

Alan Daugherty, Ph.D., D.Sc., F.A.H.A.

CURRICULUM VITAE July 2011

PERSONAL

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Date of Birth: May 2, 1957
Nationality: British
Marital Status: Married

Place of Birth: Liverpool, England
Immigration Status: Permanent Resident

EDUCATION

Institution	Dates	Degree	Subject
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

Senior Associate Dean for Research, College of Medicine	2009 - present
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 - present
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

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 - present	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

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 - present	Graduate student (Nutritional Sciences)
7.	Kyung Sik Jung	7/11 - present	Graduate student (Toxicology)

* Indicates recipients of American Heart Association Pre-doctoral Fellowships

Visiting Graduate Trainees

1.	Ninetta Koswig	6/00 - 8/03	Visiting graduate student (University of Bonn)
2.	Chiara Barisione	1/05 - 1/06	Visiting graduate student (Genova University School of Medicine)
3.	Xiaojie Xie	7/06 - 9/07	Visiting graduate student (Zhejiang University, Hangzhou)
4.	Shaoping Wang	1/08 - 5/09	Visiting graduate student (Zhejiang University, Hangzhou)

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. *	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.	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, Ph.D. *	3/03 - 6/08	Research Fellow
10.	Vishwesh Mokashi, Ph.D. *	8/04 - 4/08	Research Fellow
11.	Qingwei Zhao, Ph.D.	9/04 - 7/06	Research Fellow
12.	Haruhito A. Uchida, M.D., Ph.D.	8/06 - present	Research Fellow

13.	Venkateswaran Subramanian, Ph.D. *	10/06 - present	Research Fellow
14.	Xiaofeng Chen, M.D., Ph.D.#	05/09 - present	Research Fellow
15.	Aruna Poduri, Ph.D. *	07/09 - present	Research Fellow

* Indicates recipients of American Heart Association Postdoctoral Fellowships

Indicates recipient of National Marfan Foundation Fellowship

Sabbatical Visitors

1.	Suzanne Thorpe, Ph.D.	7/92 - 6/93	Research Professor, University of South Carolina.
2.	Wenqiang Chen, M.D.	4/08 - present	Associate Professor, Shandong University

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

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 - present	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
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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 - present	Member, Leadership Committee, ATVB Council
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

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 - present	Member, Innovative Research Peer Review Committee
2008 - present	Member, Strategic Peer Review Planning Committee
2009	Member, Ad Hoc Reviewer working group
2009	Chair, Region I Research Consortium Steering Committee
2009 - present	Member, Unified Peer Review Steering Committee
2009 - present	Member, Unified Peer Review Committee

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 - present	Member, ATVB Spring Meeting Program Committee
2008 - 2009	Chair, Spring Program Committee, ATVB Council

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 Chair, COC Task for on Proposed Science Subcommittee: Vascular Imaging & Intervention (VII)

Publishing

2010 - 2011 Member, Editor Search Committee, ATVB

American Diabetes Association

2006 Member, Macrovascular/Lipid content subcommittee of ADA scientific sessions

2007 - present Abstract grader

American Society for Investigative Pathology

2008 - present Ambassador to University of Kentucky

International Atherosclerosis Society

2006 - present Member, Program committee for XV International Symposium, 2009 Boston

2008 - present Member, International Advisory Board

2008 Abstract Grader

2009 - present Liaison to the ATVB Council

Society of Vascular Surgeons

2008 - 2010 Member, Conference Planning Committee

International College of Angiology

2009 - present Member, Conference Planning Committee for 52nd Annual Congress

International Society on Thrombosis and Haemostasis

2011 Abstract grader for XXII Congress

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 - present

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

External Advisor (Program Academic) Columbia University SCOR in Atherosclerosis. 2001
University of California, Davis PPG. 2003
University of Texas Medical Center SCCOR. 2005 - present
University of Virginia PPG. 2005
Medical University of Vienna Faculty search. 2006
Southwestern Foundation for Biomedical Research PPG, San Antonio. 2006-present
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

External Advisor (Individual Academic) Scott Lamaire, M.D. Department of Surgery, Baylor University, KO8, 2005 - 2009
Matthew Eagleton, M.D., Department of Surgery, Cleveland Clinic. KO8, 2007- 2010

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 - present
AstraZeneca, Gothenburg, Sweden 2009
Novartis, New York 2009

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 - present.

Editorial Boards Arteriosclerosis, Thrombosis, and Vascular Biology. 2003 - present
Drug Discovery Today: Disease Models. 2003 - 2008
Current Cardiology Reviews. 2004 - present
Open General and Internal Medicine Journal. 2007 - present
Clinical Science. 2007 - present
Journal of Cardiovascular Pharmacology. 2010 - present
Journal of Clinical Investigation. 2008 - present

Consulting Editor Journal of Clinical Investigation. 2008 - present
Arteriosclerosis, Thrombosis, and Vascular Biology. 2009 - present

Lancet
Life Sciences
Lipids
Microscopy and Microanalysis
Molecular Medicine
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
Vascular Medicine
Vascular Pharmacology

* denotes journals in which more than 5 reviews are usually performed per year.

Ph.D. Thesis Examiner Andrew Evans, University of Western Ontario, Canada 1995
Ninnetta Kosswig, University of Bonn, Germany, 2003
Antony Vinh, Monash University, Australia, 2008

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

University of Kentucky

Member	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 - present
	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 - present
	University Conflict of Interest Committee	2008 - present
	University Research Advisory Council	2009 - present
	University Research Management Group	2009 - present
	Kentucky Children's Hospital Strategic Planning Committee	2010
Chair	Department of Toxicology External Review Committee	2006 - 2007
	COM Research Affairs Advisory Group	2009 - present

Thesis committees	Joshua M. 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 - 2010
	Manisha Gupte, Nutritional Sciences	2006 - 2010
	Melissa Zack, Nutritional Science	2006 - 2008
	Rania Al Hawas, Clinical Sciences	2007 - present
	Fanmuyi Yang, Physiology	2008 - present
	Christopher Simmons, Physiology, MD/PhD	2009 - present
	Zachary Fulkerson, Physiology, MD/PhD	2009 - present
	Kelly Putnam, Nutritional Sciences	2009 - present
	Olive Zhang, Biomedical Engineering	2009 - present
	Abdelghaffar Salous, Physiology	2009 - present
	Madhura Parulkar, Toxicology	2009 - present
Jenny Lutshumba	2011 - present	
External Examiner (UK)	Gerome Burke, Pharmaceutical Sciences	2004
	Wangsun Choi, Biochemistry	2008
	Joseph McCorkle, Molecular Pharmacology	2010
Organizer	Gill Heart Institute Cardiovascular Research Day	1998 - 2009
Chair	Outstanding Scientist Award Committee	1998 - 2007
	Cardiovascular Seminar Series Committee	1998 - 2009
	Young Physician Scientist Award Committee	2000 - 2007

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 XIIth 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 50th 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. South East 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. 4th 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, 10th 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. 8th 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, Huhohote, 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. 20th 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. 6th International Conference on Biology, Chemistry and Therapeutic Applications of NO. Kyoto, Japan - 2010.
139. 53rd 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. 8th International Symposium on Marfan's Syndrome. Warrenton, VA - 2010
143. 12th 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. Beijing Institute of Heart, Lung, and Blood Diseases, Beijing, China - 2011.
156. Department of Cardiology, Fuwai Hospital, Beijing, China - 2011.
157. Center for Cardiovascular and Pulmonary Research, National Children's Hospital, Columbus, OH - 2011.

Future engagements

1. Spanish Center for Cardiovascular Research, Madrid, Spain - 2011.
2. Animal Models and their Value in Predicting Efficacy and Toxicity, New York Academy of Sciences. New York, NY - 2011.
3. 2011 B. Lowell Langille Vascular Biology Lectureship. Department of Laboratory Medicine and Pathobiology, University of Toronto, Toronto, Canada - 2011
4. Cardiothoracic Surgery Research Lecture Series. Emory University, Atlanta, GA - 2011
5. Abdominal Aortic Aneurysms: Epidemiology, Genetic, and Pathophysiology. Giesinger Clinic, Danville, PA - 2011.
6. Department of Pharmacology, University of Illinois in Chicago, Chicago, IL - 2011
7. Department of Medical Biochemistry, Amsterdam Academic Medical Center, Amsterdam, Holland - 2012.
8. AAA Basic Science Symposium. XVI International Symposium on Atherosclerosis (ISA2012), Sydney, Australia - 2012.

PUBLICATIONS

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)
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7. Daugherty, A., G. Schonfeld, B.E. Sobel and L.G. Lange. (1986). Metabolism of very low density lipoproteins after cessation of cholesterol feeding in rabbits: A factor potentially contributing to the slow regression of atheromatous plaques. *Journal of Clinical Investigation*. **77**: 1108-1115. (PMID 3958182)
8. Fields, L., A. Daugherty and S.R. Bergmann. (1986). Effect of fatty acid on performance and lipid content of hearts from diabetic rabbits. *American Journal of Physiology*. **250**: H1079-H1085. (PMID 3521333)
9. Daugherty, A., D.L. Rateri, G. Schonfeld and B.E. Sobel. (1987). Inhibition of cholesteryl ester deposition in macrophages by calcium entry blockers. An effect dissociable from calcium entry blockade. *British Journal of Pharmacology*. **91**: 113-118. (PMID 3594069)
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12. Cole, T. G., R. T. Kitchens, A. Daugherty and G. Schonfeld. (1988). An improved method of separation of triglyceride-rich lipoproteins by fast protein liquid chromatography. *Pharmacia Comminuque*. **4**: 4-7.
13. Daugherty, A., B.S. Zweifel, B.E. Sobel and G. Schonfeld. (1988). Isolation of low density lipoproteins from atherosclerotic vascular tissue of Watanabe Heritable Hyperlipidemic rabbits. *Arteriosclerosis*. **8**: 768-777. (PMID 3196220)

14. Tilton, R.G., A. Daugherty, S.P. Sutera, K.B. Larson, M.P. Land, D.L. Rateri, C. Kilo, and J. R. Williamson. (1989). Myocyte contracture, vascular resistance and vascular permeability after global ischemia in isolation hearts from alloxan-induced diabetic rabbits *Diabetes*. **38**: 1484-1491. (PMID 2620782)
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110. Lu, H, D.L. Rateri, L.A. Cassis and A. Daugherty. (2006) Renin deficiency in bone marrow-derived cells reduces hypercholesterolemia-induced atherosclerosis. *Seventh Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
111. Owens, A.P. , J.J. Moorleghen, and A. Daugherty (2006) Angiotensin II infusion increases aortic medial thickness via pressure independent region-specific mechanisms. *Seventh Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
112. Mokashi, V, and A. Daugherty. (2006). Angiotensin II reduces abundance of LRP in Aortic smooth muscle cells in a region-specific manner. *Seventh Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
113. Barisione, C., D.A. Howatt, J.J. Moorleghen, D.L. Rateri, and A. Daugherty (2006). Rapid dilation of the abdominal aorta during infusion of angiotensin II detected by noninvasive high frequency ultrasound. *Seventh Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
114. Beckers, L., M. Daemen, A. Daugherty, and E. Lutgens. (2006). Deficiency of CD40L reduces the incidence of aortic aneurysm formation and prevents aortic rupture. *Circulation*.
115. Lu, H., L.A. Cassis, D. Feldman, and A. Daugherty. (2006). Renin Inhibition markedly reduces hypercholesterolemia-induced atherosclerosis. *Circulation*.
116. Rateri, D.L., D.A. Howatt, C. Barisione, J.J. Moorleghen, and A. Daugherty. (2007). Continuous angiotensin II infusion promotes progressive expansion and vascular remodeling of abdominal aortic aneurysms in apolipoprotein E-/- mice. NAVBO Workshop.
117. Xie, X., D.A. Howatt, L.A. Cassis, and A. Daugherty. (2007). MMP-9 deficiency does not influence atherosclerosis but promotes abdominal aortic aneurysms in both hypercholesterolemic and angiotensin II-infused mice. *Eighth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
118. Owens III, A.P., J.J. Moorleghen, C.A. McNamara, and A. Daugherty. (2007). Angiotensin II infusion results in a region-specific aortic hypertrophy and hyperplasia requiring AT1a receptor activation of p47^{phox} and ID3 in a pressure-independent manner. *Eighth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
119. Mokashi, V. and A. Daugherty. (2007). Angiotensin II decreases cell surface expression of LRP in abdominal smooth muscle cells via AT1 receptors: Role of receptor associated protein (RAP). *Eighth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
120. Lu, H., D.L. Rateri, L.A. Cassis, and A. Daugherty. (2007). Medial macrophages that accumulate in abdominal aortic regions prone to angiotensin II-induced aneurysms are not primarily derived from blood borne cells. *Eighth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
121. Rateri, D.L., D.A. Howatt, J.J. Moorleghen, C. Barisione, and A. Daugherty. (2007). Continuous angiotensin II infusion promotes progressive expansion and vascular remodeling of abdominal aortic aneurysms in apolipoprotein E-/- mice. *Eighth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.

122. Daugherty, A., D. A. Howatt, S.G Han and C.G.Gairola (2007). Deficiency of AT1a receptors profoundly reduces sidestream cigarette smoke-augmented atherosclerosis in LDL receptor $-/-$ mice. *Eighth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
123. Arsenescu, A., S. Police, E. Langlois, V. English, A. Daugherty, L.A. Cassis. (2007). The environmental pollutant, polychlorinated biphenyl 77, augments angiotensin II-induced abdominal aortic aneurysm formation in apolipoprotein E deficient mice. *Eighth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
124. Zhang, X., T. Henriques, A. Daugherty and L.A. Cassis. (2007). Androgen increases expression of the aortic AT1a receptor and recapitulates angiotensin II-induced abdominal aortic aneurysms in castrated male apoE $-/-$ mice. *Eighth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
125. Owens, A.P., and A. Daugherty (2007). Angiotensin II-induced abdominal aortic aneurysms are attenuated by deficiency of the innate immune mediator, myeloid differentiation factor 88. *Circulation*.
126. Mokashi, M and A. Daugherty (2007) Deficiency of receptor associated protein (RAP) enhances formation of angiotensin II-induced vascular pathology. *Circulation*.
127. Han, S.G., D. Howatt, A. Daugherty, and C.G. Gairola. (2007) Atherogenic and pulmonary response of apoE and LDL receptor deficient mice to cigarette smoke. *Society for Toxicology*.
128. Uchida, H.A., L.A. Cassis, and A. Daugherty. (2008) Contrasting Roles of uPA and uPAR on the Development of AngII-induced Abdominal Aortic Aneurysms in LDL Receptor Deficient Mice. *Ninth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
129. Subramanian, V, J. Golledge, and A Daugherty. (2008) Angiotensin II reduces abundance of PPAR γ in aortic smooth muscle cells via the TGF- β 1 activated p38 MAP kinase in a Smad-independent manner. *Ninth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
130. Lu, H, L.A. Cassis, D. L. Feldman, and A. Daugherty. (2008) Exogenous Angiotensin II Directly Promotes Abdominal Aortic Aneurysms in Hypercholesterolemic Mice. *Ninth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
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132. Nomiyama, T., F. Gizard, Y. Zhao, E.B. Heywood, K. L. Jones, A. Daugherty, and D. Brummer (2008) Deficiency of the NR4A orphan nuclear receptor NOR1 reduces atherosclerosis in apolipoprotein E-deficient mice. *Ninth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
133. Owens III, A.P. and A. Daugherty (2008). Myeloid differentiation factor 88 deficiency dramatically attenuates angiotensin II-induced atherosclerosis and aneurysms. *Ninth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
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135. Owens, AP III, D.A. Howatt, and A. Daugherty. (2008). Toll-like Receptor 4 deficiency attenuates angiotensin II-induced atherosclerosis and abdominal aortic aneurysm via a MyD88-dependent mechanism. *Circulation*.

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137. Zhao, Y., T. Nomiya, F. Gizard, H. Findeisen, E.B. Heywood, K.L. Jones, A. Daugherty, and D. Brummer. (2009). The NR4a orphan nuclear receptor NOR1 regulates monocyte adhesion during atherogenesis. *Tenth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
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139. Zack, M, P. Shridas, W. Bailey, K. Forrest, D.A. Howatt, A. Daugherty, and N. R. Webb (2009). Group X secretory phospholipase A₂ deficiency protects apoE-deficient mice from angiotensin II-induced abdominal aortic aneurysms. *Tenth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
140. Lu, H. L.A. Cassis, D.A. Howatt, A. Balakrishnan, T. Ijaz, and A. Daugherty. (2009). Low dietary sodium augments atherosclerosis in hypercholesterolemic mice. *Tenth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
141. Zhao, M., A. Daugherty, L.A. Cassis, and H. Lu. (2009). Angiotensin I infusion imitates the vascular pathologies induced by angiotensin II infusion. *Tenth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
142. Wang, S., D.A. Howatt, H. Lu, L.A. Cassis, and A. Daugherty. (2009). Deficiency of receptor associated protein attenuates atherosclerosis but not abdominal aortic aneurysms in hypercholesterolemic mice infused with angiotensin II. *Tenth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
143. Uchida, H.A., L.A. Cassis, and A. Daugherty. (2009) Deficiency of uPA promotes angII-induced abdominal aortic rupture in LFL receptor deficient mice. *Tenth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
144. Subramanian, V., D. Brummer, J. Golledge and A. Daugherty. (2009). Smooth muscle specific PPAR γ deficiency augments angiotensin II-induced atherosclerosis but does not affect abdominal aortic aneurysms in male LDL receptor deficient mice. *Tenth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
145. Zhang, X., A. Daugherty and L.A. Cassis. (2009). Developmental programming of female apoE^{-/-} mice by androgen increases AngII-induced AAAs. *Tenth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
146. Thatcher, S.E., X. Zhang, D.A. Howatt, D.L. Rateri, H. Lu, A. Daugherty and L.A. Cassis. (2009). ACE2 deficiency in bone marrow-derived cells increases atherosclerosis in LDL receptor ^{-/-} mice. *Tenth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
147. Owens III, A.O., D.A. Howatt, and A. Daugherty. (2009). Contrasting effects of MyD88 and TLR4 deficiency in bone marrow-derived cells on angiotensin II-induced atherosclerosis and abdominal aortic aneurysms. *Tenth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
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154. Lu, H., M. Zhao, D.L. Rateri, and A. Daugherty. (2009). Prominent roles of the renin angiotensin system in atherosclerosis. *Chinese Journal of Arteriosclerosis*. **17**: 573.
155. Zhang, X., J. Hurng, D. Chan, D.L. Rateri, A. Daugherty, G. W. Schmid-Schonbein, and Hainsworth Shin. (2010). Enhancement of membrane cholesterol attenuates leukocyte shear response. FASEB.
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157. Blomkalns, A.L., B. Neltner, V. Blanco, R. Thompson, M. Thomas, M.L. McCormick, D. Gavrila, R.M. Weiss, P.D. Lindower, A. Daugherty, L. A. Cassis, and N.L. Weintraub. (2010). Role of myeloperoxidase in murine abdominal aortic aneurysm (AAA) formation. *Eleventh Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
158. Rateri, D.L., J.J. Moorleghe, A. Balakrishnan, D.A. Howatt, L.A. Cassis, and A. Daugherty. (2010). Endothelial cell-specific AT1a receptor deficiency attenuates formation of angiotensin II-induced ascending aortic aneurysms. *Eleventh Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
159. Rateri, D.L., J.J. Moorleghe, A. Balakrishnan, D.A. Howatt, L.A. Cassis, and A. Daugherty. (2010). Lack of effects of endothelial or smooth muscle cell-specific AT1a receptor deficiency on AngII-induced atherosclerosis or abdominal aortic aneurysms in male LDL receptor *-/-* mice. *Eleventh Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
160. Poduri, A., D.A. Howatt, A. Balakrishnan, L.A. Cassis, and A. Daugherty. (2010). Angiotensin II type 1b receptor deficiency has no effect on angiotensin II-induced atherosclerosis and abdominal aortic aneurysms in male LDL receptor deficient mice. *Eleventh Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
161. Wu, C., L.A. Cassis, A. Daugherty, and H. Lu. (2010). Attenuation of endogenous angiotensinogen reduces abdominal aortic aneurysms induced by exogenous angiotensin II. *Eleventh Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.

162. Thatcher, S., X. Zhang, D.A. Howatt, A. Daugherty, and L.A. Cassis. (2010). ACE2 deficiency increases atherosclerosis in LDL receptor-/- mice. *Eleventh Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
163. Chen, X., H. Lu, L.A. Cassis, and A. Daugherty. (2010). Angiotensinogen deficiency in bone marrow-derived cells does not reduce hypercholesterolemia-induced atherosclerosis. *Eleventh Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
164. Feng, H., L. Guo, D. Wang, A. Daugherty, H. Gao, G. Hou, and X.-A. Li. (2010). Impaired lymphocyte homeostasis and autoimmune disorder in mice deficient in HDL receptor. *Circulation*.
165. Duong, H.L., K.Y. Lain, D.A. Howatt, D.L. Rateri, A. Daugherty A, and T.E. Curry Jr. (2011). Parity is associated with increased atherosclerosis in a mouse model. *Society of Gynecologic Investigation, 58th Annual Scientific Meeting. Miami, FL*
166. Balakrishnan, A., D.A. Howatt, D.L. Rateri, M.J. Graham, A.E. Mullick, R.M. Croke, L.A. Cassis, and Alan Daugherty. (2011). Inhibition of angiotensinogen synthesis by antisense oligonucleotides decreases atherosclerosis and obesity in male LDL receptor deficient mice fed a saturated fat-enriched diet. *Twelfth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
167. Lu, H., A. Balakrishnan, D.A. Howatt, G. Liau, L.A. Cassis, and A. Daugherty. (2011). Comparative efficacy of different modes of renin angiotensin system inhibition on hypercholesterolemia-induced atherosclerosis. *Twelfth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*
168. Poduri, A, D.A. Howatt, J.J. Moorlegghen, L.A. Cassis, and A. Daugherty. (2011). Lack of effects of endothelial or smooth muscle cell-specific AT1a receptor deficiency on angii-induced medial hypertrophy. *Twelfth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
169. Rateri, D.L., D.A. Howatt, A. Balakrishnan, J. J. Moorlegghen, L.A. Cassis, and A. Daugherty. (2011). Angiotensin II infusion induces intralamellar hemorrhage and ulceration in the ascending aorta. *Twelfth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
170. Rateri, D.L., D.A. Howatt, A. Balakrishnan, J.J. Moorlegghen, L.A. Cassis, and A. Daugherty. (2011). Angiotensin II infusion induces intralamellar hemorrhage and ulceration in the ascending aorta. *Twelfth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
171. Thatcher, S.E., X. Zhang, D.A. Howatt, M. Karounos, A. Daugherty, and L.A. Cassis. (2011). Infusion Of low doses of Ang-(1-7) attenuates angii-induced atherosclerosis in male Ldl-receptor deficient mice but has no effect on AngII-induced AAAs. *Twelfth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
172. Hong, F., L. Guo, D. Wang, H. Gao, G. Hou, O. Foreman, A. Daugherty, and X-A. Li. (2011). Deficiency of SR-BI leads to impaired lymphocyte homeostasis and autoimmune disorder in mice. *Twelfth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
173. Al Hawas, R., S. Whiteheart, D.A. Howatt, and A. Daugherty. (2011). Does the v-SNARE VAMP-8 play a role in atherosclerosis? *Twelfth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
174. Zhang, X., J. Hurng, D.L. Rateri, A. Daugherty, and H. Y. Shin. (2011). Leukocyte sensitivity to fluid flow stimulation depends on membrane cholesterol-dependent fluidity. *Biomedical Engineering Society*.

Shared Reagents

1. AT1a receptor floxed mice - Stock#016211 C57BL/6N-agtr1a<tmuky>/J. The Jackson Laboratory, Bar Harbor, ME.

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 Citations - 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
5. Cholesterol drugs may help in cardiac emergencies. *Health.com*. <http://news.health.com/2009/05/01/cholesterol-drugs-may-help-cardiac-emergency/>

RESEARCH SUPPORT

Present Support

Principal Investigator

1. 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).
2. Principal Investigator - "Sources and effects of angiotensin peptides in atherosclerosis". National Institutes of Health. \$1,837,500. 012/16/08 - 08/31/12.
3. Principal Investigator - "Determine the efficacy of renin inhibition on regression of hypercholesterolemia-induced atherosclerosis. Novartis Institutes for Biomedical Research. \$232,701. 07/01/08 - 06/30/11.
4. 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.

Sponsor

1. 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.
2. Post-doctoral; Fellowship Sponsor (X. Chen). "Role of TGF- β 1 in AngII-induced ascending aortic aneurysms. National Marfan Foundation. \$75,000. 07/04/11 - 06/30/12.

Co-Investigator

1. Co-Investigator (Principal Investigator - L. A. Cassis) "Angiotensin: a link between obesity and hypertension". National Institutes of Health, \$1,876,446. 4/1/03 - 3/31/08.
2. 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.
3. Co-Investigator (Principal Investigator - L. Cassis). Obesity and cardiovascular disease - COBRE. National Institutes of Health. \$10,006,089. 10/1/08 - 9/30/13.
4. 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.
5. Co-Director (Director - David Randall) T32 Interdisciplinary Cardiovascular Training Program. National Institutes of Health. \$1,226,976. 7/1/09 - 6/30/14

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.
6. Principal Investigator - "Arterial lipoprotein receptor modulation in atherogenesis" Established Investigator of the American Heart Association. \$265,000. 7/1/92 to 6/30/97
7. 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.
8. Principal Investigator - "Scavenger receptor expression in atherogenesis". American Heart Association, Missouri Affiliate. \$55,000. 7/1/92 to 6/30/94.
9. 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.
10. 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.
11. 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.
12. 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.
13. 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.
14. 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.
15. Principal Investigator - "Oxidized lipoproteins and immune responses". American Heart Association Missouri Affiliate Summer Fellowship. \$2,000. 6/1/97 to 8/1/97.
16. Principal Investigator - "The effects of dietary antioxidants on the development of atherosclerosis"

- Monsanto, St. Louis. \$64,619. 10/1/97 to 6/1/98.
17. 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.
 18. Principal Investigator - "Supplement for under represented minorities in postdoctoral training" National Institutes of Health. \$123,766. 1/1/99 - 7/31/01.
 19. Principal Investigator - "Scavenger receptor modulation of atherogenesis". RO1 HL55487. National Institutes of Health. \$1,322,176. 7/1/96 to 6/30/02.
 20. Principal Investigator.- "Effects of ZD4522 on the development of atherosclerosis and aneurysms". AstraZeneca. \$105,000. 1/1/01 to 1/3/03.
 21. 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.
 22. Principal Investigator - "Mechanisms of sidestream cigarette smoke induced atherosclerosis" Philip Morris. \$960,561. 4/1/02 - 3/31/05.
 23. Principal Investigator - "AngII promotes proinflammatory processes in atherogenesis". National Institutes of Health. \$1,164,000. 10/1/00 to 6/31/05.
 24. Principal Investigator - "Under represented minority supplement". National Institutes of Health. \$342,337. 07/01/03 - 03/31/07.
 25. Principal Investigator - "Role of MMPs in AngII-induced abdominal aortic aneurysms". National Institutes of Health. \$1,000,000. 4/1/02 - 3/31/07
 26. Principal Investigator - In vivo evaluation of bioabsorbable polymer coated stents. Abbott Vascular. \$190,840. 9/1/06 - 12/31/07
 27. Principal Investigator - "Effect of renin inhibition on the development of atherosclerosis". Novartis Research Institute. \$160,424. 01/10/05 - 31/09/07
 28. 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.
 29. Principal Investigator - "Effects of 11 β -hydroxysteroid dehydrogenase inhibition on atherosclerosis in rabbits. Merck. \$144,190. 05/01/08 - 04/30/10.
 30. Principal Investigator. Determine the effect of anti-inflammatory agents on the development of AngII-induced AAAs. Johnson and Johnson.

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.

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 - 03/31/010.
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.