

**Alan Daugherty, PhD, DSc, FAHA**

CURRICULUM VITAE

April 2026

**PERSONAL**

**Office:** University of Kentucky  
Saha Cardiovascular Research Center  
BBSRB, room B-243  
Lexington KY 40536-0509

**Telephone:** (859) 323-3512  
**Fax:** (859) 257-3235  
**Cell:** (859) 967-9563  
**E-Mail:** Alan.Daugherty@uky.edu

**Web site:** <https://medicine.uky.edu/users/adaugh>

**ORCID:** 0000-0003-2093-3775

**Place of Birth:** Liverpool, UK

**Nationality:** Naturalized US Citizen, British

**EDUCATION**

<b>Institution</b>	<b>Dates</b>	<b>Degree</b>	<b>Subject</b>
Sunderland Polytechnic, UK	1975-1978	B.Sc. (Hons)	Pharmacology
University of Bath, UK	1978-1981	Ph.D.	Pharmacology
University of Bath, UK	2002	D.Sc.	Pharmacology

**PROFESSIONAL POSITIONS**

**University of Kentucky, Lexington, KY**

Director, Saha Aortic Center	2021 - present
Associate Vice President for Research for Core Facilities	2015 - 2025
Chair, Department of Physiology	2015 - present
Special Assistant to the Vice President for Research	2014 - 2015
Senior Associate Dean for Research, College of Medicine	2009 - 2021
Director, Saha Cardiovascular Research Center	2005 - present
Gill Foundation Endowed Chair in Preventive Cardiology	2003 - present
Associate Chair of Medicine for Physician Scientist Development	2001 - 2011
Professor of Medicine and Physiology	2001 - present
Member, Nutritional Sciences Program	1997 - present
Member, Toxicology Graduate Program	2002 - present
Director of Atherosclerosis Research, Gill Heart Institute	1997 - 2003
Associate Professor of Medicine	1997 - 2001
Associate Professor of Physiology	1997 - 2001

**Washington University School of Medicine, St. Louis, MO**

Member, Division of Biology and Biomedical Sciences	1997 - 1997
Assistant Professor of Biochemistry and Molecular Biophysics	1996 - 1997
Assistant Professor of Medicine	1994 - 1997
Established Investigator of the American Heart Association	1992 - 1997
Research Assistant Professor of Medicine	1986 - 1994
Research Instructor	1985 - 1986
Research Fellow	1982 - 1985

**University of Bath, Bath, UK**

British Heart Foundation Research Fellow	1981 - 1982
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**VISITING APPOINTMENTS**

**Zhejiang University, Hangzhou, China**

Visiting Professor	2006 – present
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## TRAINING OF FELLOWS AND STUDENTS

### High School Students

1. Preet Patel	10/19-12/20	Paul Dunbar High School
2. Issac Liang	12/25-present	Henry Clay High School

### Pregraduate Trainees:

1. Laura E. Dyer:	7/87 - 6/88	Medical Student
2. Robert L. McNamara	7/89 - 6/90	Medical Student
3. Sandra Sendobry*	8/94 - 8/97	Pre-Med Student
4. Paul Kakkanathu	8/95 - 3/97	Undergraduate
5. Ranjith Shetty	8/95 - 9/97	Undergraduate
6. Rachel Pase	1/96 - 9/97	Undergraduate
7. Andrea Johnson	8/95 - 1/97	Undergraduate
8. Rhonda Garrett	7/97 - 8/97	HHMI High School student scholar
9. Mark Fanin	6/99 - 8/99	UK Medical Student
10. Ankur Shah	6/99 - 8/99	U of Michigan undergraduate
11. Liz Tussey	6/99 - 9/99	U of Chicago undergraduate
12. Tami Caudill	9/02 - 7/06	UK undergraduate
13. Ray Caudill	7/06 - 7/10	UK undergraduate
14. Talha Ijaz†	5/07 - 8/07	Center College undergraduate
15. Talha Ijaz	5/08 - 7/08	Center College undergraduate
16. Victoria Knight	7/09 - 6/10	U of Bath undergraduate
17. Jacqueline Post	1/13 - 6/16	UK undergraduate
18. Bradley Wright	8/16 - 8/19	UK undergraduate
19. Reza Katanbaf	10/16-3/17	UK undergraduate
20. Zach Beckner	6/20 - 6/22	UK undergraduate
21. David Graf	6/22 - 7/22	University of Mississippi undergraduate
22. David Graf	1/23- 12/24	UK undergraduate
23. Nancy Zhang	6/23 - 8/32	Duke undergraduate
24. Albert Tang	5/23 - 7/23	UK undergraduate
25. Pengjun Wang	6/23 - 8/23	Washington University undergraduate
26. Bryce Allen	6/24- 8/24	Morehead University undergraduate
27. Jacob Hayes	6/24-8/24	Georgia Tech undergraduate
30. Valerie Guzman	6/25-8/25	Georgetown University undergraduate
31. Esterline Charles	6/26-8/26	Berea College undergraduate

\*Indicates recipient of 2014 NIH Presidential Early Career Award for Scientists and Engineers (PECASE)

†Indicates a recipient of an NIH National Research Service Award - F30

### Graduate Trainees:

1. Linda A. Meeh (Scherrer)	7/89 - 6/92	Graduate student (supervised jointly with Dr. J.J.H. Ackerman)
2. Michael Manning**†	1/00 - 8/02	Graduate student (Physiology)
3. Jing Huang*	10/01 - 7/05	Graduate student (Toxicology)
4. Phillip Owens**†@§^	8/04 - 1/09	Graduate student (Toxicology)
5. Mingming Zhao	2/08 - 8/09	Graduate student (Nutritional Sciences)
6. Congqing Wu*	6/09 - 7/14	Graduate student (Nutritional Sciences)
7. Kyung Sik Jung	7/11 - 11/13	Graduate student (Toxicology)
8. Jing Liu	7/12 - 7/16	Graduate student (Nutritional Sciences)
9. Frank Davis##%	8/13 - 8/14	U of Michigan Medical student – Sarnoff fellowship
10. Jeff Zheyang Chen†	7/16 - 7/20	M.D./Ph.D. student
11. Chia-Hua Wu	7/17- 8/20	Graduate student (Nutritional Sciences)
12. Shayan Mohammadmoradi	7/17- 7/22	Graduate student (Nutritional Sciences)
13. Samuel Tyagi	7/19 - 2025	Graduate student (Physiology)

- |     |               |                |                               |
|-----|---------------|----------------|-------------------------------|
| 14. | Mary Sheppard | 3/21 - present | Graduate student (CCTS)       |
| 15. | Alex Pettey   | 7/22 - present | Graduate student (Physiology) |

\* Indicates recipients of American Heart Association Pre-Doctoral Fellowships

† Indicates recipients of ATVB Young Investigator Travel Awards

@Indicates recipient of 2012 Brinkhous Early Career Award from the ATVB Council of AHA

§Indicates recipient of 2019 Robert W Hobson early Career Award from the PVD Council of AHA

^Indicated recipient of 2025 Alan T Hirsch Award from the PVD Council of AHA

#Indicates recipient of 2015 Association for Academic Surgery Student Research Award

%Indicates recipient of 2015 Moses Gunn University of Michigan Student Surgery Award

!Indicates receipt of NIH F30 award

#### Visiting Graduate Trainees:

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|-----|---|-------------|--|
| 1.  | Ninetta Kosswig                           | 6/00 - 8/03 | Visiting graduate student – University of Bonn, Germany                    |
| 2.  | Chiara Barisione                          | 1/05 - 1/06 | Visiting graduate student – Genova University School of Medicine, Italy    |
| 3.  | Xiaojie Xie                               | 7/06 - 9/07 | Visiting graduate student – Zhejiang University, Hangzhou, China           |
| 4.  | Shaoping Wang                             | 1/08 - 5/09 | Visiting graduate student – Zhejiang University, Hangzhou, China           |
| 5.  | Yinchuan Xu                               | 7/12 – 6/13 | Visiting graduate student - Zhejiang University, Hangzhou, China           |
| 6.  | Feiming Ye                                | 5/16 -4/18  | Visiting graduate student Zhejiang University, Hangzhou, China             |
| 7.  | Ya Wang                                   | 10/17-5/19  | Visiting graduate student - Zhejiang University, Hangzhou, China           |
| 8.  | Dien Ye                                   | 10/19-3/24  | Visiting graduate student – Erasmus University, Rotterdam, The Netherlands |
| 9.  | Hui Chen                                  | 2/20 – 2/22 | Visiting graduate student – Shenyang University, Shenyang, China           |
| 10. | Liyuan Zhi<br>University, Changsha, China | 5/24 – 7/25 | Visiting graduate student – Central South                                  |

#### Postdoctoral Trainees:

- |     |                                    |                |                            |
|-----|------------------------------------|----------------|----------------------------|
| 1.  | Dirk Baumann, M.D.                 | 7/89 - 6/92    | Surgery Research Fellow    |
| 2.  | Joseph P. Hasapes, M.D.            | 7/89 - 6/93    | Cardiology Research Fellow |
| 3.  | Simon E. Roselaar, M.D, Ph.D.*     | 7/93 - 6/97    | Cardiology Research Fellow |
| 4.  | Stewart Whitman, Ph.D.*†           | 10/97 - 7/01   | Research Fellow            |
| 5.  | Victoria King, Ph.D.*†             | 5/99 - 7/03    | Research Fellow            |
| 6.  | Katsuya Tashiro, M.D., Ph.D.       | 5/01 - 6/02    | Research Fellow            |
| 7.  | Kiran Saraff, M.D.                 | 7/01 - 6/03    | Research Fellow            |
| 8.  | Fjoralba Babamusta, M.D.†          | 8/02 - 5/05    | Research Fellow            |
| 9.  | Lu Hong, M.D., Ph.D.*†             | 3/03 - 6/08    | Research Fellow            |
| 10. | Vishwesh Mokashi, Ph.D.*           | 8/04 - 4/08    | Research Fellow            |
| 11. | Qingwei Zhao, M.D., Ph.D. †        | 9/04 - 7/06    | Research Fellow            |
| 12. | Haruhito A. Uchida, M.D., Ph.D.    | 8/06 - 9/09    | Research Fellow            |
| 13. | Venkateswaran Subramanian, Ph.D.*† | 10/06 - 6/10   | Research Fellow            |
| 14. | Xiaofeng Chen, M.D. Ph.D.#         | 05/09 - 6/13   | Research Fellow            |
| 15. | Aruna Poduri, Ph.D.*               | 07/09 - 09/13  | Research Fellow            |
| 16. | Hisashi Sawada, M.D. Ph.D.*†§      | 11/15 – 11/20  | Research Fellow            |
| 17. | Satoko Ohno-Urabae, M.D., Ph.D.*   | 4/19 – 3/21    | Research Fellow            |
| 18. | Masayoshi Kukida, M.D., Ph.D.      | 4/19 – 6/22    | Research Fellow            |
| 19. | Sohei Ito, M.D., Ph.D. †           | 4/21 – present | Research Fellow            |
| 20. | Naofumi Amioka, M.D., Ph.D.        | 4/21 – 5/23    | Research Fellow            |
| 21. | Bowen Li, M.D.                     | 8/23 – 12/24   | Research Fellow            |
| 22. | Guan Fan, M.D.                     | 1/25 – present | Research Fellow            |

23. Liyuan Zhu, Ph.D.\* 1/26 – present Research Fellow

\*Indicates recipients of American Heart Association Postdoctoral Fellowships

#Indicates recipient of National Marfan Foundation Fellowship

†Indicates recipients of ATVB Early Career Travel awards

§ Indicates recipient of AHA CDA award

### Sabbatical Visitors

1.	Suzanne Thorpe, Ph.D.	7/92 - 6/93	Research Professor, University of South Carolina.
2.	Wenqiang Chen, M.D.	4/08 - 4/09	Associate Professor, Shandong University
3.	Yanxiang Gao, Ph.D.	7/20 – 9/21	Attending Research Assistant, China-Japan Friendship Hospital, Beijing

### AWARDS AND HONORS

University of Bath Studentship	1978
British Heart Foundation Fellow	1981
NIH New Investigator	1986
AHA Established Investigator	1992
Chairman's Award for Excellence in Research, University of Kentucky	1999
College of Medicine Research Faculty Award, University of Kentucky	1999
The Honorable Order of the Kentucky Colonels	2003
University of Kentucky Research Professorship	2006-2007
Distinguished Service Award, Ohio Valley Affiliate, American Heart Association	2006
ATVB Distinguished Achievement Award	2008
American Heart Association Science Advocate of the Year	2009
Mentor of Women Award, ATVB Women's Leadership Committee	2010
ATVB Special Recognition Award - Vascular Biology	2011
Herbert Kayden Award, NYU	2014
Mentor Recognition Award, UK Center of Clinical and Translational Sciences	2017
Alexander W Clowes Distinguished Lecture, Society of Vascular Surgery	2018
NIH Outstanding Investigator Award (R35)	2021
George Lyman Duff lectureship, ATVB Council	2022
American Heart Association's Award of Meritorious Achievement	2023
American Heart Association MERIT award	2023
Kirwan Memorial Prize, University of Kentucky	2024

### EXTRACURRICULAR ACTIVITIES

#### American Heart Association - Missouri Affiliate

1993 - 1997	Member, Peer Review Committee
1995	Vice Chair, Peer Review Committee
1996 - 1997	Member, Research Committee
1996	Chair, Peer-Review Committee
1996	Vice Chair, Research Committee
1997	Chair, Research Committee
1997	Board of Directors

#### American Heart Association - Heartland Affiliate

1997	Member, Research Task Force
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#### American Heart Association - Southern and Ohio Valley Research Consortium

1999 - 2004	Member, Peer Review Committee 2
2002 - 2004	Chair, Peer Review Committee 2B
2003 - 2006	Member, Consortium Peer Review Steering Committee
2006 - 2007	Chair, Consortium Peer Review Steering Committee

**American Heart Association - Ohio Valley Affiliate**

2000 - 2004 Member, Research Committee, Ohio Valley Affiliate  
2003 - 2007 Board of Directors

**American Heart Association - Great Rivers Affiliate**

2006 - 2007 Member, Research Program Task Force  
2016 - present Chair, Research and Science Engagement Committee

**American Heart Association – Lexington Kentucky**

2025-present Member, Division Board

**American Heart Association - National Center**

*Scientific Councils*

2000 - 2002 At-Large Member, Arteriosclerosis Advisory Section, ATVB Council  
2001 - 2010 Member, Awards and Nominating Committee, ATVB Council  
2003 - 2022 Member, Leadership Committee, ATVB Council 2003  
2003- 2005 Liaison, Leadership Committee, Council for NPAM  
2004 - 2006 Vice Chair, ATVB Council  
2006 - 2008 Chair, ATVB Council  
2008 - 2010 Chair, ATVB Council Nominating Committee  
2008 - 2010 Immediate Past Chair, ATVB Council  
2013 - 2014 Chair, ATVB Council Nominating Committee (re-appointed due to resignation of previous chair)

*Research*

1993 Member, Peer Review Committee, Great Plains Affiliates  
1994 - 1997 Member, Peer Review Committee, Affiliate Study Section A (Vascular Biology)  
1995 Co-Chair, Peer Review Committee, Affiliate Study Section A (Vascular Biology)  
1996 - 1997 Chair, Peer Review Committee, Affiliate Study Section A (Vascular Biology) 2000 -  
2005 Member, Lipoproteins and Lipid Metabolism National Study Group  
2003 - 2007 Member, Research Committee  
2003 - 2004 Co-Chair, Lipoproteins and Lipid Metabolism National Study Group  
2004 - 2005 Chair, Lipoproteins and Lipid Metabolism National Study Group 2004 -  
2005 Member, Task Force to Evaluate the Fellow to Faculty Grant  
2005 - 2007 Member, Awards Sub-Committee of the Research Committee  
2006 - 2007 Member, Research Strategic Planning Working Group  
2006 - 2007 Member, Strategic Planning subgroup - high risk/high rewards research  
2007 Member, Science Classification Task Force, Chair, Sub committee  
2007- 2009 Vice Chair, Region I Research Consortium Steering Committee  
2008 - 2009 Member, Innovative Research Peer Review Committee  
2008 - 2009 Member, Strategic Peer Review Planning Committee  
2009 Member, Ad Hoc Reviewer working group  
2009 Chair, Region I Research Consortium Steering Committee  
2009 - 2012 Member, Unified Peer Review Steering Committee  
2009 - 2013 Member, Unified Peer Review Committee  
2013 Member, AHA CME Peer Review Training Program Taskforce  
2015 Chair, Study section for American Heart Association Cardiovascular Genome-  
Phenome Study (CVGPS) HDL Discovery Grant  
2015-2017 Member, Cardiovascular Genome-Phenome Study (CVGPS) Standing Review Panel  
2017-2023 Chair, Oversight Advisory Committee for Strategically Focused Research Awards  
2023- present Member, MERIT Award Study Section  
2026 Chair, Network Review Committee, Strategically Focused Research on Valvular Heart  
Diseases  
2026-present Chair, Oversight Advisory Committee, Strategically Focused Research Network on  
Valvular Heart Diseases

*Conferences*

1992 -1994	Abstract Grading Consultant for Scientific Sessions
1996	Abstract Grading Consultant for Scientific Sessions
2002	Member, Conference Planning Committee, ATVB Council 2003 -
2006	Member, National Committee on Scientific Sessions Program
2003 - 2003	Vice-Chair, Fall Program Committee, ATVB Council
2003 - 2006	Chair, Fall Program Committee, ATVB Council
2003 - present	Abstract Grading Consultant for Scientific Sessions
2005 - 2022	Member, ATVB Spring Meeting Program Committee
2008 - 2009	Chair, Spring Program Committee, ATVB Council
2014	Member, Scientific Meeting Initiative's Working Group

*Other Committees and Appointments*

2002 - 2004	Chair, Irvine H. Page Young Investigator Award Committee
2003 - 2007	Member, Awards and Lectures Subcommittee of the Scientific Councils
2005 - 2007	Chair, Awards and Lectures Subcommittee of the Scientific Councils
2005 - 2006	Advocacy Ambassador, ATVB Council
2006 - 2010	Member, Council Operations Committee
2006 - 2008	Member, Science Advisory and Coordinating Committee
2006 - present	Member, National Spokepersons Panel
2007	Member, Science Classification Task Force. Chair, Sub committee
2007- 2008	Member, Membership Benefits Task Force
2011- 2013	Chair, COC Task Force on Proposed Science Subcommittees
2013- 2015	Chair, Committee on Science Operations
2015	Member, Planning Committee for AHA Data Summit
2018 - 2020	Member, Strategic Value Proposition Committee
2021 - 2022	Member, Task Force on Sexual Harassment

*Publishing*

2010 - 2011	Member, Editor Search Committee, ATVB 2012
2014	Member, Emerging Science Series Committee

**American Diabetes Association**

2006	Member, Macrovascular/Lipid content subcommittee of ADA scientific sessions
2007 - 2020	Abstract grader

**Doris Duke Charitable Foundation**

2021	Grant reviewer
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**American Society for Investigative Pathology**

2008 - present	Ambassador to University of Kentucky
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**International Atherosclerosis Society**

2006 - 2007	Member, Program committee for XV International Symposium, 2009 Boston
2008 - present	Member, International Advisory Board
2008	Abstract Grader, ISA2009
2009 - 2011	Liaison to the ATVB Council
2011	Abstract Grader, ISA2012

**Society of Vascular Surgeons**

2008 - 2010	Member, Conference Planning Committee
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**International College of Angiology**

2009 - 2010	Member, Conference Planning Committee for 52 <sup>nd</sup> Annual Congress
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**International Society on Thrombosis and Haemostasis**

2011 Abstract grader for XXII Congress  
2012 Abstract grader for XXIV Congress

**Sarnoff Cardiovascular Research Foundation**

2016 - 2023 Member, Scientific Committee  
2017 - 2018 Mentor – Amit Jhaveri, Medical School - University of Buffalo  
Research Experience - Dr. Joseph Loscalzo, Harvard  
2017 Member, Nominating Committee  
2018-2019 Mentee – Jessica Zhang, Medical School – Cleveland Clinic Lerner College of Medicine  
of Case Western Reserve University.  
Research Experience – Dr. Christopher Glass, UCSD  
2018 - 2020 Member, Scholar Award Application Task Force  
2019 –2020 Mentee – Abra Chen Medical School – Harvard  
Research Experience – Dr. Michael Longaker, Stanford  
2020 – 2021 Mentee – Carmel Assa, University of Wisconsin  
Research Experience – Dr. Mark Feinmark, Harvard  
2020-2021 Vice Chair, Scientific Committee  
2020-2021 Member, Nominations Committee  
2021-2022 Mentee – Benjamin Bonner, LSU  
Research Experience – Dr. Christopher Nguyen, Harvard  
2021-2022 Chair, Scientific Committee  
2021-2022 Member, Board of Directors  
2022-2023 Immediate Past Chair, Scientific Committee  
2022-2023 Mentee – Lydia Buzzard, University of Wisconsin  
Research Experience – Dr. Martin Schreiber, OHSU  
2023-2024 Mentee - Taru Bharadwaj, Texas Tech University  
Research Experience – Dr. Christine Seidman, Harvard  
2023 - present Board of Directors  
2024-2025 Mentee - Jessie Dalman, University of Michigan  
Research Experience – Dr. Kathryn Moore, NYU  
2024 - 2025 Vice Chair, Board of Directors  
2025- present Mentee - Ali Sadek, University of Texas Southwestern  
Research Experience – Dr. Joseph Wu, Stanford  
2025-present Chair, Board of Directors  
2025-present Chair, Executive Committee  
2025-present Member, Finance Committee  
2026-present Mentee – Ariane Michelson, University of Massachusetts  
Research Experience - TBD

**GenTAC Registry**

2018 – present Member, GenTAC Alliance’s Basic/Translational Science Working Group

**North American Vascular Biology Organization**

2020 – present International Scientific Advisory Board

**British Heart Foundation**

2018 – present International Oversight Panel

Grant Reviewer (NIH) NIH Pathology A Study Section (ad hoc)  
NIH Clinical Aging Study Section  
NHLBI Study Section SCORs in Atherosclerosis and Molecular Medicine (1996,  
2001)  
NHLBI Study Section SCCORs in Vascular Injury, Repair, and Remodeling (2005)  
NHLBI Reviewer for Program Project Grants  
NIDCR Reviewer for Program Project Grants

NHLBI Conference Grant Study Section (Chair, 2007) NIH  
Challenge Grants  
NIH Atherosclerosis and Inflammatory Cardiovascular Disease Study Section  
(ad hoc)  
NIH Special Emphasis Panel ZRG1 VH-2 2010  
NIH Atherosclerosis and Inflammation of the Cardiovascular System Study Section,  
Charter member - 2010 - 2014  
NIH Intra IRG Ranking Pilot Study - 2015 NIH  
SEP ZRG2 VH-J (02) - Chair - 2016  
NHLBI Loan Payment Program Study Section - 2017 - present NHLBI  
Mentored Patient Orientated Research. 2017  
NHLBI Mentored Patient-Oriented Research Review Committee. 2017  
NIH Single Site Investigator Trials ZHL1 CSR-G(F1) – 2018  
NIH Special Emphasis Panel ZHL1 CSR-X – 2018  
NHLBI LRP review panel - 2018  
NIH Special Emphasis Panel ZRG1 VH-C – 2019  
NHLBI LRP review panel – 2019  
NHLBI Special Emphasis Panel ZHL1 CSR-R – 2019  
NHLBI Mentored Patient Orientated Research – MPOR - 2019  
NIH SPE ZRG1 VH-J – 2019  
NIH eligibility for continuous submission – 2018 – present  
NIH Special Emphasis Panel ZRG1 VH-D (02) M – 2019  
NHLBI LRP review panel – 2020  
NHLBI LRP review panel – 2021  
NIH Special Emphasis Panel ZRG1 VH-D (02) M – 2021  
NHLBI LRP review panel – 2022  
NIH SEP ZRG1 IVBH – Dec 2022  
NHLBI LRP review panel – 2023  
ZRG1 IVBH-V – Mar 2023  
ZRG1 BP-P (52) R special Emphasis Panel – June 2023  
ZHL1-CSR-K (J1) R Special Emphasis Panel – October 2023  
ZRG1 BP-F (50) – March 2023  
ZRG1 IVBH-V - Small Business: The Cardiovascular and Hematological Sciences  
June 2024. Chair of Committee  
NHLBI LRP review panel – 2025  
ZRG1 IVBH (11): Small Business: The Cardiovascular and Hematological Sciences  
IRG. March 2025  
NIH F10C Fellowship review Panel – January 2026  
NIH SEP for Mentored Career Development Awards. April 2026. Co-Chair of  
Committee  
NIH SEP for Mentored Career Development Awards. November 2026. Chair of  
Committee

Grant Reviewer  
(Others)

VA Merit Review  
Department of Energy  
Wellcome Trust, United Kingdom  
Jeffress Memorial Trust, VA  
Alzheimers Association  
Swiss National Science Foundation  
Kentucky Science and Engineering Foundation  
Singapore Biomedical Research Council  
Tobacco-Related Disease Research Program, California  
Phillip Morris External Research Program  
Danish Research Agency  
Diabetes Research and Training Center, Vanderbilt University  
Austrian Science Fund  
French National Research Fund (Emergence BIO and TEC program)

Natural Sciences and Engineering Research Council of Canada Dutch  
Internationale Stichting Alzheimer Onderzoek  
Netherlands Organization for Scientific Research  
Luxembourg National Research Fund  
Israel Science Foundation  
Austrian Academy of Sciences  
Medical Research Council, United Kingdom  
Danish Council for Independent Research - Medical Sciences Dutch  
Heart Foundation  
University of Ottawa Heart Institute  
National Center for Replacement, Refinement and Reduction of Animals in  
Research, United Kingdom  
British Heart Foundation International Scientific Advisory Panel for Research  
Excellence Awards - 2018  
British Heart Foundation-German Center for Cardiovascular Research (Deutsches  
Zentrum Fur Herz-Kreislauf-Forschung EV) Research Funding Partnership Grants –  
2019  
European Science Foundation – 2019  
BHF-DZHK-DHF Research Funding Partnership Grants – 2020  
BHF-DZHK-DHF Research Funding Partnership Grants – 2021  
Doris Duke Charitable Foundation - 2021  
Canadian Institutes of Health Research - 2020  
BHF-DZHK-DHF Research Funding Partnership Grants – 2021  
BHF-DZHK-DHF Research Funding Partnership Grants – 2022  
FWF Austrian Science Fund – 2022  
Canadian Research Chair Nomination – 2022  
BHF-DZHK-DHF Research Funding Partnership Grants – 2023  
International Cardiovascular Research Partnership Awards – 2024  
International Cardiovascular Research Partnership Awards – 2025  
Austrian Science Fund - 2025  
Fondation Maladies Rares, France – 2026  
National Research Foundation of Korea (NRF) - 2026

External Advisor  
(Program Academic)

Columbia University SCOR in Atherosclerosis. 2001  
University of California, Davis PPG. 2003  
University of Texas Medical Center SCCOR. 2005 - 2011  
University of Virginia PPG. 2005  
Medical University of Vienna Faculty search. 2006  
Southwestern Foundation for Biomedical Research PPG, San Antonio. 2006-2009  
College of Reviewers for the Canadian Research Chairs Program. 2007 - present  
University of Western Ontario Faculty Scholar Award. 2008  
University of Washington PPG. 2008  
University of Louisville COBRE in Obesity and Diabetes. 2008 - present  
Columbia University PPG. 2010  
German Center for Cardiovascular Research (DZHK). 2012 - 2020 Sanford-  
Burnham Medical Research Institute at Lake Nona. 2012 - 2015  
National Heart Lung and Blood Institute Intramural Program. 2014  
University of Wisconsin T32, 2014 - 2022  
Harvard Medical School. Ad hoc Faculty evaluation committee. 2015  
Center for Heart Lung Innovation, University of British Columbia and St. Paul's  
Hospital, Vancouver - 2015  
Stanford University Vascular Diseases T32, 2018 - present  
University of Cincinnati, R38, 2018 – 2000  
NHLBI Intramural program – 2024  
University of Cincinnati College of Medicine, R38 training program (Stimulating Access  
to Research in Residency (StARR). 2024-present

External Advisor (Individual Academic) Scott LeMaire, M.D. Department of Surgery, Baylor University, KO8, 2005 - 2009  
 Matthew Eagleton, M.D., Department of Surgery, Cleveland Clinic. KO8, 2007- 2010  
 Jean Marie Ruddy, M.D., Department of Surgery, Medical College of South Carolina. Mentor at a NIH grant writing workshop. 2021-2022

Non Academic Consulting	Roche, Basel, Switzerland	1990
	Searle, Chicago, IL	1999
	Hoyle Consulting, Frederick, MD	2001
	Mars, McLean, VA	2003
	Pfizer, Groton, CT	2005
	Novartis, Boston, MA	2005
	Johnson and Johnson, Philadelphia, PA	2005
	Johnson and Johnson, San Diego, CA	2005 - 2007
	Coleman Research Group, New York, NY	2007
	Boehringer Ingelheim, Danbury, CT	2007
	LEK Consulting, Boston, MA	2007
	Gerson Lehman Group, Austin, TX	2007 - 2009
	Chimeros, Santa Barbara, CA	2008 - 2009
	Amylin, San Diego, CA	2008 - 2010
	Temper Pedic, Lexington, KY	2008
	Eli Lilly, Indianapolis, IN	2008
	AstraZeneca, Gothenburg, Sweden	2009
	Novartis, Boston	2009
	Renavance	2012
	Regeneron, Tarrytown, NY	2023 - 2025

Not available for industrial consulting during tenure as AHA Editor – 2012-2022

Organizer/Chair South East Lipid Conference, Callaway Gardens, GA, 2002  
 Atherosclerosis Gordon Conference, University of New England, ME, 2005  
 Arteriosclerosis, Thrombosis, and Vascular Biology, in conjunction with the Society for Vascular Surgery. Washington DC, 2009

Clinical Trials Steering Committees AQUARIUS (**A**liskiren **Q**uantitative **A**therosclerosis **R**egression **I**ntravascular **U**ltrasound **S**tudy). Novartis/Cleveland Clinic. 2008 - 2012.

## EDITORIAL RESPONSIBILITIES

Editor-in-Chief	Arteriosclerosis, Thrombosis, and Vascular Biology.	2012 – 2022
Emeritus Editor-in Chief	Arteriosclerosis, Thrombosis, and Vascular Biology	2022 - present
Honorary-Editor-in Chief	Global Translational Medicine.	2022 - present
Senior Consulting Editor	Circulation Research.	2012 - 2018
Associate Editor	Clinical Science.	2007 - 2015
	Circulation Research.	2009 - 2012
	Frontiers in Cardiovascular Medicine.	2014 - 2022
Consulting Editor	Journal of Clinical Investigation.	2008 - present
	Arteriosclerosis, Thrombosis, and Vascular Biology.	2009 - 2012
Guest Editor	Circulation.	2008 - 2016

Editorial Boards	Arteriosclerosis, Thrombosis, and Vascular Biology. 2003 - 2012 Drug Discovery Today: Disease Models. 2003 - 2008 Current Cardiology Reviews. 2004 - present Open General and Internal Medicine Journal. 2007 - present Journal of Cardiovascular Pharmacology. 2010 - 2021 Frontiers in Cardiovascular Medicine. 2015 - 2021 Archives of Medical Sciences – Atherosclerotic Diseases 2017 - present
Guest Series Editor	<i>Coronary Artery Disease</i> for a "Review in Depth" entitled "Advances in the Cell Biology of Atherosclerosis"
Manuscript Reviewer:	Acta Physiologica Scandinavica Aorta American Journal of Cardiology American Journal of Pathology American Journal of Physiology Atherosclerosis Arteriosclerosis, Thrombosis, and Vascular Biology * Biochemistry Biochemistry Biophysical Acta Biotechniques Blood British Journal of Pharmacology Cardiology in the Elderly Cardiovascular Research Cardiovascular Pathology Cardiovascular Toxicology Circulation Research * Circulation Circulation: Cardiovascular Imaging Circulation: Cardiovascular Genetics Circulation: Cardiovascular Interventions Clinical Nephrology Clinical Science Contemporary Clinical Trials Coronary Artery Disease Current Pharmaceutical Design Current Immunological Reviews Diabetes eLife European Journal of Clinical Investigation Experimental and Molecular Pathology Expert Opinion on Therapeutic Targets Free Radical Biology and Medicine Gene Therapy Global Translational Medicine Journal of the American Heart Association Journal of the American College of Cardiology Journal of Applied Physiology Journal of Biological Chemistry Journal of Biomedicine and Biotechnology Journal of Cardiovascular Translational Research Journal of Cardiovascular Pharmacology Journal of Clinical Investigation Journal of Clinical Investigation Insight Journal of Experimental Medicine Journal of Gerontology Biological Sciences Journal of Thrombosis and Haemostasis

Journal of Immunology  
Journal of Investigative Medicine  
Journal of Leukocyte Biology  
Journal of Lipid Research  
Journal of Molecular and Cellular Cardiology  
Journal of Nutritional Biochemistry  
Journal of Pharmacology and Experimental Therapeutics  
Journal of Pathology  
Journal of Physiology  
Journal of Visualized Experiments  
Heart and Vessels  
Hypertension  
Laboratory Investigation  
Lancet  
Life Sciences  
Lipids  
Microscopy and Microanalysis  
Molecular Imaging and Biology  
Molecular Medicine  
Nature Communications  
Nature Medicine  
Nature Reviews Immunology  
New England Journal of Medicine  
NMR in Biomedicine  
PLoS Medicine  
PLoS ONE  
Proceedings of the Indian National Science Academy  
Proceedings of the National Academy of Sciences  
Transgenic Research  
Trends in Cardiovascular Medicine Thrombosis and Hemostasis  
Science Signaling  
Science Translational Medicine  
Signal Translational Medicine  
Signal Transduction and Targeted Therapy  
Vascular Medicine  
Vascular Pharmacology

## COMMITTEE RESPONSIBILITIES

**Ph.D. Thesis Examiner** Andrew Evans, University of Western Ontario, Canada 1995  
Ninetta Kosswig, University of Bonn, Germany, 2003  
Antony Vinh, Monash University, Australia, 2008  
Lisa Shouning Ang, University of British Columbia, Canada, 2013  
Suzanne M. Eken, Karolinska Institute, Stockholm, Sweden - 2017

**Other** Member, Council of the Gordon Research Conferences, 2005 - 2006

## University of Kentucky

Webmaster for Gill Heart Institute	1997 - 2005
Development Committee of the Nutrition Program	2001
Physiology Faculty Search committee	2000
LCME Self Study Group	2002
College of Medicine Task Force-Institutional Regulations	2002
Director of Nutritional Sciences Search Committee	2003
College of Pharmacy Faculty Search Committee	2003

	Institutional Animal Care and Use Committee	2003 - 2004
	Nutritional Sciences Faculty Search Committee	2003, 2005
	Dean's Research Advisory Affairs Group	2006 - 2008
	University Research Compensation Committee	2006
	Provost's Life Sciences Advisory Committee	2006
	Dean's Committee for Strategic Planning of Research Resources	2007- present
	Search Committee - Senior Associate Dean for Research for the College of Medicine	2008
	Ad hoc committee on animal use	2008 - 2010
	University Conflict of Interest Committee	2008 - present
	University Research Advisory Council	2009 - 2014
	University Research Management Group	2009 - present
	Kentucky Children's Hospital Strategic Planning Committee	
	Scientific Supplies Advisory Committee	2011 -2014
	Provost's Strategic Planning Committee, Work Group	2013 - 2014
	Search Committee, Associate Director of Corporate and Foundation Relations, Health Affairs	2014
	Search Committee, Director, Office of Sponsor Projects Administration	2015
	Search Committee, Associate Dean for Research, College of Engineering	2015
Chair	Department of Toxicology External Review Committee	2006 - 2007
	COM Research Affairs Advisory Group	2009 - present
	StudyManager REVEAL Steering Committee	2011 - 2014
	Steering Committee, Sponsored Research Integrated Business Unit	2014 - present
	University Conflict of Interest Committee	2019 – present
Thesis committees	Joshua Dziba, Department of Physiology	1998 - 2000
	Michael Manning, Department of Physiology	1999 - 2002
	Debin Lan, Nutritional Sciences	1999 - 2002
	Marcia Cole Ball, Nutritional Sciences	2000 - 2004
	Liqin Du, Nutritional Sciences	2000 - 2004
	Carine Boustany, Pharmaceutical Sciences	2001 - 2004
	Jing Huang, Toxicology	2001 - 2004
	Gudrun Reiterer, Nutritional Sciences	2002 - 2004
	Rangaraj Gopalraj, Physiology	2002 - 2008
	Kalyani Bharadwai, Pharmaceutical Sciences	2002 - 2006
	Stuart Rice, Pharmacology	2002 - 2003
	Dejan Nikolic, Pharmacology	2002 - 2005
	Tracy Henriques, Toxicology	2002 - 2004
	Meredith Bostrom. Nutritional Sciences	2003 - 2006
	Darshini Trevidi, Pharmaceutical Sciences	2003 - 2007
	Kristina Rutkute, Physiology	2003 - 2007
	Sara Police, Nutritional Sciences	2005 - 2008
	Jill Cholewa, Pharmacology	2006 - 2008
	Bin Liu, Toxicology	2006 - 2011
	Xuan Zhang, Toxicology	2006 - 2011
	Manisha Gupte, Nutritional Sciences	2006 - 2010
	Melissa Zack, Nutritional Science	2006 - 2008
	Rania Al Hawas, Clinical Sciences	2007 - 2012
	Fanmuyi Yang, Physiology	2008 - 2012
	Christopher Simmons, Physiology, MD/PhD	2009 - 2012
	Zachary Fulkerson, Physiology, MD/PhD	2009 - 2011

Kelly Putnam, Nutritional Sciences	2009 - 2012
Olive Zhang, Biomedical Engineering	2009 - 2012
Abdelghaffar Salous, Physiology, MD/PhD	2009 - 2012
Madhura Parulkar, Toxicology	2009 - 2014
Hai-Lang Duong, Obstetrics and Gynecology	2010 - 2011
Jenny Lutshumba, Physiology	2011 - 2017
Paul Mueller, Physiology	2012 - 2016
Yu Wang, Nutritional Sciences	2012 - 2016
Yasir Alsirag, Department of Pharmacology	2013 - 2018
Peter Hecker, Department of Pharmacology	2016 - 2023
Chai-Hua Wu, Nutritional Sciences	2017 - 2020
Xufang Mu, Physiology	2017 - 2023
Murong Ma, Nutritional Sciences	2018 - 2019
Aida Javidan, Nutritional sciences	2018 - 2022
Lauren Weaver, Pharmaceutical sciences	2019 - 2023
Ethan Glaser, MD/PhD Physiology	2020 - 2023
Zachery Kipp, Pharmacology	2022 - present
Evelyn Bates, Pharmacology	2023 - present
Genesee Martinez, Pharmacology	2023 - 2026
Abdalla Lawag, Physiology	2025 - present

External Examiner (UK)	Gerome Burke, Pharmaceutical Sciences	2004
	Wangsun Choi, Biochemistry	2008
	Joseph McCorkle, Molecular Pharmacology	2010
	Matthew Parker, Molecular & Cellular Biochemistry	2014
	Alexander Williams, Pharmaceutical Sciences	2022
Organizer	Gill Heart Institute Cardiovascular Research Day	1998 - present
Chair	Gill Outstanding Scientist Award Committee	1998 - present
	Cardiovascular Seminar Series Committee	1998 - 2009
	Gill Early Career Award Committee	2000 - present

### Washington University

Chair                      Delivery System/Supply Chain Workgroup (Faculty Chair)

Member                      Committee on Research Track Faculty  
Surgery Survival Committee Conventional  
Animal Space Committee  
Transgenic/Barrier Committee  
Rodent Committee

PhD Thesis Committee      Linda A. Scherrer, Department of Chemistry

Mentor                      Young Scientist Program

Organizer                      Cardiovascular Division Vascular Biology Seminar Series

### University of Bath

Secretary, Pharmacological Society	1978 - 1979
Chair, Pharmacological Society	1979 - 1980
Recipient of the Whittet award for the most promising graduate student in the School of Pharmacy	1981
Resident Tutor; responsible for the welfare, safety,	

and discipline of students

1980 - 1982

### Sunderland Polytechnic

Treasurer, Pharmacological Society	1976 - 1977
Chair, Pharmacological Society	1977 - 1978
Student Representative, Staff-student liaison committee	1976 - 1978

### CURRENT MEMBERSHIP OF LEARNED SOCIETIES

American Heart Association  
American Physiological Society  
American Society for Investigative Pathobiology  
Arteriosclerosis, Thrombosis, and Vascular Biology Council of the American Heart Association  
Association of Chairs of Departments of Physiology  
British Pharmacological Society  
British Society for Cardiovascular Research  
International Atherosclerosis Society  
North American Vascular Biology Organization

### EXTERNAL INVITED SPEAKER ENGAGEMENTS (not including CME courses and Investigator meetings)

1. Department of Chemistry, University of South Carolina, Columbia, SC - 1985
2. Miles Workshop on Calcium Antagonists in Atherosclerosis, Philadelphia, PA - 1988
3. Wyeth-Ayerst, Princeton, NJ - 1988
4. Pfizer Central Research, Groton, CT - 1989
5. X International Symposium on Drugs Affecting Lipid Metabolism. Houston, TX - 1989
6. New York Lipid Club. Rockefeller University, New York - 1990
7. Sandoz Pharmaceuticals Corp., East Hanover, NJ - 1990
8. Hoffman La Roche, Basel, Switzerland - 1991
9. Hoffman La Roche, Nutley, NJ - 1991
10. Cardiovascular Division, University of California, Davis, CA - 1991
11. Genentech Inc., South San Francisco, CA - 1991
12. Syntex, Edinburgh, United Kingdom - 1992
13. Monsanto Atherosclerosis Symposium. St. Louis, MO - 1992
14. Parke-Davis, Ann Arbor, MI - 1993
15. Gladstone Cardiovascular Research Institute, San Francisco, CA - 1993
16. Department of Chemistry, University of South Carolina, Columbia - 1993
17. University of Bath, Bath, United Kingdom - 1993
18. Syntex, Palo Alto, CA - 1994
19. Cardiovascular Research, Rayne Institute, St. Thomas' Hospital. London, United Kingdom - 1994
20. Parke Davis, Ann Arbor, MI - 1995
21. Department of Nutrition, University of Missouri, Columbia, MO - 1995
22. 4th International Symposium. Hellenic Society of Lipidology. Athens, Greece - 1995
23. Atherosclerosis Gordon Conference, Meridan, NH - 1995
24. Roche Biosciences, Palo Alto, CA - 1995
25. Association for Lipid and Atherosclerosis Research in Michigan, Detroit, MI - 1995
26. Department of Biochemistry and Molecular Biology, University of North Texas Health Center at Fort Worth, Fort Worth, TX - 1996
27. Department of Medicine, University of Toronto, Toronto, Canada - 1996
28. AtheroGenics, Inc. Norcross, GA - 1996
29. Gunton Symposium on Cardiovascular Therapeutics; New Frontiers in Atherosclerosis Research. The Robarts Institute, London, Canada - 1996
30. Cardiovascular Disease Research, Searle, St. Louis, MO - 1996
31. Atherosclerosis Gordon Conference, Meridan, NH - 1997

32. Symposium of Inflammation and Atherosclerosis. Monsanto, St. Louis, MO - 1997
33. Zeneca PLC, Alderley Edge, United Kingdom - 1997
34. Glaxo Wellcome, Stevenage, United Kingdom - 1997
35. University of Arrhus, Denmark - 1998
36. AI Virtanen Institute, University of Kuopio, Finland - 1998
37. Dr. David Rubenstein Memorial Lecture, Canadian Lipoprotein Club, Canada - 1998
38. Wake Forest Medical School, Winston Salem, NC - 1998
39. Atherosclerosis Gordon Conference, Meridan, NH - 1999
40. Gunton Symposium on Cardiovascular Therapeutics. The Robarts Institute, London, Canada - 1999
41. Berlex Biosciences, Richmond, CA - 1999
42. Department of Pathology, University of South Carolina, SC - 1999
43. Frontiers 2000 Conference, American Association for Clinical Chemistry, St. Louis MO - 2000
44. Genetics and Atherosclerosis, Satellite Symposia of the XIIIth International Symposium on Atherosclerosis, Aarhus, Denmark - 2000
45. Du Pont, Wilmington, DE - 2000
46. Genentech, South San Francisco, CA - 2000
47. Division of Cardiovascular Medicine, Vanderbilt University TN - 2000
48. Angiotensin II Gordon Conference, Ventura Beach, CA - 2001
49. New York Lipid and Vascular Biology Club, New York, NY - 2001
50. Department of Cell Biology and Anatomy, University of Nebraska Medical Center, 2001
51. Vascular Biology Working Group. Orlando, FL – 2001
  
52. American College of Cardiology 50<sup>th</sup> Scientific Sessions, Chair of “Meet the Experts” session on immune function in atherosclerosis”, Orlando, FL - 2001
53. CIMIT Program. Mass. General Hospital, Boston MA - 2001
54. American Heart Association Scientific Sessions 2001 - Anaheim, CA - 2001
55. Division of Cardiovascular Medicine, University of Arkansas, Little Rock, AR - 2002
56. Angiotensin Gordon Conference, Il Cioccio, Italy - 2002
57. Southeast Lipid Conference, Pine Mountain, GA - 2002
58. Midwest Platelet and Vascular Biology Conference, St. Louis, MO - 2002
59. American Heart Association Scientific Sessions 2002 - Chicago - 2002
60. Cardiovascular Research Institute, University of Virginia, Charlottesville, VA - 2003
61. Millennium Pharmaceuticals, South San Francisco, CA - 2003
62. Center for Professional Development, Florida State University, Tallahassee, FL - 2003
63. Division of Endocrinology, Medical University of South Carolina, Charleston, SC - 2003
64. Lipid and Obesity Program, University of Cincinnati, OH - 2003
65. Indiana Center for Vascular Biology and Medicine Retreat, University of Indiana, IN - 2003
66. 4<sup>th</sup> Annual meeting of the Council of Arteriosclerosis, Thrombosis, and Vascular Biology, Washington DC - 2003
67. Berlex Biosciences, Richmond, CA - 2003
68. Atherosclerosis-Vessel Wall Inflammation Drug Discovery Team, Eli Lilly, Indianapolis, IN - 2003
69. National Institute on Aging, Baltimore, MD - 2003
70. Institute of Basic Medical Science, Tsukuba University, Tsukuba, Japan - 2003
71. Department of Pediatrics, Saga University, Saga, Japan - 2003
72. Molecular Aspects of the Metabolic Syndrome, Satellite meeting of the XIIIth International Symposium on Atherosclerosis. Tokyo, Japan - 2003
73. Vascular Biology and Hypertension, University of Alabama Birmingham, AL - 2003
74. Division of Biopharmaceutics, Leiden University, Holland - 2003
75. Department of Pathology, University Hospital and Maastricht, Holland - 2003
76. National Heart Lung and Blood Institute, Bethesda, MD - 2004
77. Department of Cell Biology, Lerner Research Institute, Cleveland, OH - 2004
78. XIIth International Vascular Biology Meeting, Toronto, Canada - 2004
79. Department of Medicine, Zhejiang University, Hangzhou, China - 2004
80. Institute of Molecular Medicine of Peking University, Beijing, China - 2004
81. AstraZeneca, Gothenburg, Sweden - 2004
82. Vascular biology and atherothrombosis course, Danish Cardiovascular Research Academy, Aarhus, Denmark - 2004

83. Medtronic Vascular Division, Santa Rosa, CA - 2004
84. Department of Physiology, Louisiana State University, Shreveport, LA - 2004
85. Cardiovascular Research Institute, Morehouse University, Atlanta, GA - 2005
86. Department of Cardiology, William Beaumont Hospital, Royal Oak, MI - 2005
87. Cardiology Grand Rounds, University of Louisville, KY - 2005
88. University of Alberta, Edmonton, CA - 2005
89. Division of Cardiovascular Medicine, University of Iowa, IA - 2005
90. Sankyo, Edison, NY - 2005
91. Division of Cardiovascular Medicine, New York University, NY, NY - 2005
92. Exelixis, South San Francisco, CA - 2005
93. Cardiovascular Research Center, University of Virginia, VA - 2005
94. European Meeting on Vascular Biology and Medicine, Hamburg, Germany - 2005
94. Davis Heart and Lung Institute, Ohio State University, Columbus, OH - 2005
95. Johnson and Johnson Symposium, San Diego, CA - 2005
96. Vascular Research Program, Emory University, GA - 2006
97. Department of Pharmacology, University of Pennsylvania, PA - 2006
98. Department of Vascular Biology and Thrombosis, GlaxoSmithKline, King of Prussia, PA - 2006
99. Vascular Disease Conference, Society of Vascular Surgery, Washington DC - 2006
100. New York Academy of Sciences, 10<sup>th</sup> anniversary symposium: The abdominal aortic aneurysms: Genetics, pathophysiology, and molecular biology. New York NY - 2006
101. Lipoprotein Gordon Conference. Mount Holyoke College, South Hadley, MA - 2006
102. Division of Cardiology, Genova University School of Medicine, Genova, Italy - 2006
103. Vascular 2006. The Australian and New Zealand Society of Vascular Surgery, Cairns, Australia - 2006
104. Cordis Corporation, Warren, NJ - 2007
105. Merck Research Laboratories, Rahway, NJ - 2007
106. Department of Biochemistry, St. Louis University, MO - 2007
107. Department of Cardiology, Cleveland Clinic, Cleveland, OH - 2007
108. Vascular Matrix Biology and Bioengineering Workshop, NAVBO, Whistler, Canada - 2007
109. Department of Pathology, University of Washington, Seattle, WA - 2007
110. Cardiovascular Research Institute, Shandong University, Jinan, China - 2007
111. Zhejiang University, Hangzhou, China - 2007
112. Department of Physiology, Jefferson University, PA - 2007.
113. 8<sup>th</sup> Cologne Conference on Growth Factors and Cardiovascular Disease 2007. Cologne, Germany - 2007.
114. Workshop on New Developments in the Renin:angiotensin system: the (Pro)Renin Receptor, Renin Inhibition and ACE2. High Blood Pressure Council of AHA. Tucson, AZ - 2007.
115. Cardiovascular Research Seminar and Cardiology Grand Rounds. Vanderbilt University, Nashville, TN - 2008.
116. Angiotensin Gordon Conference, Ventura Beach, CA - 2008
117. Symposium on New Targets in Atherosclerosis. New York Academy of Sciences, New York, NY - 2008
118. Arteriosclerosis, Thrombosis, and Vascular Biology Conference, Atlanta, GA - 2008
119. Scandinavian Society for Atherosclerosis. Copenhagen, Denmark - 2008.
120. Lipoprotein Gordon Conference, Waterville Valley, NH - 2008.
121. 2008 Stanford Abdominal Aortic Aneurysms summit: Strategies for Multidisciplinary Research. Stanford University, CA - 2008.
122. Renal Week, American Society of Nephrology, Philadelphia, PA - 2008.
123. Cardiovascular Signature Program Series, University of Southern Florida, FL - 2009.
124. Cardiovascular Division, King's College in London, United Kingdom - 2009.
125. Cardiovascular Research Center, Zhejiang University, Hangzhou, China - 2009
126. Novartis Symposium. Hangzhou, China - 2009
127. XV International Symposium on Atherosclerosis, Boston, MA - 2009.
128. Chinese Atherosclerosis Society, Huhehote, Inner Mongolia, China - 2009.
129. Molecular Cardiology Research Institute, Tufts University School of Medicine, MA - 2009.
130. National Summit of the National Registry of Genetically Triggered Thoracic Aortic Aneurysms and Cardiovascular Conditions. Baltimore, MD - 2009

131. 20<sup>TH</sup> Annual Vascular Biology and Hypertension Symposium, University of Alabama Birmingham, Birmingham, AB - 2009.
132. Diabetes and Obesity Discovery Institute, Medical College of Georgia, GA - 2009.
133. Providence Heart and Lung Institute, University of British Columbia, Vancouver, Canada - 2009.
134. Department of Pharmacology, Temple University, Philadelphia, PA - 2010.
135. Cleveland Clinic Symposium. American College of Cardiology, Atlanta, GA - 2010
136. Arteriosclerosis, Thrombosis, and Vascular Biology Conference, San Francisco, CA - 2010
137. Division of Nephrology, Okayama University, Japan - 2010
138. 6<sup>TH</sup> International Conference on Biology, Chemistry and Therapeutic Applications of NO. Kyoto, Japan - 2010.
139. 53<sup>RD</sup> Annual Meeting of the Japanese Society of Nephrology. Kobe, Japan - 2010
140. Novartis, Tokyo, Japan - 2010
141. 2010 International Vascular Biology meeting. Los Angeles, CA - 2010
142. 8<sup>TH</sup> International Symposium on Marfan's Syndrome. Warrenton, VA - 2010
143. 12<sup>TH</sup> Biennial Meeting of the International Society for Applied Cardiovascular Biology. Cambridge, MA - 2010.
144. Department of Medicine Grand Rounds. University of Washington, WA - 2010
145. Division of Cardiology Grand Rounds. University of Washington, WA - 2010
146. McAllister Heart Institute. University of North Carolina, NC - 2010
147. Duke Cardiovascular Seminar Series. Duke University, Durham , NC - 2010
148. Center for Cardiovascular Research. Washington University. St. Louis, MO - 2011
149. Brigham Research Institute, Brigham and Women's Hospital, Boston, MA - 2011
150. System Biology and Connective Tissue Disorders Workshop. NIH, Bethesda, DC - 2011
151. Department of Cell Biology and Anatomy. University of South Carolina, SC - 2011
152. AaB Cardiovascular Research Institute, University of Rochester, NY - 2011
153. Department of Surgery, University of Wisconsin, Madison, WI - 2011
154. Oriental Congress of Cardiology, Shanghai, China - 2011
155. Department of Cardiology, Second Affiliated Hospital, Zhejiang University College of Medicine, Hangzhou, China - 2011.
156. Beijing Institute of Heart, Lung, and Blood Diseases, Beijing, China - 2011.
157. Department of Cardiology, Fuwai Hospital, Beijing, China - 2011.
158. Center for Cardiovascular and Pulmonary Research, National Children's Hospital, Columbus, OH - 2011.
158. Animal Models and their Value in Predicting Efficacy and Toxicity, New York Academy of Sciences. New York, NY - 2011.
159. Spanish Center for Cardiovascular Research, Madrid, Spain - 2011.
160. Cardiothoracic Surgery Research Lecture Series. Emory University, Atlanta, GA - 2011
161. 2011 B. Lowell Langille Vascular Biology Lectureship. Department of Laboratory Medicine and Pathobiology, University of Toronto, Toronto, Canada - 2011
162. Roberts Research Institute, University of Western Ontario, London, Canada - 2011
163. Abdominal Aortic Aneurysms: Epidemiology, Genetic, and Pathophysiology. Giesinger Clinic, Danville, PA - 2011.
164. Department of Pharmacology, University of Illinois in Chicago, Chicago, IL - 2011
165. Ruysch Lecture, Department of Medical Biochemistry, Amsterdam Academic Medical Center, Amsterdam, Holland - 2012.
166. Diabetes and Obesity Center, University of Louisville, Louisville. KY - 2012
167. AAA Basic Science Symposium. XVI International Symposium on Atherosclerosis (ISA2012), Sydney, Australia - 2012.
168. Davis Heart and Lung Institute, Ohio State University, Columbus, OH - 2012
169. Section of Molecular Medicine, University of Oklahoma Health Science Center, Oklahoma City, OK. - 2012
170. Vasculata Conference of the North American Vascular Biology Organization. Vanderbilt University. Nashville, TN - 2012.
171. GenTAC Thoracic Aortic Disease Summit. Chicago, IL - 2012.
172. The Aortic Institute. Yale University, New Haven , CT - 2012.
173. Cardiovascular Research Center, Rush University Hospital, Chicago, IL - 2012
174. W. Virgil Brown Keynote Lecture. South East Lipid Research Conference. Callaway Gardens, Pine

- Mountain, Georgia - 2012.
175. International Endotoxin and Innate Immunity Society Meeting 2012 and the 2nd Homeostatic Inflammation Symposium. Tokyo, Japan - 2012.
  176. Department of Cardiovascular Medicine, University of Tokushima, Tokushima, Japan - 2012
  177. Department of Medicine and Clinical Sciences, Okayama University, Japan - 2012
  178. 2012 American Heart Association Scientific Sessions, Los Angeles, CA - 2012.
  179. Keynote Lecture, Delaware Cardiovascular Research Center, University of Delaware, Newark-Wilmington, DE - 2012
  180. Cardiovascular Research Center, University of Arkansas Medical School, Little Rock, AR - 2013
  181. Department of Physiology, University of Tennessee Health Science Center, Memphis, TN - 2013
  182. ISIS Pharmaceuticals, Carlsbad, CA - 2013
  183. Molecular and Cellular Pathology Program. University of Alabama, Birmingham, AL - 2013
  184. 2<sup>ND</sup> Wuhan International meeting on Metabolic Diseases. Wuhan, China - 2013
  185. Stanford Cardiovascular Institute, Stanford, Palo Alto, CA - 2013
  186. Sanford Burnham Medical Research Institute, Orlando, FL - 2013
  187. Joint Meeting of the British Society of Toxicological Pathology and the Safety Pharmacology Society. Alderley Edge, United Kingdom - 2013
  188. Division of Cardiovascular Medicine, University of Washington, Seattle, WA - 2013
  189. Weldon School of Biomedical Engineering, Purdue University, West Lafayette, IN - 2014
  190. Vascular Biology Center, Vanderbilt University, Nashville, TN - 2014
  192. Angiotensin Gordon Conference, Il Cioccio, Italy - 2014
  193. The First Affiliated Hospital, Sun Yat-sen University, Guangzhou, China - 2014
  194. The 16<sup>TH</sup> South China International Congress of Cardiology, Guangzhou, China - 2014
  195. Frontiers of Biomedical Sciences Seminar, Institute of Vascular Medicine, Chinese University of Hong Kong, China - 2014
  196. International Vascular Biology Conference 2014, Kyoto, Japan - 2014
  197. Center for Vascular and Inflammatory Disease. University of Maryland, MD - 2014
  198. Malcolm Feist Cardiovascular Seminar Series. Institute for Cardiovascular Diseases and Imaging, Louisiana State University - Shreveport, LA - 2014
  199. Advances in Cardiovascular Risk Reduction Symposium, New York University School of Medicine, New York, NY - 2014
  200. Libin Cardiovascular Institute of Alberta, University of Calgary, Calgary, Alberta - 2014
  201. GenTAC Thoracic Aortic Disease Summit. Baltimore, MD - 2014.
  202. Department of Biochemistry and Molecular Biology, Wayne State University, Detroit, MI - 2014
  203. Canadian Society of Atherosclerosis, Thrombosis and Vascular Biology, Vancouver, Canada - 2014.
  204. 2014 American Heart Association Scientific Sessions, Chicago, IL, CA - 2014
  205. Chinese American Academy of Cardiology Symposium at the American Heart Association, Chicago, IL - 2014
  206. Department of Physiology, Wayne State University, Detroit, MI - 2015
  207. Graduate School of Biomedical Sciences, University of Texas at Houston, Houston, TX - 2015
  208. Cardiovascular Research Center, First Affiliated Hospital of Xi'an Jiaotong University, Xi'an, China - 2015
  209. Northeast Cardiovascular Forum, Shenyang, China - 2015
  210. Italian Society of Pharmacology, Messina, Italy - 2015
  211. China Heart Congress 2015. Beijing, China - 2015
  212. Brazilian Atherosclerosis Meeting, Campos do Jordao, Sao Paulo, Brazil - 2015
  213. Molecular and Cellular Biology Graduate Program. Medical University of South Carolina, Charleston, SC - 2015
  214. 38<sup>th</sup> Annual Scientific Meeting of the Japanese Society of Hypertension - Matsuyama, Japan - 2015
  215. Heart, Lung, and Vascular Institute Seminar Series, University of Cincinnati, Cincinnati, OH - 2015
  216. 10<sup>th</sup> Vasoactive Peptide Meeting, Lagoa dos Ingleses, Brazil - 2015
  217. Association of Chairs of Departments of Physiology, St. Thomas Virgin Islands - 2015
  218. Department of Pharmacology, Tulane University, New Orleans, LA - 2016
  219. Japanese Circulation Society 2016. Sendai, Japan - 2016
  220. Cardiovascular Research Day, Vanderbilt University, TN - 2016
  221. Frontiers in Biomedical Research, North Dakota State University, Fargo, ND - 2016
  222. Center for Interdisciplinary Cardiovascular Sciences, Brigham and Women's Hospital, Boston, MA -

- 2016
223. Knight Cardiovascular Institute, Oregon Health and Science University, OR - 2016
  224. Cardiovascular Research Center, University of Michigan, MI - 2016
  225. Department of Biomedical and Diagnostic Sciences, University of Tennessee College of Veterinary Medicine, Knoxville, TN - 2016
  226. 19<sup>th</sup> International Vascular Biology Meeting, Boston, MA - 2016
  227. University of North Carolina McAllister Heart Institute research symposium - Chapel Hill, NC 2017
  228. Japanese Circulation Society 2017, Kanazawa, Japan - 2017
  229. Houston Methodist DeBakey Heart & Vascular Center Grand Rounds, Houston, TX - 2017
  230. Keynote Speaker, CAAC-ATVB Symposium China Night. Minneapolis, MN - 2017
  231. Center for Molecular Medicine seminar series, Karolinska Institute - Stockholm, Sweden - 2017
  232. 2017 ISTH Congress, International Society on Thrombosis and Hemostasis, Berlin, Germany - 2017
  233. Qianjiang International Conference of Cardiology, Hangzhou, China - 2017
  234. 10<sup>th</sup> Annual International Partnering Conference BioPharm American, Boston, MA – 2017
  235. Great Wall International Cardiovascular Conference - Beijing, China - 2017
  236. Department of Physiology and Pathophysiology, Peking University Health Science Center, Beijing – 2017
  237. Cardiovascular Seminar Series, Corrigan Mineham Heart Center, Massachusetts General Hospital, Boston, MA – February 2018
  238. Vascular Medicine Institute, University of Pittsburgh Medicine Center, Pittsburgh, PA – January 2018
  239. Cardiovascular Center of Excellence, LSU Health Sciences Center – February 2018
  240. Vascular Research Initiatives Conference, Society for Vascular Surgeons – San Francisco, CA – May 2018
  241. XVIII International Symposium on Atherosclerosis, Toronto, Canada - June 2018
  242. Ningxia International Cardiology Conference, Yinchuan, China – April 2018.
  243. Eighth World Congress of Biomechanics, Dublin, Ireland - July 8 2018
  244. China Heart Conference, Beijing, China – August 2018
  245. Xiang Mountain Summit, Beijing, China – August 2018
  246. 66<sup>th</sup> Annual Scientific Session of the Japanese College of Cardiology, Osaka, Japan - September 2018.
  247. 62<sup>nd</sup> Annual Scientific Meeting of The Korean Society of Cardiology, Seoul, South Korea – October 2018
  248. 5<sup>th</sup> Annual GenTAC Thoracic Disease Summit, Oregon Health and Science University, Portland, OR – October 2018
  249. American Heart Association Scientific Sessions, Chicago – November 2018
  250. Cardiovascular Sciences Training Program, University of Chicago, Chicago – January 2019
  251. DGF Collaborative Research Center, Frankfurt, Germany – February 2019
  252. Thrombosis and Atherosclerosis Research Institute, McMaster University, Hamilton, Canada – March 2019
  253. 9<sup>th</sup> Central Congress of Cardiology, Wuhan, China – April 2019
  254. Cardiovascular Research Center, Shanghai University – April 2019
  255. UCLA-Zhejiang University Joint Cardiovascular Science Conference – October 2019
  256. Great Wall Conference, Beijing, China – October 2019
  257. University of Western Ontario, London, Canada - November 2019
  258. Cardiovascular Seminar Series, University of Texas Health Science Center at Houston – December 2019
  259. Cardiology Grand Rounds. University of Missouri-Columbia, February 2020
  260. Distinguished Keynote Lecture, Cardiovascular Research Institute, Baylor College of Medicine – April 2020 (deferred)
  261. Symposium on Thrombo-inflammation, Mainz, Germany – July 2020 (deferred)
  262. Qianjiang International Conference of Cardiology, Hangzhou, China – September 2020 (Virtual)
  263. Japanese College of Angiology, Sendai, Japan – October 2020 (Virtual)
  264. Qianjiang International Conference of Cardiology (QICC), Hangzhou, China – October 2020
  265. Great Wall Conference, Beijing, China – October 2020 (Virtual)
  266. Department of Surgery, University of Wisconsin, WI – December 2022 (Virtual)
  267. Heart and Vascular Institute, University of Pittsburgh Medical Center, Pittsburgh – March 2021

- (Virtual)
268. Keynote Speaker. Baylor College of Medicine 8<sup>th</sup> CVRI Symposium. Baylor College of Medicine, Houston. April 2021. (Virtual)
  269. European Cardiology Society annual meeting. Meeting on What's wrong with current models of cardiovascular disease? June 2021. (Virtual)
  270. NIH Workshop on Gaps and Opportunities for Characterizing Cognitive and Dementia-like Phenotypes. September 2021. (Virtual)
  271. XIII International symposium on International Peptides. Belo Horizonte, Brazil. October 2021 (Virtual)
  272. Chinese Academic Academy of Cardiology. October 2021 (Virtual)
  273. Great Wall International Congress of Cardiology, Beijing, China. October 2021. (Virtual)
  274. FASEB Catalyst Conference Survey: Mechanisms of Aortic Aneurysm Formation, Growth, and Rupture. October 2021. (Virtual)
  275. At the Cutting Edge of Cardiovascular Sciences. Houston Methodist. Houston March 2022. (Virtual)
  276. Plenary Session. AHA Vascular Discovery. Seattle. May 2022.
  277. Department of Cell Biology and Regenerative Medicine, University of Wisconsin, Madison. November 2022
  278. Cardiovascular Research Day Keynote Speaker. Vanderbilt University – December 2022.
  279. Vascular Discovery meeting of the American Heart Association. Boston May 2023.
  280. University Hospital Dusseldorf, Germany – May 2023
  281. Qianjiang International Conference of Cardiology, Hangzhou, China – December 2023
  282. Vascular Biology Center, Augusta University, Augusta GA – January 2024
  283. Cardiovascular Research Center, Stanford University. Palo Alto, February 2024
  284. Department of Pharmacology, Erasmus Medical Center, Rotterdam, The Netherlands – March 2024
  285. Distinguished Speaker. Chinese American Academy of Cardiology. Chicago, IL – May 2024
  286. National IDeA Symposium for Biomedical Research Excellence (NISBRE). Washington DC – June 2024
  287. Cardiovascular Research Center, University of Cincinnati, Cincinnati, OH – July 2024
  288. 2024 Scientific Sessions. American Heart Association. Chicago, IL – November 2024
  289. Cardiovascular Research Theme, University of California Los Angeles. Los Angeles, CA – February 2025
  290. Vascular Biology & Therapeutics Program, Yale School Medicine, New Haven, CT – March 2025
  291. Cardiovascular Disease Session, American Society of Investigative Pathology, Portland OR – April 2025
  292. Department of Pharmacology, University of Missouri. Columbia MO – April 2025
  293. Keynote speaker. Cardiovascular Research Day. Cardiovascular Research Center, Temple University, Philadelphia, PA – May 2025
  294. Elastic Fibers and Microfibrils, Gordon Research Seminar, Manchester, NH – July 2025
  295. Elastic Fibers and Microfibrils, Gordon Research Conference, Manchester, NH – July 2025
  296. 2025 Scientific Sessions. American Heart Association. New Orleans, LA – November 2025
  297. Qianjiang International Conference of Cardiology, Hangzhou, China – November 2025
  298. Xinhau Hospital, Shanghai, China – November 2025
  299. Shanghai University, Shanghai, China – November 2025
  300. Plasminogen Activation and Extracellular Proteolysis. Gordon Research Conference. Ventura, CA – February 2026
  301. GenTAC Alliance of the Marfan Foundation. Webinar. April 2026
  302. National IDeA Symposium for Biomedical Research Excellence (NISBRE). Washington DC – June 2026

PUBLICATIONS

Listings

- A. Original Research Manuscripts
- B. Published Sequences
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- D. Non Scientific Publications
- E. Interviews
- F. Books
- G. Invited Chapters in Books
- H. Invited Reviews and Editorials
- I. ATVB Editor Articles

A. Original Research Manuscripts

1. Daugherty, A. (1981). Myocardial metabolism of calcium and cyclic nucleotides. Ph.D. thesis. University of Bath, England.
2. Daugherty, A. and B. Woodward. (1981). Calcium and calcium slow-channel antagonists on cyclic nucleotide levels in the isolated rat heart. *Journal of Molecular and Cellular Cardiology*. **13**: 843-854. (PMID 6271978)
3. Daugherty, A. and B. Woodward. (1985). Carbachol and cyclic GMP on the vulnerability to ventricular fibrillation in the rat isolated heart. *British Journal of Pharmacology*. **85**: 621-627. (PMID 2992667)
4. Daugherty, A., L.G. Lange, B.E. Sobel, and G. Schonfeld. (1985). Aortic accumulation and plasma clearance of  $\beta$ -VLDL and HDL: Effects of diet-induced hypercholesterolemia in rabbits. *Journal of Lipid Research*. **26**: 955-963. (PMID 4045321)
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#### H. ATVB Editor Articles

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438. Daugherty, A., E.A. Fisher, M.B. Taubman, D.D. Heistad, A.M. Fogelman. (2021). Forty Year Anniversary of *Arteriosclerosis, Thrombosis, and Vascular Biology*. *Arteriosclerosis Thrombosis Vascular Biology*. **41**:2353-2356. doi: 10.1161/ATVBAHA.121.316755. Epub 2021 Aug 25. PMID: 34432483. PMCID: PMC8393668.

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### Citation Metrics - Based on Google Scholar

[http://scholar.google.com/citations?user=y\\_uddokAAAAJ&hl=en&oi=ao](http://scholar.google.com/citations?user=y_uddokAAAAJ&hl=en&oi=ao)

	All	Since 2020
Citations	33932	9652
h-index	98	49
I10 Index	289	197

### Top Cited Original Research Manuscripts from Studies Performed Principally by Daugherty Laboratory (excluding reviews)

1. Daugherty, A., J.L. Dunn, D.L. Rateri, and J.W. Heinecke. (1994). Myeloperoxidase, a catalyst for lipoprotein oxidation, is expressed in human atherosclerotic lesions *Journal of Clinical Investigation*. **94**: 437-444. **(1645 citations)**
2. Daugherty, A., M. W. Manning, and L.A. Cassis. (2000). Angiotensin II promotes atherosclerotic lesions and aneurysms in apolipoprotein E deficient mice. *Journal of Clinical Investigation*. **105**:1605-1612. **(1611 citations)**
3. Whitman, S.C., P. Ravisankar, P., and A. Daugherty. (2002). Interleukin-18 enhances atherosclerosis in apolipoprotein E  $-/-$  mice through release of interferon- $\gamma$  *Circulation Research*. 10.1161/hh0202.105292. **(593 citations)**
4. Whitman, S.C., P. Ravisankar, Elam, H., and A. Daugherty. (2000). Exogenous interferon- $\gamma$  enhances atherosclerosis in apolipoprotein E $-/-$  mice. *American Journal of Pathology*. **157**: 1819 - 1824. **(559 citations)**
5. Saraff, K., F. Babamusta, L.A. Cassis, and A. Daugherty. (2003) Aortic dissection precedes formation of aneurysms and atherosclerosis in AngII-infused apoE deficient mice. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **23**: 1621-1625 (PMID 12855482) **(514 citations)**
6. Manning, M.W., L.A. Cassis, and A. Daugherty. (2003) Differential effects of doxycycline, a broad spectrum inhibitor of matrix metalloproteinases, on angiotensin II-induced atherosclerosis and abdominal aortic aneurysm formation. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **23**: 468-474. **(383 citations)**
7. King, V.L., S.J. Szilvassy, and A. Daugherty. (2002). Interleukin-4 deficiency decreases atherosclerotic lesion formation in a site-specific manner in female LDL receptor  $-/-$  mice. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **22**: 456-461. **(361 citations)**
8. Daugherty, A, M.W. Manning, and L.A. Cassis. (2001). Antagonism of AT2 receptors augments angiotensin II-induced abdominal aortic aneurysms and atherosclerosis. *British Journal of Pharmacology*. **134**: 865-870. **(353 citations)**
9. Daugherty, A., D.L. Rateri, H. Lu, T. Inagami, and L.A. Cassis. (2004) Hypercholesterolemia stimulates angiotensin peptide synthesis contributes to atherosclerosis through activation the AT1a receptor. *Circulation*. **110**: 3849-3857 **(319 citations)**.
10. Daugherty, A., E. Puré, D. Delfel-Butteiger, S. Chen, J. Leferovich, S. E. Roselaar, and D.J. Rader. (1997). The effect of total lymphocyte deficiency on the extent of atherosclerosis in apolipoprotein E $-/-$  mice. *Journal of Clinical Investigation*. **100**: 1575-1580. **(309 citations)**

### Shared Reagents

1. AT1a receptor floxed mice - Stock#016211 C57BL/6N-agtr1a<tmuky>/J. The Jackson Laboratory, Bar Harbor, ME. (2012)
2. Angiotensinogen floxed mouse - Stock #018388 B6;SjL-Agttm1.1It/J. The Jackson Laboratory, Bar Harbor, ME. (2013)
3. Angiotensin converting enzyme floxed mouse – Stock Ace<tm1.Alda>.Mmnc. Mutant Mouse Resources and Research Center (2015)
4. Low density lipoprotein related protein – 2 (megalin). The Jackson Laboratory, Bar Harbor, ME (in process)

### Educational Material

1. Daugherty, A. (1991). Lipid Research Labs - Daugherty Study. *Low-Down on Lipids*. A publication of Washington University School of Medicine.
2. Daugherty, A. (1992). Current concepts of atherosclerosis: An introduction. *Low-Down on Lipids*. A publication of Washington University School of Medicine.
3. Daugherty, A. (1992). Atherosclerotic lesions: Their appearance and development. *Low-Down on Lipids*. A publication of Washington University School of Medicine.
4. Daugherty, A. (1993). The detection of atherosclerosis. *Low-Down on Lipids*. A publication of Washington University School of Medicine.

### Selected Media - since 2008

1. Hypertension's shot in the arm. *Nature Biotechnology* 2008. 26, 1327-1329
2. The cholesterol-inflammation connection. *CNN* Oct 17, 2008. <http://www.cnn.com/2008/HEALTH/conditions/10/16/healthmag.cholesterol.inflammation/index.html>
3. Are there any cheap drugs to lower your cholesterol. *About .com* <http://cholesterol.about.com/lw/Health-Medicine/Drugs-and-treatments/Are-There-Cheaper-Cholesterol-Medicines.htm>
4. New blood pressure drug reduces clogs. *Newsmax.com*. [http://www.newsmax.com/health/blood\\_pressure\\_drug\\_clogs/2008/02/15/72944.html](http://www.newsmax.com/health/blood_pressure_drug_clogs/2008/02/15/72944.html)
5. Cholesterol drugs may help in cardiac emergencies. *Health.com*. <http://news.health.com/2009/05/01/cholesterol-drugs-may-help-cardiac-emergency/>
6. Frightening risk of Marfan Syndrome, and potential treatment, elucidated. *www.sceince.mag*. <http://www.sciencemag.org/content/332/6027/297.full.pdf>
7. Sheppard, M.B., and A. Daugherty. *Commentary on: Risk of Aortic Dissection and Aortic Aneurysm in Patients Taking Oral Fluoroquinolone*: JAMA Intern Med 10/5/15, L Chien-Chang, GL Meng-tse, C Yueh-Sheng, et al. Practice Update - Cardiology. October 2015
8. Daugherty A. August 2017. Defusing the ticking bomb of aortic aneurysms. Research Features <http://researchfeatures.com/2017/08/21/defusing-aortic-aneurysm/Forbes>
9. Do I need cholesterol medication? *Forbes Health*. December 2021. <https://www.forbes.com/health/healthy-aging/do-i-need-cholesterol-medication/>

10. Healthy Hearts Trust Podcast, Aortic Aneurysms. 2025. <https://podcasts.apple.com/us/podcast/the-healthy-heart-trust-podcast/id1852006241>

## RESEARCH SUPPORT

### Present Support Principal

#### Investigator

1. Principal Investigator - R35. "Determinants of Aortic Heterogeneity". National Institutes of Health. \$5,633,701. 6/1/21 – 5/31/28.
2. Principal Investigator – CAROL Act supplement. National Institutes of Health. \$570,142. 06/25/24 – 05/31/2026
3. Principal Investigator. MERIT award. "Therapeutic Advances in Aortopathies". American Heart Association. \$1,000,000. 4/1/23-3/31/28.

#### Co-Investigator

1. Co-Investigator. Cellular and molecular drivers of acute aortic dissections. Leducq Foundation Network of Excellence. \$7,000,000. 01/01/2023 – 12/31/2028
2. Co-Investigator. (Principal Investigator – S.M. Gordon) Functional interactions between lipoproteins and protease inhibitors in atherosclerosis. National Institutes of Health. \$2,548,00. 07/01/1924 – 04/30/2028

#### Sponsor

1. Sponsor. Dominic Nthenge. Underrepresented supplement. Pre-existing hypertension amplifies cerebrovascular pathology after brain injury: role of central AT1Rs. American Heart Association 4/1/24 – 3/31/26. \$147,292
2. Sponsor. Liyuan Zhu. Post doctoral fellowship. Novel mechanism of atherosclerosis: AT1aR in decorin-lineage cells. American Heart Association 1/1/26 – 12/31/28. \$154,884

### Past Support - Principal Investigator

1. Principal Investigator - "The role of calcium and cyclic nucleotides in the propensity to ventricular arrhythmias in various models utilizing the isolated rat heart". British Heart Foundation. £7,100. 1/1/1981 to 10/30/1982.
2. Principal Investigator - "Quantification of lipoprotein uptake into arterial vessel wall *in vivo*: Characterization of atherosclerosis". Biomedical Research Support Grant. \$7,209. 6/1/1985 to 5/30/1986.
3. Principal Investigator - "Diabetes-induced changes in lipoprotein metabolism and their relevance to atherosclerosis". Washington University Diabetes Research and Training Center. \$40,232. 12/1/1985 to 11/30/1987.
4. Principal Investigator - Mechanism of delivery of beta-very low density lipoproteins into arterial wall. National Institutes of Health New Investigator Award. \$107,342. 6/1/86 to 5/30/89.
5. Principal Investigator - "Detection of LDL modification by arterial tissue *in vivo*". American Heart Association Missouri Affiliate. \$22,690. 6/1/86 to 5/30/87.
6. Principal Investigator - "The effects of amlodipine on the development of atherosclerosis" Pfizer Research Labs, Groton CT. \$88,236. 7/1/90 to 6/30/91.
7. Principal Investigator - "Arterial lipoprotein receptor modulation in atherogenesis" Established Investigator of the American Heart Association. \$265,000. 7/1/92 to 6/30/97

8. Principal Investigator - "Effects of isradipine on lipoprotein receptors that modulate cholesterol ester loading in macrophages. Sandoz Research Institute, East Hanover NJ. \$7,500. 6/1/92 to 9/1/92.
9. Principal Investigator - "Scavenger receptor expression in atherogenesis". American Heart Association, Missouri Affiliate. \$55,000. 7/1/92 to 6/30/94.
10. Principal Investigator - "Detection of scavenger receptors by *in situ* hybridization" American Heart Association Missouri Affiliate Summer Fellowship. \$2,000. 6/1/93 to 8/1/93.
11. Principal Investigator - "Effect of superoxide dismutase mimics on the progression of atherosclerosis in heterozygous Watanabe heritable hyperlipidemic rabbits". Monsanto Company. St. Louis MO. \$66,454. 1/1/94 to 12/31/94.
12. Principal Investigator - "Determination of the anti-atherosclerotic efficacy of inhibitors of 15-lipoxygenase - relation to anti-oxidant actions". Parke Davis. Ann Arbor MI. \$69,450. 4/1/94 to 4/1/95.
13. Principal Investigator - "Myeloperoxidase: A putative mediator of oxidative changes in atherogenesis". American Heart Association, National Center. \$132,000. 7/1/94 to 6/30/97.
14. Principal Investigator - "Antiatherogenic effects of novel antioxidant compounds in LDL receptor deficient mice". AtheroGenics, Atlanta GA. \$33,600. 1/1/97 to 7/1/97.
15. Principal Investigator - "Effectiveness of COXII inhibitors on the development of atherosclerosis". G.D. Searle, St. Louis MO. \$44,400. 1/1/97 to 7/1/97.
16. Principal Investigator - "Oxidized lipoproteins and immune responses". American Heart Association Missouri Affiliate Summer Fellowship. \$2,000. 6/1/97 to 8/1/97.
17. Principal Investigator - "The effects of dietary antioxidants on the development of atherosclerosis" Monsanto, St. Louis. \$64,619. 10/1/97 to 6/1/98.
18. Principal Investigator - "The role of COXII inhibition of the development of atherosclerosis in apoE -/- mice" \$75,000. Monsanto, St. Louis. 5/1/99 - 5/1/00.
19. Principal Investigator - "Supplement for under represented minorities in postdoctoral training" National Institutes of Health. \$123,766. 1/1/99 - 7/31/01.
20. Principal Investigator - "Scavenger receptor modulation of atherogenesis". RO1 HL55487. National Institutes of Health. \$1,322,176. 7/1/96 to 6/30/02.
21. Principal Investigator - "Effects of ZD4522 on the development of atherosclerosis and aneurysms". AstraZeneca. \$105,000. 1/1/01 to 1/3/03.
22. Principal Investigator - "Effects of interleukin-12 on interferon-gamma induced atherogenesis". American Heart Association National Center. Grant in aid. \$214,5000. 1/1/01 - 12/31/04.
23. Principal Investigator - "Mechanisms of sidestream cigarette smoke induced atherosclerosis" Philip Morris. - \$960,561. 4/1/02 - 3/31/05.
24. Principal Investigator - "AngII promotes proinflammatory processes in atherogenesis". National Institutes of Health. \$1,164,000. 10/1/00 to 6/31/05.
25. Principal Investigator - "Underrepresented minority supplement". National Institutes of Health. - \$342,337. 07/01/03 - 03/31/07.

26. Principal Investigator - "Role of MMPs in AngII-induced abdominal aortic aneurysms". National Institutes of Health. \$1,000,000. 4/1/02 - 3/31/07
27. Principal Investigator - In vivo evaluation of bioabsorbable polymer coated stents. Abbott Vascular. \$190,840. 9/1/06 - 12/31/07
28. Principal Investigator - "Effect of renin inhibition on the development of atherosclerosis". Novartis Research Institute. \$160,424. 01/10/05 - 31/09/07
29. Principal Investigator - "Role of endothelial AT1a receptors on sidestream smoke induced atherosclerosis and vascular dysfunction." Philip Morris. \$1,086,289. 9/1/05 - 8/31/08.
30. Principal Investigator - "Effects of 11 $\beta$ -hydroxysteroid dehydrogenase inhibition on atherosclerosis in rabbits. Merck. \$144,190. 05/01/08 - 04/30/10.
31. Principal Investigator. Determine the effect of anti-inflammatory agents on the development of AngII-induced AAAs. Johnson and Johnson.
32. Principal Investigator - "Determine the efficiency of renin inhibition on regression of hypercholesterolemia-induced atherosclerosis. Novartis Institutes for Biomedical Research. \$232,701. 07/01/08 - 06/30/11.
33. Principal Investigator - "Determine the relative efficacy of different modes of inhibiting the renin-angiotensin system (RAS) on hypercholesterolemia-induced atherosclerosis." Novartis Institutes for Biomedical Research. \$232,701. 07/01/08 - 06/30/11.
34. Project Director - "Mechanisms of abdominal aneurysm formation". Program Project Grant, National Institutes of Health. \$8,437,804. 04/01/06 - 03/31/12 (YR 06 no cost extension).
35. Principal Investigator - "Sources and effects of angiotensin peptides in atherosclerosis". National Institutes of Health. \$1,837,500. 07/30/08 - 08/31/13.
36. Principal Investigator - "Mechanisms of thoracic aortic aneurysms". National Institutes of Health. \$2,172,669. 04/01/12 - 03/31/18.
37. Principal Investigator - "Adventitial-medial interactions in thoracic aortic diseases". National Institutes of Health. \$2,890,490. 07/01/16 - 06/30/21.
38. Principal Investigator - "Adventitial-medial interactions in thoracic aortic diseases - supplement". National Institutes of Health. \$382,500. 09/20/18 - 06/01/21.
39. Principal Investigator - "Adventitial-medial interactions in thoracic aortic diseases - supplement". National Institutes of Health. \$453,200. 05/30/18 - 06/01/21.
40. Co-Principal Investigator. (MPI Grant). Atherosclerosis Mechanisms: angiotensin II production and action. National Institutes of Health. \$1,990,396. 5/1/18 - 3/31/23
41. Program Director. University of Kentucky- Baylor College of Medicine Aortopathy Center. American Heart Association Strategically Focused Network. \$3,709,200. 4/1/18 - 3/30/23.
42. Principal Investigator. Subaward to a Parent UT2 from the National Institute of General Medicine. Development of a curriculum for service core directors. \$50,000. 1/9/22 - 31/8/24.

## Sponsor

1. Fellowship sponsor for Dr. Stewart Whitman - "Interferon-g deficiency on atherosclerotic lesions in apoE-/- and LDL-R-/- mice". Heart and Stroke Foundation of Canada. \$57,000. 6/1/97 to 7/30/99.
2. Fellowship sponsor for Dr. Stewart Whitman - Absence of interferon-gamma increases atherogenesis. American Heart Association, Ohio Affiliate. \$60,000. 7/1/99 - 6/30/01.
3. Pre-doctoral Fellowship Sponsor - (M.W. Manning) The role of angiotensin II in matrix metalloproteinase production and the formation of abdominal aortic aneurysms. American Heart Association, Ohio Valley Affiliate. \$34,000. 7/1/01 - 6/30/03.
4. Post-doctoral Fellowship Sponsor - (V.L. King) The role of IL-4 in the development of atherosclerosis. American Heart Association, Ohio Valley Affiliate. \$76,000. 8/1/01 - 7/31/03.
5. Fellowship Sponsor - (K Saraff) "AngII induced AAAs occur via stimulation of aortic cell uPA activity that promotes leukocyte infiltration in a U-PA receptor dependent manner. Vascular Biology Working Group. \$25,000. 10/1/03 - 9/30/04.
6. Pre-doctoral Fellowship Sponsor - (J. Huang) "AngII upregulates macrophage MMP-2 activity to facilitate entry of this cell type into arterial tissue". American Heart Association Ohio Affiliate. \$38,000. 7/1/03 - 6/31/05.
7. Post-doctoral Fellowship Sponsor - (H. Lu) "Renin-dependent angiotensin peptide generation in macrophages and its contribution to the hypercholesterolemia induced atherosclerosis. American Heart Association Ohio Valley Affiliate. \$84,000. 07/01/04 - 06/30/06.
8. Post-doctoral Fellowship Sponsor - (V. Mokashi) "Low density lipoprotein receptor-related protein initiates angiotensin II-induced abdominal aneurysms. American Heart Association Ohio Valley Affiliate. \$84,000. 07/01/06 - 06/30/08.
9. Pre-doctoral Fellowship Sponsor (A.P. Owens). "MyD88 deficiency attenuates angiotensin II-induced atherosclerosis and abdominal aortic aneurysms". American Heart Association Ohio Valley Affiliate. \$40,000. 07/01/06 - 06/30/08.
10. Post-doctoral Fellowship Sponsor (V. Subramanian) "Role of peroxisome proliferator activated receptor gamma in angiotensin II induced abdominal aortic aneurysms. American Heart Association Great Rivers Affiliate. \$88,000. 07/01/08 - 06/30/10.
11. Post-doctoral Fellowship Sponsor (A. Poduri) "Role of cell specific AT1a receptor activation in AngII-induced SMC hyperplasia and hypertrophy in ascending aorta. American Heart Association Great Rivers Affiliate. \$88,000. 07/01/10 - 06/30/12.
12. Post-doctoral Fellowship Sponsor (X. Chen). "Role of TGF- $\beta$ 1 in AngII-induced ascending aortic aneurysms. National Marfan Foundation. \$150,000. 07/04/11 - 06/30/13.
13. Pre-doctoral Fellowship Sponsor (C. Wu). "Effect of angiotensinogen oxidation on the development of atherosclerosis. American Heart Association Great Rivers Affiliate. \$50,000. 07/01/12 - 06/30/14.
14. Pre-doctoral Sponsor – Jeff Chen, University of Kentucky CCTS TL1. National Institutes of Health. 09/01/17 – 10/31/18
15. Post-doctoral Sponsor – Hisashi Sawada. The impact of muscle cell embryonic origin on TGF beta signaling during thoracic aortic aneurysms formation. American Heart Association. 07/01/18 – 06/30/20. \$122,960.

## Co-Investigator

1. Co-Investigator - "Molecular Biology and Immunology Core". National Institutes of Health Specialized Center for Research in Coronary and Vascular Diseases. \$741,886. 1/1/90 to 12/31/95.
2. Co-Investigator - "Alterations of membrane-mediated signaling in diabetes". PO1 HL57278. National Institutes of Health. \$5,317,030. 7/1/96 to 6/30/01. (Principal Investigator, R.W. Gross).
3. Co-Investigator (Principal Investigator - S. Post). "Scavenger receptor and G protein function in macrophages" National Institutes of Health. \$625,000. 7/1/00 - 6/30/03
4. Co-Investigator - (Principal Investigator - E.J. Smart) "SR-B1 and macrophage cholesterol metabolism" National Institutes of Health. \$1,141,760. 8/1/99 - 7/31/03.
5. Co-Investigator (Principal Investigator - R. Asmis) "Glutathione and atherosclerosis" National Institutes of Health. \$800,000. 7/1/02 - 6/31/06
6. Co-Investigator (Principal Investigator - D. van der Westhuyzen) "Class B Scavenger receptors and foam cell formation" National Institutes of Health. \$875,000 7/1/00 - 6/30/05.
7. Co-Investigator (Principal Investigator - F.C. de Beer) "SAA and sPLA2 role in atherogenesis" National Institutes of Health. \$1,206,830. 1/1/02 - 12/31/06
8. Co-Investigator (Principal Investigator - N. R. Webb) "sPLA2 and atherosclerosis" National Institutes of Health. \$1,250,000. 4/1/03 - 3/31/08
9. Co-Investigator (Principal Investigator - J. Ebersole) Center for the Biological Basis of Oral/Systemic Diseases - COBRE. National Institutes of Health. 9/23/04 - 7/31/09.
10. Co-Investigator (Principal Investigator - B. Hennig) "Superfund chemical, nutrition, and endothelial cell dysfunction" National Institutes of Health. \$11,000,000. 04/01/06 - 03/31/10.
11. Co-Investigator (Principal Investigator - L. Tannock) Angiotensin induced proteoglycans in atherosclerosis". National Institutes of Health. \$1,250,000. 2/1/07 - 1/30/12.
12. Co-Investigator (Principal Investigator - J. Golledge, James Cook University, Australia). "Osteoprotegrin and osteopontin in aortic aneurysm". National Institutes of Health. 6/1/05 - 5/31/09.
13. Co-Investigator (Principal Investigator - C. C. Hedrick, University of Virginia). "Sphingolipids and cardiovascular disease in type I diabetes. National Institutes of Health. 9/30/04 - 8/31/08.
14. Co-Investigator (Principal Investigator - L. A. Cassis) "Angiotensin: a link between obesity and hypertension". National Institutes of Health, \$1,876,446. 4/1/03 - 3/31/013.
15. Co-Investigator (Principal Investigator - D. Bruemmer). Role of nuclear receptor Nor-1 in atherosclerosis and vascular injury. National Institutes of Health. \$1,250,000. 4/1/06 - 3/31/11.
16. Co-Investigator (Principal Investigator - L. Cassis). Obesity and cardiovascular disease - COBRE. National Institutes of Health. \$10,006,089. 10/1/08 - 9/30/13.
17. Co-Investigator (Principal Investigator - X-A Li) Role of SR-B1 in LPS detoxification. National Institutes of Health. \$1,250,000. 8/6/08 - 5/31/13.
18. Co-Director (Director - David Randall) T32 Interdisciplinary Cardiovascular Training Program. National Institutes of Health. \$1,226,976. 7/1/09 - 6/30/14

19. Co-Investigator (Principal Investigator - Harold Stills) Establishing a Bioexclusion Barrier in the Combs Cancer Research Building. National Institutes of Health. \$484,000. 04/01/15 - 03/31/16
20. Co-Investigator (Principal Investigator - L.A. Cassis). Angiotensin – a link between obesity and hypertension. National Institutes of Health. \$3,018,870. 06/03/03 – 04/30/18.
21. Co-Investigator (Principal Investigator - L.A. Cassis). Center of Research in Obesity and Cardiovascular Diseases. National Institutes of Health. \$21,958,488. 09/08/08 – 06/30/18
22. Co-Investigator (Principal Investigator – V. Subramanian). Calpains and abdominal aortic aneurysms. National Institutes of Health. \$1,530,000. 10/10/17 – 06/31/21
23. Co-Investigator (Principal Investigator - L.A. Cassis). Sex differences in angiotensin-induced vascular disease. National Institutes of Health. \$2,289,346. 04/01/12 – 05/31/20.
24. Co-Investigator (Principal Investigator - L.A. Cassis). Center of Research in Obesity and Cardiovascular Diseases. National Institutes of Health. \$21,958,488. 09/08/08 – 06/30/22
25. Co-Investigator (Principal Investigator – J. Gensel). The role of lipid dysfunction in spinal cord pathophysiology. Craig H. Neilson Foundation. \$598,115. 07/01/20 – 06/30/23
26. Co-Investigator (Principal Investigator – K.A. Gallagher, University of Michigan). JMJD3 Regulates Abdominal Aortic Aneurysm Expansion. National Institutes of Health. \$2,343,548. 04/01/21 – 04/31/24

## Patents

Title: Treatment using AGT (angiotensinogen) ASO (antisense oligonucleotide)  
Filed Date: 5/5/2020  
EFS ID: 39358359  
Confirmation Number: 4483  
Application Serial No: 63/020,324  
Attorney Docket Number: 13177N/2486US  
Inventors: Alan Daugherty, Hong Lu, Mary Sheppard, Jeff Chen  
Description: Use of AGT ASO to treat thoracic aortic aneurysms in patients  
Publication number: US 2021/0348168 A1

Title: Treatment for aortopathy targeting GSDMD (Gasdermin D)  
Filed Date: 6/25/2020  
EFS ID: 39793502  
Confirmation Number: 3534  
Application Serial No: 63/042,427  
Attorney Docket Number: 13177N/2475US  
Inventors: Congqing Wu, Hong S. Lu, Alan Daugherty, Zhenyu Li  
Description: Inhibition of GSDMD to treat aortic aneurysms and dissections in patients