, Nashville, TN
- 2016: Chair, American Physiology Society Translation Physiology Group Awards Committee

Mentoring

- 2005-2006: Student Mentor, Scientific Discovery Program for Minority High School Students, St. Cloud State University, St. Cloud, Minnesota.
- 2011: University of Florida Summer Research Students Mentor
- 2012: Mentor of Minority Travel Fellowship - American Physiology Society and the National Institute of Diabetes and Digestive and Kidney Diseases (APS/NIDDK).
- 2012 -2013: Experimental Biology 2012 Tour Guide for High School Students.
- 2013: Vanderbilt Summer Science Academy (VSSA) mentor, Vanderbilt University, School of Medicine, Nashville Tennessee.
- 2013-2014: Mentor in the NeXXt Scholars Program conducted by The New York Academy of Sciences

Teaching

- 2004-2006: Graduate Teaching Assistant, Anatomy and Physiology, Department of Biological Sciences, St. Cloud State University, St. Cloud, Minnesota.
- 2006-2007: Graduate Teaching Assistant, Physiology of Reproduction, Department of Animal Sciences, Texas A&M University, College Station, Texas.

- 2009-2010: 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.
- 2010-2011: Graduate Teaching Assistant, Interdisciplinary Program in Biomedical Sciences, University of Florida, Gainesville, Florida.
- 2013: Career Development Teaching Fellow for Vanderbilt Summer Science Academy Vanderbilt University, School of Medicine, Nashville Tennessee.
- 2012-present: Teaching of graduate students and postdocs in the laboratory

Honors & Awards

- 1997-2002: 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, Iganga Secondary School, Iganga, 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: Dean's list Award, School of Veterinary Medicine, Makerere University, Kampala, Uganda.
- 2002: Degree in Veterinary Medicine with Honors.
- 2006: Best Poster Award, Honorable Mention, Students' Research Colloquium, St. Cloud State University.
- 2009: Travel Fellowship Award - American Physiological Society, Professional Skills Training Workshop, Orlando, Florida.
- 2009: Selected to participate in the Professional Skills ONLINE Training: Writing and Reviewing for Scientific Journals, American Physiological Society.
- 2011: International Honorary for Leaders in University Apartment Communities (IHLUAC). University of Florida and Department of Housing and Residence Education.
- 2010: Pre-Doctoral Caroline tum Suden/Francis Hellebrandt and Steven M. Horvath Professional Opportunity Award, American Physiological Society.
- 2011: American Physiology Society and the National Institute of Diabetes and Digestive and Kidney Diseases (APS/NIDDK) Minority Travel Fellowship Award.

- 2012: American Physiology Society and the National Institute of Diabetes and Digestive and Kidney Diseases (APS/NIDDK) Minority Travel Fellowship Award.
- 2013: Post-Doctoral Caroline tum Suden/Francis Hellebrandt and Steven M. Horvath Professional Opportunity Award, American Physiological Society.
- 2013: American Physiology Society Travel Fellowship Award.
- 2014: Best Poster Award, American Heart Association.

Committees at Vanderbilt

- 2012: Vanderbilt University Post-Doctoral Association Symposium Organizing Committee.
- 2012-present: Vanderbilt University Women on Track.
- 2014: Vanderbilt University Women in Science.
- 2014: Vanderbilt University Career Symposium Organizing Committee.
- 2015 - present: Vanderbilt University Diversity and Inclusion.
- 2015 – present: Vanderbilt University Newman’s Society

Committees at National Level

- 2013-2016: American Physiology Society (APS) Cardiovascular Section Trainee Committee
- 2016: American Physiology Society Translation Physiology Group Awards Committee

Invited Lectures at Vanderbilt

- 2012: 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.
- 2013: Communication Skills in a Research Laboratory: Vanderbilt Summer Science Academy (VSSA), Vanderbilt University, School of Medicine, Nashville Tennessee.
- 2015: Role of excess Salt in Mediating Lipid Oxidation Leading to Inflammation and Hypertension. Clinical Pharmacology Grand Rounds, Vanderbilt University School of Medicine.
- 2015: Pearls for Successful Grant Writing. Fellow’s Conference. Division of Clinical Pharmacology, Vanderbilt University School of Medicine
- 2016: Excess Salt, Lipid Oxidation, Inflammation and Hypertension Clinical Pharmacology Grand Rounds, Vanderbilt University School of Medicine.
- 2016: The K Word – Developing a successful career development award. Fellow’s Conference. Division of Clinical Pharmacology, Vanderbilt University School of Medicine

2016: A Novel Mechanism for Salt-induced Lipid Oxidation in Inflammation and Hypertension. Department of Molecular Physiology and Biophysics, Vanderbilt University.

Invited Lectures at National Level

2010: Deletion of Jak2 tyrosine kinase within vascular smooth muscle cells attenuates angiotensin II-induced hypertension in mice due to reduced levels of reactive oxygen species. American Heart Association High Blood Pressure Research Scientific Sessions - Washington, D.C.

2011: Symposium Speaker, Outstanding Graduate Student during the Interdisciplinary Program in Biomedical Sciences Ph.D. Interviews. The role of Jak2 in human diseases. University of Florida, Gainesville.

2011: Vascular smooth muscle Jak2 expression and the pathogenesis of cardiovascular disease, Georgia Health Sciences University.

2011: Vascular smooth muscle Jak2 expression and the pathogenesis of cardiovascular disease, University of Mississippi Medical Center.

2011: Vascular smooth muscle Jak2 expression and the pathogenesis of cardiovascular disease, Emory University.

2011: Vascular smooth muscle Jak2 expression and the pathogenesis of cardiovascular disease, Vanderbilt University School of Medicine

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

2015: High Salt Activates Immune Cells to Promote Hypertension. AHA High Blood Pressure Research Scientific Sessions, Washington, D.C.

RESEARCH PROGRAM

Current Research Support

1K01HL130497-01 (Kirabo) 12/01/2015 - 11/30/2020, 11.76 calendar months
National Heart, Lung, and Blood Institute
Role of Salt, Isoketal-modified Proteins and Dendritic Cells in Hypertension

Completed Research Support

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

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

10PRE4310065 (Kirabo) 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.

13POST14440041 (Kirabo) 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.

Trainees in the laboratory

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| 2016: | Natalia R. Barbaro, BPharm., PhD | Post-doctoral Research Fellow |
| 2016: | Kala Dixon, MSc | Summer Research Intern |
| 2016: | Shivani Kumaresan | High School Summer Research Intern |
| 2016: | Anica Mohammadkhan | High School Summer Research Intern |

ARTICLES IN PEER-REVIEWED JOURNALS

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. PMID: PMC3636534
2. Kiss R, Polgár T, **Kirabo A**, Sayyah J, Figueroa NC, List AF, Sokol L, Zuckerman KS, Gali M, Bisht KS, Sayeski PP, Keserü GM. Identification of a novel inhibitor of JAK2 tyrosine kinase by structure-based virtual screening. *Bioorg Med Chem Lett*. 2009 May. PMID: PMC2812898.
3. **Kirabo A**, Park SO, Majumder A, Gali M, Reinhard MK, Wamsley HL, Zhao ZJ, Cogle CR, Bisht KS, Keserü 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. PMID: PMC3223609.
4. **Kirabo A** and Sayeski PP. Jak2 Tyrosine Kinase: A Potential Therapeutic Target for AT1 Receptor Mediated Cardiovascular Disease. *Pharmaceuticals* 3(11), 3478-3493, 2010. doi:10.3390/ph3113478 Free Article is Available.
5. **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. PMID: PMC3112021.
6. **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. PMID: PMC3092026.
7. **Kirabo A**, Embury J, Kiss R, Polgár T, Gali M, Majumder A, Bisht KS, Cogle CR, Keserü 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. PMID: PMC3039371.
8. Majumder A, Magis AT, Park SO, Figueroa NC, Baskin R, **Kirabo A**, Allan RW, Zhao ZJ, Bisht KS, Keserü 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. PMID: PMC3237899.

9. Majumder A, **Kirabo A**, Karrupiah K, Tsuda S, Caldwell-Busby J, Cardounel AJ, Keseru 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. PMID: PMC3168676.
10. **Kirabo A**, Park S, Majumder A, Kiss R, Polgár T, Gali M, Bisht KS, Cogle CR, Keserü 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. PMID: PMC3432437.
11. 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. PMID: PMC4186716.
12. 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.
13. **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, Elijovich 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 (JCI)*. 2014 Oct. PMID: PMC4220659.
14. 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. PMID: PMC4191997.
15. 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. PMID: PMC4326622.
16. 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 (JCI)*. 2015 Feb. PMID: PMC4362266.
17. McMaster WG, **Kirabo A**, Madhur MS, Harrison DG. Inflammation, Immunity, and Hypertensive End-Organ Damage. *Circ Res*. 2015 Mar. PMID: PMC4535695.
18. 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. PMID: PMC4629828.
19. 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 (JCI)*. 2015 Nov. PMID: PMC4701546.
20. 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

BOOK CHAPTERS

1. **Annet Kirabo** and David G. Harrison. Hypertension as a risk factor for atherosclerosis. *In Atherosclerosis: Risks, Mechanisms, and Therapies*, John Wiley & Sons Publishers, 2015, pp. 63-75.

ABSTRACTS AND PRESENTATIONS

1. **Annet Kirabo**, Jennifer Embury and Peter P. Sayeski. G6, a novel small molecule inhibitor that suppresses JAK2-dependent erythroleukemia" - Graduate Student Council Spring Forum - Interdisciplinary Research Conference, 2009, University of Florida, Gainesville, Florida.
2. **Annet Kirabo**, Jennifer Embury and Peter P. Sayeski. G6, A Novel Small Molecule That has Therapeutic Efficacy in a Jak2-Dependent Human Erythroleukemia Murine Model". Medical Guild Research Day, 2009, University of Florida, Gainesville Florida. *Oral.
3. **Annet Kirabo**, Kearns P, Sasser J, Cardounel AJ, Kasahara H, Baylis C, Wagner KU and Sayeski PP. Deletion of Jak2 tyrosine kinase within vascular smooth muscle cells attenuates angiotensin II induced hypertension in mice. Medical Guild Research Day, 2010, University of Florida, Gainesville Florida.
4. **Annet Kirabo**, Patrick Kearns, Jennifer Sasser, Arturo J Cardounel, Chris Baylis, Kay-Uwe Wagner, Peter P Sayeski. Deletion of Jak2 Tyrosine Kinase within Vascular Smooth Muscle Cells Attenuates Angiotensin II induced Hypertension in Mice. *The FASEB Journal* 24 (1_MeetingAbstracts), 603.13, 2010.
5. **Annet Kirabo**, Kearns P, Sasser J, Cardounel AJ, Kasahara H, Baylis C, Wagner KU and Sayeski PP. Deletion of Jak2 tyrosine kinase within vascular smooth muscle cells attenuates angiotensin II induced hypertension in mice due to reduced levels of reactive oxygen species. American Heart Association High Blood Pressure Research Scientific Sessions, 2010, Washington, D.C. *Oral.
6. **Annet Kirabo**, S Paul Oh, Hideko Kasahara, Kay-Uwe Wagner, Peter P Sayeski. Deletion of Vascular Smooth Muscle Jak2 Prevents Angiotensin II-induced Neointima Formation Following Vascular Injury in Mice. *The FASEB Journal* 25 (1_MeetingAbstracts), 641.3, 2011.
7. Anurima Majumder, **Annet Kirabo**, Kanchana Karrupiah, Shigeharu Tsuda, Jennifer Caldwell-Busby, Arturo J Cardounel, Peter P Sayeski. G6-mediated inhibition of Jak2 tyrosine kinase correlates with the cleavage and cellular reorganization of vimentin. *Cancer Research* 71 (8 Supplement), 5127, 2011.
8. Sayeski, Peter P., **Annet Kirabo**, Sung Park, Meghanath Gali, Mary Reinhard, Heather L. Wamsley, Zhizhuang Joe Zhao, Kirpal S. Bisht, Christopher R. Cogle, and Gyorgy M. Keseru. "The Jak2 Kinase Inhibitor, G6, Reduces the Mutant Burden and Reverses Marrow Fibrosis in a Mouse Model of Jak2-V617F Mediated PMF." *In BLOOD*, vol. 118, no. 21. AMER SOC HEMATOLOGY, 2011.
9. **Annet Kirabo**, Oh SP, Kasahara H, Wagner KU and Sayeski PP. Vascular Smooth Muscle Jak2 Deletion Prevents Angiotensin II-mediated Neointima Formation Following Injury in Mice. *Experimental Biology* 2011, Washington, D.C.
10. Xi Jin, Wanke Zhao, **Annet Kirabo**, Sung Park, Wanting Ho, Peter P Sayeski, Zhizhuang Joe Zhao. Aberrant Functions of Mast Cells Are Involved in Pruritus Associated with Polycythemia Vera. *BLOOD* 120 (21), 2012.
11. Wei Chen, **Annet Kirabo**, Salim R Thabet, Daniel W Trott, Feng Zhang, Jing Wu, William J Arendshorst, Anna Goldstein, Alfiya Bikineyeva, Sergey Dikalov, Meena S Madhur, Jens M Titze, David G Harrison. A Critical Role of CD8+ T cells in the Genesis of Renal Dysfunction in Hypertension. *Hypertension* 60 (3_MeetingAbstracts), A646, 2012.

12. **Annet Kirabo**, Jing Wu, Wei Chen, Salim R. Thabet, Alfia T. Bikineyeva, Sergey Dikalov, Venkataraman Amarnath, Sean S. Davies, L. Jackson Roberts, II and David G. Harrison. Effect of Hypertension on Dendritic Cells and a Potential Role of Isoketals. Experimental Biology 2012, San Diego, CA.
13. **Annet Kirabo**, Wei Chen, Jing Wu, Salim Thabet, Alfiya Bikineyeva, Sergey Dikalov, Jackson Roberts, Venkataraman Amarnath, Sean S Davies, David Glenn Harrison. Effect of Hypertension on Dendritic Cells and a potential role of Isoketals. The FASEB Journal 26 (1_MeetingAbstracts), 872.16, 2012.
14. **Annet Kirabo**, Jing Wu, Wei Chen, Salim R. Thabet, Alfia T. Bikineyeva, Sergey Dikalov, Venkataraman Amarnath, Sean S. Davies, L. Jackson Roberts, II and David G. Harrison. Effect of Hypertension on Dendritic Cells and a Potential Role of Isoketals. Vanderbilt University Post-Doctoral Association Symposium.
15. **Annet Kirabo**, Jing Wu, Wei Chen, Salim R. Thabet, Alfia T. Bikineyeva, Sergey Dikalov, Venkataraman Amarnath, Sean S. Davies, L. Jackson Roberts, II and David G. Harrison. Activation of T Cells by Dendritic Cells in Hypertension: A Potential Role of Isoketal-modified Proteins. Vasculata 2012, Nashville Tennessee.
16. **Annet Kirabo**, Jing Wu, Wei Chen, Salim R. Thabet, Alfia T. Bikineyeva, Sergey Dikalov, Venkataraman Amarnath, Sean S. Davies, L. Jackson Roberts, II and David G. Harrison. Activation of T Cells by Dendritic Cells in Hypertension: A Potential Role of Isoketal-modified Proteins. American Heart Association High Blood Pressure Research Scientific Sessions - Washington, D.C.
17. **Annet Kirabo**, Jing Wu, Wei Chen, Salim R. Thabet, Alfia T. Bikineyeva, Sergey Dikalov, Venkataraman Amarnath, Sean S. Davies, L. Jackson Roberts, II and David G. Harrison. Superoxide and Isoketal formation in Dendritic Cells from Hypertensive mice activate T cells and promote Hypertension. Experimental Biology 2013, Boston, M.A.
18. **Annet Kirabo**, Cristi Galindo, Jing Wu, Salim Thabet, Alfiya Bikineyeva, Sergey Dikalov, Venkataraman Amarnath, Sean Davies, Jackson L Roberts, David Glenn Harrison. Superoxide and Isoketal formation in Dendritic Cells from Hypertensive mice activate T cells and promote Hypertension. The FASEB Journal 27 (1_MeetingAbstracts), 708.7, 2013.
19. **Annet Kirabo**, Jing Wu, Wei Chen, Salim R. Thabet, Alfia T. Bikineyeva, Sergey Dikalov, Venkataraman Amarnath, Sean S. Davies, L. Jackson Roberts, II and David G. Harrison. Superoxide and Isoketal formation in Dendritic Cells from Hypertensive mice activate T cells and promote Hypertension. Vanderbilt University Post-Doctoral Association Symposium.
20. **Annet Kirabo**, Jing Wu, Wei Chen, Salim R. Thabet, Alfia T. Bikineyeva, Sergey Dikalov, Venkataraman Amarnath, Sean S. Davies, L. Jackson Roberts, II and David G. Harrison. Superoxide and Isoketal Neo-antigen formation in Dendritic Cells from Hypertensive mice activate T cells and promote Hypertension. High Blood Pressure Research Conference 2013, New Orleans, LA.
21. **Annet Kirabo**, Jing Wu, Salim R Thabet, Alfiya T Bikineyeva, Sergey Dikalov, Venkataraman Amarnath, Sean S Davies, Jackson L Roberts, David G Harrison. Superoxide and Isoketal Neo-antigen formation in Dendritic Cells from Hypertensive mice activate T cells and promote Hypertension. Hypertension 62 (3_MeetingAbstracts), A242, 2013.
22. Liang Xiao, Feng Zhang, **Annet Kirabo**, David G Harrison. Renal denervation prevents renal T cell activation in mice during angiotensin II-induced hypertension. High Blood Pressure Research Conference 2013, New Orleans, LA.

23. Liang Xiao, **Annet Kirabo**, David G Harrison. Renal Denervation Prevents Dendritic Cell Activation and Renal T Cell Activation in Mice During Angiotensin II-induced Hypertension. Hypertension 62 (3_MeetingAbstracts), A60, 2013.
24. Roxana Loperena, **Annet Kirabo**, LJ Roberts, David G Harrison. Induction of Oxidative Stress in Dendritic Cells Promotes Isoketal Formation and Activation of T Cells. High Blood Pressure Research Conference 2013, New Orleans, LA.
25. Roxana Loperena, **Annet Kirabo**, LJ Roberts, David G Harrison. Induction of Oxidative Stress in Dendritic Cells Promotes Isoketal Formation and Activation of T Cells. Hypertension 62 (3_MeetingAbstracts), A624, 2013.
26. Jing Wu, Salim R Thabet, **Annet Kirabo**, Daniel W Trott, Anna Goldstein, Billy G Hudson, Meena S Madhur, Wei Chen, David G Harrison. T cells mediate angiotensin II-induced aortic stiffening. The FASEB Journal 27 (1_MeetingAbstracts), 906.7, 2013.
27. Liang Xiao, Feng Zhang, **Annet Kirabo**, David G Harrison. Renal denervation prevents renal T cell activation in mice during angiotensin II-induced hypertension. The FASEB Journal 27 (1_MeetingAbstracts), lb696, 2013.
28. **Annet Kirabo**, Vanessa Fontana, Ana P.C. de Faria, Cristi L. Galindo, Jing Wu, Alfiya T. Bikineyeva, Sergey Dikalov, Roxana Loperena, Antony Vinh, Venkataraman Amarnath, Tomasz J. Guzik, Kenneth Bernstein, Xiao Z. Shen, Sean S. Davies, L. Jackson Roberts II, Heitor Moreno, and , and David G. Harrison. Dendritic Cell Superoxide and Isoketals Activate T Cells and Promote Angiotensin II Hypertension. Experimental Biology, 2014, San Diego, CA.
29. **Annet Kirabo**, Vanessa Fontana, Sean Davies, L Jackson Roberts, Ana de Faria, Cristi Galindo, Jing Wu, Alfiya Bikineyeva, Sergey Dikalov, Roxana Loperena, Antony Vinh, Venkataraman Amarnath, Tomasz Guzik, Kenneth Bernstein, Xiao Shen, Heitor Moreno, David Harrison. Dendritic cell superoxide and isoketals activate T cells and promote angiotensin II hypertension (1153.2). The FASEB Journal, 2014
30. Liang Xiao, **Annet Kirabo**, David G Harrison. Renal Denervation Prevents Dendritic Cell Activation and Renal T Cell Activation in Mice During Angiotensin II-induced Hypertension. Experimental Biology, 2014, San Diego, CA.
31. Roxana Loperena, **Annet Kirabo**, LJ Roberts, David G Harrison. Isoketals in monocyte-derived dendritic cells activate T cells and promote hypertension. Experimental Biology, 2014, San Diego, CA
32. McMaster, William G., Mohamed A. Saleh, **Annet Kirabo**, Hana A. Itani, David G. Harrison, and Meena S. Madhur. "Deficiency of LNK/SH2B3 promotes hypertension, endothelial dysfunction, and aortic dissection." In Angiogenesis, vol. 17, no. 4, pp. 940-940. Van Godewijckstraat 30, 3311 GZ Dordrecht, Netherlands: Springer, 2014.
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