

Curriculum Vitae

Justin Pieter Van Beusecum

Assistant Professor of Medicine

Research Health Scientist

Director of Kidney Translational Research Center

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Mount Pleasant, South Carolina, 29466
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PERSONAL: Place of birth: Canton, Ohio
Citizenship: United States of America

EDUCATION AND TRAINING:

2007-2011	B.S. Biology major, Walsh University, North Canton, Ohio; Advisor: Jacqueline Novak, Ph.D.
2011-2014	Graduate Research Assistant, Georgia Regents University (Currently Augusta University), Augusta, Georgia; Advisor: Edward W. Inscho, Ph.D.
2014-2017	Ph.D. Pathology, University of Alabama- Birmingham, Birmingham, Alabama; Advisor: Edward W. Inscho, Ph.D.
2017-2021	Postdoctoral Research Fellow, Division of Clinical Pharmacology, Vanderbilt University Medical Center, Nashville, Tennessee; Advisor: David G. Harrison, MD.

PROFESSIONAL EXPERIENCE:

2008-2011	Undergraduate Research Assistant, Department of Science and Mathematics, Walsh University, North Canton, Ohio; Advisor: Jacqueline Novak, Ph.D.
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2008-2011	Teaching Assistant, Department of Science and Mathematics, Walsh University, North Canton, Ohio
2011-2014	Graduate Research Assistant, Department of Physiology, Georgia Regents University (Currently Augusta University), Augusta, Georgia; Advisor: Edward W. Inscho, Ph.D.
2014-2017	Graduate Research Assistant, Division of Nephrology, University of Alabama-Birmingham, Birmingham, Alabama; Advisor: Edward W. Inscho, Ph.D.
2015-2017	Ph.D. Candidate, Division of Nephrology, University of Alabama-Birmingham, Birmingham, Alabama; Advisor: Edward W. Inscho, Ph.D.
2017-2021	Postdoctoral Research Fellow, Division of Clinical Pharmacology, Vanderbilt University Medical Center, Nashville, Tennessee; Advisor: David G. Harrison, MD.
2021	Research Instructor of Medicine, Department of Medicine, Division of Clinical Pharmacology, Vanderbilt University Medical Center, Nashville, Tennessee.
2021-	Adjunct Instructor of Medicine, Department of Medicine, Division of Clinical Pharmacology, Vanderbilt University Medical Center, Nashville, Tennessee.
2021-	Research Health Scientist, Ralph H. Johnson VA Medical Center, Charleston, South Carolina.
2021-	Assistant Professor of Medicine, Department of Medicine, Division of Nephrology, Medical University of South Carolina, Charleston, South Carolina.
2023-	Director, Kidney Translational Research Center, Medical University of South Carolina, Charleston, South Carolina.

AWARDS AND HONORS:

2013	American Heart Association Hypertension Summer School Travel Award
2014	Best of American Heart Association Specialty Conference: HPBR 2014
2014	Predoctoral Fellowship, American Heart Association Predoctoral Fellowship, American Heart Association.
2015	2 nd place, session #7: UAB Graduate Student Research Days 2015

2015	The Council on Hypertension Trainee Advocacy Committee and the International Society of Hypertension New Investigator Committee: Onsite Trainee Poster Award
2016	1 st place, session #4: UAB Graduate Student Research Days 2016
2017	Postdoctoral Fellowship, NIH T32 Training Grant, Vanderbilt University Medical Center.
2018	The Council on Hypertension New Investigator Travel Award
2018	Best of American Heart Association Specialty Conference: Hypertension 2018
2019	High Impact Papers in Hypertension (Fall 2019): High Salt Activates CD11c ⁺ Antigen-Presenting Cells via SGK (Serum Glucocorticoid Kinase) 1 to Promote Renal Inflammation and Salt-Sensitive Hypertension.
2020	Top Papers in Hypertension (2019): High Salt Activates CD11c ⁺ Antigen-Presenting Cells via SGK (Serum Glucocorticoid Kinase) 1 to Promote Renal Inflammation and Salt-Sensitive Hypertension.
2020	Hypertension Early Career Awardee Finalist; Top 4 abstract from AHA 2020 Scientific Sessions. American Heart Association Hypertension 2020 Scientific Sessions.
2020	Paul Dudley White International Scholar: Highest ranked abstract from the United States. American Heart Association Hypertension 2020 Scientific Sessions.
2020	Outstanding Poster Award. Endothelial Cell Activation Promotes Axl ⁺ Siglec-6 ⁺ Dendritic Cell Formation via Growth Arrest Specific 6 in Human Hypertension. North American Vascular Biology Organization. Vascular Biology 2020.
2020	School of Arts and Sciences Alumni Spotlight. Walsh University.
2021	Early Career Editorial Fellowship Award – American Journal of Physiology – Renal Physiology.
2021	Stephanie Watts Career Development Award Finalist, American Heart Association Hypertension 2021 Scientific Sessions.
2022	Diversity, Equity, and Inclusion Faculty Spotlight – Medical University of South Carolina, Department of Medicine
2023	Advancing Inclusion, Diversity, and Equity-AIDE Professional Development Certificate – Ralph H. Johnson VA Healthcare System

2023	AHA Hypertension 2023 Scientific Sessions Award for the Support of Underrepresented Minorities: Mentee: Marice McCrorey, B.S.: Role: Ph.D. Mentor
2023	Young Investigator Award, Endothelin-18 Meeting.
2023	Early Career Researcher Fellowship Award, International Union of Physiological Sciences, PANAM 2023.
2024	Rheumatology Research Foundation Choose Rheumatology Scholarship: Mentee: Marice McCrorey, B.S.; Role: Ph.D. Mentor.

CURRENT FUNDING:

Veterans Affairs Biomedical Laboratory Research & Development Career Development Award (CDA-2) 1IK2BX005605-01; The Role of GAS6/Axl Signaling in the Development of Essential Hypertension; Role: Principal Investigator (100% VA effort); Sponsors; Jeffery A. Jones, PhD, and Joshua H. Lipschutz, MD; Total direct costs: \$1,062,252.00; Total costs: \$1,168,477.20; Total Project Period: 7/01/21 – 6/30/26.

Lupus Research Alliance Lupus Innovation Award; Targeting Pathogenic Endothelial Dysfunction in Lupus Nephritis. Role: Co-investigator (35% MUSC effort; Oates PI); Total direct costs: \$300,000.00; Total costs: \$319,643.00; Total Project Period: 01/01/2022 – 12/31/2025.

MUSC COMETS-PPG; Role of Human SLE variant (R90H NCF1) in the development of renal inflammation and damage. Role: Co-investigator and Core Director (7.5% MUSC effort; Tsao PI); Total Direct Costs: \$300,000.00; Total Costs; \$300,000.00; Total Project Period: 06/01/2023 – 05/31/2025.

Dialysis Clinic, Inc. Paul Teschan Research Fund (PTRF) 2023-10; Renal Endothelial Antigen Presentation in Salt-Sensitive Hypertension. Role: Principal Investigator (In-Kind); Total Direct Costs: \$108,000.00; Total Costs: \$120,000.00; Total Project Period: 01/01/2024 – 12/31/2025.

MUSC Core Centers for Clinical Research (CCCR) Pilot Project Award; Role of Redox Signaling in the Development of Human Lupus Associated Glomerular Dysfunction. Role: Principal Investigator (5% MUSC effort); Total Direct Costs: \$35,000.00; Total Costs: \$35,000.00; Total Project Period: 03/01/2024 – 02/28/2025.

American Heart Association (AHA) International Visiting Scholar Professorship Award; Endothelial and Epithelial Function in Glomerular Disease. Role: Co-Investigator (In-Kind; Palygin PI); Total Direct Costs: \$10,000.00; Total Costs: \$11,000.00; Total Project Period: 04/01/2024 – 03/31/2025.

National Institutes of Health (NIH), National Institute of Heart, Lung, and Blood (NHLBI) R01: Temporal effects of CD8⁺ T-cells post-MI. Role: Co-Investigator (10% MUSC effort;

DeLeon-Pennell PI); Total Direct Costs: \$1,977,387.00; Total Costs: \$2,632,016.00; Total Project Period: 04/01/2024 – 3/31/2029.

National Institutes of Neurological Disorders and Stroke (NIH/NINDS) 2RF1NS104573-07: Progressive post-stroke cognitive impairment: Mechanisms & Intervention. Role: Co-Investigator (5% MUSC effort; Ergul PI); Total Direct Costs: \$1,745,096.00; Total Costs: \$2,920,205.00; Total Project Period: 12/01/2024 – 11/30/2028.

Dialysis Clinic, Inc. Paul Teschan Research Fund (PTRF); Protective Effects of Dietary Lysine on Hypertensive Kidney Damage. Role: Co-Investigator (In-Kind; Palygin PI); Total Direct Costs: \$50,000.00; Total Costs: \$60,000.00; Total Project Period: 01/01/2025 – 12/31/2025.

American Heart Association Predoctoral Fellowship 25PRE1372738: The Pathological Role of ET-1/ETAR Signaling in SLE-Associated Cardiovascular Disease, Cognitive, and Renal Dysfunction. Role: Mentor (McCrorey PI); Total direct costs: \$69,548.00; Total costs: \$76,502.80; Total Project Period: 01/01/2025 – 12/31/2026.

Lupus Research Alliance Innovation Award: Piezo1 in Lupus Associated Cardiovascular Disease and Cognitive Impairment 1308994. Role: Principal Investigator (25% MUSC effort); Total Direct Costs: \$405,000.00; Total Costs: \$450,000.00; Total Project Period: 03/01/2025 – 2/28/2028.

Medical University of South Carolina SCORE Pilot Project Grant: The Sex-Dependent Role of Anti-Endothelin Receptor A Autoantibodies in Systemic Lupus Erythematosus Associated Cognitive and Renal Injury. Role: Mentor (McCrorey PI); Total direct costs: \$25,000.00; Total Costs: \$25,000.00; Total Project Period: 01/15/2025 – 01/14/2025.

PENDING FUNDING:

American Heart Association Strategically Focused Research Network; Leveraging heterogeneity in cardiovascular and renal disease in patients with systemic lupus erythematosus. Role: Co-Director/Collaborating Investigator (20% MUSC effort; Oates Co-Director); Total Direct Costs: \$4,000,000.00; Total Costs: \$4,400,000.00; Total Project Period: 04/01/2025 – 03/31/2029.

Howard Hughes Medical Institute Gilliam Fellowship: Investigating the Role of Endothelial Endothelin Receptor A Signaling in Renal Injury and Cognitive Decline in Systemic Lupus Erythematosus. Role: Mentor (McCrorey PI); Total direct costs: \$159,000.00; Total costs: \$159,000.00; Total Project Period: 07/01/2025 – 06/31/2028.

VISN 7 Research Development Award: Investigating the Link between Toxic Silica Exposure and Autoimmune Associated Cardiovascular Disease in US Veterans. Role: Mentor (Butler PI); Total Direct Costs: \$70,000.00; Total Costs: \$70,000.00; Total Project Period: 10/01/2025 – 9/31/2027.

PAST FUNDING:

MUSC Core Centers for Clinical Research (CCCR) Pilot Project Award; Elucidating Mechanisms of Endothelial and Antigen Presenting Cell Crosstalk in Lupus Associated Hypertension: Role: Principal Investigator (In-Kind); Total direct costs: \$35,000.00; Total costs: \$35,000.00; Total Project Period: 07/01/2022 –06/30/2023.

National Institutes of Health Postdoctoral Fellowship F32HL142937; The role of salt and SGK1 on NADPH oxidase stabilization in dendritic cells in hypertension; Role: Principal Investigator (100% effort); Sponsor: David G. Harrison, MD; Total direct costs \$112,836.00; Total cost: \$122,836.00; Total Project Period: 05/01/19 – 04/31/21.

American Heart Association Postdoctoral Fellowship 19POST34380779; The Role of Salt and SGK1 on NADPH Oxidase Stabilization in Dendritic Cells in Hypertension; Role: Principal Investigator (100% effort); Sponsor: David G. Harrison, MD; Total direct costs \$96,060.00; Total costs \$104,060.00; Total Project Period: 01/01/19 – 4/01/19.

Postdoctoral Fellow on NIH National Heart, Lung, and Blood Institute (NHLBI) 5T32HL069765-13: Immunobiology of Blood and Vascular Systems Training Program. Total Project Period: 7/01/17 to 6/30/18.

American Heart Association Predoctoral Fellowship 14PRE20460061; The Functional Role of TLR4 in the Renal Microvasculature; Role: Principal Investigator (100% effort); Sponsor: Edward W. Inscho; Total direct costs \$52,000.00; Total costs \$57,200.00; Total Project Period: 07/01/14 to 06/30/16.

SOCIETY MEMBERSHIPS:

2012-	American Heart Association
2012-	American Physiological Society
2015-	American Society of Nephrology
2023-	American College of Rheumatology
2023-	North American Vascular Biology Organization

SOCIETY COMMITTEES:

2021-	Member, American Heart Association (AHA), The Kidney in Cardiovascular Disease (KCVD) Membership & Communications Committee.
2021-2024	Member, American Physiological Society (APS) Renal Trainee Advisory Subcommittee.
2024-	Chair, American Physiological Society (APS) Renal Trainee Advisory Subcommittee.

- 2023- Member, American Physiological Society (APS) Renal Awards Committee.
- 2023- Co-Chair, The 19th International Meeting on Endothelin.
- 2024- Member, American Society of Nephrology (ASN) and American Physiological Society (APS), Basic Research Forum for Emerging Scientist Organizing Committee.

INSTITUTIONAL COMMITTEES:

- 2022- Voting Member, Institutional Animal Care and Use Committee (IACUC), Ralph H. Johnson VA Medical Center, R&D Service.
- 2023- Steering Committee Member, Perry V. Halushka MUSC 2023 Research Day, College of Graduate Studies, Medical University of South Carolina.
- 2023- Member, College of Graduate Studies First Year Curriculum Committee, Medical University of South Carolina.
- 2024- Member, Medical Scientist Training Program (MSTP) Admissions Committee, Medical University of South Carolina.
- 2024- Member, Veterans Affairs Space Committee, Ralph H. Johnson VA Medical Center, R&D Service.
- 2024- Member, All Employee Survey Committee, Ralph H. Johnson VA Medical Center, R&D Service.

STUDY SECTIONS:

- 2022 American Heart Association (AHA) Career Development Award, Basic Science: Immunology and Microbiology.
- 2022 American Heart Association (AHA) Transformational Project Award, Basic Science: Vascular #1
- 2022 American Heart Association (AHA) Fellowship Awards, Basic Science: Vascular Endothelial Biology
- 2023 American Heart Association (AHA) Transformational Project Award, Basic Science: Vascular #1
- 2023 American Heart Association (AHA) Fellowship Awards, Basic Science: Vascular Endothelial Biology
- 2024 Department of Veterans Affairs Study Section, Cardiovascular Studies-B ZRD1 CARB-C *ad hoc*

- 2024 American Heart Association (AHA) Fellowship Awards, Basic Science: Vascular Endothelial Biology #3
- 2024 National Institutes of Health (NIH) Integrative Vascular Physiology and Pathology (IVPP) *ad hoc* ESI

SCIENTIFIC SESSION CHAIR/MODERATOR

- 2024 Moderator, Oxidative Stress and Immune Mechanisms in Hypertension, American Heart Association Hypertension 2024 Scientific Sessions. Chicago, IL, USA.
- 2024 Moderator, Kidney Injury and Hypertension, 7th Annual Basic Research Forum for Emerging Kidney Scientist, San Diego, CA, USA.
- 2025 Chair, Foundational Science Symposium, Autoimmunity and Inflammation in the Pathophysiology of Women's Health, American Physiological Society Summit 2025. Baltimore, MD, USA.

VOLUNTEER TEACHING AND SERVICE EXPERIENCE:

- 2016-2017 Chair of Nephrology and Cardiology Peer Mentoring Group, Department of Medicine, University of Alabama-Birmingham.
- 2018 REHSS Poster Session II Judge, Vanderbilt Center for Science Outreach, Vanderbilt University.
- 2021 PhD Poster Session II Judge, Medical University of South Carolina Graduate Studies Research Day, Medical University of South Carolina.
- 2022 Poster Judge, 15th Annual Department of Medicine Research Symposium, Medical University of South Carolina.
- 2022 Meeting Mentor for APS Martin Frank Diversity Travel Award Recipient: 2022 Control of Renal Function in Health and Disease: Mentee: Desmond Moronge, Augusta University.
- 2022 Trainee Advocacy Committee Poster Judge, 2022 American Heart Association Hypertension Scientific Sessions.
- 2022 Oral Abstract Reviewer, 2022 Basic Science Research Forum for Emerging Kidney Scientist.
- 2022 Poster Judge, 57th Annual Perry V. Halushka MUSC 2022 Research Day, Medical University of South Carolina.
- 2023 Trainee Advocacy Committee Poster Judge, 2023 American Heart Association Hypertension Scientific Sessions.
- 2023 Abstract Reviewer – American Society of Nephrology 2023.

- 2023 Poster Judge, 58th Annual Perry V. Halushka MUSC 2023 Research Day, Medical University of South Carolina.
- 2024 Meeting Mentor for APS Martin Frank Diversity Travel Award Recipient: 2024 APS Summit: Mentee: Gertrude Arthur, University of Mississippi Medical Center.
- 2024 Poster Judge, 17th Annual Department of Medicine Research Symposium, Medical University of South Carolina.
- 2024 Trainee Advocacy Committee Poster Judge, 2024, American Heart Association Hypertension Scientific Sessions.
- 2024 Poster and Oral Judge, 59th Annual Perry V. Halushka MUSC 2024 Research Day, Medical University of South Carolina.

UNDERGRADUATE STUDENT EDUCATION/TRAINING:

- 2016 SeCURE Summer Program Supervisor, Section of Cardio-Renal Medicine, University of Alabama-Birmingham. Mentee: Estevan C. Beltran, University of California-Merced.

2nd Place, Biological and Life Sciences: UAB Undergraduate Research Expo 2016. Mentee: Estevan C. Beltran.
- 2021 Summer Student Supervisor; Future MSTP Students, Division of Clinical Pharmacology, Vanderbilt University Medical Center. Mentee: Charis Haynes, Howard University.
- 2023 VA Medical Summer Undergraduate Research Fellowship (SURF) Mentor; Research and Development, Ralph H. Johnson VA Healthcare System. Mentee: Samantha Kindsvater, Kansas College of Osteopathic Medicine.
- 2024- PREP Program, College of Graduate Studies, Medical University of South Carolina. Mentee: Ryan Lacey, Pennsylvania State University.

Rick Klein Young Investigator Low Country for Veterans Research 2024. Mentee: Ryan Lacy

2nd Place Oral Presentation Award (Masters/Ph.D. I Students) MUSC Research Day 2024. Mentee: Ryan Lacey
- 2024- Undergraduate Research Mentor, Medical University of South Carolina. Mentee: Lada Palygin, Clemson University

GRADUATE STUDENT EDUCATION/TRAINING:

- 2021- Qualification and Dissertation Advisory Committee: Alexa Corker, Ph.D. Candidate (Ph.D. Program), College of Biomedical Sciences, Medical University of South Carolina.
- 2021- Qualification and Dissertation Advisory Committee: Heather Holman, M.D./Ph.D. Candidate (Medical Science Training Program), College of Biomedical Sciences, Medical University of South Carolina.
- 2023- Primary Mentor: Marice McCrorey, Ph.D. Candidate (Ph.D. Program), College of Biomedical Studies, Medical University of South Carolina.

POSTDOCTORAL MENTORING/TRAINING:

- 2023- Career Development Mentoring Committee: Marharyta Semenikhina, M.Sc., Ph.D., Department of Medicine, Division of Nephrology, Medical University of South Carolina.
- 2024- Primary Mentor: Helen M. Butler, Ph.D., Department of Medicine, Division of Nephrology, Medical University of South Carolina.

FORMAL TEACHING:

- 2008-2009 Laboratory Assistant, General Chemistry Lab, Department of Science and Mathematics, Walsh University.
- 2009-2011 Laboratory Assistant, Anatomy and Physiology I and II Lab, Department of Science and Mathematics, Walsh University.
- 2013-2014 Teaching Practicum, Integrated Systems Biology, Renal and Respiratory Section, Department of Physiology, Georgia Regents University (Currently Augusta University).
- 2018 Module Lecturer, Mechanism of Loop Diuretics, Division of Clinical Pharmacology, Vanderbilt University.
- Fall 2022 Instructor, MSTP Grant Writing Course, Medical University of South Carolina.
- Spring 2023 Instructor, Cardiovascular Physiology and Pharmacology, Vascular Section, College of Graduate Studies, Medical University of South Carolina.
- Fall 2023 Instructor, MSTP Grant Writing Course, Medical University of South Carolina.
- Fall 2023 Facilitator, Interprofessional 711, Medical University of South Carolina.
- Spring 2024 Facilitator, Learning from the Literature, College of Graduate Studies Medical University of South Carolina.

Fall 2024	Instructor, MSTP Grant Writing Course, Medical University of South Carolina.
Spring 2025	Course Director, Learning from the Literature (LFTL), College of Graduate Studies, Medical University of South Carolina.
Spring 2025	Instructor, Cardiovascular Physiology and Pharmacology, Vascular Pharmacology Section, College of Graduate Studies, Medical University of South Carolina.

INVITED SEMINARS:

2015	The Functional Role of Toll-like Receptor 4 in the Renal Microvasculature. Texas A&M Medical Center, Temple, TX, USA.
2016	The Functional Role of Toll-like Receptor 4 in the Renal Microvasculature. Vanderbilt University Medical Center, Nashville, TN, USA.
2017	The Role of the Salt-Sensing Kinase, SGK1, in Activating Antigen Presenting Cells in Hypertension. Inflammation Forum. Vanderbilt University Medical Center, Nashville, TN, USA.
2018	The Role of Salt-Sensing Kinase, SGK1, In Activating Antigen Presenting Cells in Hypertension. Clinical Pharmacology Grand Rounds. Vanderbilt University Medical Center, Nashville, TN, USA.
2019	Axl ⁺ Siglec-6 ⁺ DCs: The Role of Endothelial Stretch and GAS6. PPG Site Meeting. Vanderbilt University Medical Center, Nashville, TN, USA.
2020	Endothelial GAS6 Promotes Human Hypertension through Innate Immune System Activation. Cell and Molecular Biology Seminar. University of Mississippi Medical Center, Jackson, MS, USA.
2020	Endothelial GAS6 Promotes Human Hypertension through Innate Immunity. Vanderbilt Vascular Biology and Hypertension Center Seminar. Vanderbilt University Medical Center, Nashville, TN, USA.
2021	Endothelial GAS6 Promotes Human Hypertension through Innate Immunity. Nephrology Grand Rounds, Medical University of South Carolina, Charleston, SC, USA.
2021	Endothelial GAS6 Promotes Human Hypertension through Innate Immunity. Renal Grand Rounds, Emory University, Atlanta, GA, USA.
2021	Endothelial-derived GAS6 Promotes Hypertension through Activation of the Innate Immune System. Department of Cellular and Integrative Physiology Seminar, University of Nebraska Medical Center, Omaha, Nebraska, USA.

- 2021 Endothelial Cell Activation Promotes Axl⁺ Siglec-6⁺ Dendritic Cell Activation via Growth Arrest Specific 6 in Human Hypertension. North American Vascular Biology Organization, *FOCUS Session; Endothelial Cell Heterogeneity*.
- 2021 Endothelial-derived GAS6 Promotes Human Hypertension through Innate Immunity. Clinical Pharmacology Grand Rounds, Vanderbilt University Medical Center, Nashville, TN, USA.
- 2022 Mechanisms of Antigen Presenting and Endothelial Cell Activation and Inflammation in the Development of Hypertension. The 39th Congress of the International Union of Physiological Sciences. Beijing, China.
- 2022 Sex-dependent Regulation of the Immunological Synapse Interface of Renal Endothelial Cells. Cardiovascular Translational Research Center. University of South Carolina School of Medicine, Columbia, SC, USA.
- 2022 Sex-Dependent Regulation of the Immunological Synapse Interface of Renal Endothelial Cells: Role of Hypertensive Stretch. Rheumatology Research Conference. Medical University of South Carolina, Charleston, SC, USA.
- 2023 The Role of Immunity in Hypertension Development. Nephrology Grand Rounds. Medical University of South Carolina, Charleston, SC, USA.
- 2023 Antigen Presenting and Endothelial Cells in Hypertension. Microbiology and Immunology Seminar. Medical University of South Carolina Charleston, SC, USA.
- 2023 The Role of Endothelin-1 in the Development of Lupus Associated Cardiovascular Disease. Center for Healthy Aging Seminar Series. Medical University of South Carolina, Charleston, SC, USA.
- 2023 Sex Differences in Vascular Inflammation. Pan-American Physiological Sciences. Puerto Varas, Chile.
- 2024 Sex Differences in Endothelial Inflammation. Physiology Seminar, Tulane University School of Medicine, New Orleans, LA, USA.
- 2025 Sex Differences in Endothelial Inflammation: Hypertension and Autoimmunity. Division of Nephrology Seminar, Oklahoma University Health Sciences Center, Oklahoma City, OK, USA.
- 2025 Sex Differences in Vascular Inflammation. American Physiological Society Summit 2024. Baltimore, MD, USA.

EDITORIAL RESPONSIBILITIES:

- 2021 American Journal of Physiology- Renal Physiology (Early Career Editorial Fellowship). Mentor: Heddwen Brooks, Ph.D. Editor-in-Chief.
- 2022-2023 American Journal of Physiology – Renal Physiology (Guest Associate Editor): Kidney Disease, Role for Inflammation, and Immunity.
- 2022 - American Journal of Physiology – Renal Physiology (Editorial Board).
- 2024 - Biology of Sex Differences (Editorial Board)
- 2024 - Biology of Sex Differences – Guest Associate Editor: Sex Differences in Autoimmune Disease

Ad-hoc Manuscript Reviewer:

- 2018 - Hypertension
- 2018 - Molecular Biology Reports
- 2019 - International Journal of Molecular Sciences
- 2019 - Nutrients
- 2019 - Journal of Clinical Medicine
- 2020 - Clinical and Experimental Pharmacology and Physiology
- 2020 - American Journal of Physiology- Regulatory, Integrative, and Comparative Physiology
- 2021 - American Journal of Physiology- Renal Physiology
- 2021 - Frontiers in Physiology – Renal and Epithelial Physiology
- 2021 - Cardiovascular Research
- 2022 - Journal of Human Hypertension
- 2022 - Frontiers in Cardiovascular Medicine
- 2022 - Annals of Medicine
- 2022 - Cellular & Molecular Biology Letters
- 2022 - Journal of American Society of Nephrology (JASN)
- 2022 - Molecular Medicine
- 2022 - Cellular Immunology
- 2022 - Journal of Inflammation Research

2022 -	American Journal of Physiology – Physiological Genomics
2022 -	Advances in Medical Sciences
2023 -	Journal of American Heart Association (JAHA)
2023 -	Frontiers in Immunology
2023 -	Kidney360
2023 -	Journal of Cardiovascular Translational Research
2024 -	Matrix Biology
2024 -	Biology of Sex Differences
2024 -	Function

PEER-REVIEWED PUBLICATIONS:

1. Guan Z, Fellner RC, **Van Beusecum JP**, Inscho EW. P2 receptors in renal autoregulation. *Current Vascular Pharmacology* 12:818-828, 2014 PMID: PMC3965657
2. **Van Beusecum J**, Inscho EW. Regulation of renal function and blood pressure control by P2 purinoceptors in the kidney. *Current Opinion in Pharmacology* 21:82-88, 2015.
3. Guan Z, **Van Beusecum JP**, Inscho EW. Endothelin and the renal microcirculation. *Seminars in Nephrology* 35(2):145-155, 2015.
4. Guan Z, Singletary S, Cha H, **Van Beusecum JP**, Cook AK, Pollock JS, Pollock DM, and Inscho EW. Pentosan polysulfate preserves renal microvascular P2X₁ receptor reactivity and autoregulatory behavior in DOCA-salt hypertensive rats. *Am J Physiol Renal Physiol* 310:F456-464, 2016. PMID: PMC476270
5. **Van Beusecum JP**, Zhang S, Cook AK, and Inscho EW. Acute toll-like receptor 4 activation impairs rat renal microvascular autoregulatory behaviour. *Acta Physiol.* 221: 204–220, 2017. <https://doi.org/10.1111/apha.12899>
6. **Van Beusecum JP** and Harrison DG. The nerve of the spleen! Causing hypertension by placental growth factor. *Cardiovascular Research.* 114(03): 356-357, 2018. <https://doi.org/10.1093/cvr/cvy029>
7. Loperena R, **Van Beusecum JP**, Itani H, Engel N, Laroumanie F, Guzik TJ, Eljovich F, Laffer CL, Gnecco JS, Noonan J, Mafia P, Dikalov S, and Harrison DG. Hypertension and increased endothelial mechanical stretch promote monocyte differentiation and activation: Roles of STAT3, interleukin 6, and hydrogen peroxide. *Cardiovascular Research.* 114(11): 1547-1563, 2018. <https://doi.org/10/1093/cvr/cvy112>

8. Laroumanie F, Korneva A, Bersi MR, Alexander MR, Xiao L, Zhong X, **Van Beusecum JP**, Chen Y, Saleh MA, McMaster WG, Dale BL, Zhao S, Guo Y, Shyr Y, Perrien DS, Cox NJ, Curci JA, Humphrey JD, and Madhur MS. LNK deficiency promotes acute aortic dissection and rupture. *JCI Insight*. 3(20)e122558, 2018. <https://doi.org/10.1172/jci.insight.122558>
9. **Van Beusecum JP**, Barbaro NR, Xiao L, Patrick DM, and Kirabo A. Isolation and Adoptive Transfer of High Salt Treated Antigen-Presenting Dendritic Cells. *Journal of Visualized Experiments*. (145), e59124, 2019. <https://doi.org/10.3791/59124>
10. Dale BL, Pandey AK, Chen Y, Laroumanie F, Itani HA, Xiao L, Foss J, Barbaro NR, **Van Beusecum JP**, Norlander AE, Alexander MR, Deger SM, Alsouqi A, Elijovich D, Ikizler A, Scott Algood HM, Madhur MS. Critical role of interleukin 21 and humoral immunity in hypertension and vascular dysfunction. *JCI Insight*. 4(11)e129278, 2019. <https://doi.org/10.1172/jci.insight.129278>
11. Ferguson JF, Aden LA, Barbaro NR, **Van Beusecum JP**, Xiao L, Kumaresan S, Tang ZZ, Chen G, Reilly MP, and Kirabo A. High dietary salt-induced DC activation underlies microbial dysbiosis-associated hypertension. *JCI Insight*. 4(13)e12641, 2019. <https://doi.org/10.1172/jci.insight.126241>
12. **Van Beusecum JP**, Barbaro NR, MacDowell Z, Aden LA, Xiao L, Itani HA, Pandey AK, Himmel LE, Harrison DG, and Kirabo A. High Salt Activates CD11c⁺ Antigen-Presenting Cells via Serum Glucocorticoid Kinase 1, to Promote Renal Inflammation and Salt-Sensitive Hypertension. *Hypertension*. Sep;74(3): 555-563, 2019. <https://doi.org/10.1161/HYPERTENSIONAHA.119.12761>
13. **Van Beusecum JP**, Zhang S, Beltran E, Cook AK, Tobin RP, Newell-Rogers MK, and Inscho EW. Antagonism of MHC class II invariant chain peptide (CLIP) during chronic lipopolysaccharide treatment rescues afferent arteriole autoregulatory behavior. *American Journal of Physiology-Renal Physiology*. 317(4): F957-966, 2019. <https://doi.org/10.1152/ajprenal.00164.2019>
14. **Van Beusecum JP** and Harrison DG. New Insight Sheds Light as to how Nitrite Might Reduce Blood Pressure Height: Is this Alright? *Cardiovascular Research*. 116(1): 1-3, 2020. <https://doi.org/10.1093/cvr/cvz248>
15. Pitzer A, **Van Beusecum JP**, Kleyman T, and Kirabo A. ENaC in Salt-Sensitive Hypertension: Kidney and Beyond. *Current Hypertension Reports*. 22, 69, 2020. <https://doi.org/10.1007/s11906-020-01067-9>
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