

CURRICULUM VITAE

DATE: February 10, 2026

NAME: Iris Zamir Jaffe, MD, PhD

JOINT TITLE: *Executive Director, Tufts University–Tufts Medicine Research Enterprise, Tufts University and Tufts Medicine Health System*

HOSPITAL TITLES: *Executive Director, Molecular Cardiology Research Institute, Tufts Medical Center*
Director, Vascular Biology Research Center, Tufts Medical Center
Staff Cardiologist, Tufts Medical Center

ACADEMIC TITLES: *Elisa Kent Mendelsohn Professor of Molecular Cardiology, Tufts University School of Medicine*
Professor of Medicine, Tufts University School of Medicine
Faculty, Cell, Molecular & Developmental Biology and Immunology Programs, Graduate School of Biomedical Studies, Tufts University School of Medicine

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WEB PAGES:
<https://www.tuftsmedicine.org/research-clinical-trials/research-institutes-research-department/mcri-homepage/mcri-investigators/jaffe-laboratory>
<https://facultyprofiles.tufts.edu/iris-jaffe>

EDUCATION:

Undergraduate:

1992 BA, University of Pennsylvania, Philadelphia, PA
Major: Biochemistry, Minor: Mathematics, Summa Cum Laude

Medical / Graduate School:

1997 PhD in Molecular and Cellular Biology, University of Pennsylvania, Philadelphia, PA
Thesis Mentor: Mitchell A. Lazar, MD. PhD.

1999 MD, University of Pennsylvania, Philadelphia, PA

2017 Women's Executive Leadership Program, Bentley University, Waltham, MA

2021 Culturally Aware Mentorship (CAM) Training: University of Wisconsin (online)

POSTDOCTORAL TRAINING:

Internship and Residencies:

1999-2000 Intern, Internal Medicine, Massachusetts General Hospital, Boston, MA

2000-2001 Resident, Internal Medicine, Massachusetts General Hospital, Boston, MA

Fellowships:

2001-2004 Clinical Fellow in Cardiology, Brigham and Women's Hospital, Boston, MA

2003-2005 Research Fellow in Vascular Biology, Molecular Cardiology Research Institute, Tufts Medical Center, Boston, MA
Mentor: Michael E. Mendelsohn, MD.

LICENSURE AND CERTIFICATION:

2001- Massachusetts License Registration, #211061

2003 ABIM Specialty Certification: *Internal Medicine*

2005- ABIM Subspecialty Certification: *Cardiovascular Diseases*

ACADEMIC APPOINTMENTS:

2005-2011 Assistant Professor of Medicine, Tufts University School of Medicine, Boston, MA

2010- Faculty, Cell, Molecular and Developmental Biology Program, Graduate School of Biomedical Sciences, Tufts University School of Medicine, Boston, MA

2011-2016 Associate Professor of Medicine, Tufts University School of Medicine, Boston, MA

- 2017- Professor of Medicine, Tufts University School of Medicine, Boston, MA
- 2017- Elisa Kent Mendelsohn Professor of Molecular Cardiology, TUSM, Boston, MA
- 2020- Faculty, Immunology Program, Graduate School of Biomedical Sciences, Tufts University School of Medicine, Boston, MA

HOSPITAL APPOINTMENTS:

- 2005- *Staff Physician*, Cardiology, Tufts Medical Center, Boston, MA
- 2009-2015 *Physician and Preceptor*, Preventive Cardiology Clinic, Tufts Medical Center, Boston, MA
- 2010-2015 *Co-Director*, Molecular Cardiology Research Center, Tufts Medical Center, Boston, MA
- 2015-2016 *Associate Director*, Molecular Cardiology Research Institute, Tufts Medical Center
- 2015- *Director*, Vascular Biology Research Center, Tufts Medical Center
- 2016- *Executive Director*, Molecular Cardiology Research Institute Tufts Medical Center

JOINT APPOINTMENTS:

- 2025- *Executive Director*, Tufts University–Tufts Medicine Research Enterprise, Tufts University and Tufts Medicine

AWARDS AND HONORS:

- 1988-1992 Benjamin Franklin Scholar, University of Pennsylvania
- 1989-1992 Academic All-American (gymnastics)
- 1989 $\pi\mu\epsilon$ - National Mathematics Honor Society
- 1990 $\phi\lambda\nu$ - National Chemistry Honor Society
- 1990 Rose Foundation Award for Undergraduate Research
- 1991 Phi Beta Kappa Honor Society
- 1992-1999 Penn Medical Scholar, U. of Pennsylvania School of Medicine
- 1997 Roy G. Williams Prize for Research, U. of Pennsylvania School of Medicine
- 1997 Endocrine Society Travel Award
- 1998 Saul Winegrad, M.D. Award for Outstanding Dissertation
- 1998 Endocrine Society Medical Student Achievement Award
- 2005-2010 Mentored Clinical Scientist Development Award, NHLBI, National Institutes of Health
- 2007 Natalie V. Zucker Research Center Award for Women’s Scholars, Tufts

University School of Medicine

- 2010 Irvine H. Page Young Investigator Award Finalist, Atherosclerosis, Thrombosis and Vascular Biology Council, American Heart Association
- 2010 Italian Ministry of Health Young Investigator Research Award
- 2010 Irma Fisher Mann Fellowship in Women's Heart Health
- 2013 Russo Family Charitable Foundation Pilot Project Research Award Tufts University School of Medicine
- 2013 Young Scholar Award, American Society of Hypertension
- 2013 American Society of Clinical Investigation (ASCI), Elected Member
- 2014 High Blood Pressure Research Council Mid-Career Award for Research Excellence, American Heart Association
- 2014 Established Investigator Award, American Heart Association
- 2015 Milton O. and Natalie V. Zucker Prize for Research, Tufts University School of Medicine
- 2016 Notable Teaching Recognition in the Medicine Clerkship, selected by Tufts University School of Medicine students.
- 2017 Meredith S. and John A. Oates Lecturer, Vanderbilt University School of Medicine (first women ever to be invited to give this lectureship)
- 2017 Interurban Clinical Club (ICC), Elected Member
- 2019 Association of University Cardiologists (AUC), Elected Member
- 2021 Association of American Physicians (AAP), Elected Member
- 2025 BJ Magnani Award for Outstanding Women's Leadership in Medicine and Science, Tufts Medicine
- 2025 Distinguished Faculty Award, Tufts University School of Medicine

MAJOR COMMITTEE ASSIGNMENTS:

Hospital, University or Medical School Committee Assignments:

- 2009 *Member*, Internal Grant Review Committee, Tufts Medical Center Research Fund
- 2009-2011 *Member*, Research Council, Tufts Medical Center
- 2009-2012 *Member*, Scientific Affairs Committee, Tufts University School of Medicine
- 2009- *Member*, MD/PhD Program Executive Committee, Tufts University School of Medicine
- 2009- *Series Organizer*, Molecular Medicine Seminar Series, Tufts Medical Center
- 2010-2015 *Member*, M.D./Ph.D. Program Admissions Committee, Tufts University School of Medicine
- 2010-2011 *Chair*, Scientific Affairs Committee, Tufts University School of Medicine
- 2010-2012 *Founder and Chair*, Women in Medicine Committee, Department of Medicine,

Tufts Medical Center

- 2010-2015 *Elected Member*, Women in Medicine Committee, Department of Medicine, Tufts Medical Center
- 2012- *Member*, Grant Selection Committee of the Natalie V. Zucker Research Center for Women Scholars
- 2015-2016 *Elected Member*, Women in Medicine and Science Committee, Tufts Physicians Organization
- 2016- *Faculty Mentor*: SWAPS program (Support for Women as Aspiring Physician-Scientists), Tufts University School of Medicine
- 2017- *Member*, Medicine Executive Committee, Tufts Medical Center
- 2018-2021 *Member*, Research Executive Committee, Tufts Medical Center
- 2019 *Co-Chair*, Industry Partnerships Strategic Planning Task Force, Tufts Medical Center
- 2019 *Member*, Industry and Innovation Steering Committee, Tufts Medical Center
- 2020 *Chair*, Research Continuity Committee, Tufts Medical Center
- 2020-2022 *Member*, Research Continuity Executive Team, Tufts Medical Center
- 2020-2022 *Member*, COVID-19 Research Committee, Tufts Medical Center
- 2020-2022 *Member*, COVID-19 Research Safety Committee, Tufts University
- 2021-2025 *Member*, TUSM/Tufts Medicine Research Executive Committee
- 2022-2023 *Member*, TUSM/TM Research Integration Steering Committee
- 2024 *Member*, Tufts Medicine CVC Director Search Committee
- 2025- *Co-Chair*, Tufts Medicine Internal Academic Governance Council
- 2026 *Chair*, TUSM/Tufts Medicine Research Executive Committee

External Major Committee Assignments:

- 2007 *Study Section Member*, American Heart Association, Northeast Affiliate
- 2008 *Study Section Member*, American Heart Association, Founders Affiliate
- 2008-2010 *Member*, National Health and Medical Research Council of Australia
- 2010 *Co-Chair* 36th Annual International Aldosterone Conference
- 2011 *Chair* 37th Annual International Aldosterone Conference
- 2011-2017 *Member*, International Aldosterone Conference Executive Committee
- 2013 *Ad Hoc Member*, NIH Vascular Cell and Molecular Biology (VCMB) Study Section, June 2013
- 2014 *Member*, NIH Special Emphasis Panel, ZRG1 VH-A (03), June 2014
- 2015 *Chair*, NIH Special Emphasis Panel, ZRG1 VH-C (03), Aug 2015
- 2015 *Member*, NIH Special Emphasis Panel, ZRG1 VH-C (02), Aug 2015

- 2015-2019 *Charter Member*, NIH Study Section: Vascular Cell and Molecular Biology (VCMB)
- 2016 *Scientific Committee*, Mechanism of Vasodilation 12th International Symposium
- 2019 *Co-Organizer*, 9th International Symposium on Aldosterone and ENaC in health and disease: the kidney and beyond
- 2017-2019 *Chair*, NIH Study Section: Vascular Cell and Molecular Biology (VCMB)
- 2020 *Chair*, NIH Special Emphasis Panel, ZRG1 VH-C (02), Aug 2020
- 2020- *Scientific Committee Member*, Sarnoff Cardiovascular Research Foundation
- 2024 *Ad Hoc Member*, NIH Integrated Vascular Physiology and Pathobiology (IVPP) Study Section, October 2024
- 2024- American Heart Association, ATVB Council, Women's Leadership Committee

TRAINING OF GRADUATE/POSTDOCTORAL STUDENTS:

Clinical:

- 2005-2025 Clinical training of medical students, house officers, and cardiology fellows, General Cardiology Service Attending, Tufts Medical Center, Boston, MA.
- 2009-2015 Clinical training of cardiology fellows, Clinic Preceptor, Preventative Cardiology Clinic, Tufts Medical Center, Boston, MA.

Laboratory:

Faculty Training Record:

<u>Past Trainees</u> (role in Jaffe lab)	Training Period	Institution, Date and Type of Degree Awarded	Title of Research Project	Current Position; Institution
Roger E. Perreault (HS and Undergraduate Student)	Summers 2004, 2005, 2007, 2008	BA; Chemistry, Middlebury Coll, 2009 MD, TUSM 2017	Role of PIGF in Aldosterone- Mediated Vascular Injury	Medical Writer
Andrew Xiao (Undergraduate: Summer Student)	6/2010- 8/2010	BA Biochem. (2011); Case Western University	The Role of Mineralocorticoid Receptor in Vein Graft Intimal Hyperplasia	Research Associate; Takeda Pharmaceuticals, Boston, MA
Wei-Sheng Chen (Rotating PhD Student)	1/2011- 3/2011	PhD (2015) Tufts University	Mechanism of Aldosterone- Stimulated Atherosclerosis	Scientist I, NGM Biopharma San Francisco, CA
Brian Lin (Rotating PhD Student)	3/2011- 5/2011	PhD (2016) Tufts University	Mechanism of Aldosterone- Stimulated Atherosclerosis	Research Asst Professor , DMCB TUSM
Andrea Armani	6/2011-	2015, PhD,	Mechanism of	Associate

(Postdoctoral Fellow)	10/2011	Universita degli Studi di Siena	Aldosterone-Stimulated Atherosclerosis	Professor; San Raffaele Roma University, Italy
Arti Patel (Rotating PhD Student)	1/2012-3/2012	PhD Biochem (2016) Tufts University	Mechanism of Aldosterone-Stimulated Atherosclerosis	Postdoctoral Research Scholar, Novartis Institute for Biomedical Research – Cambridge, MA
Afshin Ehsan, MD (Postdoctoral Research Training)	3/2009-7/2012	1994 MD, Univ of California, LA	The Role of Mineralocorticoid Receptor in Vein Graft Intimal Hyperplasia	Associate Professor; Cardiac Surgeon; Rhode Island Hosp, Brown U. Sch. of Med.
Victor Luu (Undergraduate: Summer Student, BDBS Program)	6/2012-8/2012	2013, BA, Boston University	Estrogen Regulation of Vascular Mineralocorticoid Target Genes	Wake Forest Sch of Med, Physician Assist Program
Danish Patel (Rotating PhD Student)	6/2012-8/2012	MD/PhD Student Tufts Univ Med Sch	Mechanisms of MR-Mediated Vascular Inflammation	Resident
Adam McGraw (Postdoctoral Fellow)	3/2009-3/2013	2008, PhD in Biological Chemistry, Pennsylvania State Univ	<u>AHA Post-doctoral Fellowship:</u> Mechanism of Aldosterone-Stimulated Atherosclerosis	Principal Scientist; Boston Scientific
Nicholas Bene (MS Thesis Student)	5/2012-5/2013	MD (2017) Tufts Univ Sch of Med	Mineralocorticoid Receptors in the Immune System	Surgery Resident, Lahey Hospital and Medical Center, Burlington, MA
Dafina Pruthi (Postdoctoral Fellow)	11/2010-6/2013	2004, MD Graz Univ, Austria; 2010 PhD, Dartmouth Med Sch, NH	Mechanism of MR-Mediated Vascular Injury; Preeclampsia and Vascular Injury (Received Natalie Zucker Award)	Cardiologist Lewiston ME, Affiliated with Maine Medical Center
Fei Peng (Undergraduate: Summer Student, BDBS Program)	6/2013-8/2013	Smith College Student	Role of Endothelial MR in Vascular Function and Disease.	Research Assistant, HNRCA, Tufts University, Boston
Amy McCurley	3/2010-	2009, PhD in	<u>AHA Post-doctoral</u>	Director,

(Postdoctoral Fellow)	11/2013	Biology, Boston University	<u>Fellowship:</u> The Role of VSMC MR in Vascular Function and Disease.	Discovery Biology, Omega Therapeutics, Boston, MA
Jenny B. Koenig (Rotating PhD Student)	7/2013-1/2014	MD/PhD Student Tufts Univ Med Sch	Vascular MR-Regulated Genes in Vascular Function and Disease.	Ob/Gyn Residency UCSD Medical Center
Hector Sandoval (Undergraduate: Summer Student, BDBS Program)	6/2014-8/2014	BDBS Summer Research Program	Role of Endothelial MR in Vascular Function and Disease.	Undergraduate at UCLA
Mohd Shahid (Postdoctoral Fellow)	6/2014-9/2014	2008, PhD, University of Delhi	Role of SMC MR in Cardiovascular Aging <u>NIH K awardee</u>	<u>Assistant Professor</u> of Pharmacology, Chicago State University College of Pharmacy
Abdo Abou-Slaybi (Rotating PhD Student)	1/2015-3/2015	Graduate Student, Tufts GSBS	Mechanisms of Sex Differences in Cardiovascular Disease	Research Scientist, Takeda Pharmaceuticals
Vera Gaun (Rotating PhD Student)	3/2015-5/2015	Graduate Student, Tufts GSBS	Mechanisms of Sex Differences in Cardiovascular Disease	Postdoctoral Fellow, Tufts University
Kathleen Barrett (MD/PhD Thesis Student)	7/2011-6/2015	MD/PhD in CMDDB, Tufts Univ Med Sch	<u>AHA Pre-doctoral Fellowship:</u> Role of Endothelial MR in Vascular Function and Disease	Pediatrician, Boston, MA
Patrick Donegan (Undergraduate: Summer Student, BDBS Program)	6/2015-8/2015	2017, BSc in Biological Sciences, U of Notre Dame	Role of MR in Atrial Fibrillation: BDBS Poster Competition Finalist	Staff Research Associate, UC Irvine
Imran Anwar (Awarded 2016 Medical Student Summer Research Fellowship)	6/2016-8/2016	2019, MD, Tufts University School of Medicine	The Role of EC-MR in Obesity-Induced Endothelial Dysfunction (2 nd Place in Medical Student Summer Research Poster Competition)	General Surgery Resident, Duke University School of Medicine
Ana Paula Davel (Postdoctoral Fellow)	8/2015-6/2017	2008, PhD, University of Sao Paulo, Brazil	Sex Differences in the role of EC-MR in Endothelial Dysfunction	<u>Asst Professor,</u> University of Campinas, Biology Institute

			(FAPESP: São Paulo Res Foundation Grant)	Campinas, Brazil
Surabhi Iyer (High School Intern)	7/2015-8/2017	2017, High School Graduate	Role of EC MR in Atherosclerosis	Clinical Research Coordinator at MGH (MPEC)
Srila Gopal (Fellow, Hematology-Oncology)	7/2015-6/2017	2012, MD, Univ of Conn HC, Hem/Onc Fellow Tufts	Vascular toxicity of novel targeted cancer therapies.	<u>Asst Clinical Professor:</u> UCSD San Diego, CA
Jennifer Dupont (Postdoctoral Fellow)	6/2013-9/2017	2013, PhD, University of Delaware	<u>AHA Post-doctoral Fellowship, K12HD092535:</u> Role of SMC MR and Sex Differences Vascular Aging	<u>Asst Professor:</u> Tufts U School of Medicine, NIH R01 Awarded
Stephanie Hyon (Awarded 2018 Medical Student Summer Research Fellowship)	5/2018-8/2018	Tufts Univ Sch of Med	<u>2018 Medical Student Summer Research Fellowship:</u> Endothelial MR in Atherosclerosis	General Surgery Resident, Atlantic Health System, NJ
Filmon Tekeste (Awarded 2018 Medical Student Summer Research Fellowship)	5/2018-8/2018	Tufts Univ Sch Med	<u>2018 Medical Student Summer Research Fellowship:</u> Role of Smooth Muscle Cell MR in HTN and Aging	Medical Student; Tufts University School of Medicine
Sitara Rao (Undergraduate)	5/2017-8/2018	Tufts University	Vascular toxicity of novel targeted cancer therapies.	Medical Student at University of Illinois College of Medicine
Seung Kyum Kim (Postdoctoral Fellow)	9/2015-2/2019	2015, PhD, Texas A&M Univ	<u>AHA Post-doctoral Fellowship:</u> Role of SMC-MR in Cardiovascular Aging	<u>Asst Professor:</u> Seoul National University, Seoul, Korea
Elizabeth Moss (MD/PhD Thesis Student)	6/2015-7/2019	2021, MD, PhD Cell, Molecular and Developmental Biology, TUSM	Role of Endothelial MR in Vascular Inflammation and Atherosclerosis. <u>AHA Predoctoral Fellowship 17PRE32910003; NIH F30HL137255</u>	Pulmonary Fellowship, Boston Children's Hospital, Physician-Scientist Training Program (PSTP)
Briggett Carvajal (PREP Student)	8/2018-7/2020	PREP Program, Tufts U. Sch of	Sex differences in Cardiovascular	PhD student, Princeton

		Med	Disease Mechanisms: NIH R25 GM066567 PREP program	University
Joshua Man (MD/PhD Thesis Student)	6/2017-5/2021	MD/PhD Stud Tufts Univ Med Sch	Role of Macrophage MR in Atherosclerosis <u>NIH F30HL152505</u>	Cardiology Fellow, STAR Physician-Scientist program, UCLA
Rachel Xiang (Tufts Undergraduate Senior Thesis Student)	5/2019-5/2022	Tufts University	Role of MR in SMC Aging, ApoE data-analysis (Awarded 2020 Tufts Undergrad Research Fellowship)	MD/PhD Student, U. of Pennsylvania
Peter Tao (TUSM Medical Student)	8/2021-8/2022	TUSM Medical Student	Sex Differences in Vascular Inflammation (Awarded 2022 Tufts Undergrad Research Fellowship)	TUSM Medical Student
Aaron Zou (Tufts Undergraduate)	10/2021-5/2022	Tufts University	Data Integration of Preclinical Atherosclerosis Studies	TU Undergraduate
Yihua (Evon) Wang (Tufts Undergraduate Senior Thesis Student)	9/2020-5/2023	Tufts University	<u>Tufts Undergraduate Research Fellowship:</u> Mechanisms of Novel CML TKI Toxicities	MD/PhD Student, Washington University, St. Louis
Reema Elrefaie (BDBS Student)	5/2023-8/2023	U. Mass. Boston	Role of the MR in Peripheral Artery Disease	Post Bac Program Boston University
Lauren Biber (Postdoctoral Fellow)	9/2017-10/2023	PhD, 2017, Univ of Virginia	<u>K99/R00 Awardee:</u> Post-Preeclampsia cardiovascular risk; Sex differences in Endothelial Dysfunction	<u>Asst Professor:</u> Yale University
Nicholas Camarda (MD/PhD Thesis Student)	8/2020-6/2024	MD/PhD Student Tufts Univ Med Sch	Vascular Toxicity of VEGFR Cancer Therapy	TUSM Medical Student

Richard Travers (Postdoctoral Oncology Fellow, K mentee)	7/2021-6/2024, 7/2024- K mentor	MD/PhD, Rice University	F32/K12: Endothelial mechanism of BCR-ABL thrombogenicity	Asst Professor and Oncologist: Tuft MC F32 HL165838 K12 Awardee
Jaime Ibarrola (Postdoctoral Fellow)	9/2019-11/2024	PhD. 2019 U of Navarre, Pamplona, Spain	<u>AHA post doctoral Fellowship:</u> Role of SMC-MR in Cardiovascular Aging	Asst Professor: U of Pamplona, Spain
Angelina Tesfu (Tufts Undergraduate)	2/2023-2/2025	Tufts University Undergraduate	Tufts Career Center Summer Internship Grant: CML-TKIs in Inflammation and Athero	
Rachel Liu (Tufts Undergraduate)	5/2023-5/2025	Tufts University Undergraduate	Tufts Career Center Summer Internship Grant: Sex Differences in Vascular Aging and Obesity	
Alec Stepanian (MD/PhD Thesis Student)	4/2021-6/2025	MD/PhD Student Tufts Univ Med Sch	AHA predoctoral Fellowship and F30 Award: CML-TKIs in Vascular Inflammation and Athero	TUSM Medical Student
Kevin Ogonna (PREP Student)	7/2024-7/2025	Tufts PREP Program	Cellular Mechanisms of Peripheral Artery Disease Progression	MD/MA Student, UCSF
Nicole Yang (MD/PhD Rotation Student)	6/2025-7/2025	MD/PhD Student Tufts Univ Med Sch	Role of MR in Tibial PAD Cell Biology	TUSM Medical Student
Current Trainees	Training Period	Institution, Date and Type of Degree Awarded	Title of Research Project	Source of Support
Nicole Wolter (MD/PhD Thesis Student)	5/2022-	MD/PhD Student Tufts Univ Med Sch	Sexually Dimorphic Mechanisms of Vascular Inflammation Athero	AHA predoctoral Fellowship Awardee NIH F30 Awardee
Pratibha Anchi (Postdoctoral)	7/2024-	PhD, 2022 NIPER-	Sex-specific Mechanisms of	NIH R01HL119290

Fellow)		Hyderabad, India	Obesity-Induced Vascular Stiffness	
Wenxi An (Postdoctoral Fellow)	10/2024-	PhD, 2024 U of Pittsburgh	SMC oxidative stress in cardiovascular disease, Unique Biology of PAD	NIH R01 R01HL119290
Simeon Yen (High School Summer Intern)	6/2025-8/2025 6/2026-	High School Student	Role of MR in Tibial SMC Biology	Institutional Funds
William (Yutiancheng) Yang	8/2025-	Tufts Master's of Biomedical Sciences Thesis Student	Unique Biology of PAD: Role of the MR	Institutional Funds
Sorelle Tan (Tufts Undergraduate)	2/2025-	Tufts Undergraduate	Sex differences in MR in atherosclerosis	Institutional Funds
Kimberly Cheung (Tufts Undergraduate)	2/2026-	Tufts Undergraduate	Sex differences in obesity-induced vascular stiffness	NIH R01 R01HL119290
Pranai Rao (Tufts Undergraduate)	2/2026-	Tufts Undergraduate	Vascular Dysfunction in PAD	Institutional Funds

TEACHING RESPONSIBILITIES:

- 1995 *Teaching Assistant*, Graduate Course in Prokaryotic Genetics. University of Pennsylvania, Philadelphia PA
- 2001 *Teacher*, Central Line Insertion Training Course for Incoming House Officers. Brigham and Women's Hospital, Boston, MA
- 2005- *Lecturer*, Cardiology Fellows Conference Series, Tufts Medical Center, Boston, MA
- 2005- *Inpatient Attending Service Teaching*: Internal Medicine Program General Cardiology Service, Tufts Medical Center, Boston, MA
- 2009-2015 *Preceptor*, Journal Club and Preventative Cardiology Clinic, Cardiology Fellowship Program, Tufts Medical Center, Boston, MA
- 2010 *Lecturer*, Integrated Studies Program Faculty Lecture Series, Graduate School of Biomedical Studies, Tufts University School of Medicine, Boston, MA
- 2011-2013 *Thesis Committee External Member*, Paulo Wagner Pires, Department of Pharmacology and Toxicology. Michigan State University. Lansing, Michigan
- 2011-2016 *Scientific Advisory Committee Member*, NIH Mentored Clinical Scientist Career Development Award, Bradley Maron, Brigham and Women's Hospital, Boston, MA
- 2012 *PhD Qualifying Exam Committee Member*, Daisy Nakamura, Sackler School of Graduate Biomedical Sciences, Tufts Medical School, Boston, MA

- 2015 *PhD Qualifying Exam Committee Member*, Nafis Hasan, Sackler School of Graduate Biomedical Sciences, Tufts Medical School, Boston, MA
- 2015-2020 *Co-Mentor*, K08 Award, Camila Manrique, University of Missouri, Columbia, MO
- 2015-2019 *Thesis Committee Member*, Jessica Davis-Knowlton, Maine Medical Center MCRI and Sackler School of Graduate Biomedical Sciences, Boston, MA
- 2016 *Thesis Committee External Member*, Casey Carmichael, Boston University, Boston MA
- 2018-2023 *Scientific Advisory Committee Member*, NIH K08 Mentored Clinical Scientist Career Development Award, Kathryn J. Gray MD, PhD, Brigham and Women's Hospital, Boston, MA
- 2020-2025 *Scientific Advisory Committee Member*, NIH K08 Mentored Clinical Scientist Career Development Award, Vicky Yang VMD, PhD, Tufts Cummings School of Veterinary Medicine Boston, MA
- 2020 *PhD Qualifying Exam Committee Member*, Abraham Bayer, Immunology Program, Tufts Graduate School of Biomedical Sciences, Boston, MA
- 2020-2025 *Thesis Committee Member*, Abraham Bayer, Immunology Program, Tufts Graduate School of Biomedical Sciences, Boston, MA
- 2022 *PhD Qualifying Exam Committee Member*, Brandon Theall, Immunology Program, Tufts Graduate School of Biomedical Sciences, Boston, MA
- 2022-2025 *Thesis Committee Member*, Brandon Theall, Immunology Program, Tufts Graduate School of Biomedical Sciences, Boston, MA
- 2022- *External Thesis Committee Member*, Alanna Farrell, Boston University, Department of Bioengineering

PROFESSIONAL SOCIETIES:

- 2005- American Heart Association, Member
- 2010- American Heart Association-Atherosclerosis Thrombosis and Vascular Biology Council Member
- 2011-2017 International Aldosterone Conference Executive Committee
- 2012- Endocrine Society, Member
- 2012- American Heart Association-Hypertension Council, Member
- 2012- North American Vascular Biology Organization (NAVBO), Member
- 2013- American Society of Clinical Investigation, Elected Member
- 2014- American Physiologic Society, Member
- 2018- Interurban Clinical Club, Elected Member
- 2019- Association of University Cardiologists, Elected Member
- 2021- Association of American Physicians, Elected Member

MAJOR RESEARCH INTERESTS:

Molecular mechanisms of vascular disease:

1. The role of the steroid hormone aldosterone and the mineralocorticoid receptor in hypertension, vascular injury, and atherosclerosis.
2. Molecular mechanisms of steroid-regulated gene expression in the vasculature.
3. Mechanisms for sex differences in cardiovascular disease.
4. Mechanisms of cardiovascular aging.
5. Mechanisms of post-preeclampsia cardiovascular disease
6. Vascular complications of targeted cancer therapies

EDITORIAL BOARDS AND REVIEW ACTIVITIES:

ASSOCIATE EDITOR:

2019- Circulation
2015-2016 Clinical Science

EDITORIAL BOARDS:

2013-2016 Endocrinology
2017-2019 Hypertension

REVIEW ACTIVITIES:

Ad Hoc Reviewer for: *EMBO, Journal of Cardiac Failure, Journal of Clinical Investigation, Circulation Research, Circulation Genetics, American Journal of Cardiology, Molecular Endocrinology, Hypertension, Arteriosclerosis Thrombosis and Vascular Biology, Circulation, Biochimica et Biophysica Acta (BBA) - Molecular Cell Research, Molecular and Cellular Endocrinology, European Heart Journal, PLOS1, Circulation: Cardiovascular Genetics, Nature Reviews, Experimental Gerontology, Pharmacological Reviews, American Journal of Cardiology, American Journal of Physiology, Science Signaling*

STUDY SECTIONS:

2007 Member, American Heart Association, Northeast Affiliate Study Section
2008 Member, American Heart Association, Founders Affiliate Study Section
2008 Ad Hoc Reviewer, National Health and Medical Research Council of Australia
2013 Ad Hoc Reviewer, NIH Vascular Cell and Molecular Biology (VCMB) Study Section
2014 Member, NIH Special Emphasis Panel, ZRG1 VH-A (03), June 2014
2015 Chair, NIH Special Emphasis Panel, ZRG1 VH-C (03), Aug 2015
2015 Member, NIH Special Emphasis Panel, ZRG1 VH-C (02), Aug 2015
2015-2019 Charter Member, NIH Study Section: Vascular Cell and Molecular Biology (VCMB)

- 2017-2019 *Chair*, NIH Study Section: Vascular Cell and Molecular Biology (VCMB)
- 2020 *Member and Chair*, NIH Special Emphasis Panel, ZRG1 VH-C (02), Aug 2020
- 2024 *Ad Hoc Reviewer*, NIH Integrative Vascular Physiology and Pathology (IVPP) Study Section

PATENTS AND INTELLECTUAL PROPERTY:

Filed/Disclosed:

- 2010 “Placental Growth Factor Mediates Aldosterone-Dependent Vascular Injury”. U.S. Provisional Patent Application Serial No: 61/378,102
- 2015 “MicroRNA 155 (miR155) as a serum biomarker to predict and to monitor the response to mineralocorticoid receptor antagonist drugs and other high blood pressure therapies and as a potential novel treatment target for high blood pressure.” Disclosed 12-2015

RESEARCH SUPPORT:

Current

1. NIH R01 HL095590, “The Role of Vascular MR-Regulated Genes in Vascular Function and Disease”, PI: Iris Zamir Jaffe, MD, PhD, 2009 – 2025 (NCE to 3/2026), *competitive renewal submitted 7/2025, 8% score, Pending council review*
2. NIH R01 HL155078, “Novel strategies to understand, predict, and prevent vascular toxicity of targeted CML therapies” 2020-2024 (NCE to 12/2025), *competitive renewal submitted 2/2025*
3. NIH R01 HL119290, “Smooth Muscle Mineralocorticoid Receptors in Obesity-induced Vascular Stiffness” PI: Iris Z. Jaffe, MD, PhD, 2014-2028
4. NIH K12AR084217 “Tufts BIRCWH Program (K12)” PIs: Karen Freund MD and Iris Z. Jaffe MD, PhD, 2017-2027
5. NIH R01HL162919 “Investigating Mixed Lineage Kinase 3 as a blood pressure-independent protein kinase G1 effector in heart failure” PI: Robert Blanton, Co-I; Iris Z. Jaffe, 2022–2027

Current Support with Role as Mentor:

6. NIH/NCATS K12TR004384, “Endothelial cell dysfunction as a mechanism for increased risk of arterial thrombosis with BCR-ABL tyrosine kinase inhibitors”, PI: Richard Travers MD, PhD, Primary Mentor: Iris Z Jaffe, MD, PhD. 2024-2026.
7. NIH/NHLBI F30 HL170641-A1, “Mechanism of Ponatinib induced vascular toxicity”, PI: Alec Stepanian, Mentor: Iris Z Jaffe, MD, PhD. 2024-2026.
8. NIH/NHLBI F30HL175876 - 01A1, “Endothelial Cell Estrogen Receptor Alpha-mediated Mechanisms of Protection from Atherosclerosis Inflammation in Females, PI: Nicole Wolter, Mentor: Iris Z Jaffe, MD, PhD. Sept 2025-August 2027.

Completed:

1. NIH R01 CA243542, “Credentialing a Cross-Species Platform to Investigate Cancer Therapy-Associated Cardiovascular Toxicity” PI: Iris Z. Jaffe, Co-PI: Cheryl London, 2019-

2025

2. Tufts Springboard Tier 1 Grant, “Cardiovascular complications of immune checkpoint inhibitors”, PI: Iris Zamir Jaffe, MD, PhD, 2023-2025
3. NIH R01 HL13898801A1 “Mechanisms for Sex Differences in CVD Pathology and Development of a Targeted Therapeutic” PIs: Lakshmi Pulakat, Iris Z. Jaffe, 2018-2024
4. NIH R01 HL136386A1 “Mineralocorticoid receptor-dependent coronary vascular dysfunction in obesity” PI: Bender, PI; TMC Subcontract Iris Z. Jaffe MD, PhD, 2018-2022
5. NIH 1R01HL137694 “Cerebral parenchymal arteriole dysfunction and cognitive decline in a life-long high fat feeding model” PI: Dorrance, PI; TMC Subcontract Iris Z. Jaffe MD, PhD, 2017-2021
6. AHA EIA 18290005, American Heart Association Established Investigator Award, “Extra-Renal Mineralocorticoid Receptors in Hypertension and Atherosclerosis”. PI: Iris Zamir Jaffe, MD, PhD, 2014-2018.
7. NIH 3R01HL119290-02S1 “Sex Differences in SMC-MR Role in Vascular Aging and Hypertension” PI: Iris Zamir Jaffe, MD, PhD, 2015-2016
8. American Heart Association Grant-in-Aid, “The Role of Smooth Muscle Cell Mineralocorticoid Receptors in Regulation of Vascular Tone and Blood Pressure”. PI: Iris Zamir Jaffe, MD, PhD, 2011-2014.
9. Russo Family Charitable Foundation Pilot Grant, "Aldosterone Regulation of Transendothelial Migration: A Potential Novel Target for Heart Attack Prevention," PI: Iris Zamir Jaffe, MD, PhD, 2013-2014.
10. Italian Ministry of Health Young Investigator Award, “The Role of Vascular Smooth Muscle Cell Mineralocorticoid Receptors in Vascular Function and Disease” PI: Iris Zamir Jaffe, MD, PhD, 2010 – 2013.
11. Italian Ministry of Foreign Affairs Joint Italy/USA Significant Bilateral Project, “The Role of Endothelial Mineralocorticoid Receptors in Vascular Inflammation and Atherosclerosis” PI: Iris Zamir Jaffe, MD, PhD, 2011-2013.
12. Irma Mann Fellowship in Woman’s Heart Health, PI: Iris Zamir Jaffe, MD, PhD, 2011-2012.
13. American Heart Association Grant-in-Aid #0855920D “Role of Mineralocorticoid Receptor-Induced Placental Growth Factor Expression in Aldosterone-Stimulated Atherosclerosis”. PI: Iris Zamir Jaffe, MD, PhD, 2008 – 2011.
14. NIH CTSI Catalyst Grant, “Mechanisms of Cardiac Fibrosis in Hypertrophic Cardiomyopathy”. PI: Iris Zamir Jaffe, MD, PhD, 2009 – 2010
15. Tufts University School of Medicine, Natalie V. Zucker Research Center for Women Scholars, “Role of Placental Growth Factor in Aldosterone-Induced Atherosclerosis” PI: Iris Zamir Jaffe, MD, PhD, 2007-2008.
16. NIH K08 HL074892 “Mineralocorticoid Receptors in Cardiovascular Biology”, PI: Iris Zamir Jaffe, MD, PhD, 2005 – 2010.

Completed Support with Role as Mentor:

1. AHA Pre-doctoral Fellowship 25PRE137411, “Endothelial cell estrogen receptor alpha protects from atherosclerosis inflammation in females”, PI: Nicole Wolter, Mentor: Iris Z Jaffe,

MD, PhD. Jan 2025-Sept 2025.

2. American Heart Association, Pre-doctoral Fellowship “Mechanism of Ponatinib induced vascular toxicity”, PI: Alec Stepanian, Mentor: Iris Z Jaffe, MD, PhD. 2024 (declined in 2025 for NIH F30 award)
3. NIH F32 HL165838 “Endothelium as a mediator of BCR-ABL tyrosine kinase inhibitor vascular toxicity”. PI: Ricky Travers, Mentor: Iris Z Jaffe, MD, PhD. 2022-2024
4. American Heart Association, Postdoctoral Award (22POST903910) “SMC-Mineralocorticoid Receptor as and Epigenetic Regulator of Vascular Aging”, PI: Jaime Ibarrola, PhD; Mentor: Iris Z Jaffe, MD, PhD. 2022-2024.
5. NIH K99 HL161321 “Mechanisms of post-preeclampsia hypertension“ PI: Lauren Biwer, PhD; Mentor: Iris Z Jaffe, MD, PhD. 2022-2024
6. NIH F30 HL152505, “Role of Myeloid Mineralocorticoid Receptor Vascular Inflammation and Atherosclerosis” PI: Joshua Man; Mentor: Iris Z Jaffe, MD, PhD, 2019-2023
7. NIH F30 HL137255, “The Role of Endothelial Cell Mineralocorticoid Receptors in the Development of Vascular Inflammation and Atherosclerosis” PI: Mary Elizabeth Moss; Mentor: Iris Z Jaffe, MD, PhD, 2017-2021.
8. NIH BIRCWHK12, “Sexual dimorphic role of Angiotensin II type 2 receptor in vascular aging.”PI: Jennifer Dupont; Mentor: Iris Z Jaffe, MD, PhD, 2018-2021.
9. American Heart Association, Postdoctoral Award (19POST) “SMC-Mineralocorticoid Receptor Regulation in Vascular Fibrosis and Aging”, PI: Seung K. Kim, PhD; Mentor: Iris Z Jaffe, MD, PhD, declined for a faculty position.
10. American Heart Association, Pre-doctoral Award (17PRE32910003) “The Role of Endothelial Cell Mineralocorticoid Receptors in the Development of Vascular Inflammation and Atherosclerosis” PI: Mary Elizabeth Moss; Mentor: Iris Z Jaffe, MD, PhD, 2017.
11. American Heart Association, Postdoctoral Award (15POST2130000) “SMC-Mineralocorticoid Receptor Regulation of Aging-Associated Hypertension: Role of Vascular LTCC and Ang II Signaling”, PI: Jennifer Dupont, PhD; Mentor: Iris Z Jaffe, MD, PhD, 2015-2017.
12. American Heart Association, Pre-doctoral Award (13PRE16920014) “Role of Endothelial Mineralocorticoid Receptors in Early Morning Hypertension”, PI: Kathleen Barrett, Mentor: Iris Z Jaffe, MD, PhD; 2013-2015.
13. American Heart Association, Postdoctoral Award (11POST7590096) “The Role of Smooth Muscle Cell Mineralocorticoid Receptors in Blood Pressure Regulation and Vascular Injury”, PI: Amy McCurley, PhD; Mentor: Iris Z. Jaffe, MD, PhD; 2011-2013.
14. American Heart Association, Postdoctoral Award (11POST5390010) “The Molecular Mechanisms of Aldosterone-Stimulated Atherosclerosis”, PI: Adam McGraw, PhD, Mentor: Iris Z. Jaffe, MD, PhD; 1/2011-12/2012

SPONSORED RESEARCH:

Current: NA

Completed:

1. Novartis Pharmaceuticals Co, Preclinical Research Study LCZ696BUSNC19T “Exploring the benefits of LCZ696 in pressure overload-induced heart failure and mechanisms by which dual neutral endopeptidase and angiotensin receptor inhibition with LCZ696 prevents pathologic cardiac remodeling” PI: Robert Blanton, Co-PI: Iris Zamir Jaffe, MD, PhD, 2017-2018.
2. Novartis Pharmaceuticals Co, Preclinical Research Study RLX030AUSNC14T “Acute and Sustained Cardiac and Vascular Effects of Serelaxin in the Angiotensin II/L-NAME Heart Failure Model”. PI: Iris Zamir Jaffe, MD, PhD, 2014-2015.
3. Karyopharm Therapeutics Inc. “Efficacy of KPT compounds in phenylephrine-induced cardiac myocyte hypertrophy”. Co-PIs: Iris Zamir Jaffe, MD, PhD and Robert Blanton, MD. 2015.
4. Merck Co, Research Collaboration “Characterization of the Effects of Eplerenone in a Mouse Wire Injury Model of Vascular Disease”. PI: Iris Zamir Jaffe, MD, PhD, 2011-2.

PUBLICATIONS:*=corresponding author,#=contributed equally,^=co-corresponding author

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8. **Jaffe IZ** and Mendelsohn ME. Angiotensin II and Aldosterone Regulate Gene Transcription Via Functional Mineralocorticoid Receptors In Human Coronary Artery Smooth Muscle Cells. *Circulation Research* 2005;96:643-650. PMID: 15718497.

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9. **Jaffe IZ***, Tintut Y, Newfell BG, Demer LL, Mendelsohn ME. Mineralocorticoid Receptor Activation Promotes Vascular Cell Calcification *Arterio Thromb Vasc Biol* 2007;27:799-805. PMID: 17234727.

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Selected for Commentaries on Cutting Edge Science, Schiffrin EL *Circ Res*, 2013;112:415-417.

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24. McCurley A, McGraw AP, Pruthi D, and **Jaffe IZ***. Smooth Muscle Cell Mineralocorticoid Receptors: Role in Vascular Function and Contribution to Cardiovascular Disease. *Pflugers Arch*. 2013; 465(12):1661-1670. PMID:23636772, PMID:PMC3769467.
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26. McGraw AP, McCurley A, Preston IR and **Jaffe IZ***. Mineralocorticoid Receptors in Vascular Disease: Connecting Molecular Pathways to Clinical Implications. *Curr Atheroscl Rep* 2013;15(7):340. PMID:23719923; NIHMS #647127.
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37. Pruthi D[#], Khankin E[#], Blanton R, Aronovitz M, Burke S, Stillman I, McCurley A, Karumanchi SA[^], and **Jaffe IZ[^]**. Exposure to Experimental Preeclampsia in Mice Enhances the Vascular Response to Injury Later in Life. *Hypertension*, 2015;65(4):863-870. PMID:25712723 PMCID: PMC4359068

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38. Bender SB, DeMarco VG, Padilla J, Jenkins NT, Habibi J, Garro M, Pulakat L, Aroor AR, **Jaffe IZ**, and Sowers JR. Mineralocorticoid receptor antagonism treats obesity-associated cardiac diastolic dysfunction. *Hypertension*, 2015;65(5):1082-1088. PMID: 25712719; PMCID: PMC4393340

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39. Mueller KB, Bender SB, Hong K, Yang Y, Aronovitz M, Jaisser F, Hill MA, and **Jaffe IZ***. Endothelial Mineralocorticoid Receptors Differentially Contribute to Coronary and Mesenteric Vascular Function without Modulating Blood Pressure, *Hypertension*, 2015; 66:988-997. PMID:26351033, PMCID:PMC4600033.

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(2) <http://www.medindia.net/news/hypertension-in-elderly-linked-to-down-regulation-of-microrna-155-163286-1.htm?>;

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55. McCarthy JC, Aronovitz M, Dupont JJ, Calamaras T, **Jaffe IZ#** and Blanton RM[#]. Temporary administration of serelaxin improves vascular, but not cardiac, structure and function in the Angiotensin II/L-NAME model of heart failure. *JACC: Basic to Translational Science* Volume 2, Issue 3, June 2017; DOI: 10.1016/j.jacbts.2017.03.011
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58. Diaz-Otero JM, Fisher C, Downs K, **Jaffe IZ**, Jackson WF and Dorrance AM. The Endothelial Mineralocorticoid Receptor Mediates Parenchymal Arteriole and Posterior Cerebral Artery Remodeling. *Hypertension* 2017;70(6):1113-1121. PMID:28974571, PMCID:PMC5680120.
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63. Shukri MZ[#], Tan JW[#], Manosroi W, Pojoga LH, Rivera A, Williams JS, Seely EW, Adler GK, **Jaffe IZ**, Karas RH, Williams GH and Romero JR. Biological Sex Modulates the Adrenal and

Blood Pressure Responses to Angiotensin II. *Hypertension* 2018; 71(6):1083-1090 PMID: 29686001 PMCID: PMC6086591

Subject of Editorial: Friedrich C. Luft. Salt, Blood Pressure, and Aldosterone in Women and men *Hypertension* 2018 71;1026-1027.

64. Moss ME, Dupont JJ, McGraw AP, Iyer S and **Jaffe IZ***. No Significant Role for Smooth Muscle Cell Mineralocorticoid Receptors in Atherosclerosis in the Apolipoprotein-E Knockout Mouse Model. *Front Cardiovasc Med* 2018;5:81. doi: 10.3389/fcvm.2018.00081. eCollection 2018. PMID: 30038907 PMCID: PMC6046374.
65. Davel AP, **Jaffe IZ**, Tostes RC, Jaisser F and Belin de Chantemele EJ. New Roles of Aldosterone and Mineralocorticoid Receptors in Cardiovascular Disease: Translational and Sex-Specific Effects. AJP-Heart and Circulatory Physiology, Invited Review. *Am J Physiol Heart Circ Physiol*, 2018 315(4): H989–H999 PMID:29957022 PMCID: PMC6230900
66. Gopal S, Lu Q, Man JJ, Baur W, Rao S, Litichevskiy L, Papanastasiou M, Creech AL, DeRuff KC, Mullahoo J, Officer A, Egri S, Davison D, Jaffe JD and **Jaffe IZ***. A Phosphoproteomic Signature Predicts Vascular Toxicity of Tyrosine Kinase Inhibitors Used in CML. *Blood Adv*, 2018; 2(14):1680-1684. DOI 10.1182/bloodadvances.2018020396. PMID: 30021779 PMCID: PMC6058230
67. Esposito ML, Zhang Y, Qiao X, Reyelt L, Paruchuri V, Schnitzler GR, Morine KJ, Annamalai SK, Bogins C, Natov PS, Pedicini R, Breton C, Mullin A, Mackey EE, Patel A, Rowin E, **Jaffe IZ**, Karas RH, Kapur NK. Left Ventricular Unloading Before Reperfusion Promotes Functional Recovery After Acute Myocardial Infarction. *J Am Coll Cardiol* 2018; 72(5):501-514. PMID: 30049311 PMCID: PMC6817809
68. Biwer LA, Wallingford M, and **Jaffe IZ***. Vascular Mineralocorticoid Receptor: Evolutionary mediator of wound healing turned bad by our modern lifestyle. *Am J Hypertension* 2019 Jan15;32(2):123-134. doi: 10.1093/ajh/hpy158.PMID:30380007 PMCID: PMC6331708
69. DuPont JJ*, Kenney RM, Patel AR, and **Jaffe IZ**. Sex Differences in Arterial Stiffness. *Br J Pharmacol* 2019 176(21):4208-4225. PMID: 30767200 PMCID: PMC6877796
70. Aroor AR, Habibi J, Nistala R, Ramirez-Perez FI, Martinez-Lemus LA, **Jaffe IZ**, Sowers JR, Jia G, Whalley-Connel A. Diet induced obesity promotes kidney endothelial stiffening and fibrosis dependent on the endothelial mineralocorticoid receptor. *Hypertension* 2019 73(4):849-858. PMID:30827147 PMCID: PMC6448566
71. Zisa D, Colin S Hirst C, Chweich H, Conway L, **Jaffe I**, Navin K Kapur NK. Univentricular right heart support using a single axial flow catheter for high risk multivessel percutaneous coronary intervention. *Cardiovascular Revascularization Medicine* 2019 Nov;20(11S):28-30. doi: 10.1016/j.carrev.2019.05.025. Epub 2019 Jun 19. PMID:31255553
72. Moss ME, Carvajal B, and Jaffe IZ. The Endothelial Mineralocorticoid Receptor: Contributions to Sex Differences in Cardiovascular Disease. *Pharmacol Ther* 2019. Jul 2; doi: 10.1016/j.pharmthera.2019.06.009. PMID:31271793 PMCID: PMC6848769
73. Faulkner JL, Kennard S, Huby AC, Antonova A, Lu Q, **Jaffe IZ**, Patel VS, Fulton DJR, Belin de Chantemèle EJ. Progesterone predisposes females to obesity-associated leptin-mediated endothelial dysfunction via upregulating endothelial mineralocorticoid receptor expression, *Hypertension* 2019 74(3):678-686. PMID:31327274 PMCID: PMC6687552
74. Moss ME, Lu Q, Iyer SL, Engelbertsen D, Marzolla V, Caprio M, Lichtman AH and **Jaffe IZ***. Endothelial Mineralocorticoid Receptors Contribute to Vascular Inflammation in

Atherosclerosis in a Sex-Specific Manner. *Athero Thromb Vasc Biol* 2019 39(8):1588-1601. PMID 31294624 PMCID: PMC6656626

75. Lu Q, Davel AP, McGraw AP, Rao S, Newfell BG and **Jaffe IZ***. PKCdelta Mediates Mineralocorticoid Receptors Activation by Angiotensin II to Modulate Smooth Muscle Cell Function *Endocrinol* 2019 160(9):2101-2114 doi: 10.1210/en.2019-00258. PMID:31373631 PMCID: PMC6735772
76. Gorini S, Kim SK, Infante M, Mammi C, Fabbri A, **Jaffe IZ**, Caprio M. Role of the mineralocorticoid receptor in cardiovascular aging. *Front Endocrinol* 2019 10:584. doi: 10.3389/fendo.2019.00584, PMID:31507534. PMCID: PMC6716354
77. Beckman JA, Doherty SP, Feldman ZB, Banks ES, Moslehi J, **Jaffe IZ**, Hamburg NM, Sheng Q and Brown JD. Comparative transcriptomic analysis of cultured and isolated human endothelial cells reveals distinct yet overlapping gene expression profiles. *JACC Basic Tranl Sci* 2019 4(5):567 PMID:31768474 PMCID: PMC6872769
78. Man JJ, Beckman JA and **Jaffe IZ***. Sex as a Biological Variable in Atherosclerosis. *Circ Res* 2020 Apr 24;126(9):1297-1319 PMID: 32324497 PMCID: PMC7185045.
79. Tam K, Richards DA, Aronovitz MJ, Martin GL, Pande S, **Jaffe IZ** and Blanton RM. Sacubitril/Valsartan Improves Left Ventricular Function in Chronic Pressure Overload Independent of Intact Cyclic Guanosine Monophosphate-dependent Protein Kinase I Alpha Signaling. *J Card Fail* 2020 Sep;26(9):769-775. PMID: 32464187. PMCID: PMC7529795
80. Faulkner JL, Lluch E, Kennard S, Antonova G, **Jaffe IZ**, Belin de Chantemèle EJ. Selective deletion of endothelial mineralocorticoid receptor protects from vascular dysfunction in sodium-restricted female mice. *Biol Sex Differ*. 2020 Nov 23;11(1):64. PMID: 33228767 PMCID: PMC7685592.
81. DuPont JJ, Kim SK, Kenney RM, **Jaffe IZ***. Sex differences in the time course and mechanisms of vascular and cardiac aging in mice: role of the smooth muscle cell mineralocorticoid receptor. *Am J Physiol Heart Circ Physiol*. 2020 Oct 23;320(1):H169–H180. PMID: 33095647
82. Kim SK, Biber LA, Moss ME, Man JJ, Aronowitz MJ, Martin GL, Carrillo-Salinas FJ, Salvador AM, Alcaide P and **Jaffe IZ***. Mineralocorticoid Receptor in Smooth Muscle Contributes to Pressure Overload-Induced Heart Failure. *Circulation Heart Failure* 2021 Feb;14(2):e007279. doi: 10.1161/CIRCHEARTFAILURE.120.007279. PMID: 33517669
83. Biber LA, Carvajal BV, Lu Q, Man JJ and **Jaffe IZ***. Mineralocorticoid and Estrogen Receptors in Endothelial Cells Coordinately Regulate Microvascular Function in Obese Female Mice. *Hypertension* 2021 Jun;77(6):2117-2126. doi: 10.1161/HYPERTENSIONAHA.120.16911. Epub 2021 May 3. PMID: 33934622
- Selected as High Impact Paper in Hypertension: Basic Science, 2021**
84. Goodwill AG, Baker HE, Dick GM, McCallinhart PE, Bailey CA, Brown SM, Man JJ, Tharp DL, Clark HE, Blaettner BS, **Jaffe IZ**, Bowles DK, Trask AJ, Tune JD, Bender SB. Mineralocorticoid receptor blockade normalizes coronary resistance in obese swine independent of functional alterations in K_v channels. *Basic Res Cardiol* 2021 May 20;116(1):35. doi: 10.1007/s00395-021-00879-3. PMID: 34018061
85. Menon DP, Qi G, Kim SK, Moss ME, Penumatsa KC, Warburton RR, Toksoz D, Wilson J, Hill NS, **Jaffe IZ**, Preston IR. *Pulm Circ*. 2021. Jun 18;11(3):20458940211025240. doi: 10.1177/20458940211025240. PMID: 34211700

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87. Man JJ, Lu Q, Moss ME, Carvajal B, Baur W, Garza AE, Freeman R, Anastasiou M, Ngwenyama N, Adler GK, Alcaide P and **Jaffe IZ**^{*}. Myeloid Mineralocorticoid Receptor Transcriptionally Regulates P-selectin Glycoprotein Ligand-1 and Promotes Monocyte Trafficking and Atherosclerosis. *Athero Thromb Vasc Biol*, 2021. 41(11):2740-2755. doi: 10.1161/ATVBAHA.121.316929. PMID: 34615372

Selected as Editors Pick in ATVB: November, 2021

88. Shuey MM[#], Xiang RR[#], Moss ME, Carvajal BV, Wang Y, Camarda N, Fabbri D, Rahman P, Ramsey J, Stepanian A, Sebastiani P, Wells QS[^], Beckman JA[^] and **Jaffe IZ**[^]. A Systems Approach to Integrating Preclinical ApoE-KO Investigations Reveals Novel Etiologic Pathways and Master Atherosclerosis Network in Humans. *Athero Thromb Vasc Biol*, 2022. 42(1):35-48. doi: 10.1161/ATVBAHA.121.317071. PMID: 34758633
89. Ibarrola J, Kim SK, Lu Q, DuPont J, Creech A, Sun Z, Hill MA, Jaffe JD and **Jaffe IZ**^{*}. Smooth Muscle Mineralocorticoid Receptor as an Epigenetic Regulator of Vascular Aging. *Cardiovascular Research*, 2022 Jan 10:cvac007. doi: 10.1093/cvr/cvac007. PMID: 35020830
90. Camarda N[#], Travers R[#], Yang V, London CA and **Jaffe IZ**^{*}. VEGF Receptor Inhibitor-induced Hypertension: Emerging Mechanisms and Clinical Implications. *Current Oncologic Reports*. 2022 Apr;24(4):463-474. doi: 10.1007/s11912-022-01224-0. Epub 2022 Feb 18. PMID: 35179707
91. Faulkner JL, Wright D, Antonova G, **Jaffe IZ**, Kennard S and Belin de Chantemele EJ. Midgestation leptin infusion induces characteristics of clinical preeclampsia in mice which is ablated by endothelial mineralocorticoid receptor deletion. *Hypertension* 2022. 79(7):1536-1547. PMID: 35510543
92. **Jaffe IZ**^{*}. Histone Acetyltransferases in Smooth Muscle Cell Phenotype Switching: Redundant No Longer. 2022 Jun 7;145(23):1738-1740. Invited Editorial. PMID: 35858116; PMCID: PMC9586310.
93. Upshaw JN, Travers R and Jaffe IZ^{*}. ROCK and Rolling Towards Predicting BCR-ABL Kinase Inhibitor-induced Vascular Toxicity, Invited Editorial, *JACC Cardiooncology* 2022. 20;4(3):384-386. doi: 10.1016/j.jacc.2022.07.001. PMID: 36213362
94. Ibarrola J, Lu Q, Zennarro MC and **Jaffe IZ**^{*}. Mechanism by which Inflammation and Oxidative Stress Induce Mineralocorticoid Receptor Gene Expression in Aging Vascular Smooth Muscle Cells. *Hypertension* 2023 80:111-124. PMID: 36337050
95. Wolter N and **Jaffe IZ**^{*}. Emerging vascular cell-specific roles for mineralocorticoid receptor: implications for understanding sex differences in cardiovascular disease. *Am J Physiol Cell Physiol*. 2023 Jan 1;324(1):C193-C204. doi: 10.1152/ajpcell.00372.2022. Epub 2022 Nov 28. PMID: 36440858
96. Biwer LA, Lu Q, Ibarrola J, Stepanian A, Carvajal B, Man JJ, Camarda ND, Zsengeller Z, Skurnik G, Seely E, Karumanchi SA, **Jaffe IZ**^{*}. Smooth Muscle Mineralocorticoid Receptor Promotes Hypertension After Preeclampsia, *Circulation Research* 2023 Mar 17;132(6):674-689. doi: 10.1161/CIRCRESAHA.122.321228. Epub 2023 Feb 23. PMID: 36815487

97. Boukhalifa A, Robinson SR, Meola DM, Robinson NA, Ling LA, LaMastro JN, Upshaw JN, Pulakat L, **Jaffe IZ**, London CA, Chen HH, Yang VK. Using cultured canine cardiac sclices to model autophagic flux with doxorubicin. *PLoS One*. 2023 Mar 16;18(3):e0282859. doi: 10.1371/journal.pone.0282859. eCollection 2023. PMID: 36928870
98. Dona MSI, Hsu I, Meuth AI, Brown SM, Bailey CA, Aragonz CG, Russell JJ, Krstevski C, Aroor AR, Chandrasekar B, Martinez-Lemus LA, DeMarco VG, Grisanti LA, **Jaffe IZ**, Pinto AR, Bender SB. Multi-omic analysis of the cardiac cellulome defines a vascular contribution to cardiac diastolic dysfunction in obese female mice. *Basic Res Cardiol*. 2023 Mar 29;118(1):11. doi: 10.1007/s00395-023-00983-6. PMID: 36988733
99. Upshaw JN, Nelson J, Rodday AM, Kumar AJ, Klein AK, Konstam MA, Wong JB, **Jaffe IZ**, Ky B, Friedberg JW, Maurer M, Kent DM, Parsons SK. Association of Preexisting Heart Failure with Outcomes in Older Patients With Diffuse Large B-Cell Lymphoma. *JAMA Cardiol*. 2023 Mar 29. doi: 10.1001/jamacardio.2023.0303. PMID: 36988926
- Subject of Editorial:** Ana Barac, Assessing Heart Failure vs Lymphoma Treatment Risks and Benefits – It Takes Two to Tango
100. Wang Y, Travers RJ, Farrell A, Lu Q, Bays JL, Stepanian A, Chen C, **Jaffe IZ***. Differential vascular endothelial cell toxicity of established and novel BCR-ABL tyrosine kinase inhibitors. *PLoS One* 2023 Nov 20;18(11):e0294438. doi: 10.1371/journal.pone.0294438. PMID: 37983208
101. Pintye D, Sziva RE, Biber LA, Karreci ES, Jacas S, Mastuygin M, Torok M, Young BC, PJagtap P, Southan GJ, **Jaffe IZ**, Zsengellér ZK. A Novel Dual-Function Nitric Oxide Donor Therapy for Preeclampsia-A Proof-of-Principle Study in a Murine Model. *Antioxidants* 2023, 12(12):2036. PMID: 38136156
101. Ibarrola J and **Jaffe IZ***. The Mineralocorticoid Receptor in the Vasculature: Friend or Foe? *Annu Rev Physiol*. 2024 Feb 12;49-70, PMID 37788489
103. **Jaffe IZ*** and Karumanchi SA*. Lipid Droplets in the Endothelium: The Missing Link Between Metabolic Syndrome and Cardiovascular Disease? *J Clin Invest*. 2024;134(4):e176347. doi: 10.1172/JCI176347. PMID: 38357921
104. Ibarrola J, Xiang RR, Sun Z, Lu Q, Hill MA, and **Jaffe IZ***. Inhibition of the Histone Methyltransferase EZH2 Induces Vascular Stiffness. *Clinical Science*. 2024 ;138(5):251-268. doi: 10.1042/CS20231478. PMID: 38362910
105. Camarda ND, Ibarrola J, Biber LA and **Jaffe IZ***. Mineralocorticoid Receptors in Vascular Smooth Muscle: Blood Pressure and Beyond. *Hypertension*, 2024 May;81(5):1008-1020 PMID: 38426347
- Invited Review for AHA 100th anniversary
106. Shuey MM, Wang Y, Xiang RR, Zou A, Rahman P, Fabbri D, Beckman JA, **Jaffe IZ** and Wells QS. Aggregation and Contextualization of Murine Investigations Improves Discovery of Significant Human Atherosclerotic Cardiovascular Disease Associations. *Circulation*. 2024 26;149(13):1056-1058. doi: 10.1161/CIRCULATIONAHA.123.067510, PMID: 38527133
107. Biber LA*, Man JJ, Camarda ND, Carvajal BV, Karumanchi SA and **Jaffe IZ**. Prior Exposure to Experimental Preeclampsia Increases Atherosclerotic Plaque Inflammation in Atherogenic Mice. 2023, *Arterioscler Thromb Vasc Biol*. 2024 Apr;44(4):946-953. doi: 10.1161/ATVBAHA.123.320474. PMID: 38450510

Selected as Feature Article in ATVB: April, 2024

Awarded Daniel Steinberg Early Career Investigator Award in Atherosclerosis: paper chosen as best of ATVB in 2024.

108. Xiang RR, Wang Y, Shuey MM, Carvajal BV, Wells QS, Beckman JA and **Jaffe IZ***. Development and implementation of an integrated preclinical atherosclerosis database. 2024, *Circulation: Genomic and Precision Medicine*. 2024 Apr;17(2):e004397. doi: 10.1161/CIRCGEN.123.004397. PMID: 38563135
109. Camarda ND, Lu Q, Meola DM, Man JJ, Song Z, Travers RJ, Lopez KE, Powers SN, Papanastasiou M, DeRuff KC, Mullahoo J, Egri SB, Davison D, Sebastiani P, Eblen ST, Buchsbaum R, Huggins GS, London CA, Jaffe JD, Upshaw JN, Yang VK and **Jaffe IZ***. Identifying mitigating strategies for endothelial cell dysfunction and hypertension in response to VEGF receptor inhibitors. *Clinical Science*. 2024 Sep 18;138(18):1131-1150. doi: 10.1042/CS20240537.PMID: 39282930
110. Travers RJ, Stepanian A, and **Jaffe IZ***. The Endothelium as a Source of Cardiovascular Toxicity from Anti-Tumor Kinase Inhibitors *Arterioscler Thromb Vasc Biol*. 2024 Oct;44(10):2143-2153. PMID: 39145393

Selected as "Editors Pick" in ATVB: Oct, 2024

111. Camarda NC, Lu Q, Tesfu AF, Liu RR, Ibarrola J and **Jaffe IZ***. Mineralocorticoid Receptor in Endothelial Cells Contributes to VEGF Receptor Inhibitor-Induced Vascular and Kidney Damage, *Am. J Hypertension* 2025, Jan 16;38(2):104-110. doi: 10.1093/ajh/hpae140.PMID: 39514632
112. Turner CG, Oliveira K, Lu Q, Patel AR, Pulakat L, **Jaffe IZ**, DuPont JJ. Microvascular angiotensin II type 2 receptor function is enhanced in young females and declines in a model of murine aging, *Jnl of Cardiovascular Aging*, 2024 Jul;4(2):19. doi: 10.20517/jca.2024.09. Epub 2024 Aug 14.PMID: 40290368
113. Behzadi P, Wendling A, Cuevas R, Crane A, Chu C, Moorhead III W, Wong R, Brown M, Tamakloe J, Suresh S, Salehi P, **Jaffe IZ**, Kuipers A, Lukashova L, Verdellis K and St. Hilaire C. Rapamycin Reduces Arterial Mineral Density and Promotes Beneficial Vascular Remodeling in a Murine Model of Severe Medial Arterial Calcification. *Am J Physiol Heart and Circ*. 2025 May 8. doi: 10.1152/ajpheart.00530.2024. PMID: 40338175
114. Lopez KE, Meola DM, Camarda ND, Upshaw JN, **Jaffe IZ**, London CA and Yang VK. Impact of the VEGF inhibitor toceranib on cardiac function and endothelial dysfunction biomarkers in canine cancer patients. *Journal of Veterinary Internal Medicine*, 2025, May-Jun;39(3):e70115. doi: 10.1111/jvim.70115. PMID: 40375566
115. Turner CG, Oliveira K, **Jaffe IZ** and DuPont JJ. Mineralocorticoid and estrogen receptors as sex-dependent modulators of vascular health in aging and obesity. *Jnl Pharmacol Exp Ther* 2025, Apr 25;392(6):103591. doi: 10.1016/j.jpvet.2025.103591 PMID: 40382811
116. Turner CG, Kenney R, Vorn J, Kim SK, Martin G, Pulakat L, **Jaffe IZ**, and DuPont JJ. The angiotensin II type 2 receptor attenuates aging-associated arterial stiffness in female mice. *AJP-Heart and Circulatory Physiology*, 2025, Jul 7. doi: 10.1152/ajpheart.00328.2025.
117. Travers RJ, Camarda ND, **Jaffe IZ**, Lizcano R and Upshaw JN. Permissive Cardiotoxicity and Determination of Anthracycline Risk with Previous Anthracycline

Exposure. *JACC: Case Reports*, 2025, Jul 9;30(18):104028. doi: 10.1016/j.jaccas.2025.104028.PMID: 40645690

118. Stepanian A, Travers RJ, Tesfu AF, Wolter N, Man JJ, Lu Q, Shamsuzzaman S, Deaton R, Owens G and **Jaffe IZ***. Ponatinib, but not the new Abl-kinase inhibitor asciminib, activates platelets, leukocytes, and endothelial cell TNF signaling to induce atherosclerotic plaque inflammation, myocardial infarction, and stroke. *Circulation*. 2025 Sep 16;152(11):765-783. PMID: 40762051

Press:

[Tufts Medical Center-Led Study Identifies Safer Path Forward for Cancer Patients at Risk of Heart Disease | Tufts Medicine](#)
[Cardio-oncology: Treating Cancer Without Harming the Heart American Association for Cancer Research \(AACR\) - New Theory of Cancer](#)

119. Travers RJ, Stepanian A, Redford S, Martin GL, Xu K, Merrill-Skoloff G, Chen C, Robert Flaumenhaft R, **Jaffe IZ**, Distinct Endothelial Cell toxicities of Abl Tyrosine Kinase Inhibitors Lead to Arterial Thrombosis, *Blood Vessels, Thrombosis and Hemostasis* 2025 Nov 17;3(1):100127. doi: 10.1016/j.bvth.2025.100127. PMID: 41573101
120. Zhang L, Iliescu C, Ferencik M, Finamore V, Beavers C, Patel AR, Ghoshhajra B, Milgrom S, Dent S, Baldassarre LA, **Jaffe IZ**, Lopez-Mattei J. Coronary Atherosclerosis in Patients With Cancer and Survivors: A Scientific Statement From the American Heart Association. *Circulation*. 2026 Feb 9. doi: 10.1161/CIR.0000000000001391. PMID: 41657216
121. Meola D, Yu A, Majidipur A, Showers A, Valencia DA, Akomeah-Sirleaf EF, Upshaw J, London C, **Jaffe IZ**, Sosnovik D, Pulakat L, Yang V and Chen H. Carvedilol exerts cardioprotective effects against doxorubicin toxicity via autophagy modulation and energetics restoration. *Scientific Reports (In Press)*
122. An W and **Jaffe IZ**. Emerging Roles for Endothelial MR in Disease Pathophysiology Reveals New Targets for Traditional and Novel MR Antagonists. *Current Opinion in Physiology (In Press)* doi.org/10.1016/j.cophys.2025.100893

Submitted:

123. Svedberg NL, Lu Q, Stepanian A, Man JJ and Jaffe IZ. Endothelial cell estrogen receptor alpha protects from atherosclerotic plaque inflammation in females and males, *Circulation Research (Revision under review)*
124. Golec S, Viadya A, Pitt B and Jaffe IZ Novel Mechanisms and Therapies for Mineralocorticoid-driven Age-related Hypertension. *Circulation Research (Under review)*

INVITED LECTURES: (2008-present)

Local:

- 2010 Endocrinology Grand Rounds, Beth Israel Deaconess Medical Center. Boston, MA.
- 2011 Invited Speaker, Massachusetts General Hospital Cardiovascular Research Center. Boston, MA.
- 2011 Medicine Grand Rounds, Tufts Medical Center, Boston, MA.

- 2011 Invited Speaker, Beth Israel Deaconess Medical Center, Cardiovascular Research Seminar. Boston, MA.
- 2012 Endocrinology Grand Rounds, Brigham and Women's Hospital, Boston, MA.
- 2014 Endocrinology Grand Rounds, Tufts Medical Center, Boston, MA.
- 2014 Invited Speaker, Center for Life Sciences Cardiology Basic Research Seminar Series, Beth Israel Deaconess Medical Center. Boston, MA.
- 2016 Invited Speaker, Massachusetts General Hospital Cardiovascular Research Center. Boston, MA.
- 2016 Invited Speaker, Nephrology Seminar, University of Massachusetts, Worcester, MA
- 2017 Medicine Grand Rounds, Tufts Medical Center, Boston, MA.
- 2017 Broad Cardiovascular Disease Initiative, Broad Institute, Cambridge, MA
- 2017 BIDMC Cardiology Grand Rounds, Boston, MA.
- 2018 Invited Speaker, Interurban Clinical Club, Boston MA
- 2018 Invited Speaker, Boston University, Whitaker Cardiovascular Research Institute
- 2019 Brigham and Women's Hospital, Cardiology Grand Rounds, Boston, MA
- 2020 BWH Cardiovascular Life Sciences Invited Seminar, Boston, MA
- 2020 Cardiology Grand Rounds, West Roxbury VA, Boston, MA
- 2022 Cardiovascular Symposium, Broad Institute, Boston, MA
- 2022 Massachusetts General Hospital CVRC, Boston, MA
- 2022 Endocrinology Grand Rounds, Tufts Medical Center, Boston, MA.
- 2023 Boston Children's Hospital, Vascular Biology Seminar, Boston, MA
- 2023 Cardiology Grand Rounds, Beth Israel Deaconess Medical Center, Boston, MA
- 2026 Biomedical Engineering Seminar Speaker, Tufts University, Medford, MA
- 2026, Feb Keynote Speaker, American Society for Biochemistry and Molecular Biology, Boston Area Student Association Conference
- National:**
- 2008 Symposium Speaker, 34th International Aldosterone Conference. San Fransisco, CA.
- 2009 Symposium Speaker, 35th International Aldosterone Conference. Washington DC.
- 2010 Invited Plenary Speaker, Keystone Symposium: Nuclear Receptors: Signaling, Gene Regulation, and Cancer. Keystone, CO.
- 2010 Symposium Speaker, 36th International Aldosterone Conference. San Diego, CA.
- 2010 Invited Speaker, American Society of Nephrology. Denver, CO.
- 2011 Invited Speaker, Michigan State University Department of Pharmacology and Toxicology. Lansing, Michigan.
- 2011 Invited Scientific Symposium Speaker, Endocrine Society Annual Meeting. "Extra-

Renal Actions of Aldosterone". Boston, MA.

- 2011 Invited Speaker, American Physiologic Society 7th International Symposium on Aldosterone and the ENaC/Degenerin Family of Ion Channels. Pacific Grove, California.
- 2011 Invited Cardiovascular Seminar Speaker, American Heart Association Scientific Sessions. *Aldosterone and Mineralocorticoid Receptors: Role in Atherosclerosis*. Orlando, FL.
- 2012 Invited Speaker, NIH: National Institute of Environmental Health Sciences, Research Triangle Park, NC.
- 2012 Cardiology Grand Rounds, University of Missouri School of Medicine, Columbia, MO.
- 2012 Visiting Professor, Dalton Cardiovascular Research Center Research Seminar, University of Missouri School of Medicine, Columbia, MO.
- 2012 Invited Speaker, American Society of Hypertension, New York City, New York.
- 2013 Cardiovascular Medicine Grand Rounds, Harrington Heart and Vascular Institute, Case Western Reserve University, Cleveland, Ohio.
- 2013 Cardiology Grand Rounds, Vanderbilt University Medical Center, Nashville TN.
- 2013 Vanderbilt Vascular Biology Center Lecture Series, Vanderbilt University Medical Center, Nashville TN.
- 2013 American Society of Hypertension, Young Scholar Award Lecture. San Francisco, CA.
- 2013 Symposium Speaker, 39th International Aldosterone Conference. San Francisco, CA.
- 2013 Invited Keynote Lecture, Microcirculatory Society (MCS) and the North American Vascular Biology Organization (NAVBO) joint conference, Cape Cod, MA.
- 2014 Department of Physiology Research Seminar Series, Georgia Regents University, Augusta, GA.
- 2014 Vascular Medicine Institute, University of Pittsburgh, Pittsburgh, PA.
- 2015 Cardiovascular Research Center, University of Kentucky, Lexington, KY.
- 2015 Invited Speaker, American Society of Hypertension, New York, NY.
- 2015 Invited Speaker, American Heart Association Scientific Sessions. *Sex Differences in Hypertension*. Orlando, FL.
- 2016 Cardiovascular Research Center, University of Virginia, Charlottesville, VA.
- 2016 Wiggers Award Featured Topic Symposium "Emerging Paradigms of Vascular Smooth Muscle Function and Dysfunction", Experimental Biology 2016, San Diego, CA.
- 2016 Invited Speaker: Arteriosclerosis, Thrombosis and Vascular Biology/Peripheral Vascular Disease (ATVB/PVD) 2016 Scientific Sessions, "Translational Science of Vascular Medicine: Vascular Dysfunction" session, Nashville, TN.
- 2016 Invited Speaker: American Heart Association Scientific Sessions, Session:

- “Aldosterone and Accomplices in Salty Crime” New Orleans, LA.
- 2016 Invited Speaker: American Heart Association Scientific Sessions, Session: “Vascular Aging: Novel Regulation and Contribution of Smooth Muscle Cells”. New Orleans, LA.
- 2017 Symposium Speaker, 42nd International Aldosterone Conference. Orlando, FL.
- 2017 Meredith S. and John A. Oates Lecture in Clinical Pharmacology, Medical Grand Rounds, Vanderbilt University, Nashville, TN.
- 2018 Ralph L. Nachman Vascular and Biology Seminar Series, Weill Cornell Medical College, New York, NY
- 2018 Invited Symposium Speaker, Endo 2018: Endocrine Society 100th annual meeting, *Mineralocorticoid Receptor Actions in the Vasculature*, Chicago, IL
- 2018 Invited Symposium Speaker, Experimental Biology, *Mineralocorticoid Receptors in Vascular Function and Cardiovascular Disease*, San Diego, CA
- 2018 Invited Speaker: American Heart Association Scientific Sessions, Session: “Smooth Muscle Cell Mineralocorticoid Receptors in Vascular Aging” Chicago, IL.
- 2018 Invited Speaker: Vascular Biology and Therapeutics Program and Cardiovascular Medicine Seminar, Yale University, New Haven, CT
- 2019 Invited Speaker: Cardiology Grand Rounds, University of Missouri, Columbia, MO
- 2019 Invited Speaker: Distinguished Speaker Seminar Series, University of Alabama, Birmingham, AL
- 2019 Invited Speaker: FASEB Science Research Conference: Smooth Muscle, Palm Beach, FLA
- 2020 Keynote Speaker: Vascular Medicine Institute and Heart and Vascular Institute Retreat, University of Pittsburgh, Pittsburgh, PA
- 2020 Invited Speaker: University of Maryland Cardiovascular Medicine Grand Rounds, Baltimore, MD
- 2020 Invited Speaker: Medical College of Wisconsin, Cardiovascular Center, Milwaukee, WI
- 2021 Invited Speaker, University of Pennsylvania, Cardiovascular Institute Seminar Series, Philadelphia, PA
- 2021 Invited Speaker: FASEB Science Research Conference: “The Steroid Hormones and Receptors in Health and Disease Conference”, Palm Beach, FLA
- 2021 Invited Speaker, APS: New Trends in Sex and Gender Medicine, Virtual Conference
- 2022 Invited Red Dress Speaker, Tulane University, Sex Differences in Mechanisms of Cardiovascular Disease
- 2022 Invited Speaker, University of Vermont, Center of Cardiovascular and Brain Health, Burlington, VT
- 2022 Keynote Speaker, UC Davis Cardiovascular Symposium, Davis, CA
- 2022 Invited Speaker, 22nd International Vascular Biology Meeting (IVBM), Oakland,

CA

- 2023 Invited Speaker, Gordon Conference, Vascular Cell Biology: Vascular Complexity, heterogeneity, and Metabolism in Health and Disease, Ventura Beach, CA
- 2023 Malcolm Feist Lecture on Translational Research in Cardiovascular Diseases, Louisiana State University Health, Shreveport, LA
- 2023 Medicine Grand Rounds, Louisiana State University Health, Shreveport, LA
- 2023 Invited Speaker, Center for Cardiovascular Research, Washington University, St. Louis, MO
- 2023 Panel Member, Women in NIH Peer Review, AHA Vascular Discovery, Boston, MA
- 2023 Senior Investigator Presentation, 45th International Aldosterone Conference, Chicago, IL
- 2023 Invited Speaker, Basic Cardiovascular Sciences, American Heart Association, Boston, MA
- 2024 Invited Speaker, Cardiovascular Seminar Series, Albert Einstein College of Medicine, New York City, NY.
- 2024 Invited Plenary Speaker (first speaker in first ever plenary on vascular cardio-oncology at AHA), American Heart Association Vascular Discovery, Introduction to Cardio-oncology Through a Vascular Lens, Chicago, Ill
- 2024 Invited Symposium Speaker, Endocrine Society, Glucocorticoids and Mineralocorticoids in Aging and Cardiovascular Disorders Session, *Boston, MA*
- 2024 Invited Speaker, Michigan Biological Research Initiative on Sex Differences in Cardiovascular Disease (M-BRISC) Program, University of Michigan
- 2024 Invited Speaker, Cardiovascular Biology Seminar Series, Emory University, Atlanta, GA
- 2024 Major Symposium Invited Speaker, American Association for Cancer Research (AACR) annual meeting, "Cardiooncology" Session, Chicago, IL
- 2025 Invited Speaker, Sarver Heart Center Cardiovascular Research Seminar, University of Arizona, Tuscon, AZ
- 2025 Invited Speaker, AHA Scientific Sessions, Mineralocorticoid Receptors: New Paradigms and Novel Therapies Session, New Orleans, LA
- 2025 Medicine Grand Rounds, University of Texas Southwestern, Dallas, TX
- 2026, Mar Invited Speaker, University of Virginia, Charlottesville, VA
- 2026, Mar Cardiology Grand Rounds, Cedars Sinai Medical Center, Los Angeles, CA

International:

- 2008 Invited Symposium Speaker, International Society of Endocrinology. *Mineralocorticoid Receptor Activation and Vascular Remodeling and Disease*. Rio de Janiero, Brazil.
- 2010 Invited Speaker, San Raffaele Hospital Cardiovascular Research Center. Rome, Italy.

- 2012 Invited Speaker, 5th International Aldosterone Forum, *Cardiovascular Disease Session*. Tokyo, Japan.
- 2012 Invited Speaker, Aldosterone Forum, Hiroshima University Hospital, Hiroshima, Japan.
- 2012 Visiting Professor, Jichi Medical University, Tochigi, Japan.
- 2012 Invited Speaker, International Society of Hypertension, 24th Annual Meeting, Sydney, Australia.
- 2012 Invited Speaker, Satellite Symposium: Aldosterone and Salt: Heart and Kidney, Palm Grove, Australia.
- 2013 State of the Art Speaker, Canadian Hypertension Congress, Montreal, Canada.
- 2013 Invited Speaker, European Section of the Aldosterone Council (ESAC) Annual Meeting, Paris, France.
- 2014 Invited Speaker, Gordon Research Conference: The RAS Beyond Angiotensin II, Barga, Italy.
- 2014 Invited Speaker, International Society of Hypertension Satellite Conference: Putting the A back into RAAS. Santorini, Greece.
- 2015 Invited Speaker, 8th International Symposium "Aldosterone, MR, and Salt - What's new?" Zermatt, Switzerland.
- 2016 Invited Speaker, Royal Netherlands Academy of Arts and Sciences, Academy Colloquium, "Co-morbidity of affective, metabolic, and cardiovascular diseases: a crucial role for the mineralocorticoid receptor." Amsterdam, Netherlands.
- 2017 Invited Speaker, 38th International Union of Physiological Sciences (IUPS) Conference, Rio de Janeiro, Brazil
- 2018 Invited Speaker, Rapid Responses to Steroid Hormones: 20th Anniversary Meeting, Royal College of Surgeons in Ireland, Dublin, Ireland
- 2021 WICC, China, (virtual)
- 2022 Invited Speaker, 2nd Olympiad in Cardiovascular Medicine, Heraklion, Crete, Greece
- 2022 Invited Speaker, British Atherosclerosis Society, Oxford, UK
- 2023 Invited Speaker, 19th World Congress of Basic & Clinical Pharmacology (WCP2023), Glasgow, Scotland
- 2026, Mar Invited Speaker, International Renin Angiotensin Aldosterone Conference, Preto, Italy
- 2026, May Invited Speaker, 3rd Olympiad in Cardiovascular Medicine, Greece

SESSIONS CHAIRED:

- 2010 36th International Aldosterone Conference, "Aldosterone and the Heart", San Diego, CA.
- 2012 38th International Aldosterone Conference, "Aldosterone in Cardiovascular Function and Disease", Houston, TX.

- 2013 39th International Aldosterone Conference, “Aldosterone in Cardiovascular Function and Disease”, San Francisco, CA.
- 2013 Canadian Hypertension Congress, “Biomedical Session #2”, Montreal, Canada.
- 2014 High Blood Pressure Research (HBPR) 2014 Scientific Sessions, “Oral VIII: Obesity and Diabetes”, San Francisco, CA.
- 2016 41st International Aldosterone Conference, “Molecular Mechanisms”, Boston, MA.
- 2016 Arteriosclerosis, Thrombosis and Vascular Biology/Peripheral Vascular Disease (ATVB/PVD) 2016 Scientific Sessions, Session: “Translational Science of Vascular Medicine: Vascular Dysfunction.” Nashville, TN.
- 2016 Mechanisms of Vasodilation (MOVD), 12th International Symposium, Rochester, MN.
- 2017 42nd International Aldosterone Conference, “Aldosterone-Cardiovascular Phenotypes”, Orlando, FL.
- 2018 43rd International Aldosterone Conference, “Aldosterone and Vascular Function”, Chicago, IL.
- 2019 9th International Symposium on Aldosterone and ENaC in health and disease: the kidney and beyond. “MR in the vasculature” Estes Park, CO
- 2021 AHA Scientific Session, Boston, MA
- 2024 Vascular Discovery, first ever session on: “Vascular Cardio-oncology”, Chicago IL