

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

### CURRICULUM VITAE

December 2018

#### PERSONAL

**Office:** University of Kentucky  
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**Date of Birth:** May 2, 1957

**Place of Birth:** Liverpool, UK

**Nationality:** Naturalized US Citizen, British

#### 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

Associate Vice President for Research	2015 - present
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 - 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 - 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

### 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
17.	Jacqueline Post	1/13 - 6/16	UK undergraduate
18.	Bradley Wright	8/16- present	UK undergraduate
19.	Reza Katanbaf	10/16-3/17	UK undergraduate

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

† 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.	Zheyang Chen	7/16-present	M.D./Ph.D. student
11.	Shayan Mohammadmoradi	7/17-present	Graduate student (Nutritional Sciences)

\* 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 ATVB.

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

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

### Visiting Graduate Trainees

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)

#### 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
3.	Simon E. Roselaar, M.D, Ph.D. *	7/93 - 6/97	Cardiology Research
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 - present	Research Fellow

\* Indicates recipients of American Heart Association Postdoctoral Fellowships

# Indicates recipient of National Marfan Foundation Fellowship

† Indicates recipients of ATVB Young Investigator Travel awards

¶ Indicates recipients of AHA Young Investigator awards

#### 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

#### 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

## 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

### **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 - 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  
2013 - 2014 Chair, ATVB Council Nominating Committee

#### *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-present	Member, Cardiovascular Genome-Phenome Study(CVGPS) Standing Review Panel
2017-present	Chair, Oversight Advisory Committee for Strategically Focused Research Awards

#### *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
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 - present	Member, Strategic Value Proposition Committee

#### *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 - present	Abstract grader

#### **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

**International College of Angiology**

2009 - 2010 Member, Conference Planning Committee for 52<sup>nd</sup> Annual Congress

**International Society on Thrombosis and Haemostasis**

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

**Sarnoff Cardiovascular Research Foundation**

2016 - present 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 Mentor – Jessica Zhang, Medical School – Cleveland Clinic Lerner College of  
Medicine of Case Western Reserve University.  
Research Experience – Dr. Christopher Glass, UCSD  
2018 - present Member, Scholar Award Application Task Force

**GenTAC Registry**

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

**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

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
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 - present Sanford-Burnham Medical Research Institute at Lake Nona. 2012 - 2015 National Heart Lung and Blood Institute Intramural Program. 2014 University of Wisconsin T32, 2014 - present 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 - present
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, Boston	2009
Renavance	2012	

Not available for industrial consulting during tenure as AHA Editor since 2012

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 ( <b>A</b> liskiren <b>Q</b> uantitative <b>A</b> therosclerosis <b>R</b> egression <b>I</b> ntravascular <b>U</b> ltrasound <b>S</b> tudy). Novartis/Cleveland Clinic. 2008 - 2012.

## EDITORIAL RESPONSIBILITIES

Editor-in-Chief	Arteriosclerosis, Thrombosis, and Vascular Biology. 2012 - present
Senior Consulting Editor	Circulation Research. 2012 - present
Associate Editor	Circulation Research. 2009 - 2012 Frontiers in Cardiovascular Medicine. 2014 - present
Consulting Editor	Journal of Clinical Investigation. 2008 - present Arteriosclerosis, Thrombosis, and Vascular Biology. 2009 - 2012
Guest Editor	Circulation. 2008 - present
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 Clinical Science. 2007 - present Journal of Cardiovascular Pharmacology. 2010 - present Frontiers in Cardiovascular Medicine. 2015-present



Guest Series Editor      *Coronary Artery Disease* for a "Review in Depth" entitled "Advances in the Cell  
Biology of Atherosclerosis"

Manuscript Reviewer:      Acta Physiologica Scandinavica  
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  
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  
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 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 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  
Vascular Medicine  
Vascular Pharmacology

#### COMMITTEE RESPONSIBILITIES

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  
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

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 - 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	
		201
	0 Planning Committee	
	Scientific Supplies Advisory Committee	2011 -
	present Provost's Strategic Planning Committee, Work Group 2	2013
	- 2014 Search Committee, Associate Director of Corporate	2014
	and Foundation Relations, Health Affairs	
	Search Committee, Director, Office of Sponsor Projects	2015
	Administration	
	Search Committee, Associate Dean for Research,	
		201
	5 College of Engineering	
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	2014 -
	present	
	Business Unit	
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 - 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, Molecular and Biochemical Pharmacology	2013 - 2018
	Peter Hecker, Department of Pharmacology	2016 - present
	Chai-Hua Wu, Nutritional Sciences	2017 - present
	Xufang Mu, Physiology	2017 - present
	Murong Ma, Nutritional Sciences	2018 - present
External Examiner	Gerome Burke, Pharmaceutical Sciences	2004
(UK)	Wangsun Choi, Biochemistry	2008
	Joseph McCorkle, Molecular Pharmacology	2010
	Matthew Parker, Molecular & Cellular Biochemistry	2014
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

### **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 Association for the Advancement of Science  
American Heart Association  
American Physiological Society  
American Society for Investigative Pathology  
Arteriosclerosis, Thrombosis, and Vascular Biology Council of the American Heart Association  
Association of Chairs of Departments of Physiology  
Biochemical Society  
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. Al 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 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. 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. XIIIth 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
95. Davis Heart and Lung Institute, Ohio State University, Columbus, OH - 2005
96. Johnson and Johnson Symposium, San Diego, CA - 2005
97. Vascular Research Program, Emory University, GA - 2006
98. Department of Pharmacology, University of Pennsylvania, PA - 2006
99. 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, 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. 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. Robarts 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. 66th Annual Scientific Session of the Japanese College of Cardiology, Osaka, Japan - September 2018.
247. 62nd 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

**Future engagements**

1. DGF Collaborative Research Center, Frankfurt, Germany – February 2019
2. Thrombosis and Atherosclerosis Research Institute, McMaster University, Hamilton, Canada – March 2019
3. Cardiovascular Sciences Training Program, University of Chicago, Chicago – January 2019
4. 9<sup>th</sup> Central Congress of Cardiology, Wuhan, China – April 2019
5. Great Wall Conference, Beijing, China – October 2019

## PUBLICATIONS

### Listings

- A. Original Research Manuscripts
- B. Published Sequences
- C. Non Scientific Publications
- D. Interviews
- E. Books
- F. Invited Chapters in Books
- G. Invited Reviews and Editorials
- H. 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)
5. Daugherty, A., S.R. Thorpe, L.G. Lange, B.E. Sobel, and G. Schonfeld. (1985). Loci of catabolism of beta-very low density lipoprotein *in vivo* delineated with a residualizing label: <sup>125</sup>I-dilactitol tyramine. *Journal of Biological Chemistry*. **260**: 14564-14570. (PMID 4055790)
6. Daugherty, A., K. N. Frayn, W. S. Redfern and B. Woodward. (1986). The role of catecholamines in the production of ischaemic-induced ventricular arrhythmias in the rat *in vivo* and *in vitro*. *British Journal of Pharmacology*. **87**: 265-277. (PMID 2869812)
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)
10. Tilton, R. G., P.A. Cole, J.D. Zions, A. Daugherty, K.B. Larson, S.P. Sutera, C. Kilo and J. R. Williamson. (1987). Increased ischemia-reperfusion injury to the heart associated with short term, diet-induced hypercholesterolemia in rabbits. *Circulation Research*. **60**: 551-559. (PMID 3594739)
11. Daugherty A., K., Oida, B.E. Sobel and G. Schonfeld. (1988). The dependence of metabolic and structural heterogeneity of cholesteryl ester-rich very low density lipoproteins on the duration of cholesterol feeding in rabbits. *Journal of Clinical Investigation*. **82**: 562-570. (PMID 3403717)

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)
15. Daugherty, A., B. Zweifel, and G. Schonfeld. (1989). Probucol attenuates the development of atherosclerosis in cholesterol-fed rabbits. *British Journal of Pharmacology*. **98**: 612-618. (PMID 2819336)
16. Daugherty, A., N.N. Becker, L.A. Scherrer, B.E. Sobel, J.J.H. Ackerman, J.W. Baynes and S.R. Thorpe. (1990) Non-invasive detection of protein metabolism *in vivo* by n.m.r. spectroscopy. Application of a novel <sup>19</sup>F-residualizing label. *Biochemical Journal*. **264**: 829-835.
17. Parhoffer, K.G., A. Daugherty, M. Kinoshita, and G. Schonfeld. (1990). Enhanced clearance from plasma of low density lipoproteins containing a truncated apolipoprotein, apoB-90. *Journal of Lipid Research*. **31**: 2001-2007. (PMID 2086699)
18. Moerlein, S.M., A. Daugherty, B.E. Sobel, and M.J. Welch. (1991) Imaging with gallium-68 and indium-111 labeled low-density lipoprotein. *Journal of Nuclear Medicine*. **32**: 300-307. (PMID 1992034)
19. Daugherty, A., B.S. Zweifel, and G. Schonfeld. (1991) The effects of probucol on the progression of atherosclerosis in mature Watanabe heritable hyperlipidaemic rabbits. *British Journal of Pharmacology*. **103**: 1013-1018. (PMID 1878742)
20. Daugherty, A., and D.L. Rateri. (1991) Failure of the intracellular itinerary of beta-very low density lipoproteins to augment cholesterol esterification in macrophages from Watanabe heritable hyperlipidemic rabbits. *Journal of Biological Chemistry*. **266**: 17269-17275. (PMID 1894618)
21. Daugherty, A., and D.L. Rateri. (1991) Heterogeneity of very low density lipoproteins: Factors influencing the ability of specific subfractions to modulate cholesterol metabolism in macrophages *in vitro*. *Coronary Artery Disease*. **2**: 775-789.
22. Daugherty, A., M.R. Kilbourn, C.S. Dence, B.E. Sobel, and S.R. Thorpe. (1992) Quantitative assessment of lipoprotein metabolism by positron emission tomography with an <sup>18</sup>F-containing residualizing label. *Nuclear Medicine and Biology*. **19**: 411-416 (PMID 1629030)
23. Ord, J.M., J.P. Hasapes, A. Daugherty, S.R. Bergmann, S.R. Thorpe, and B.E. Sobel. (1992) Imaging of thrombi with tissue-type plasminogen activator rendered enzymatically inactive and conjugated to a residualizing label. *Circulation*. **85**: 288-297. (PMID 1728459)
24. Daugherty, A. and D.L. Rateri. (1992) Kinetics of tissue metabolism of beta-very low density lipoproteins disparate rates of tissue accumulation during both normal and hypercholesterolemic states. *Life Science Advances - Biochemistry*. **10**: 167-171.
25. Hasapes, J.P., A. Daugherty, J.E. Saffitz, and B.E. Sobel. (1992) Determinants of the distribution of radiolabeled congeners of tissue-type plasminogen activator and its modification for improved clot imaging. *Coronary Artery Disease*. **3**: 641-649.

26. Mankowitz, K., R. Seip, A. Daugherty, C.F. Semenkovich, A. Daugherty, and G. Schonfeld. (1992) Short term interruption training affects both fasting and post-prandial lipoproteins. *Atherosclerosis*. **95**: 181-189. (PMID 1418092)
27. Meeh, L.A., J.J.H. Ackerman, S.R. Thorpe, and A. Daugherty. (1992) Quantification of the accumulation and degradation of beta-very low density lipoproteins *in vivo* using a <sup>19</sup>F-containing residualizing label and N.M.R. spectroscopy. *Biochemical Journal*. **286**: 785-792. (PMID 1417737)
28. Wickline, S.A., R.A. Shapard, and A. Daugherty. (1993) Quantitative ultrasonic characterization of lesion composition and remodeling in atherosclerotic rabbit aorta. *Arteriosclerosis and Thrombosis*. **13**: 1543-1550. (PMID 7691167)
29. Baumann, D.S., M. Doblaz, G. Schonfeld, G.A. Sicard and A. Daugherty. (1994) Probucol reduces the cellularity of aortic intimal thickening at anastomotic regions adjacent to prosthetic grafts in cholesterol-fed rabbits. *Arteriosclerosis and Thrombosis*. **14**: 162-167. (PMID 8274472)
30. Baumann, D.S., M. Doblaz, A. Daugherty, G. A. Sicard, and G. Schonfeld. (1994). The role of cholesterol accumulation in prosthetic vascular graft anastomotic intimal hyperplasia. *Journal of Vascular Surgery*. **19**: 435-445. (PMID 8126856)
31. 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. (PMID 8040285)
32. Daugherty, A., and D.L. Rateri. (1994). Presence of LDL receptor-related protein/alpha<sub>2</sub>-macroglobulin receptors in macrophages of atherosclerotic lesions from cholesterol-fed New Zealand and heterozygous Watanabe heritable hyperlipidemic rabbits. *Arteriosclerosis and Thrombosis*. **14**:2107-2024. (PMID 7526898)
33. Noda-Heiny, H., A. Daugherty, and B.E. Sobel. (1995). Augmented urokinase receptor expression in atheroma. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **15**:37-43. (PMID 7749814)
34. Roselaar, S.E., G. Schonfeld, and A. Daugherty. (1995)Enhanced development of atherosclerosis in cholesterol-fed rabbits by suppression of cell-mediated immunity. *Journal of Clinical Investigation*. **96**:1389-1394. (PMID 7657813)
35. Shaish, A., A. Daugherty, F. O'Sullivan, G. Schonfeld, and J.W. Heinecke. (1995) Beta-carotene inhibits atherosclerosis in hypercholesterolemic rabbits. *Journal of Clinical Investigation*. **96**:2075-2082. (PMID 7560102)
36. Roselaar, S.E., P. Kakkanathu, and A. Daugherty. (1996) Lymphocyte populations in atherosclerotic lesions of apoE <sup>-/-</sup> and LDL receptor <sup>-/-</sup> mice. Decreasing density with disease progression. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **16**:1013-1018. (PMID 8696940)
37. Fagan, A.M., G. Bu., Y. Sun, A. Daugherty, and D.M. Holtzman. (1996) Apolipoprotein E -containing high-density lipoprotein promotes neurite outgrowth and is a ligand for the low-density lipoprotein receptor-related protein. *Journal of Biological Chemistry*. **271**: 30121-30125. (PMID 8939961)
38. Cornicelli, J.A., K. Welch, B.J. Auerbach, S.J. Feinmark, and A. Daugherty. (1996) Mouse peritoneal macrophages contain abundant w-6 lipoxygenase activity that is independent of interleukin-4. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **16**:1488-1494. (PMID 8977453)
39. Sendobry, S.M., J.A. Cornicelli, K. Welch, T. Bocan, B. Tait, B.K. Trivedi, N. Colbry, R.D. Dyer, S.J. Feinmark, and A. Daugherty. (1997) Attenuation of diet-induced atherosclerosis in rabbits with a highly selective 15-lipoxygenase inhibitor lacking significant antioxidant properties. *British Journal of Pharmacology*. **120**:1199-1206. (PMID 9105693)

40. 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<sup>-/-</sup> mice. *Journal of Clinical Investigation*. **100**: 1575-1580. (PMID 9294126)
41. Daugherty, A., J.A. Cornicelli, K. Welch, S.M. Sendobry, and D.L. Rateri. (1997) Scavenger receptors are present on aortic endothelial cells *in vivo*. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **17**: 2369-2375 (PMID 9409203)
42. Roselaar, S.E., and A. Daugherty. (1997) Lipopolysaccharide decreases scavenger receptor mRNA abundance *in vivo*. *Journal of Interferon and Cytokine Research*. **17**: 573-579. (PMID 9335436)
43. Bocan, M.A., W.S. Rosebury, S.B. Mueller, S. Kuchera, K. Welch, A. Daugherty, and J.A. Cornicelli. (1998) A specific 15-lipoxygenase inhibitor limits the progression and monocyte-macrophage enrichment of hypercholesterolemia-induced atherosclerosis in the rabbit. *Atherosclerosis*. **136**: 203-216. (PMID 9543090)
44. Semenkovich, C.F., L. Coleman, and A. Daugherty. (1998) Effect of heterozygous lipoprotein lipase deficiency on diet-induced atherosclerosis in mice. *Journal of Lipid Research*. **39**: 1141-1151. (PMID 9643345)
45. Sendobry, S.M., J.A. Cornicelli, K. Welch, M.J. Grusby, and A. Daugherty. (1998) Absence of T lymphocyte-derived cytokines fails to diminish macrophage 12/15 lipoxygenase expression *in vivo*. *Journal of Immunology*. **161**:1477-1482. (PMID 9686614)
46. Roselaar, S.E. and A. Daugherty. (1998) Apolipoprotein E-deficient mice have impaired innate immune responses to *Listeria monocytogenes in vivo*. *Journal of Lipid Research*. **39**:1740-1743. (PMID 9741685)
47. Cassis L., and A. Daugherty. (1999) Chronic angiotensin II infusion promotes atherogenesis in LDL receptor <sup>-/-</sup> mice. *Annals of New York Academy of Sciences*. **892**:108-118. (PMID 10842656)
48. Cornicelli, J.A., D. Butteiger, D.L. Rateri, K. Welch, and A. Daugherty. (2000) Interleukin-4 augments acetylated LDL-induced cholesterol esterification in macrophages. *Journal of Lipid Research*. **41**:376-383 (PMID 10706585)
49. Whitman, S.C., A. Daugherty, and S.R. Post. (2000) Regulation of acetylated low density lipoprotein uptake in microphages by pertussis toxin-sensitive G-proteins. *Journal of Lipid Research*. **41**: 807-813. (PMID 10787441)
50. 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. (PMID 10841519)
51. Daugherty, A., S.C. Whitman, A.E. Block, and D.L. Rateri. (2000) Polymorphism of class A scavenger receptors in C57BL/6 mice. *Journal of Lipid Research*. **41**: 1568-1577. (PMID 11013298)
52. Whitman, S.C., P. Ravisankar, Elam, H., and A. Daugherty. (2000) Exogenous interferon- $\gamma$  enhances atherosclerosis in apolipoprotein E<sup>-/-</sup> mice. *American Journal of Pathology*. **157**: 1819 - 1824 (PMID 11106554)
53. Whitman, S.C., A. Daugherty, and S.R. Post. (2000) Macrophage colony-stimulating factor rapidly enhances b-migrating very low density lipoprotein metabolism in macrophages through activation of a G<sub>i/o</sub> protein signaling pathway. *Journal of Biological Chemistry*. **275**: 35807-35813. (PMID 10964909)

54. Gairola, C.G., M.L. Drawdy, A. Block, and A. Daugherty. (2001) Sidestream cigarette smoke accelerates atherosclerosis in apolipoprotein E<sup>-/-</sup> mice. *Atherosclerosis*. **156**: 49-56. (PMID 11368996)
55. Lee Y.W., H. Kuhn, B. Hennig, A. Daugherty, and M. Toborek. (2001) Interleukin 4 induces transcription of the 15-lipoxygenase 1 gene in human endothelial cells. *Journal of Lipid Research*. **42**: 783-791. (PMID 11352986)
56. Daugherty, A., N. Kosswig, J.A. Cornicelli, S.C. Whitman, S. Wolle, D.L. Rateri. (2001) Macrophage specific expression of class A scavenger receptors enhances granuloma formation in the absence of increased lipid deposition. *Journal of Lipid Research*. **42**: 1049-1055. (PMID 11441131)
57. Hansen, P.R., M. Chew, J. Zhou, A. Daugherty, N.H.H. Heegaard, P. Jensen, S. Mouritsen, and E. Falk. (2001) Freund's adjuvant alone is antiatherogenic in apoE-deficient mice and specific immunization against TNF- $\alpha$  confers no additional benefit. *Atherosclerosis*. **158**: 87-94. (PMID 11500178)
58. 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 (PMID 11606327)
59. Whitman, S.C., P. Ravisankar, P., and A. Daugherty. (2002) Interleukin-18 enhances atherosclerosis in apolipoprotein E<sup>-/-</sup> mice through release of interferon- $\gamma$  *Circulation Research*. 10.1161/hh0202.105292. (PMID 11834721)
60. 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<sup>-/-</sup> mice. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **22**: 456-461. (PMID 11884290)
61. King, V.L., S.J. Szilvassy, and A. Daugherty. (2002) Interleukin- 4 deficiency promotes gall stone formation. *Journal of Lipid Reseach*. **43**: 768-771. (PMID 11971948)
62. Whitman, S.C., P. Ravisankar, H. Elam, A. Daugherty. (2002) Interferon- $\gamma$  deficiency exerts gender specific effects on atherogenesis in apolipoprotein E<sup>-/-</sup> mice. *Journal of Interferon and Cytokine Research*. **22**: 661-670. (PMID 12162876)
63. Hennig B., P. Meerarani, R. Slim, M. Toborek, A. Daugherty, A. Silverstone, and L.W. Robertson. (2002) Proinflammatory properties of coplanar PCBs: *in vitro* and *in vivo* evidence. *Toxicol. Sci*. **181**: 174-183. (PMID 12079426)
64. Whitman, S.C, D.L. Rateri, S.J. Szilvassy, J.A. Cornicelli, and A. Daugherty. (2002) Macrophage specific expression of class A scavenger receptors decreases atherosclerosis in LDL receptor<sup>-/-</sup> mice. *Journal of Lipid Research*. **43**: 1201-1208 (PMID 12177164)
65. Webb, N.R., A. Daugherty, M.C. de Beer, M.S. Kindy, D. van der Westhuyzen, and F.C. de Beer. (2002) The scavenger receptor BI (SR-BI) mediates clearance of apoB-containing lipoproteins in apoE-deficient mice. *Journal of Lipid Research*. **43**: 1421-1428 (PMID 12235137)
66. Webb, N.R., M.A. Bostrom, S.J. Szilvassy, D.R. van der Westhuyzen, A. Daugherty, and F.C. de Beer. (2003) Macrophage-expressing Group IIA sPLA2 increases atherosclerotic lesion formation in LDL receptor-deficient mice. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **23**: 263-268 (PMID 12588769)
67. 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. (PMID 12615694)



68. Sundell, C.L, P.K. Somers, C.Q. Meng., L. K. Hoong, K-L. Suen, R.R. Hill, L.K. Landers, A. Chapman, L.K. Ollif, C. Phanhthourath, C. Kunsch, A. Daugherty, U. Saxena, M.A. Wasserman, and R. M. Medford. (2003) AGI-1067: a multifunctional phenolic antioxidant, lipid modulator, anti-inflammatory and anti-atherosclerotic agent. *Journal of Pharmacology and Experimental Therapeutics*. **305**: 1116-1123. (PMID 12626663)
69. Chew, M., J. Zhou, A. Daugherty, T. Eriksson, S. Ellerman-Eriksen, P.R. Hansen, and E. Falk. (2003) Thalidomide inhibits early atherogenesis in apoE deficient mice. *APMIS: acta pathologica, microbiologica et immunologica Scandinavica* 2003; **111 (Suppl 109)**: 113-116. (PMID 12874961)
70. Urbas, A, M. W. Manning, A. Daugherty, L.A. Cassis, and R.A Lodder. (2003) Near-infrared spectrometry of abdominal aortic aneurysm in the apoE *-/-* mouse. *Analytical Chemistry*. **75**: 3318-3323 (PMID 14570222)
71. 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)
72. Kosswig, N., A. Daugherty, and S.R. Post. (2003) Class A scavenger receptor mediated adhesion and internalization require distinct cytoplasmic domains. *Journal of Biological Chemistry*. **278**: 34219-34225 (PMID 12819208)
73. Lyngdorf, L.G., S. Gregersen, A. Daugherty, and E. Falk. (2003) Paradoxical reduction of atherosclerosis in apoE-deficient mice with obesity-related type 2 diabetes. *Cardiovascular Research*. **59**: 854-862 (PMID 14553825)
74. Cassis, L.A., J. Huang, M.C. Gong, and A. Daugherty. (2004) Role of metabolism and receptor responsiveness in the attenuated responses to angiotensin II in mice compared to rats. *Regulatory Peptides*. **117**: 107-116. (PMID 14700746)
75. Whitman, S.C., D.L. Rateri, S.J. Szilvassy, W. Yokoyama, and A. Daugherty (2004) Depletion of natural killer cell function decreases atherosclerosis in LDL receptor *-/-* mice. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **24**: 1049-1054. (PMID 14988092)
76. Henriques, T.A., S.S. D'souza, P.P. DeLuca, A. Daugherty, and L. A. Cassis. (2004) Orchiectomy, but not ovariectomy, regulates angiotensin II-induced vascular diseases in apolipoprotein E deficient mice. *Endocrinology*. **145**: 3866-3672. (PMID 15105380)
77. Boustany, C., K. Bharadwaj . A. Daugherty, D. Brown, D. Randall, and L.A. Cassis. (2004) Activation of the systemic and adipose renin angiotensin system in rats with diet-induced obesity and hypertension. *American Journal of Physiology*. **287**: R943-949. (PMID 15191907)
78. Homeister, J.W., A. Daugherty, and J.B. Lowe. (2004) Deficiency of  $\alpha(1,3)$ -fucosyltransferase VII limits atherosclerosis in apoE $-/-$  mice. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **24**: 1897-1903. (PMID 15308551)
79. Whitman, S.C., P. Veeraraghavan, E. M. Kurowska, J. A. Manthey, A. Daugherty. (2004) Nobiletin, a citrus flavonoid isolated from tangerines, selectively inhibits class A scavenger receptor-mediated metabolism of acetylated LDL by mouse macrophages. *Atherosclerosis*. **178**: 25-32. (PMID 15585197)
80. 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 (PMID 15596561)

81. Cassis L.A., M.J. Helton, D. Howatt, V.L. King, and A. Daugherty. (2005) Aldosterone does not mediate angiotensin II-induced atherosclerosis and abdominal aortic aneurysms. *British Journal of Pharmacology*. **144**: 443-448. (PMID 15655500)
82. Hennig, B., G. Reiterer, M. Toborek, S.V., Matveev, A. Daugherty, E. Smart, and L.W. Robertson. (2005) Dietary fat interacts with PCBs to induce changes in lipid metabolism in LDL receptor deficient mice. *Environmental Health Perspectives*. **113**: 83-87. (PMID 15626652)
83. Gavrilu, D, W.G, Li, M.L. McCormick, M. Thomas, A. Daugherty, L. A. Cassis, F.J. Miller, Jr, L.W. Oberley, K.C. Dellsperger, and N.L. Weintraub. Vitamin E inhibits abdominal aortic aneurysms formation in angiotensin II-infused, apolipoproteinE-deficient mice. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **46**: 1812-1822. (PMID 15933246)
84. Guo, Z., W. Su, S. Allen, H. Pang, A. Daugherty, E.J. Smart, and M.C. Gong. (2005) Cox-2 upregulation and vascular smooth muscle contractile hyperreactivity in spontaneous diabetic db/db mice. *Cardiovascular Research*. **67**: 723-735. (PMID 15885672)
85. Reiterer, G., R. McDonald, E.J. Smart, A. Daugherty, M. Toborek, and B. Henning. (2005) Zinc deficiency increases plasma lipids and atherosclerosis markers in LDL-R deficient mice. *Journal of Nutrition*. **135**: 2114-2118. (PMID 16140885)
86. Lutgens, E., S.P.M. Lutgens, B.C.G. Faber, S. Heeneman, M.M.J. Gijbels, M.P.J. de Winther, P. Frederiks, I. Van der Made, A. Daugherty, A.M., Sijbers, A. Fisher, C.J. Long, P. Saftig, D. Black, M.J. A.P. Daemen, and K.B.J.M. Cleutjens. (2005) Disruption of the cathespin K gene reduces atherosclerosis progression, induced plaque fibrosis, but accelerates macrophage foam cell formation. *Circulation*, **113**: 98-107. (PMID 16365196)
87. Babamusta, F., D. L. Rateri, J.J. Moorleghe, D. A. Howatt, X.A. Li., and A. Daugherty (2006) Angiotensin II induced site specific intra-laminar hemorrhage in macrophage colony stimulating factor deficient mice. *Atherosclerosis*. **186**: 282-290. (PMID 16153649)
88. Barisione, C, D.A. Howatt, J.J. Moorleghe, D.L. Rateri, and A. Daugherty. (2006) Rapid dilation of the abdominal aorta during infusion of angiotensin II detected noninvasively by high frequency ultrasound. *Journal of Vascular Surgery*. **44**: 372-376. (PMID 16890871)
89. Mauldin, J.P., A. Mulya, A. Gebre, J.S. Parks, A. Daugherty, and C.C. Hedrick. (2006) Reduction in ABCG1 in type 2 diabetic mice increases macrophage foam cell formation. *Journal of Biological Chemistry*. **281**: 21216-21224. (PMID 16723355)
90. Thomas, T., M.L. McCormick, D. Gavrilu, F.J. Miller, A. Daugherty, L.A. Cassis, K.C., Dellsperger, and N.L. Weintraub. (2006) Deletion of p47phox attenuates angiotensin II-induced aortic aneurysm formation in apolipoprotein E-deficient mice. *Circulation*. **114**: 404-413. (PMID 16864727)
91. Cassis, L.A., D.L. Rateri, H. Lu, and A. Daugherty. (2007). Angiotensin II induction of atherosclerosis and abdominal aortic aneurysms requires expression of AT1a receptors on non-bone marrow derived cells. *Arteriosclerosis Thrombosis and Vascular Biology*. **27**: 380-386. (PMID 17158350)
92. Lu, H., C. Boustany Kari, A. Daugherty, and L.A. Cassis. (2007). Angiotensin II increases adipose angiotensinogen expression. *American Journal of Physiology - Endocrinology and Metabolism*. **115**: E1280-1287 (PMID 17213477)
93. King, V.L., L.A. Cassis and A. Daugherty. (2007) Interleukin-4 does not influence development of hypercholesterolemia or angiotensin II-induced atherosclerotic lesions in apoE-/- mice. *American Journal of Pathology*. **171**: 2040-2047. (PMID 18055554)

94. Shen, H., R. MacDonald, D. Bruemmer, A. Stromberg, A. Daugherty, X. Li, M. Toborek, and B. Hennig (2007) Zinc deficiency is detrimental to lipid metabolism in LDL-receptor-deficient mice treated with rosiglitazone. *Journal of Nutrition*. **137**: 2339-2345. (PMID 17951467)
95. Lu, H., D.L. Rateri, D.L. Feldman, E. R.J. Charnigo Jr, A. Fukamizu, J. Ishida, E.G. Oesterling, L. A. Cassis, and A. Daugherty. (2008) Renin Inhibition reduces hypercholesterolemia-induced atherosclerosis: the contribution of renin from bone marrow-derived cells. *Journal of Clinical Investigation*. **118**: 984-993. (PMID 18274671)
96. Henriques T, X. Zhang, F.B. Yiannikouris, A. Daugherty, and L.A. Cassis (2008) Androgen increases AT1a receptor expression in abdominal aortas to promote angiotensin II-induced abdominal aortic aneurysms in apolipoprotein E deficient mice. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **28**: 1251-1256. (PMID 18451329)
97. Deevska, G., K. Rozenova, N., Giltiy, M. Chambers, J., White, B.B. Boyanovsky, J., Wei, A., Daugherty, E.J., Smart, M.B. Reid, A.H. Merrill Jr., and M. Nikolova-Karakashian (2008) Acid sphingomyelinase deficiency prevents diet-induced hepatic triacylglycerol accumulation and hyperglycemia in mice. *Journal of Biological Chemistry*. **284**: 8359 - 8368. (PMID 19074137)
98. Bolick, D.T., M.D. Skafien, S-C. Kwon, D.A. Howatt, A. Daugherty, Ravichandran, K.S. and C.C. Hedrick. (2008) G2A deficiency in mice promotes macrophage activation and atherosclerosis. *Circulation Research*. **104**: 318-327. (PMID 19106413).
99. King, V.L., A.Y. Lin, N. Ahluwalia, F. Kristo, D.A. Howatt, A.P. Owens, D. Shen, T.J.L. Anderson, A.M. Tagert, A.D. Luster, A. Daugherty, and R.E. Gerszten. (2009). Interferon- $\gamma$  and the interferon-inducible chemokine, CXCL10, protect against aneurysm formation and rupture. *Circulation*. **119**: 426 - 435. (PMID 19139386)
100. Cassis, L.A., M. Gupte, S. Thayer, X. Zhang, R. Charnigo, D. A. Howatt, D. L. Rateri, and A. Daugherty. (2009). Angiotensin II infusion promotes abdominal aortic aneurysms independent of blood pressure in hypercholesterolemic mice. *American Journal of Physiology*. **96**: H1660-1665. (PMID 19252100)
101. Guo, L., Z. Song, M. Li, Q. Wu, D. Wang, H. Feng, P. Bernard, A. Daugherty, B. Huang, and X-A Li (2009). Scavenger receptor BI protects against septic death through its role in modulating inflammatory response. *Journal of Biological Chemistry*. **284**: 19826-19834. (PMID 19491399)
102. Daugherty, A., D.L. Rateri, H. Lu, and A. Balakrishnan. (2009). Measuring blood pressure in mice and rats using volume pressure recordings, a tail cuff method. *Journal of Visualized Experiments*. DOI 10.3791/1291 (PMID 19488026)
103. Police, S.B., S. Thatcher, R. Charnigo, A. Daugherty, and L.A. Cassis. (2009). Obesity promotes inflammation in periaortic adipose tissue and angiotensin II-induced abdominal aortic aneurysm formation. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **29**: 1458-1464 (PMID 19608970)
104. Golledge, J., B. Cullen, C. Rush., C.S. Moran., E. Secomb., F. Wood, A. Daugherty, J.H. Campbell, and P.E. Norman. (2009). Peroxisome proliferator-activated receptor ligands reduce aortic dilatation in a mouse model of aortic aneurysm. *Atherosclerosis*. **201**: 51-56. (PMID 19926086).
105. Owens, A.P III, V. Subramanian J.J. Moorleghe, C.A. McNamara, L.A. Cassis, and A. Daugherty. (2010) Angiotensin II induces ascending aortic hyperplasia through inhibitor of differentiation 3. *Circulation Research*. **106**: 611-619 (PMID: 20019328)
106. Police, S.B., K. Putnam, S. Thatcher, F. Batifoulier-Yiannikouris, A. Daugherty, and Cassis LA. (2010). Weight loss in obese C57BL/6 mice limits adventitial expansion of established angiotensin II-induced abdominal aortic aneurysms. *Am J Physiol Heart Circ Physiol*. **298**: H1932-8. (PMID 2034811).

107. Daugherty, A., D. A. Howatt, A.P. Owens, I.F. Charo, D.L. Rateri, and L.A. Cassis. (2010). Deficiency of CCR2 reduces angiotensin II -induced atherosclerosis and aneurysm formation in apolipoprotein E  $-/-$  mice. *Clinical Science*. **106**: 681-689. (PMID 20088827)
108. Uchida, H.A., F. Kristo, D.L. Rateri, H. Lu, R. Charnigo, L.A. Cassis, and A. Daugherty. (2010). Total lymphocyte deficiency attenuates angII-induced atherosclerosis but not abdominal aortic aneurysms in apoE deficient mice. *Atherosclerosis*. **211**: 399-403. (PMID 20362292)
109. Gairola, C.G., D.A. Howatt, and A. Daugherty. (2010). Dietary coenzyme Q10 does not protect against cigarette smoke-augmented atherosclerosis in apoE-deficient mice. *Free Radical Biology and Medicine*. **48**: 1535-1539. (PMID 20227489)
110. Zhao, Y., D.A. Howatt, F. Gizard, T. Nomiya, H.M. Findeisen, E.B. Heywood, K.L. Jones, O.M. Conneely, A. Daugherty, and D. Bruemmer. (2010). Deficiency of the NR4A orphan nuclear receptor NOR1 decreases monocyte adhesion and reduces atherosclerosis. *Circulation Research*. **107**: 501-511. (PMID 20558821)
111. Subramanian, V., J. Golledge, T. Ijaz, D. Bruemmer, and A. Daugherty. (2010). Pioglitazone-induced reductions in atherosclerosis occur via smooth muscle cell-specific interaction with PPAR $\gamma$ . *Circulation Research*. **107**: 953-958. (PMID 20798360)
112. Zack, M., P. Shridas, B.B. Boyanovsky, W. Bailey, K. Forrest, D. A. Howatt, M.H. Gelb, F.C. de Beer, A. Daugherty, and N.R. Webb. (2010). Group X secretory phospholipase A2 augments angiotensin II-induced inflammatory responses and abdominal aortic aneurysm formation in apoE-deficient mice. *Atherosclerosis*. *In press*. (PMID 20833395)
113. Findeisen, H. M., F. Gizard, Y. Zhao, D. Cohn, E.B. Heywood, K.L. Jones, D.A. Howatt, A. Daugherty, and D. Bruemmer. (2010). Telomerase-deficiency in bone marrow-derived cells attenuates angiotensinII-induced abdominal aortic aneurysm formation. *Arteriosclerosis, Thrombosis, and Vascular Biology*. *Epub*. (PMID 21088250)
114. Rateri, D.L., J.J. Moorleggen, A. Balakrishnan, A.P. Owens III, D.A. Howatt, V. Subramanian, A. Poduri, R. Charnigo, L.A. Cassis, and A. Daugherty. (2011). Endothelial cell-specific deficiency of AngII type 1a receptors attenuates angII-induced thoracic aortic aneurysms in LDL receptor  $-/-$  mice. *Circulation Research*. *Epub* (PMID 21252156).
115. Thatcher, S.E., X. Zhang, D.A. Howatt, H. Lu, S. Gurley, A. Daugherty and L.A. Cassis. (2011). ACE2 deficiency in bone marrow-derived stem cells increases atherosclerosis in LDL receptor  $-/-$  mice. *Arteriosclerosis, Thrombosis, and Vascular Biology*. *Epub*. (PMID 21252069)
116. Wang, J.A., W.A. Chen. Y. Wang, S. Zhang, H. Bi, B. Hong, Y. Luo, A. Daugherty, and Xie X. (2011). Statins exert differential effects on angiotensin II-induced atherosclerosis, but no benefit for abdominal aortic aneurysms. *Atherosclerosis*. *Epub* (PMID 21481872)
117. Xie, X., Y. Wang, S. Zhang, G. Zhang, Y. Xu, H. Bi, A. Daugherty, and J-A. Wang. (2011). Chinese red yeast rice attenuates the development of angiotensin II-induced abdominal aortic aneurysm and atherosclerosis. *Journal of Nutritional Biochemistry*. *Epub* (PMID 21764282)
118. Zhang, X., J. Hurng, D.L. Rateri, A. Daugherty, G. W. Schmid-Schönbein, and H.Y. Shin. (2011). Membrane cholesterol modulates the mechanosensitivity of polymorphonuclear leukocytes to fluid shear stress through its influence on membrane fluidity. *American Journal Physiology - Cell Physiology*. *In press* (PMID 21525434)
119. Rateri, D.L., D.A. Howatt, J.J. Moorleggen, R. Charnigo, L.A. Cassis, and A. Daugherty. (2011). Prolonged infusion of angiotensin II in apoE( $-/-$ ) mice promotes macrophage recruitment with continued expansion of abdominal aortic aneurysm. *American Journal of Pathology*. *Epub* (PMID 21763672).

120. Li, H., E.T. Weatherford, D.R. Davis, H.L. Keen, J.L. Grobe, A. Daugherty, L.A. Cassis, A.M. Allen, and C.D. Sigmund. (2011). Angiotensin II AT1a receptors in the renal proximal tubule regulate blood pressure. *American Journal of Physiology: Regulatory, Integrative, and Comparative Physiology*. Epub (PMID 21753145).
121. Zhang, G., B. Xiang, R.C. Skoda, A. Daugherty, S.S. Smyth, X. Du, and Z. Li. (2011). Biphasic roles for soluble guanylyl cyclase (sGC) in platelet activation. *Blood*. Epub (PMID 21803853).
122. Feng, H., L. Guo, D. Wang, H. Gao, G. Hou, Z. Zheng, J. Ai, O. Foreman, A. Daugherty, and X-A Li, (2011). Deficiency of scavenger receptor BI leads to impaired lymphocyte homeostasis and autoimmune disorders in mice. *Arterioscler Thromb Vasc Biol*. Epub. (PMID 21836069)
123. Uchida, H.A., A. Poduri, V. Subramanian, L.A. Cassis, and A. Daugherty. (2011). uPA deficiency in bone marrow-derived cells augments rupture of angiotensin II-induced abdominal aortic aneurysms. *Arteriosclerosis, Thrombosis, and Vascular Biology*. Epub. (PMID 21868698)
124. Lu, H., A. Balakrishnan, D.A. Howatt, C. Wu, R. Charnigo, G. Liau, L.A. Cassis, and A. Daugherty. (2011). Comparative effects of different modes of renin angiotensin system inhibition on hypercholesterolemia-induced atherosclerosis. *British Journal of Pharmacology*. Epub. (PMID 22014125)
125. Guo, L., M. Chen, Z. Song., A. Daugherty, and X-A. Li. (2011). C323 of SR-BI is required for SR-BI-mediated HDL binding and cholesteryl ester uptake. *J Lipid Res*. Epub. (PMID 21917726).
126. Owens III, A.P., D.L. Rateri, D.A. Howatt, K.J. Moore, P.S. Tobias, L.K. Curtiss, H. Lu., L. A. Cassis, and A. Daugherty. (2011). MyD88 deficiency attenuates angiotensin II-induced abdominal aortic aneurysm formation independent of signaling through toll-like receptors 2 and 4. *Arteriosclerosis, Thrombosis, and Vascular Biology*. Epub. (PMID 21960563).
127. Habegger, K.M., E. Grant, P.T. Pfluger, D.-P.-Tilve, A. Daugherty, D. Bruemmer, M. H. Tschöp, and S. Hofmann. (2011). Ghrelin receptor deficiency does not affect diet-induced atherosclerosis in low-density lipoprotein receptor-null mice. *Frontiers in Systems and Translational Endocrinology*. 2:67. doi: 10.3389/fendo.2011.00067.(PMID 22649381)
128. Batifoulier-Yiannikouris, F., M. Karounos, V. English, D.L. Rateri, A. Daugherty, and L. A. Cassis. (2011). Adipocyte-specific deficiency of angiotensinogen decreases plasma angiotensinogen concentration and systolic blood pressure in male mice. *American Journal of Physiology - Regulatory, Integrative and Comparative Physiology*. Epub (PMID 22071160)
129. Subramanian, V, J. Golledge, E.B. Heywood, D. Bruemmer, and A. Daugherty. (2011). Regulation of PPAR $\gamma$  by angiotensin II via TGF- $\beta$ 1 activated p38 MAP kinase in aortic smooth muscle cells. *Arteriosclerosis, Thrombosis, and Vascular Biology*. Epub (PMID 22095985).
130. Wang, S., V. Subramanian, H. Lu, D.A. Howatt, J.J. Moorleggen, R. Charnigo, L.A. Cassis, and A. Daugherty. (2011). Deficiency of receptor-associated protein attenuates angiotensin II-induced atherosclerosis in hypercholesterolemic mice without influencing abdominal aortic aneurysms. *Atherosclerosis*. Epub. (PMID 22153700)
131. Owens III, A.P., F.H. Passam, S. Antoniak, S.M. Marshall, A.L. McDaniel, L. Rudel, J.C. Williams, B.K. Hubbard, J.-A. Dutton, J. Wang, P.S. Tobias, L.K. Curtiss, A. Daugherty, D. Kirchhofer, J. Luyendyk, P.M. Moriarty, S. Nagarajan, B.C. Furie, B. Furie, D.G. Johns, R.E. Temel, and N. Mackman. (2012). Monocyte tissue factor-dependent activation of coagulation in hypercholesterolemic mice and monkeys is inhibited by simvastatin. *Journal of Clinical Investigation*. Epub. (PMID 22214850)

132. Si, Y., J. Ren, P. Wang, D.L. Rateri, A. Daugherty, X-D. Shi, K.C. Kent, and B. Liu. (2012). Protein kinase C-delta mediates adventitial cell migration through regulation of monocyte chemoattractant protein-1 expression in a rat angioplasty model. *Arteriosclerosis, Thrombosis, and Vascular Biology* **32**: 943-954. (PMID 22328773).
133. Lu, H, C. Wu, D. A. Howatt, A. Balakrishnan, T. Ijaz, R.J. Charnigo Jr, L.A. Cassis, and A. Daugherty. (2012). Dietary sodium concentrations have differential effects on blood pressure and atherosclerosis in hypercholesterolemic mice. *Journal Nutritional Biochemistry*. ePub . (PMID 22705323)
134. Zhang, X., S.E. Thatcher, D.L. Rateri, D. Bruemmer, R. Charnigo, A. Daugherty, and L.A. Cassis. (2012). Transient exposure of neonatal female mice to testosterone abrogates sexual dimorphism of angiotensin II-induced abdominal aortic aneurysms. *Circulation Research*. **110**: e73-85. (PMID 22539767)
135. Han, S.G., D.A. Howatt, A. Daugherty, and C.G. Gairola. (2012). Atherogenic and pulmonary responses of apoE and LDL receptor-deficient mice to sidestream cigarette smoke. *Toxicology*. **299**: 133-138. (PMID 22659316)
136. Poduri, A., D.L. Rateri, S. K. Saha, S. Saha, and A. Daugherty. (2012). Watermelon juice consumption reduces diet-induced atherosclerosis in male LDL receptor deficient mice. *Journal of Nutritional Biochemistry*. (PMID 22902326)
137. Putnam, K, K.G. Bharadwaj, F. Batifoulier-Yiannikouris, E. Lewis, M. Karounos<sup>1</sup>, A. Daugherty, and L.A. Cassis. (2012). Deficiency of angiotensin type 1a receptors in adipocytes reduces differentiation and promotes hypertrophy of adipocytes in lean mice. *Endocrinology*. **153**: 2339-2340. (PMID 22919058)
138. Xie, X., H. Lu, J.J. Moorlegghen, D.A. Howatt, D.L. Rateri, L.A. Cassis, and A. Daugherty. (2012). Doxycycline does not influence established abdominal aortic aneurysms in angiotensin II-infused mice. *PLoS ONE*. **7**: e46411. (PMID 23029514).
139. Batifoulier-Yiannikouris, F, M. Gupte, R. Charnigo, D.L. Rateri, A. Daugherty, and L.A. Cassis. (2012). Adipocyte deficiency of angiotensinogen prevents obesity-induced hypertension in male C57BL/6 mice. *Hypertension*. *Epub*. (PMID 23108647)
140. Poduri, A., A.P. Owens III, D.A. Howatt, J.J. Moorlegghen, A. Balakrishnan, L.A. Cassis, and A. Daugherty. (2012). Regional variation in aortic AT1b receptor mRNA abundance is associated with contractility but unrelated to atherosclerosis and aortic aneurysms. *PLoS ONE*.: e48462. doi: 10.1371/journal.pone.0048462. (PMID 23119030)
141. Rateri, D.L., J.J. Moorlegghen, V. Knight, A. Balakrishnan, D.A. Howatt, L.A. Cassis, and A. Daugherty. (2012). Depletion of endothelial or smooth muscle cell-specific angiotensin type 1a receptors does not influence atherosclerosis in LDL receptor deficient mice. *PLoS ONE*. **7**: e51483 (PMID 23236507)
142. Blomkalns, A.L., D. Gavrilu, M. Thomas, B.S. Neltner, V.M. Blanco, S.B. Benjamin, M.L. McCormick, L.L. Stoll, G.M. Denning, S.P. Collins, Z. Qin, A. Daugherty, L.A. Cassis, R.W. Thompson, R. M. Weiss, P.D. Lindower, S.M. Pinney, T. Chatterjee, and N.L. Weintraub, . (2013). CD14 directs adventitial macrophage precursor recruitment: Role in early abdominal aortic aneurysm formation. *Journal of the American Heart Association*. **2**: e000065. doi: 10.1161/JAHA.112.000065. (PMID 23537804).
143. Daugherty, A., D.L. Rateri, D.A. Howatt, R. Charnigo, and L.A. Cassis. (2013). PD123319 augments angiotensin II-induced abdominal aortic aneurysms through an AT2 receptor-independent mechanism *PLOS ONE*. **8**: e61849. (PMID 23593499).

144. Liu, S., Z. Xie, A. Daugherty, L.A. Cassis, K.J. Pearson, M.C. Gong, and Z. Guo. (2013). Mineralocorticoid receptor agonists induce mouse aortic aneurysm formation and rupture in the presence of high salt. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **33**: 1568-1579. (PMID 23661677).
145. Guo, L., J. Ai, Z. Zheng, D.A. Howatt, A. Daugherty, B. Huang, and X.-A. Li. (2013). HDL protects against polymicrobial-induced sepsis in mice. *Journal of Biological Chemistry*. 288: 17947-17953. doi: 10.1074/jbc.M112.442699 (PMC 23658016).
146. Chen, X., H. Lu, M. Zhao, K. Tashiro, L.A. Cassis, and A. Daugherty. (2013). Contributions of leukocytic angiotensin-converting enzyme to the development of atherosclerosis. *Arteriosclerosis, Thrombosis, and Vascular Biology*. 33: 2075-2080. (PMID 23846498)
147. Xiang B.G. Zhang, X-A. Li, A. Daugherty, S.W. Whiteheart, S.S. Smyth, and Z Li. (2012). Platelets protect from lipopolysaccharide-induced lethal endotoxemia by inhibiting macrophage-dependent inflammation via the cyclooxygenase 1 (COX1) signaling pathway. *Nature Communications*. 4: 2657. doi: 10.1038/ncomms3657. (PMC 24150174)
148. Cheng, R., X. Zhang, A. Daugherty, H. Shin, and G. Yu. (2013). Noninvasive quantification of post-occlusive reactive hyperemia in mouse thigh muscle by near-infrared diffuse correlation spectroscopy. *Applied Optics*. 52(30):7324-30. doi: 10.1364/AO.52.007324. (PMID: 24216586)
149. Chen, X., D.L. Rateri, D.A. Howatt, A. Balakrishnan, J.J. Moorleggen, A.J. Morris, R. Charnigo, L.A. Cassis, and A Daugherty. (2013). Amlodipine reduces AngII-induced aortic aneurysms and atherosclerosis in hypercholesterolemic mice. *PloS ONE*. 14; 8 :e81743. doi: 10.1371/journal.pone.0081743. (PMID 24244746)
150. Zhang, X., C.Wu, S. Thatcher, C. Wu, A. Daugherty, L.A. Cassis. (2014). Castration of male mice prevents the progression of established angiotensin II-induced abdominal aortic aneurysms. *Journal of Vascular Surgery*. pii: S0741-5214(13)02030-2. doi: 10.1016/j.jvs.2013.11.004. (PMID 24439319)
151. de Beer, M.C., J.M. Wroblewski, V.P. Noffsinger, D.L. Rateri, D.A. Howatt, A. Balakrishnan, A. Ji, P. Shridas, J. Thompson, D.R. van der Westhuyzen, L.R. Tannock, A. Daugherty, N.R. Webb, and F.C. De Beer. (2013). Deficiency of Endogenous acute phase serum amyloid a does not impact atherosclerotic lesions in apoE<sup>-/-</sup> mice. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **34**: 255-261. (PMID 24265416)
152. Zhang, X., R. Cheng, D. Rowe, P. Sethu, A. Daugherty, G. Yu, and H. Shin. (2014). The shear-sensitive regulation of neutrophil flow behavior and its putative role in microvascular blood flow dysregulation in hypercholesterolemia. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **34**: 587-593 (PMID 24458712).
153. Guo, L., Z. Zheng, J. Ai, D.A. Howatt, P.R. Mitrelstadt, S. Thacker, A Daugherty, J.D. Ashwell, A.T. Remaley, and X-A Li. (2014). Scavenger receptor BI regulates thymocyte apoptosis in sepsis *Arteriosclerosis, Thrombosis, and Vascular Biology*. **34**: 966-975 (PMID 24603680)
154. Qing, H., Y. Liu, Y. Zhao, J. Aono, K. L. Jones, E.B. Heywood, D.A. Howatt, C. M. Binkley, A. Daugherty, Y. Liang, and D Bruemmer. (2014). Deficiency of the NR4A orphan nuclear receptor NOR1 in hematopoietic stem cells accelerates atherosclerosis by increasing progenitor cell proliferation. *Stem Cells*. **32**: 2419-2429 (PMID 24806827)
155. Rateri, D.L., A. Balakrishnan, D.A. Howatt, J.J. Moorleggen, F. Davis, W. O'Connor, R. Charnigo, L.A. Cassis, and A. Daugherty. (2014). Angiotensin II induces region-specific medial disruption during evolution of ascending aortic aneurysms. *American Journal of Pathology*. **184**: 2586 - 2595 (PMID 25038458)

156. Thatcher, S.E., X. Zhang, D.A. Howatt, F. Yiannikouris, S.B. Gurley, T. Ennis, J.A. Curci, A. Daugherty, and L.A. Cassis. (2014). Angiotensin-converting enzyme-2 decreases formation and severity of angiotensin II-induced abdominal aortic aneurysms. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **34**: 2617-2623 (PMID 25301841)
157. Han, S.G., D.A. Howatt, A. Daugherty, and G.C. Gairola. (2015). Pulmonary and atherosclerotic effects of multi-walled carbon nanotubes in ApoE-deficient mice. *Journal of Toxicology and Environmental Health, Part A*. **78**: 244-253. (PMID 25674827).
158. Davis, F.M., D.L. Rateri, A. Balakrishnan, D.A. Howatt, D.K. Strickland, S.C. Muratoglu, C.M. Haggerty, B.K. Fornwalt, L.A. Cassis, and A. Daugherty. (2015). Smooth muscle cell deletion of LDL receptor related protein-1 augments AngII-induced superior mesenteric arterial and ascending aortic aneurysms. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **35**: 155-162 (PMID 25301841; PMCID 4332619).
159. Obama, T. T. Tsuji, T. Kobayashi, Y. Fukuda, T. Takayanagi, Y. Taro, T. Kawai, S.J. Forrester, K.J. Elliott, E. Choi, A. Daugherty, V. Rizzo, S. Eguchi. (2014). Epidermal growth factor receptor inhibitor protects abdominal aortic aneurysm in a mouse model. *Clinical Science*. **128**: 559-565 (PMID 25531554)
160. Wu, C., Y. Xu, H. Lu, D.A. Howatt, A. Balakrishnan, J.J. Moorleggen, C.W. Vander Kooi, L.A. Cassis, J-A Wang, and A. Daugherty. (2015). The Cys18-Cys137 disulfide bond in mouse angiotensinogen does not affect AngII-dependent functions in vivo. *Hypertension*. **65**: 800-8005. (PMID 25745063).
161. Webb, N.R., M.C. de Beer, J.M. Wroblewski, A. Ji, W. Bailey, P. Shridas, R.J. Charnigo, V.P. Noffsinger, J. Witta, D.A. Howatt, A. Balakrishnan, D.L. Rateri, A. Daugherty, and F.C. de Beer. (2015). Deficiency of endogenous acute phase serum amyloid A protects apoE<sup>-/-</sup> mice from angiotensin II-induced abdominal aortic aneurysm formation. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **35**: 1156-1165 (PMID 25745063).
162. Walton, R.C., B. Zhu, R. Unal, M. Spencer, M. Sunkara, A.J. Morris, R. Charnigo, A. Daugherty, D. A. Howatt, P. A. Kern, and B.S. Finlin. (2015). Increasing adipocyte lipoprotein lipase improves glucose metabolism in high fat diet induced obesity. *Journal of Biological Chemistry*. **290**: 11547-11556. *Epub*. (PMID 25784555).
163. Lu, H., D.A. Howatt, A. Balakrishnan, J.J. Moorleggen, J. Lui, D.L. Rateri, and A. Daugherty. (2015). Subcutaneous angiotensin II infusion using Alzet osmotic pumps induces aortic aneurysms in mice. *Journal of Visualized Experiments*. **28**;(103). doi: 10.3791/53191. (PMID 26436287).
164. Liu, J., H. Lu, D.A. Howatt, A. Balakrishnan, J.J. Moorleggen, M. Sorci-Thomas, L.A. Cassis and A. Daugherty. (2015). ApoB-containing lipoproteins augment angII-induced abdominal aortic aneurysms in male mice. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **35**: 1826-1834 (PMID 26044581)
165. Haggerty, C.M., A.C. Mattingly, M.C. Gong, W. Su, A. Daugherty, and B.K. Fornwalt. (2015). Telemetric blood pressure assessment in angiotensin II-infused apoE<sup>-/-</sup> mice: 28 day natural history and comparison to tail-cuff measurements. *PLoS ONE*. **10**(6):e0130723. doi: 10.1371/journal.pone.0130723. (PMID 26086817).
166. Cassis, L.A., S. E Thatcher, X. Zhang, S. Woody, W. Yu, Y. Al-Siraj, R. Charnigo, and A. Daugherty. (2015). Exogenous 17- $\beta$  estradiol administration blunts progression of established angiotensin II-induced abdominal aortic aneurysms in female ovariectomized mice. *Biology of Sex Differences*. **9**;6:12. doi: 10.1186/s13293-015-0030-1. (PMID: 26131353)



167. Owens III, A.P., T.L Edwards, S. Antoniak, J.E. Geddings, E. Jahangir, W.-Q. Wei, J.C. Denny, Y. Boulaftali, W. Bergmeier, A. Daugherty, U.K.A. Sampson, and N. Mackman. (2015). Platelet inhibitors reduce rupture in a mouse model of established abdominal aortic aneurysm. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **35**: 2032-2041 (PMID 26139462)
168. Poduri, A, D.L. Rateri, D.A. Howatt, A. Balakrishnan, J.J. Moorlegghen, L. A. Cassis, and A Daugherty. (2015). Fibroblast deficiency of angiotensin II type 1a receptors attenuates angiotensin II-induced medial hyperplasia in the ascending aorta. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **35**: 1995-2002 (PMID 26160957).
169. Liu, C.-L., Y. Wang, M. Liao, H. Wemmelund, C. Fernandes, Y. Zhou, G.K. Sukhova, J.S. Lindholt, S.P. Johnsen, J.-Y. Zhang, X. Cheng, X. Huang, A. Daugherty, B. D. Levy, P. Libby, and G.-P. Shi. (2016). Allergic lung inflammation aggravates angiotensin II-induced abdominal aortic aneurysms in mice. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **36**:69-77 (PMID: 26543094).
170. Antman, E., E.J. Benjamin, R.A. Harrington, S.R. Houser, E.D. Peterson, M.A. Bauman, N. Brown V. Bufalino, R.M. Califf, M.A. Creager, A. Daugherty, D.L. Demets, B.P. Dennis, S. Ebadollahi, M. Jessup, M.S. Lauer, B. Lo, C.A. MacRae, M.V. McConnell, A.T. McCray, M.M. Mello, E. Mueller, J.W. Newburger, S. Okun, M. Packer, A. Philippakis, P. Ping, V.L. Roger, S. Singer, R. Temple, M.B. Turner, K. Vigilante, J. Warner, P. Wayte, and B. Zuckerman, on behalf of the American Heart Association Data Sharing Summit Attendees. (2015). Acquisition, Analysis and Sharing of Data in 2015 and Beyond - A Survey of the Landscape. A Conference Report From the American Heart Association Data Summit 2015. *Journal of the American Heart Association*. 4(11). pii: e002810. doi: 10.1161/JAHA.115.002810. (PMID: 26541391).
171. Lu, H., C. Wu, D.A. Howatt, A. Balakrishnan, J.J. Moorlegghen, X. Chen, M. Zhao, M.J. Graham, A.E. Mullick, R. M. Crooke, D.L. Feldman, L.A. Cassis, C.W. Vander Kooi, and A. Daugherty. (2016). Angiotensinogen Exerts Effects Independent of Angiotensin II. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **36**: 265-266. (PMID 26681751).
172. Liu, C.-L., H. Wemmelund, Y. Wang, M. Liao, J.S. Lindholt, C. Fernandes, Y. Zhou, G.K. Sukhova, S.P. Johnsen, J.-Y. Zhang, X. Cheng, X. Huang, A. Daugherty, B. D. Levy, P. Libby, and G.-P. Shi. (2016). Asthma is a risk factor of human abdominal aortic aneurysm and rupture. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **36**: 570-578. (PMID 26868210)
173. Chen, X., D.A. Howatt, A. Balakrishnan, J.J. Moorlegghen, C. Wu, L.A. Cassis, A. Daugherty, and H. Lu. (2016). Smooth Muscle Cells Are the Source for Angiotensin-Converting Enzyme to Promote Atherosclerosis. *Arteriosclerosis, Thrombosis, and Vascular Biology*. pii: ATVBHA.115.307038 (PMID 27055902)
174. Chen, X., D.L. Rateri, D.A. Howatt, A. Balakrishnan, J.J. Moorlegghen, L.A. Cassis, and A. Daugherty. (2016) TGF- $\beta$  neutralization enhances angII-induced aortic rupture and aneurysm in both thoracic and abdominal regions. *PLoS ONE*. Apr 22;11(4):e0153811. doi: 10.1371/journal.pone.0153811. (PMID 27104863)
175. Lu, H., D.A. Howatt, A. Balakrishnan, M.J. Graham, A.E. Mullick, and A. Daugherty. (2016). Hypercholesterolemia induced by a PCSK9 Gain-of-Function Mutation Augments Angiotensin II-induced Abdominal Aortic Aneurysms in C57BL/6 Mice. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **36**: 2970-2980. (PMID: 27470509)
176. Alsiraj, Y., S.E. Thatcher, R. Charnigo, K. Chen, E. Blalock, A. Daugherty, and L.A. Cassis. (2016) XY female mice develop severe abdominal aortic aneurysms. *Circulation*. **135**: 379-391. pii: CIRCULATIONAHA.116.023789. (PMID: 27815372)

177. Howatt, D.A., M. Dajee, X. Xie, J. Moorlegghen, D.L. Rateri, A. Balakrishnan, V. Da Cunha, D.G. Johns, D.E. Gutstein, A. Daugherty, and H. Lu. (2017). Relaxin does not augment angiotensin II-induced abdominal aortic aneurysms in mice. *Circulation Journal*. **871**: 888-890. doi: 10.1253/circj.CJ-17-0229 (PMID 28420827)
178. Sawada, H., D.L. Rateri, J.J. Moorlegghen, M.W. Majesky, and A. Daugherty. (2017). Smooth muscle cells derived from second heart field and cardiac neural crest reside in spatially distinct domains in the media of the ascending aorta. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **37**: 1722-1725. doi: 10.1161/ATVBAHA.117.309599. (PMID 28663257).
179. Kim, H.W., A.L. Blomkalns, M. Ogbi, M. Thomas, D. Gavrilu, B.S. Neltner, L.A. Cassis, R.W. Thompson, R. M. Weiss, P.D. Lindower, V.M. Blanco, M.L. McCormick, A. Daugherty, X. Fu, S.L. Hazen, B.K. Stansfield, Y. Huo, D.J. Fulton, T. Chatterjee, and N. L. Weintraub. (2017). Role of myeloperoxidase in abdominal aortic aneurysm formation: mitigation by taurine. *American Journal of Physiology; Heart*. **313**: H1168-H1179. doi: 10.1152/ajpheart.00296.2017. (PMID 28971841)
180. Ghoshal, S. J.R. Stevens, C. Billon, C. Girdardet, S. Sitaula, A.S. Leon, D.C. Rao, J.S. Skinner, T. Rankinen, C. Bouchard, M.V. Nuñez, K.L. Stanhope, D.A. Howatt, A. Daugherty, J. Zhang, M. Shuelke, E.P. Weiss, T. Burns, P.J. Gavel, and A.A. Butler. (2018). Adropin: an endocrine link between the biological clock and cholesterol homeostasis. *Molecular Metabolism*. **8**: 51-64. doi: 10.1016/j.molmet.2017.12.002 (PMID 29331507).
181. Qing., H., K.L. Jones, E.B. Heywood, H. Lu, A. Daugherty, and D. Bruemmer. (2017). Deletion of the NR4A nuclear receptor NOR1 in hematopoietic stem cells reduces inflammation but not abdominal aortic aneurysm formation. *BMC Cardiovascular Disorders*. **17**: 271 doi: 10.1186/s12872-017-0701-4. (PMID 29047330)
182. Alsiraj, Y., S.E. Thatcher, E. Blalock, B. Fleenor, A. Daugherty, and L.A. Cassis. (2017). Sex chromosome complement defines diffuse versus focal angiotensin II-induced aortic pathology. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **38**: 143-153. doi: 10.1161/ATVBAHA.117.310035 (PMID 29097367)
183. Kim, H.W., A.L. Blomkalns, M. Ogbi, M. Thomas, D. Gavrilu, B.S. Neltner, L.A. Cassis, R.W. Thompson, R.M. Weiss, P.D. Lindower, V.M. Blanco, M.L. McCormick, A. Daugherty, X. Fu, S.L. Hazen, B.K. Stansfield, Y. Huo, D.J. Fulton, T. Chatterjee, and N.L. Weintraub NL.. (2017). Role of myeloperoxidase in abdominal aortic aneurysm formation: mitigation by taurine. *American Journal of Physiology: Heart and Circulatory Physiology*. **313**: H1168-H1179. doi: 10.1152/ajpheart.00296.2017. (PMID 28971841)
184. Umabayashi, R., H. Uchida, Y. Kakio, V. Subramanian, A. Daugherty, and J. Wada. (2018). Cilostazol attenuates AngII-induced abdominal aortic aneurysms but not atherosclerosis in ApoE deficient mice. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **38**: 903-912. doi: 10.1161/ATVBAHA.117.309707 (PMID 29437572).
185. Ren, L., Y. Sun, D. Ye, L. Han, J. Sun, F. Li, M. Wang, L. Li, N. Zelcer, A. Mullick, A.H. J. Danser, Y. Jiang, H. Lu, A. Daugherty, X. Lu, and X. Ruan. (2018). Inhibiting hepatic (pro)renin receptor prevents diet-induced obesity and liver steatosis by suppressing hepatic lipid biosynthesis. *Circulation Research*. **122**: 730-741. doi: 10.1161/CIRCRESAHA.117.312422. (PMOID 29301853)
186. Lutshumba, J., S. Liu, Y. Zhong, T. Hou, A. Daugherty, H.S. Lu, Z. Guo, and M. Gong. (2018). Deletion of BMAL1 in smooth muscles cells protects from abdominal aortic aneurysms. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **38**: 1063-1075. doi: 10.1161/ATVBAHA.117.310153. (PMID 29437576)
187. Umabayashi, R, H.A. Uchida, Y. Kakio, V. Subramanian, A. Daugherty, and J. Wada. (2018). Cilostazol Attenuates AngII-induced Abdominal Aortic Aneurysms But Not Atherosclerosis in ApoE

- Deficient Mice. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **8**: 903-912. doi: 10.1161/ATVBAHA.117.309707. (PMID 29437572)
188. Kusters, P.J.H., T.T.P. Seijkens, L. Beckers, D. Lievens, H. Winkels, V. de Waard, A. Duijvestijn, M. Lindquist Liljeqvist, J. Roy, A. Daugherty, A. Newby, N. Gerdes, and E. Lutgens. (2018). CD40L deficiency protects against aneurysm formation. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **38**: 1076-1085. doi: 10.1161/ATVBAHA.117.310640. (PMID 29519940)
189. Huang, X.F., S.Z. Zhang, Y.Y. You, N. Zhang, H. Lu, A. Daugherty and X.J. Xie. (2018). Ginkgo biloba extracts prevent aortic rupture in angiotensin II-infused hypercholesterolemic mice. *Acta Pharmacol Sin*. doi: 10.1038/s41401-018-0017-7. (PMID 29777203).
190. Au, D.T., Z. Ying, E.O. Hernández-Ochoa, W.E. Fondrie, B. Hampton, M. Migliorini, R. Galisteo, M.F. Schneider, A. Daugherty, D.L. Rateri, D.K. Strickland and S. C. Muratoglu. (2018). LRP1 regulates smooth muscle contractility by modulating cytoskeletal dynamics and calcium signaling. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **38**: 2651-2664. doi: 10.1161/ATVBAHA.118.311197. (PMID 30354243)
191. Zheng, Z., J. Ai, L. Guo, X. Ye, S. Bondada, D. Howatt, A. Daugherty, and X-A Li. (2018). Scavenger receptor BI is critical in maintaining normal T cell development and enhancing thymic regeneration. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **38**: 2706-2717. doi: 10.1161/ATVBAHA.118.311728. (PMID 30354229)
192. Hadi, T., L. Boytard, M. Silvestro, D. Alebrahim, S. Jacob, J. Feinstein, K. Barone, W. Spiro, S. Hutchison, R. Simon, D.L Rateri, F. Pinet, D. Fenyo, M. Adelman, K.J. Moore, H. Eltzschig, A. Daugherty, and B. Ramkhalawon. (2018). Macrophage-derived Netrin-1 promotes Abdominal Aortic Aneurysms by sustaining calcium-dependent activation of MMP3 in vascular smooth muscle cells. *Submitted to Nature Communications*. **9**: 5022. doi: 10.1038/s41467-018-07495-1. (PMID 30479344)
193. Ye, F., Howatt, C. Wu, C-H. Wu, A. Balakrishnan, A.E. Mullick, M.J. Graham, A.H.J. Danser, J.-A. Wang, A. Daugherty, and H.S. Lu. (2018). Angiotensinogen and Megalin Interactions Contribute to Atherosclerosis. *Arteriosclerosis, Thrombosis, and Vascular Biology*. doi: 10.1161/ATVBAHA.118.311817. (PMID 30567480).
194. Sawada, H., J.Z. Chen, B.C. Wright, J.J. Moorlegghen, H.S. Lu, and A. Daugherty. (2018). Ultrasound imaging of the thoracic and abdominal aorta in mice to determine aneurysms dimensions. *Journal of Visualized Experiments*. In press.
195. Chen, J.Z, H. Sawada, J.J. Moorlegghen, A. Daugherty, and M. Sheppard. (2019). Aortas from fibrillin-1 hypomorphic mice resist systolic expansion. *Circulation Reports*. In press

### Submitted or In Revision

196. Okuyama, M., H.A. Uchida. Y. Kakio, Y. Hada, R. Umebayashi, K. Tanabe, Y. Fujii, S. Oozawa, V. Subramanian, A Daugherty, Y. Sato, and J Wada. Exogenous Vasohibin-2 Exacerbates Angiotensin II- induced Thoracic Aortic Aneurysms independent of VEGF. *Submitted to Arteriosclerosis, Thrombosis, and Vascular Biology*.
197. Chen, H., X. Ma, L. Zhu, Q. Wan, S. Hu, C. Xu, H. Hao, Y. Zhang, Y. Huang, H. Lu, A. Daugherty, W. Jin, and M. Wang. (2018). A Novel Mouse Model of Cardiovascular Disease: Dyslipidemia and Inducible Angiotensin II Expression Exemplify Atherosclerosis, Coronary Heart Disease and Aortic Aneurysm. *Submitted to Circ Res*.
198. Wu, C., W. Lu, G. Zhang, X. Zhang, B. Xiang, J. Shi, X.-A. Li, A. Daugherty, S.S. Smyth, N. Mackman,

T. Shiroishi, F. Shao, Y. Wei and Z. Li. (2017). Inflammasome activation triggers blood coagulation through pyroptosis. *Submitted to Immunity*

**B. Published Sequences**

1. Rateri, D.L., S. C. Whitman, and Daugherty, A. (1999) Sequence of cDNA for class A scavenger receptor from C57BL/6 mouse strain. GeneBank. Accession number AF203781

**C. Non Scientific Publications**

1. Marcel, Y., H. McBride, R.W. Milne, M.W. Huff, and A. Daugherty. (2010). In memoriam. Stewart Charles Whitman (1964-2010). *Journal of Lipid Research*. Epub. (PMID 20699422)

**D. Interviews**

1. Li. B. (2018). Alan Daugherty, cardiovascular research takes courage to roll with the punches. *Journal of Thoracic Diseases*. **10**: E646-E649. (PMID 30233904)

### 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 2013
Citations	19907	9085
h-index	72	52
I10 Index	210	166

### 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. **(1225 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. **(1084 citations)**
3. Whitman, S.C., P. Ravisankar, P., and A. Daugherty. (2002). Interleukin-18 enhances atherosclerosis in apolipoprotein E <sup>-/-</sup> mice through release of interferon- $\gamma$ . *Circulation Research*. 10.1161/hh0202.105292. **(470 citations)**
4. Whitman, S.C., P. Ravisankar, Elam, H., and A. Daugherty. (2000). Exogenous interferon- $\gamma$  enhances atherosclerosis in apolipoprotein E<sup>-/-</sup> mice. *American Journal of Pathology*. **157**: 1819 - 1824. **(409 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) **(330 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. **(295 citations)**
7. 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<sup>-/-</sup> mice. *Journal of Clinical Investigation*. **100**: 1575-1580. **(281 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. **(261 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 **(257 citations)**.
10. Roselaar, S.E., P. Kakkanathu, and A. Daugherty. (1996). Lymphocyte populations in atherosclerotic lesions of apoE <sup>-/-</sup> and LDL receptor <sup>-/-</sup> mice. Decreasing density with disease progression. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **16**: 1013-1018. **(222 citations)**

## F. Books

1. Daugherty, A., L.M. Cusumano and W. Jack. (1987). *Therapeutic Advances in Hyperlipidemia and Atherosclerosis*. Medstrategy Inc., St. Louis.
2. Daugherty A., L.M. Cusumano and W. Jack. (1989). *Therapeutic Advances in Hyperlipidemia and Atherosclerosis. Update I*. Medstrategy Inc., St. Louis.
3. Daugherty A., P. Blank, and W. Jack. (1990). *Therapeutic Advances in Hyperlipidemia and Atherosclerosis. Update II*. Medstrategy Inc., St. Louis.
4. Daugherty, A. and J.W. Baynes - editors - (1991). *Radical Therapies - Roles of antioxidants in disease treatment*. Medstrategy Inc., St. Louis.
5. Daugherty, A. (1992). *Highlights of the XI International Symposium on Drugs Affecting Lipid Metabolism*. Medstrategy Inc., St. Louis.
6. Daugherty, A. and W. Jack. (1993). *Atherosclerosis: Etiology and Therapeutic Strategies*. Medstrategy Inc., St. Louis.

## G. Invited Chapters in Books

1. Daugherty, A. (1990). Probucol reduces lipid deposition *in vivo* in atherosclerotic lesions of rabbits with hypercholesterolemia of either genetic or dietary origin. *Xth International Symposium on Drugs Affecting Lipid Metabolism*. Elsevier Scientific Publishers B.V. Amsterdam.
2. Schonfeld, G, E.S. Krul, P. Talmud, A. Daugherty, and S.E. Humphries. (1990). Hypobetalipoproteinemia associated with truncated forms of apoB in a USA kindred. *Xth International Symposium on Drugs Affecting Lipid Metabolism*. Elsevier Scientific Publishers B.V. Amsterdam.
3. Daugherty, A. and J.W. Heinecke. (1995). Epidemiology and risk factors in atherosclerosis. Pg 81-90. *Vascular Surgery: Theory and Practice*. Ed. A. Callow and A. Ernst. Appleton and Lange. Stamford, CT.
4. Heinecke, J.W. and A. Daugherty. (1995). Pathobiology of atherosclerosis lesions. Pg 91 - 104. *Vascular Surgery: Theory and Practice*. Ed. A. Callow and A. Ernst. Appleton and Lange. Stamford, CT.
5. Daugherty, A. and G. K. Hansson. (2000). Lymphocytes and Atherosclerosis. Pg 230 - 249. In *Atherosclerosis: Gene Expression, Cell Interactions, and Oxidation*. Ed. R Dean and D. Kelly, Oxford University Press, Oxford, UK.
6. Henning, B. V. Saraswathi, A. Daugherty, and M. Toborek. (2002) Fatty acid-induced endothelial cell activation. Pg 37-40. *Atherosclerosis: Risk Factors, Diagnosis, and Treatment*. Ed G.M. Kostner. Medimond Inc, Bologna, Italy.
7. Daugherty, A. and S.C. Whitman. (2003). Use of the mouse for studying atherosclerosis. The Transgenic Mouse: Methods and Protocols. *Methods of Molecular Medicine*. Pg 293-309. Ed. M. Hofker and J. van Deursen. Humana Press, Totowa, New Jersey.
8. Daugherty, A. and D.L. Rateri (2006) Hyperlipidemia-induced atherosclerosis. A Handbook of Mouse Models for Cardiovascular Diseases. pg. 53-66. Ed Q. Xu, Wiley, London.
9. Wang, Y.X. Cassis, L.A. and Daugherty, A. (2006). Angiotensin II-induced abdominal aortic aneurysms. *A Handbook of Mouse Models for Cardiovascular Diseases*. pg 125-146. Ed Q. Xu, Wiley, London.

10. Lu, H., D.L. Rateri, and A. Daugherty. (2007). Immunostaining of mouse atherosclerotic lesions. *Vascular Biology Protocols. Methods of Molecular Medicine*. Vol 139. Pg. 77-94. Eds. Sreejayan and J. Ren. Human Press, Totowa, New Jersey. (PMID 18287665).
11. Daugherty, A., H. Lu, D.A. Howatt, and D.L. Rateri. (2009). Modes of defining atherosclerosis in mouse models - relative merits and evolving standards. *Cardiovascular Genomics. Methods in Molecular Medicine*. Ed K. DePetrillo. Springer, New York, NY. Vol 573. Pg. 1-15. (PMID 19763919).
12. Lu, H., L.A. Cassis, and A. Daugherty. (2012). The renin angiotensin system in atherosclerosis. *Advances in Atherosclerosis: Treatment and Prevention. Novel Strategies for the Treatment of Atherosclerosis*. Chapter 8; pg 215-252. Pan Stanford Publishing Pte. Ltd., Singapore. Eds. O. Soehnlein and C. Weber.
13. Lu, H., and A. Daugherty. (2015). Mechanisms of the Renin Angiotensin System Influencing Atherosclerosis. *Atherosclerosis; Risks, Mechanisms and Therapies*. John Wiley and Sons Inc. Eds. H. Wang and C. Patterson. Pg 209-219.
14. M. Huff, A. Daugherty, and Lu, H. (2015). Atherosclerosis. Chapter 19; Pg 520-546. *Biochemistry of Lipids, Lipoproteins and Membranes* 6<sup>th</sup> edition. Elsevier, Waltham, MA. Eds R. McLeod and N. Ridgway.
15. H. Lu, D.A. Howatt, A. Balakrishnan, J.J. Moorleghe, D.L. Rateri, L.A. Cassis, A. Daugherty. (2016). Angiotensin II-induced aortic aneurysms in mice. *Mouse Models of Vascular Diseases*. Springer, Japan. Editor: Masataka Sata. 2016; 197-210.
16. Wu, C, A. Daugherty, and H. Lu. (2017). A Color Segmentation Based Method to Quantify Atherosclerotic Lesion Compositions with Immunostaining. *Methods in Molecular Medicine: The Renin-Angiotensin-Aldosterone System: Methods and Protocols*. Springer, New York. Editor: Sean E. Thatcher. **1614**: 21-30. doi: 10.1007/978-1-4939-7030-8\_2 (PMID 28500592)

#### **H. Invited Reviews and Editorials**

1. Daugherty, A. and G. Schonfeld. (1985). Roles of lipoproteins in the initiation and development of atherosclerosis. *Pharmacology and Therapeutics*. **31**: 337-355. (PMID 3916392)
2. Daugherty, A. and D.L. Rateri. (1993) Pathogenesis of atherosclerotic lesions. *Cardiology in Review*. **1**: 157-166.
3. Daugherty, A. (1993). Atherosclerosis - Cell Biology and Lipoproteins - Commentary. *Current Opinion in Lipidology*. **4**: VI-20-VI-25.
4. Daugherty, A. (1994). Lipoprotein receptors in atherosclerotic lesions. Relation to the pathology of atherosclerosis. *Coronary Artery Disease*. **5**: 211-215. (PMID 7515312)
5. Daugherty, A. (1994). Advances in Cell Biology of Atherosclerosis - Overview as Guest Editor. *Coronary Artery Disease*. **5**: 185-188.
6. Daugherty, A. and S.E. Roselaar. (1995). Lipoprotein oxidation as a mediator of atherogenesis: Insights from pharmacological studies. *Cardiovascular Research*. **29**: 297-311. (PMID 7781006)
7. Daugherty, A. (1995). Atherosclerosis - Cell Biology and Lipoproteins - Commentary. *Current Opinion in Lipidology*. **6**: U106-U112. (PMID 7670743)
8. Daugherty, A. (1997). Atherosclerosis - Cell Biology and Lipoproteins - Commentary. *Current Opinion in Lipidology*. **8**: (PMID 9127718)



9. Daugherty, A. (1997). Lymphocytes in atherosclerotic lesions - Bystanders of active participants. *Atherosclerosis Alert*. **2**: 395-400.
10. Daugherty, A. (1998). Atherosclerosis - Cell Biology and Lipoproteins - Commentary. *Current Opinion in Lipidology*. **9**:179-180. (PMID 9559279)
11. Daugherty, A. (1998). Atherosclerosis - Cell Biology and Lipoproteins - Commentary. *Current Opinion in Lipidology*. **9**:613-615. (PMID 9559279)
12. Daugherty, A. (2000). Atherosclerosis - Cell Biology and Lipoproteins - Commentary. *Current Opinion in Lipidology*. **11**:335-337. (PMID 10882352)
13. Daugherty, A., S. C. Whitman, and D.L. Rateri (2000). Class A scavenger receptors. *Current Opinions Cardiovascular Pulmonary and Renal Investigative Drugs*. **2**:223-232
14. Daugherty, A. (2001). Atherosclerosis - Cell Biology and Lipoproteins - Commentary. *Current Opinions in Lipidology*. **12**:467-469 (PMID 11507333)
15. Daugherty, A. (2002) Models of vascular disease in knockout mice. *American Journal of Medical Sciences*. **323**:3-10 (PMID 11814139)
16. Daugherty, A. and L.A. Cassis (2002) Mechanisms of arterial aneurysm formation. *Current Atherosclerosis Reports*. **4**:222-227. (PMID 11931720)
17. Daugherty, A. and D.L. Rateri. (2002) T lymphocytes in atherosclerosis: The Yin-Yang of Th1 and Th2 influence on lesion formation. *Circulation Research*. **90**:1039-1040. (PMID 12039791)
18. Manning, M.W., L.A. Cassis, J. Huang, S.J. Szilvassy, and A. Daugherty (2002) Aortic aneurysms: Fresh insights from a novel animal model. *Vascular Medicine*. **7**: 45-54. (PMID 12083734)
19. Daugherty, A. (2002). Atherosclerosis - Cell Biology and Lipoproteins - Commentary. *Current Opinions in Lipidology*. **13**: 453-455. (PMID 12151862)
20. Daugherty, A., and L.A. Cassis. (2004) Mouse models of abdominal aortic aneurysms. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **24**: 429-434 (PMID 14739119)
21. Daugherty, A. (2004) Atherosclerosis - Cell Biology and Lipoproteins - Commentary. *Current Opinions in Lipidology*. **15**: 93-95. (PMID 15166816)
22. Daugherty, A., and L.A. Cassis. (2004). Angiotensin II mediated development of vascular diseases. *Trends in Cardiovascular Medicine*. **14**: 117-120. (PMID 15121160)
23. Daugherty, A., D.L. Rateri, and V.L. King. (2004) IL-5 links adaptive and natural immunity against atherosclerotic disease. *J. Clinical Investigation*. **114**: 317-320. (PMID 15286796)
24. Daugherty, A., and L.A. Cassis. Angiotensin II and aneurysms. (2004) *Current Hypertension Reports*. **6**: 442-446. (PMID 15527688)
25. Daugherty, A. (2005) Atherosclerosis - Cell Biology and Lipoproteins - Commentary. *Current Opinions in Lipidology*. **16**: 257-259 (PMID 15767866)
26. Greenland, P., A. Daugherty, D. Harrington, J. Bennett, H. Roberts, and K.A. Taubert. (2005) The use of nonsteroidal anti-inflammatory drugs (NSAIDs). A science advisory from the American Heart Association. *Circulation*. **111**: 1713-1716. (PMID 15781731)
27. Daugherty, A. and D.L. Rateri. (2005) Development of experimental designs for atherosclerosis studies in mice. *Methods*. **36**: 129-138. (PMID 15893934)

28. Daugherty, A. N.R. Webb, D.L. Rateri, and V.L. King (2005) Cytokine regulation of macrophage function in atherogenesis. *J. Lipid Res.* **46**: 1812-1822.
29. Daugherty, A. and D.L. Rateri. (2006) Atherosclerosis - Cell Biology and Lipoproteins - Commentary. *Current Opinions in Lipidology.* **17**: 95-97. (PMID 17095917)
30. Golledge, J., J. Muller, A. Daugherty, A. Van Rij, and P.E. Norman (2006). Abdominal aortic aneurysms: Pathogenesis and implications for medical management. *Arteriosclerosis, Thrombosis, and Vascular Biology.* **26**: 2605-2613. (PMID 16973970)
31. Daugherty, A., D.L. Rateri, and L. A. Cassis. (2006) Role of the renin-angiotensin system in the development of abdominal aortic aneurysms in animals and humans. *Annals of the New York Academy of Sciences.* **1085**: 82-91 (PMID 17182925)
32. Daugherty, A. and D.L. Rateri (2006) Atherosclerosis - Cell Biology and Lipoproteins - Commentary. *Current Opinions in Lipidology.* **17**: 705-707. (PMID 17095917)
33. Antman, E.M., J.S. Bennett, A. Daugherty, C. Furberg, Harold Roberts, and K.A. Taubert. (2007) American Heart Association Science Advisory on the use of nonsteroidal anti-inflammatory drugs (NSAIDs) - an update for clinicians. *Circulation.* **115**: 1634-1642. (PMID 17325246)
34. Daugherty, A. and L.A. Cassis. (2007). Commentary on "Hackman et al, Angiotensin converting enzyme inhibitors and aortic rupture: a population-based case-control study. *Lancet* 2006:368;659-665. *Perspectives in Vascular Surgery and Endovascular Therapy.* **19**: 342-344. (PMID 17911572)
35. Lu, H, L.A. Cassis, and A. Daugherty. (2007). Arterial blood pressure and atherosclerosis in mice. *Current Drug Targets* **8**: 1181-1189. (PMID 18045096)
36. Lu, H., D.L. Rateri, L.A. Cassis, and A. Daugherty (2008). The role of the renin-angiotensin system in aortic aneurysmal diseases. *Current Hypertension Reports.* **10**: 99-106. (PMID 18474175)
37. Rader, D.J. and A. Daugherty (2008). Atherosclerosis. Translating new discoveries into novel therapies. *Nature.* **451**: 904-913. (PMID 18288179)
38. Daugherty, A. and D.L. Rateri. (2008). Atherosclerosis - Cell Biology and Lipoproteins - Commentary. *Current Opinions in Lipidology.* **19**: 328-329. (PMID 18460928)
39. Daugherty, A., D.L. Rateri, and H. Lu. (2008). As macrophages indulge, atherosclerotic lesions bulge (Editorial). *Circulation Research.* **102**: 1445-1447. (PMID 18566308)
40. Daugherty, A., H. Lu, D. L. Rateri, and L.A. Cassis. (2008). Augmentation of the renin angiotensin system by hypercholesterolemia promotes vascular diseases. *Future Medicine.* **3**: 625-636. (PMID pending)
41. Macphee C.H. and A. Daugherty. (2008) Editorial: Cardiovascular diseases. *Drug Discovery Today: Therapeutic Strategies.* **5**: 1-3.
42. Daugherty, A., H. Lu, and D.L. Rateri. (2009). Atherosclerosis - Cell Biology and Lipoproteins - Commentary. *Current Opinions in Lipidology.* **20**: 260-261. (PMID: 19433924).
43. Lu, H, and A. Daugherty. (2009). Atherosclerosis - Cell Biology and Lipoproteins - Commentary. *Current Opinions in Lipidology.* **20**: 528-529 (PMID 19935204).
44. Daugherty, A., D.L. Rateri, and H. Lu. (2010). S100A12 links to thoracic abdominal aortic aneurysms - Editorial. *Circulation Research.* **106**: 13-15. (PMID 20056940).

45. Daugherty, A., Lu, H., Howatt, D.A., and Rateri, D.L. (2009). Modes of defining atherosclerosis in mouse models: relative merits and evolving standards. *Method Mol Biol.* **3**: 625-636. (PMID 19763919).
46. Daugherty, A., X. Chen, A. Poduri, H. Lu, and L.A. Cassis. (2010). Genetic variants of the renin angiotensin system: effects on atherosclerosis in humans and experimental models. *Current Atherosclerosis Reports.* **12**: 167-173. (PMID 20425255).
47. Lu, H, and A. Daugherty. (2010). Atherosclerosis - Cell Biology and Lipoproteins - Commentary. *Current Opinions in Lipidology.* **21**: 552-553. (PMID 21206345).
48. Lu, H, and A. Daugherty. (2011). Atherosclerosis - Cell Biology and Lipoproteins - Commentary. *Current Opinions in Lipidology.* **22**: 322-323 (PMID 21743310)
49. Daugherty, A., L.A. Cassis, and H. Lu. (2011). Complex pathology of AngII-induced abdominal aortic aneurysms. *Journal of Zhejiang University-SCIENCE B (Biomedicine and Biotechnology).* **12**: 624-628 (PMID 21796801)
50. Bruemmer, D., A. Daugherty, H. Lu, and D. L. Rateri. (2011). Relevance of angiotensin II-induced aortic pathologies in mice to human aortic aneurysms. *Annals of New York Academy of Science.* **1245**: 7-10. (PMID 22211965)
51. Wu, C., H. Lu, L.A. Cassis, and A. Daugherty. (2012). Molecular and pathophysiological features of angiotensinogen: a mini review. *North American Journal of Medicine and Science.* **4**: 183-190. (PMID 22389749)
52. Lu, H, and A. Daugherty. (2012). Atherosclerosis - Cell Biology and Lipoproteins - Commentary. *Current Opinions in Lipidology.* **23**: 263-264 (PMID 22576587)
53. Lu, H., D. L. Rateri, Bruemmer, D., L.A. Cassis, and A. Daugherty. (2012). Involvement of the renin-angiotensin system in abdominal and thoracic aortic aneurysms. *Clinical Science.* **123**: 531-543. (PMID 22788237)
55. Lu, H., D.L. Rateri, D. Bruemmer, L.A. Cassis, and A. Daugherty. (2012). Abdominal aortic aneurysms. Novel mechanisms. *Current Atherosclerosis Reports.* **14**: 402-212. (PMID 22833280)
56. Daugherty, A. and D.L. Rateri. (2012). Do vivarium conditions influence atherosclerotic lesion size. *Arteriosclerosis, Thrombosis, and Vascular Biology.* **32**: 2339-40. (PMID 22972938)
57. Lu, H, and A. Daugherty. (2013). Atherosclerosis - Cell Biology and Lipoproteins - Commentary. *Current Opinions in Lipidology.* **24**: 107-108 (PMID 23298967)
58. Curci, J.A., L. Kraiss, R.L. Dalman, A. Daugherty, R.W. Thompson, and A. Dardik. (2013). The Vascular Research Initiatives Conference and over 25 years of conversations on the science of vascular disease. *Journal of Vascular Surgery.* **57**: 501-501 (PMID 23337860)
60. Chen, X, H. Lu, D.L. Rateri, L.A. Cassis, and Daugherty. (2013). The conundrum of angiotensin II and TGF-beta interactions in aortic aneurysms. *Current Opinion in Pharmacology.* doi:pil: S1471-4892(13)00006-4. 10.1016/j.coph.2013.01.002. (PMID 23395156)
61. Lu, H, and A. Daugherty. (2013). Atherosclerosis - Cell Biology and Lipoproteins - Commentary. *Current Opinions in Lipidology.* **24**: 455-456 (PMID 24005221).
62. Daugherty, A and H. Lu. (2013). Circulation Research Classics: Angiotensin II Promotes Oxidation in Vascular Smooth Muscle Cells. *Circulation Research.* **113**: 1283-1285. (PMID 24311616)

63. Davis, F., D.L. Rateri, and A. Daugherty. (2013). Aortic Aneurysms in Loeys-Dietz Syndrome - A Tale of Two Pathways? *Journal of Clinical Investigation*. **20**: 1-3 (PMID 24355917)
64. Lu, H., and A. Daugherty. (2014). Atherosclerosis - Cell Biology and Lipoproteins - Commentary. *Current Opinions in Lipidology*. **25**: 157-158. (PMID 4622057).
65. Daugherty, A, and J.T. Powell. (2014). Recent Highlights of ATVB: Aneurysms. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **34**: 691-694. (PMID 24665119)
66. Davis, F, D.L. Rateri, and A. Daugherty. (2014). A Straightforward Guide to the Basic Science Behind Aneurysm Formation and Rupture. *Heart*. **100**: 1498-1505 (PMID 25060754).
67. Daugherty, A, I. Tabas, and D.J. Rader. (2015). Accelerating the pace of atherosclerosis research. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **35**: 11-12 (PMID 25520521).
68. Mallat, Z. and A Daugherty. (2015). AT1 receptor antagonism to reduce aortic expansion in Marfan's: Lost in translation or in need of different interpretation? *Arteriosclerosis, Thrombosis, and Vascular Biology*. *Epub* (PMID 25550201).
69. Lu, H., and A. Daugherty. (2015). Atherosclerosis - Cell Biology and Lipoproteins - Commentary. *Current Opinions in Lipidology*. **26**: 152-153. (PMID 25756812).
70. Lu, H., and A. Daugherty. (2015). Recent Highlights of ATVB: Atherosclerosis. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **35**: 485-491. (PMID 25717174)
71. Liu, J., A. Daugherty, H. Lu. (2015). Angiotensin II and abdominal aortic aneurysms: an update. *Current Pharmaceutical Design*. **21**: 4035-4048. (PMID 26306840)
72. Davis, F., D.L. Rateri, and A. Daugherty. (2015). Abdominal Aortic Aneurysm Disease: Mechanisms and Translational Therapy. *Current Opinion in Cardiology*. **30**(6):566-73. doi: 10.1097/HCO.0000000000000216. (PMID: 26352243)
73. Lu, H., and A. Daugherty. (2015). Regulatory B cells, interleukin-10, and atherosclerosis. *Current Opinions in Lipidology*. **26**(5):470-1. doi: 10.1097/MOL.0000000000000220. (PMID: 26339770; PMCID: PMC4618556)
74. Lu, H., L.A. Cassis, C.W. Vander Kooi, and A. Daugherty. (2016). Structure and Functions of Angiotensinogen. *Hypertension Research*. doi: 10.1038/hr.2016.17 (PMID 26888118)
75. Sheppard, M. D.L. Rateri, and A. Daugherty. (2016). Mir, Mir in the wall, which is the most causative of them all? (Editorial) *Journal of the American College of Cardiology*. **67**: 2978-2980 (PMID 27339496)
76. Lu, H., and A. Daugherty. (2016). Calcification in atherosclerotic lesions. *Current Opinions in Lipidology*. **27**: 543-544 (PMID 27579551).
77. Sheppard, M.B., A. Daugherty, and H Lu. (2016). Insights into Ascending Aortic Aneurysm Pathogenesis using in vivo and ex vivo Imaging Systems in Angiotensin II-Infused Mice. *Journal of Thoracic Disease*. **8**; E822-824 (PMID 27618768; PMCID 4999741)
78. Daugherty, A., (Writing Committee Chair) A.R. Tall, M.J.A.P. Daemen, E. Falk, E.A. Fisher, G. Garcia-Cardena, A.J. Lusis, A.P. Owens III, M.E. Rosenfeld, R. Virmani, behalf of the American Heart Association Council on Arteriosclerosis, Thrombosis, and Vascular Biology, and Council on Basic Cardiovascular Sciences. (2017). American Heart Association Statement. Recommendations for Design and Execution of Experimental Atherosclerosis Studies. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **37**: e131-e157. doi: 10.1161/ATV.0000000000000062. (PMID 28729366)

79. Daugherty, A., (Writing Committee Chair) A.R. Tall, M.J.A.P. Daemen, E. Falk, E.A. Fisher, G. Garcia-Cardena, A.J. Lusis, A.P. Owens III, M.E. Rosenfeld, R. Virmani, behalf of the American Heart Association Council on Arteriosclerosis, Thrombosis, and Vascular Biology, and Council on Basic Cardiovascular Sciences. (2017). American Heart Association Statement. Recommendations for Design and Execution of Experimental Atherosclerosis Studies. *Circulation Research*. **121**: e53-e79. doi: 10.1161/RES.000000000000169. (PMID 28729353)
80. Daugherty, A., M.B. Sheppard, Z. Chen, H. Sawada, and D.L. Rateri. (2017). TGF- $\beta$  in Thoracic Aortic Aneurysms in Marfan Syndrome: Good, Bad, or Irrelevant? *Journal of the American Heart Association*. **6**. pii: e005221. doi: 10.1161/JAHA.116.005221. (PMID 28119286)
81. Ye, F., J-A Wang, A. Daugherty and H Lu. (2017). Macrophage-mediated Mechanisms in Atherosclerosis: Still Tangled. *Current Opinions in Lipidology*. **28**: 286-287. doi: 10.1097/MOL.0000000000000410 (PMID 28420827)
82. Lu, H. and A. Daugherty. (2017) Recent Highlights of ATVB. Aortic Aneurysms. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **37**: 21-30. doi: 10.1161/ATVBAHA.117.309578. (PMID 28539494)
83. Wu, C.H., A. Daugherty, and H. Lu H. (2018). Multifaceted functions of macrophages in atherosclerosis. *Current Opinion in Lipidology*. **29**: 275-276. doi: 10.1097/MOL.0000000000000513. (PMID 29715245)
84. Daugherty, A. H.S. Lu, R.A. Hegele, N Mackman, D.J. Rader, A.N. Schmidt, and C Weber. (2018). Response by Daugherty et al to Letter Regarding Article, "Consideration of Sex Differences in Design and Reporting of Experimental Arterial Pathology Studies: A Statement From the *Arteriosclerosis, Thrombosis, and Vascular Biology* Council". *Arteriosclerosis, Thrombosis, and Vascular Biology*. **38**: e101-e102. Doi: 10.1161/ATVBAHA.118.310988 (PMID 29793996)
85. Wu, C.H., S. Mohammadmoradi, J.Z. Chen, H. Sawada H, A. Daugherty, and H.S. Lu. (2018). Renin-Angiotensin System and Cardiovascular Functions. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **38**: e108-e116. Doi: 10.1161/ATVBAHA.118.311282. (PMID: 29950386).
86. Sawada, H., B.C. Wright, J.Z. Chen, H.S. Lu, and A. Daugherty A. (2018). Drebrin - a New Player in Angiotensin II-induced Aortopathies. *Cardiovascular Research*. **114**: 1699-1701. doi: 10.1093/cvr/cvy205. (PMID 30107397).
87. Sawada, H. J.Z. Chen, B.C. Wright, M.B. Sheppard, H.S. Lu, and A. Daugherty. (2018). Heterogeneity of aortic smooth muscle cells: A determinant for regional characteristics of thoracic aortic aneurysms? *Journal of Translational Internal Medicine*. **6**: 93-96. doi: 10.2478/jtim-2018-002. (PMID 30425944).
88. Lu, H.S., A.M. Schmidt, R.A. Hegele, N. Mackman, D.J. Rader, C. Weber, and A. Daugherty. (2018) Reporting sex and sex differences in preclinical studies. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **38**: e171-e184. doi: 10.1161/ATVBAHA.118.311717.
89. Wang, Y., M. Ma, J.A. Wang, A. Daugherty, and H.S. Lu. (2018). Targeting PCSK9 in mice and monkeys. *Current Opinions in Lipidology*. pii: BSR20180201. doi: 10.1042/BSR20180201
90. Wu. C.H., Y. Wang, M. Ma, A.E. Mullick, R.M. Crooke, M.J. Graham, A. Daugherty, and H.S. Lu. (2018). Antisense Oligonucleotides Targeting Angiotensinogen: Insights from Animal Studies. *Bioscience Reports*. doi: 10.1042/BSR20180201.

**I. ATVB Editor Articles**

1. Daugherty, A. (2012). The New ATVB Editorial Team. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **32**:1545
2. Daugherty A. (2013). Changes at the ATVB Journal. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **33**: 3 (PMID 23242129)
3. Daugherty A. (2013). Recipients of the 2013 ATVB Early Career Awards. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **33**: 881. (PMID 23576712).
4. Daugherty A. (2014). Recipients of the 2014 ATVB Early Career Awards. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **34**: 953 (PMID 2457881)
5. Daugherty A. (2015). Recipients of the 2015 ATVB Early Career Awards. *Arteriosclerosis, Thrombosis, and Vascular Biology*. *Epub* (PMID 25732378)
6. Daugherty A. (2016). Recipients of the 2016 ATVB Early Career Awards. *Arteriosclerosis, Thrombosis, and Vascular Biology*. *Epub*
7. Daugherty, A., R.A. Hegele, N. Mackman, D.J. Rader, A.M. Schmidt, and C. Weber. (2016). Complying with the NIH Guidelines and Principles for Rigor and Reproducibility: Refutations. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **36**: 133-134 (PMID 27335467)
8. Daugherty A. (2017). Recipients of the 2017 ATVB Early Career Awards. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **37**: 737. doi: 10.1161/ATVBAHA.117.309091. (PMID 28153877)
9. Daugherty A. (2018). Recipients of the 2018 ATVB Early Career Awards. *Arteriosclerosis, Thrombosis, and Vascular Biology*. **38**: 977. doi.org/10.1161/ATVBAHA.118.310859

### Published Abstracts

1. Daugherty, A. and B. Woodward. (1980). Effect of calcium on cyclic nucleotide levels in the isolated rat heart. *British Journal of Pharmacology*. **70**: 69P-70P.
2. Daugherty, A. and B. Woodward. (1981). The calcium dependence of ventricular fibrillation thresholds in the isolated rat heart, and the effects of verapamil. *British Journal of Pharmacology* **74**: 193P-194P.
3. Daugherty, A. and B. Woodward. (1981). The  $K^+/Ca^{2+}$  ratio and slow-channel antagonists on arrhythmias in the isolated perfused coronary-ligated rat heart. *British Journal of Pharmacology* **74**: 834P.
4. Daugherty, A. and B. Woodward. (1982). Lack of adrenergic influences on ventricular arrhythmias in coronary artery-ligated isolated rat hearts. *British Journal of Pharmacology* **76**: 182P.
5. Daugherty, A. and B. Woodward. (1982). Carbachol-adrenaline interactions on vulnerability to ventricular fibroflutter in the isolated rat heart. *British Journal of Pharmacology* **77**: 464P.
6. Daugherty, A., K.N. Frayn, W.S. Redfern and B. Woodward. (1983). Do elevated plasma catecholamines contribute to the development of ventricular dysrhythmias in the coronary-ligated rat heart? *British Journal of Pharmacology* **79**: 45P.
7. Daugherty, A., O.Y. Mohamed and B. Woodward. (1983). Effect of potassium on coronary artery ligation induced ventricular arrhythmias in the isolated rat heart. *Journal of Physiology. (London)*. **340**: 66P.
8. Daugherty, A., L.G. Lange, G. Schonfeld and B.E. Sobel. (1984). Uptake of b-VLDL, HDL and albumin into atherosclerotic lesions of cholesterol-fed rabbits. *Federation Proceedings*. **43**: 460.
9. Fields, L.E., A. Daugherty, B.E. Sobel and S.R. Bergmann. (1984). Dissociation of oxygen consumption from work in diabetic rabbit hearts. *Federation Proceedings*. **43**: 374.
10. Daugherty, A., L.G. Lange and G. Schonfeld. (1984) Metabolic basis for the lack of regression of atherosclerotic lesions in the cholesterol-fed rabbit returned to normal chow. *Arteriosclerosis*. **4**: 525.
11. Tilton, R.G., A. Daugherty, P.A. Cole and J.R. Williamson. (1984). Hypercholesterolemia increases coronary vascular damage during reflow after ischemia. *Arteriosclerosis*. **4**: 530.
12. Avkiran, M., A. Daugherty, B. Woodward and M.N.M.H. Zakaria. (1984). Antiarrhythmic action of desmethylimipramine in the rat. *Journal of Molecular and Cellular Cardiology*. **16**: 57.
13. Sutura, S.P., A. Daugherty, C.W. Boylan, P.R. Rao, B.F. Perry, K. Chang, J. Marvel and J. R. Williamson. (1985). Effect of high cholesterol diet on red cell deformability in rabbits. *Microvascular Research*. **28**: 253.
14. Fields, L.E., K.A.A. Fox, A.K. Robison, A. Daugherty, S.R. Thorpe, S.J. Sarnoff and B.E. Sobel. (1985). Facilitated absorption of intramuscularly injected proteins including t-PA. *Circulation*. **72**: III-69.
15. Daugherty, A., S.R. Thorpe, L.G. Lange, B.E. Sobel and G. Schonfeld. (1985). Tissue sites of catabolism of  $\beta$ -VLDL defined with a novel residualizing label. *Circulation*. **72**: III-91.
16. Daugherty, A., K. Oida, B.E. Sobel and G. Schonfeld. (1986). Intestinal and hepatic derived plasma VLDLs accumulate at different rates during diet-induced hypercholesterolemia. *Federation Proceedings*. **45**: 347.
17. Daugherty, A., S.R. Thorpe and G. Schonfeld. (1986). Regulation of accumulation of b-VLDL and LDL in tissues *in vivo*: Contrasting effects of diet-induced hypercholesterolemia. *Arteriosclerosis*. **6**: 530.

18. Daugherty, A., B.S. Zweifel, B.E. Sobel and G. Schonfeld. (1987). Modified LDL in vascular tissue of WHHL rabbits. *Circulation*. **76**: IV-312.
19. Tilton, R.G., A. Daugherty, M.P Land, S.P. Sutura and J.R. Williamson. (1988). Diabetes increases albumin permeation but ameliorates coronary smooth muscle and myocyte contractile changes during reflow after ischemia. *Journal of Molecular and Cellular Cardiology*. **20**: S.10.
20. Moerlein, S.E., A. Daugherty and M.J. Welch. (1988). Ga-68 DTPA-LDL: A potential radiopharmaceutical for *in vivo* imaging of low-density lipoprotein receptor activity with PET. *Journal of Nuclear Medicine*. **29**: 848.
21. Becker, N.N., A. Daugherty, L. Scherrer, J.J.H. Ackerman, B.E. Sobel and S.R. Thorpe. (1988). NMR detection of protein catabolism in rat liver *in vivo* with a <sup>19</sup>F-containing residualizing label. *Seventh Annual Society of Magnetic Research in Medicine*. **1**: 447.
22. Rateri, D.L., Kimura, Y, and A. Daugherty. (1988). Effects of diet on atherogenicity of specific subfractions of VLDL from Watanabe rabbits. *Arteriosclerosis*. **8**: 624a.
23. Dyer, L.E., D.L. Rateri, G. Schonfeld, and A. Daugherty. (1988). Dissociation of apolipoprotein degradation from ACAT activity in macrophages. *Arteriosclerosis*. **8**: 560a.
24. Daugherty, A., B.S. Zweifel, and G. Schonfeld. (1988). Probucol reduces atherosclerosis in cholesterol-fed rabbits. *Arteriosclerosis*. **8**: 624a.
25. Daugherty, A., S.R. Thorpe, C. Dence, M.R. Kilbourn, M.J. Welch, A.D. Ambos, G. Schonfeld, and B. E. Sobel. (1988). Non-invasive characterization of hepatic LDL metabolism by positron tomography. *Circulation*. **78**: 1282.
26. Daugherty, A., S.R. Thorpe, D.L. Rateri, Y. Kimura, and G. Schonfeld. (1988). Metabolism of cholesterol ester-rich VLDL in atherosclerotic aortic tissue. *Circulation*. **78**: 1560.
27. Kimura, Y., G. Schonfeld, and A. Daugherty. (1988). ApoB-48 enriched VLDL isolated by anti-apoE affinity columns. *Arteriosclerosis*. **8**: 604a.
28. Daugherty, A. and D.L. Rateri (1989). WHHL rabbit macrophages exhibit abnormal intracellular processing of cholesterol ester-rich VLDL. *Proceedings of the AHA Scientific Conference on Coronary Atherosclerosis and Thrombosis, Keystone, CO*.
29. Moerlein, S.E., A. Daugherty, and M.J. Welch. (1989). Ga-68 DTPA-VLDL: A potential radiopharmaceutical for PET quantification of tissue low density lipoprotein receptor activity. *Journal of Nuclear Medicine*. **30**: 763.
30. Scherrer, L.S., S.R. Thorpe, J.J.H. Ackerman, B.E. Sobel, and A. Daugherty. (1989). Characterization of cholesterol ester-rich VLDL noninvasively by NMR spectroscopy. *Circulation*. **80**: II-384.
31. Daugherty, A., G. Schonfeld and D.L. Rateri (1989). WHHL rabbit macrophages exhibit abnormal intracellular processing of cholesterol ester-rich VLDL. *Circulation*. **80**: II-80.
32. Thorpe, S.R., D.L. Rateri, G. Schonfeld, and A. Daugherty. (1989). Apoprotein determinants of hepatocyte-mediated clearance of cholesterol ester-rich VLDL from plasma. *Arteriosclerosis*. **9**: 768a.
33. Daugherty, A., B.S. Zweifel, and G. Schonfeld. (1989). Probucol retards the progression of established atherosclerosis in WHHL rabbits. *Arteriosclerosis*. **9**: 730a.



34. Scherrer, L.A., A. Daugherty, S.R. Thorpe, B.E. Sobel, and J.J.H. Ackerman. (1989). A noninvasive *in vivo* <sup>19</sup>F NMR spectroscopic approach to the characterization of lipoprotein metabolism. *Eighth Annual Society of Magnetic Research in Medicine. Works in Progress.* 1073.
35. McNamara, R.L., J.J. Billadello, G. Schonfeld, and A. Daugherty. (1990). Ethinyl estradiol increases Apo B/E receptor activity in hepatic but not in adrenal tissue. *Circulation.* **82:** III-326.
36. McNamara, R.L., G. Schonfeld, and A. Daugherty. (1990). Kinetics of LDL catabolism *in vivo* are tissue specific. *Arteriosclerosis.* **10:** 838a
37. Daugherty, A. and D.L. Rateri. (1990). Noninvasive determination of hepatic metabolism of LDL differs from an anti-apo B/E receptor antibody. *Arteriosclerosis.* **10:** 838a
38. Daugherty, A. and D.L. Rateri. (1990). Discordant metabolism of  $\beta$ -very low density lipoproteins in hepatic and adrenal tissues *in vivo.* *Arteriosclerosis.* **10:** 838a
39. Scherrer, L.A., J.J.H. Ackerman, and A. Daugherty. (1990). Intracellular degradation of lipoproteins determined in intact tissue by NMR spectroscopy using a <sup>19</sup>F residualizing label. *Circulation.* **82:** III-516.
40. Ord, J.M., A. Daugherty, S.R. Thorpe, S.R. Bergmann, and B.E. Sobel. (1990). Detection of thrombi with modified t-PA coupled to a residualizing radiolabel. *Circulation.* **82:** III-320.
41. Parhofer, K.G., A. Daugherty, M. Kinoshita, and G. Schonfeld. (1990). Enhanced clearance from plasma of low density lipoproteins containing a truncated apolipoprotein, apoB-89. *Circulation.* **82:** III-423.
42. Schonfeld, G., E.S. Krul, R.D. Wagner, K. Parhoffer, P. Talmud, and A. Daugherty. (1990). Hypobetalipoproteinemia associated with four different truncated forms of ApoB in three USA kindreds. *Proceedings of the 3rd International Symposium on Treatment of Severe dyslipoproteinemia in the prevention of coronary heart disease.* 88.
43. Moerlein, S.M., A. Daugherty, B.E. Sobel, and M.J. Welch. (1991). Utility of Tc-99m and In-111-labeled low-density lipoprotein as radiopharmaceuticals for metabolic imaging. *Journal of Nuclear Medicine.* **32:** 925-929.
44. Baumann, D., M. Doblaz, A. Daugherty, G. Sicard, and G. Schonfeld. (1991) The role of cholesterol accumulation in prosthetic graft anastomotic intimal hyperplasia. *Surgical Forum.* **142:** 354-359.
45. Hasapes, J.P., B.E. Sobel, and A. Daugherty. (1992). Tissue plasminogen activator is avidly metabolized in macrophages by the mannose fucose receptor. *Journal of the American College of Cardiology.* **19:** 392A.
46. Daugherty, A. and R. Reyes. (1992). Combined administration of amlodipine and lovastatin dramatically reduces aortic atherosclerosis in cholesterol-fed rabbits without affecting plasma lipid concentrations. *Proceedings of the IX International Conference on Drugs Affecting Lipid Metabolism.*
47. Wickline, S.A., R.A. Shepard, and A. Daugherty. (1992). Quantitative ultrasonic tissue characterization of atherosclerosis. *Proceedings of the Association for the Advancement of Medical Instrumentation.*
48. Daugherty A., D.L. Rateri, J.L. Dunn, and J. W. Heinecke. (1993) Human atherosclerotic lesions contain myeloperoxidase, a phagocyte enzyme that catalyzes oxidation reactions. *Circulation.* **88:** I-32.
49. Daugherty A., J.A. Cornicelli, S.M. Sendobry, and D.L. Rateri. (1994). Scavenger receptors are present on endothelial cells *in vivo.* *Circulation.* **90:** I-188

50. Roselaar S.E. and A. Daugherty. (1995) T-Lymphocytes are abundant in atherosclerotic lesions of LDL receptor *-/-* mice but not apolipoprotein E *-/-* mice. *Circulation*, **92**: I-498.
51. Sendobry S.M., J.A. Cornicelli, T. Bocan, K. Welch, B. Tait, B.K. Trivedi, N. Colbry, S. Feinmark, and A. Daugherty. (1995) Prevention of atherosclerosis in cholesterol-fed rabbits by a novel 15-lipoxygenase inhibitor lacking antioxidant properties. *Arteriosclerosis Thrombosis and Vascular Biology (Suppl)*. 120.
52. Roselaar, S.E. and A. Daugherty. (1996) Lipopolysaccharide decreases abundance of hepatic scavenger receptor mRNA *in vivo* in susceptible mice. *Proceedings of the Joint Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
53. Sendobry, S.M., J.A. Cornicelli, and A. Daugherty. (1996) Total immune deficiency promotes lipoxygenase activity in mouse peritoneal macrophages. *Circulation*. **94**: I-344.
54. Roselaar, S.E., and A. Daugherty. (1997) Apolipoprotein E deficiency impairs innate immune responses to *Listeria monocytogenes* *in vivo*. *Circulation*. **96**: I-347
55. Gairola, C.G., and A. Daugherty. (1999) Acceleration of atherosclerotic plaque formation in apoE *-/-* mice by exposure to tobacco smoke. *Society of Toxicology*.
56. Hennig, B., R. Slim, M. Toborek, A. Daugherty, and L.W. Robertson. (1999) PCB-mediated endothelial cell dysfunction: Implications in atherosclerosis. *Proceedings of the 19th International Symposium on Halogenated Environmental Organic Pollutants and POPs*
57. Daugherty, A., S.C. Whitman, A.E. Block, and D.L. Rateri. (1999) The atherosclerosis susceptible strain of mouse, C57BL/6, lacks the adhesion and AcLDL receptor binding domain recognized by the antibody 2F8. *Circulation*. **100**: I-751
58. Daugherty, A., S.C. Whitman, D.L. Rateri, and J.A. Cornicelli. (1999) Aging influences the effects of macrophage-specific transgene expression of scavenger receptor class A in transgenic mice. *Circulation*. **100**: I-751
59. Daugherty, A. and L.A. Cassis. (1999) Angiotensin II infusion promotes atherogenesis and aneurysm formation in apolipoprotein E *-/-* mice. *Circulation*. **100**: I-474.
60. Whitman, S.C., Daugherty, A. and S.R. Post. (1999) Acute regulation of LDL receptor-mediated VLDL metabolism by macrophage colony-stimulating factor through a Gi/o-mediated signaling pathway. *Circulation*.
61. Webb, N.R., A. Daugherty, M.C. de Beer, M.S. Kindy, D.R. van der Westhuyzen, and F.C. de Beer. (1999) SR-BI over-expression results in depletion of apoB-containing lipoproteins that accumulate in apoE-deficient, but not LDL receptor-deficient or human apoB transgenic mice. *Circulation*. **100**: I-37
62. Sundell, C.L., A. Daugherty, A.L. Stalvey, P. Hammes, L.K. Landers, and R.M. Medford. (1999) Suppression of VCAM-1 and MCP-1 attenuates atherosclerosis in LDL receptor-knockout and apoE-knockout mouse models. *Circulation*. **100**: I-43.
63. Toborek, M., S. Kaiser, Y.W. Lee, K. Schnurr, A. Daugherty, B. Hennig, and H. Kuhn. (1999) Interleukin-4 induces expression of 15-lipoxygenase gene and creates a pro-inflammatory environment in HUVEC. *American Society for Cell Biology*.

64. Lee, Y.W., H. Kuhn, B. Hennig, A. Daugherty, and M. Toborek. (1999) Interleukin-4 mediated transcriptional regulation of 15-lipoxygenase gene expression in HUVEC. *American Society for Cell Biology*.
65. Cassis, L.A. and A. Daugherty. (2000) Effect of AT1 And AT2 antagonisms on AngII induced atherosclerosis and abdominal aortic aneurysms. *3<sup>rd</sup> International Symposium on Angiotensin II antagonism*.
66. Hennig, B., P. Meerarani, A. Daugherty, and M. Toborek. (2000) Unique properties of 18-C fatty acids in activation of vascular endothelial cells. *First Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
67. King, V.L., S.J. Szilvassy, and A. Daugherty. (2000) Interleukin-4 deficiency in LDL-receptor-/- mice fed a high fat diet leads to increased mortality and hypercholesterolemia. *First Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
68. King, V.L., S.J. Szilvassy, and A. Daugherty. (2000) Interleukin-4 deficiency in LDL-receptor-/- mice fed a high fat diet decreases atherosclerotic lesion formation. *Circulation*.
69. King V.L., S. J. Szilvassy, and A. Daugherty. (2001) Interleukin-4 deficiency accelerates the formation of gall stones in C57BL/6 mice fed a saturated fat, cholesterol, and cholate-enriched diet. *Second Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
70. Manning, M.W., S.J. Szilvassy, L. A. Cassis, and A. Daugherty. (2001) Angiotensin AT1a receptors on bone marrow derived cells are critical for angiotensin II-induced aneurysm formation and progression of atherosclerosis. *Second Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
71. Whitman, S.C., D.L. Rateri, S.J. Szilvassy, J.A. Cornicelli, and A. Daugherty. (2001) macrophage-specific expression of class A scavenger receptors decreases atherosclerosis in LDL receptor -/- mice and influences immune function. *Second Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
72. Whitman, S.C. and A. Daugherty. (2001) Interleukin-18, a prominent cytokine involved in acquired and innate immunity, enhances atherosclerosis in male apolipoprotein E -/- mice. *Second Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
73. Veeraraghavan, P., A. Daugherty, E.M. Kurowska, J. A. Manthey. and S. C. Whitman (2001) Metabolism of acetylated LDL by mouse peritoneal and J774 macrophages is inhibited by the citrus flavonoid nobiletin. *Second Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
74. Krul, E.S., D. Connolly, B. Keller, M. Brown, D. Butteiger, N. Napawan, K. Broschat, D. Ornberg, and A. Daugherty. (2001) Selective COX-2 inhibition reduces progression of atherosclerosis. Nashville Eicosanoid meeting.
75. Ravisankar, P., L.A. Cassis, S.J. Szilvassy, and A. Daugherty (2002). Absence of CCR2 receptors in bone marrow-derived cells decreases angiotensin II induced atherosclerosis and abdominal aortic aneurysms in apoE deficient mice. *Third Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
76. Tashiro, K., L.A. Cassis, and A. Daugherty (2002). Upregulation of MCP-1 and VCAM-1 is associated with development of angII-induced arterial disease in LDL receptor -/- mice. *Third Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
77. King, V., L.A. Cassis, and A. Daugherty. (2002). Interferon- $\gamma$  deficiency enhances angiotensin II-induced abdominal aortic aneurysm formation in apolipoprotein E deficient mice. *Third Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.

78. Manning, M.W., L.A. Cassis, and A. Daugherty. (2002). The matrix metalloproteinase inhibitor doxycycline reduces the incidence and severity of angiotensin-induced aortic aneurysms. *Third Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
79. Bostrom, M.A., F.C. de Beer, A. Daugherty, and N.R. Webb. (2002) Macrophage expression of group IIA sPLA2 in LDL receptor-deficient mice increases atherosclerotic lesions formation in the absence of systemic effects of lipoprotein metabolism. *Third Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
80. Cassis, L.A., N. Benjamin, M. Helton, J.Pauly, and A. Daugherty. (2002) Species differences in the renin-angiotensin system. IUPHAR Conference
81. Cassis, L.A., K. Saraff, and A. Daugherty. (2002) Hyperlipidemia upregulates the renin-angiotensin system. AHA Hypertension Meeting.
82. King, V.L., L. A. Cassis and A. Daugherty. (2003) Interferon- $\gamma$  has opposing effects on angiotensin II-induced atherosclerosis and abdominal aortic aneurysm formation and apolipoprotein-E deficient mice. *Fourth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
83. Howatt, D., D. L. Rateri, L. A. Cassis and A. Daugherty. (2003) Absence of CCR2 receptors decreases angiotensin II induced atherosclerosis and aortic aneurysms in apolipoprotein E  $-/-$  mice. *Fourth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
84. Rateri, D.L.,L. A. Cassis, M. Helton, and A. Daugherty. (2003) Angiotensin II-induced abdominal aortic aneurysms and atherosclerosis in LDL receptor deficient mice are mediated by type 1a receptors. *Fourth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
85. 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. *Fourth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
86. Huang, J, L. A. Cassis, S. J. Szilvassy, T. E. Curry, and A. Daugherty. (2003) Deficiency of matrix metalloproteinase-2 in bone marrow-derived cells decreases the incidence of angiotensin II-induced abdominal aortic aneurysms in apolipoprotein E $-/-$  mice. *Fourth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
87. Kosswig, N., A. Daugherty, and S. P. Post. (2003) A membrane proximal positively charged domain of the class A scavenger receptor's cytoplasmic tail is sufficient for cell surface localization. *Fourth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
88. Henriques, T.A, V.L. English, M.W. Helton, A. Daugherty, and L.A. Cassis. (2003) Ovariectomy fails to alter the development of AngII-induced abdominal aortic aneurysms in apolipoprotein E  $-/-$  mice. *Fourth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
89. Boustany,C., V.L. English, M. W. Helton, A. Daugherty, D. Randall, and L.A. Cassis. (2003) The renin-angiotensin system is activated in obesity-induced hypertension. *Fourth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
90. Rateri, D.L, L.A. Cassis, and A. Daugherty. (2003) Angiotensin II-induced vascular pathologies in LDL receptor deficient mice are mediated by the angiotensin II type 1a receptor. XIIIth International Symposium on Atherosclerosis.
91. Babamusta, F., K. Saraff, L.A. Cassis, and A. Daugherty. (2003) Macrophage colony stimulating factor deficiency protects against atherosclerosis but predisposes to arch aneurysms in angII-infused male mice. *Circulation*.

92. Saraff, K, F. Babamusta, L.A. Cassis, and A. Daugherty. (2003) Total lymphocyte deficiency protects against angiotensin II-induced vascular pathology in apoE deficient mice. *Circulation*.
93. Daugherty, A., D. Howatt, L.A. Cassis, and D.L. Rateri. (2003) Angiotensin peptides are augmented by hypercholesterolemia and are major contributors to the development of atherosclerosis. *Circulation*.
94. Gavrilu, D,W. Li., A. Daugherty, L.A. Cassis, F. J. Miller, K. C. Dellsperger, and N. L. Weintraub. (2003) Vitamin E inhibits AngII induced abdominal aneurysm formation in apoE<sup>-/-</sup> mice. *Circulation*.
95. Howatt, D.A, D.L. Rateri, L.A. Cassis, and A. Daugherty. (2004) Matrix metalloproteinase-9 deficiency does not reduce the development of angiotensin II-induced atherosclerosis and abdominal aortic aneurysm formation. *Fifth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
96. Lu, H., K. Tashiro, D.L. Rateri, L.A. Cassis, and A. Daugherty (2004) Definition of a macrophage renin-angiotensin system that is stimulated in a hyperlipidemic environment. *Fifth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
97. Huang, J., L. A. Cassis, and A. Daugherty. (2004). MMP-2 deficiency decreases the adhesion activity of peritoneal macrophages of mice through reduced integrin alpha v beta 3 expression. *Fifth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
98. Boustany, C., M. Helton, A. Daugherty and L.A. Cassis (2004) Deficiency of AT1a receptors attenuates blood pressure and limits body weight gain in diet-induced obesity. *Fifth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
99. Witta, J, M.C. de Beer, D.L. Rateri, A. Daugherty, and F. C.de Beer. (2004) Serum amyloid A expression in angiotensin II-induced abdominal aneurysm. *Fifth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
100. Rateri, D.L., D.A. Howatt, L.A. Cassis, and A. Daugherty. (2004) Deficiency of AT1a receptors in bone marrow-derived cells fails to influence hyperlipidemia induced atherosclerosis. *Fifth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
101. Phan, E.T, J.M. Sanders, J.J. Fischer, M.S. Bevard, A. Daugherty, and I.J. Sarembock. (2004) Interferon- $\gamma$  gene deletion does not impact lesion development in the ApoE <sup>-/-</sup> mouse carotid injury model. *Fifth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
102. Babamusta F., J. Moorlegghen, D.L. Rateri, L.A. Cassis, and A. Daugherty. (2004) M-CSF deficiency predisposes angiotensin II-infused mice to aortic medial degradation. *Fifth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
103. Gul W., L.A. Cassis, and A. Daugherty. (2004) Expression of cathepsin L is enhanced in angiotensin II-induced atherosclerosis. *Fifth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
104. Bostrom, M.A., Forrest, K., Boyanovsky, B., Daugherty, A., and Webb, N.R. (2005) Retroviral vector-mediated over-expression of group v secretory phospholipase A<sub>2</sub> expression in hematopoietic cells promotes atherosclerosis in low density lipoprotein receptor deficient mice. *Sixth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
105. Henriques, T.A., Daugherty, A., and Cassis, L.A. (2005) Androgen administration increases angiotensin II-induced abdominal aortic aneurysm formation in apolipoprotein E deficient mice. *Sixth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
106. Lu, H., D.L. Rateri, K. Tashiro, L.A. Cassis, and A. Daugherty. (2005) Acetylated LDL-induced lipid-loading of macrophages upregulates angiotensinogen via the AT1a receptor. *Sixth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.

107. Daugherty, A., Howatt, D.A., and Rateri, D.L. (2005) In vivo and ex vivo quantification of angiotensin II-induced abdominal aortic aneurysms by high frequency ultrasound. *Sixth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
108. Thomas, M., McCormick M.L., Daugherty, A., Cassis, L., Dellsperger K.C., and Weintraub N.L. (2005) Angiotensin II-induced abdominal aortic aneurysm formation is attenuated in ApoE/CD14-deficient mice. *Circulation*.
109. Thomas, M., McCormick M.L., Gavrila D., Miller, F., Daugherty, A., Cassis, L., and Weintraub N.L. (2005) Role of p47<sup>phox</sup> in angiotensin II-induced hypertension and abdominal aortic aneurysm formation in ApoE knock-out mice. *Circulation*.
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. Moorlegghen, 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. Moorlegghen, 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. Moorlegghen, 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. Moorlegghen, 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<sup>phox</sup> 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. Moorleggen, C. Barisione, and A. Daugherty. (2007). Continuous angiotensin II infusion promotes progressive expansion and vascular remodeling of abdominal aortic aneurysms in apolipoprotein E<sup>-/-</sup> 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 <sup>-/-</sup> 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<sup>-/-</sup> 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 $\gamma$  in aortic smooth muscle cells via the TGF- $\beta$ 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*.
131. Lu, H., L.A. Cassis, and A. Daugherty. (2008) Inhibition of Angiotensin Converting Enzyme Ablates Angiotensin I Infusion-Induced Atherosclerosis and Aneurysms in Mice. *Ninth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
132. Nomiyama, T., F. Gizard, Y. Zhao, E.B. Heywood, K. L. Jones, A. Daugherty, and D. Bruemmer (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*.
134. Lu, H. L.A. Cassis, and A. Daugherty. (2008). Dietary sodium regulates blood pressure and the systemic renin angiotensin system independent of atherogenesis. *Ninth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.

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*.
136. Cassis, L.A., M. Gupte, S. Thayer, D.A. Howatt, D.L. Rateri, and A. Daugherty. (2008). Angiotensin II promotes abdominal aortic aneurysms and atherosclerosis independent of blood pressure in hyperlipidemic mice. *Hypertension*.
137. Zhao, Y., T. Nomiya, F. Gizard, H. Findeisen, E.B. Heywood, K.L. Jones, A. Daugherty, and D. Bruemmer. (2009). The NR4a orphan nuclear receptor NOR1 regulates monocyte adhesion during atherogenesis. *Tenth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
138. Putnam, K, S. Police, S. Thatcher, A. Daugherty and L.A. Cassis. (2009). Weight loss in obese C57BL/6 mice limits adventitial expansion of chronic AngII-induced AAAs. *Tenth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
139. Zack, M, P. Shridas, W. Bailey, K. Forrest, D.A. Howatt, A. Daugherty, and N. R. Webb (2009). Group X secretory phospholipase A<sub>2</sub> 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. Bruemmer, J. Golledge and A. Daugherty. (2009). Smooth muscle specific PPAR $\gamma$  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<sup>-/-</sup> 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 <sup>-/-</sup> 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*.
148. Rateri, D.L., J.J. Moorleghen, D.A. Howatt, L.A. Cassis, and A. Daugherty. (2009). Depletion of smooth muscle cell angiotensin II type 1a receptors affects atherosclerosis but not abdominal aortic aneurysms. *Tenth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.



148. Li, X-A., L. Guo, Z. Song, Q. Wu, P. Bernard, A. Daugherty, E. Smart, and H. Bin. (2009). SR-B1 prevents septic death through its roles in modulating inflammatory response in macrophages and regulating corticosteroid production in adrenal glands. *Tenth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
150. Wang, L., Rateri, D.L., Miller, C.M., Daugherty, A. and Taubman, M.B. (2009). Vascular smooth muscle-derived tissue factor mediates the development of abdominal aortic aneurysm induced by angiotensin II infusion. *International Society for Thrombosis and Hemostasis*.
151. Owens III, AP, J.-G. Wang, D. A. Manly, A. Daugherty, and N. Mackman. (2009) Hyperlipidemia increases microparticle tissue factor and activates coagulation in LDL receptor deficient mice. *Circulation*.
152. Lu, H., M. Zhao, L.A. Cassis, and A. Daugherty. (2009). Angiotensinogen hypomorphic mice have markedly reduced hypercholesterolemia-induced atherosclerosis. *Circulation*.
153. Subramanian, V., D. Bruemmer, J. Golledge and A. Daugherty. (2009). Pioglitazone attenuates angii-induced atherosclerosis via a smooth muscle cell-specific PPAR $\gamma$  Mechanism but has no effect on abdominal aortic aneurysms. *Circulation*.
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*.
156. Findeisen, H. M., F. Gizard, Y. Zhao, E. B. Heywood, K. L. Jones, D.A. Howatt, A. Daugherty, and D. Bruemmer. (2010). Bone marrow-derived cell specific telomerase-deficiency attenuates AngII-induced abdominal aortic aneurysm formation. *Eleventh Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
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. Moorlegghen, 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. Moorlegghen, 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<sup>-/-</sup> 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, 58<sup>th</sup> Annual Scientific Meeting. Miami, FL*
166. Balakrishnan, A., D.A. Howatt, D.L. Rateri, M.J. Graham, A.E. Mullick, R.M. Crooke, 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. AlHawas, 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*.
175. Wu, C., H. Lu, L.A. Cassis, and A. Daugherty. (2011). Hepatocyte-specific angiotensinogen deficiency markedly reduces hypercholesterolemia-induced atherosclerosis and diet-induced obesity in mice. *Circulation*.

176. Owens. A.P. III, D.L. Rateri, D. A. Howatt, S. R. Steinhubl, A. Daugherty, and N. Mackman. (2011). Protease activated receptor 4 contributes to angii-induced abdominal aortic aneurysms and ruptures. *Circulation*.
177. Poduri, A., D.L. Rateri, A. Daugherty, S. Saha, and S. Saha. (2011). Watermelon supplementation reduces diet-induced atherosclerosis in male LDL receptor deficient mice. *SFRR-India*.
178. Duong, H.-L., K.Y. Lain, D.A. Howatt, D.L. Rateri, A. Daugherty, and T.E. Curry Jr. (2012). Parity is not associated with increased atherosclerosis in a mouse model. Society for Maternal Fetal Medicine, 32nd Annual Meeting.
179. de Beer, M.C., J, Witta, J.M. Wroblewski, D.L. Rateri, A. Daugherty, W. Bailey, F.C. de Beer, and N.R Webb. (2012). Serum amyloid A augments angiotensin II-induced abdominal aortic aneurysm formation in apoE-deficient mice. *Thirteenth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
180. Balakrishnan, A., D.A. Howatt, D.L. Rateri, M.J. Graham, A.E. Mullick, R.M. Crooke, L.A. Cassis, and A. Daugherty. (2012). Angiotensinogen inhibition by antisense oligonucleotides decreases atherosclerosis and obesity in a dose-dependent manner. *Thirteenth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
181. Jung, K.J., D.L. Rateri, D.A. Howatt, A. Balakrishnan, J.J. Moorlegghen, M. Mashni, L.A. Cassis, and A. Daugherty. (2012). Cellular heterogeneity of the ascending aorta - relationship to the development of ascending aortic aneurysm. *Thirteenth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
182. Rateri, D.L., D.A. Howatt, A. Balakrishnan, J.J. Moorlegghen, L.A. Cassis, and A. Daugherty. (2012). Protective effects of CCR2 deficiency on ascending aortic aneurysm formation are not mediated via MCP-1. *Thirteenth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
183. Poduri, A., D.L. Rateri, D.A. Howatt, J.J. Moorlegghen, L.A. Cassis, and A. Daugherty. (2012). Potential neural-specific influence on AT1a receptor mediated hyperplasia in the ascending aorta. *Thirteenth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
184. Putnam, K., M. Karounos, E. Lewis, F. Yiannikouris, A. Daugherty, and L.A. Cassis. (2012). Deficiency of angiotensin type 1a receptor in adipocytes increases fat mass in LDLR knockout mice infused with angiotensin II but has no effect on vascular pathologies. *Thirteenth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
185. Wu, CQ, H. Lu, L.A. Cassis, and A. Daugherty. (2012). Hepatocyte-specific deficiency of angiotensinogen increases metabolic rate and substantially the influences metabolome in plasma and hepatic tissue. *Thirteenth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
186. Zheng, Z., J. Ai, L. Guo, D.A. Howatt, A. Daugherty, S. Bondada, X-A Li. (2013). Scavenger Receptor BI-deficiency-induced hypercholesterolemia impairs lymphocyte homeostasis. *Fourteenth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
187. Balakrishnan, A.,D.A. Howatt, H. Lu, M.J. Graham, A.E. Mullick, R.M. Crooke, D. Feldman, L.A. Cassis and A. Daugherty. (2013). Comparative effects of angiotensinogen versus renin inhibition on established atherosclerosis and obesity in hypercholesterolemic mice. *Fourteenth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
188. Wu, CQ., H. Lu, J.J. Moorlegghen, D.A. Howatt, A. Balakrishnan, L.A. Cassis and A. Daugherty. (2013) Adeno-associated virus-mediated restoration of angiotensinogen function in mice with hepatocyte-specific deficiency. *Fourteenth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
189. Liu, J., H. Lu, D.A. Howatt, A. Balakrishnan, L.A. Cassis and A. Daugherty. (2013). The effects of

- hypercholesterolemia and lipoprotein-cholesterol concentrations on angiotensin II-induced abdominal aortic aneurysms. *Fourteenth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
190. Xu, YX., H. Lu, D.A. Howatt, A. Balakrishnan, J.J. Moorlegghen, L.A. Cassis and A. Daugherty. (2013). Nicotine infusion fails to induce abdominal aortic aneurysms in LDL receptor deficient mice. *Fourteenth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
  191. Chen, X., D.L. Rateri, D.A. Howatt, A. Balakrishnan, J.J. Moorlegghen, L.A. Cassis and A. Daugherty. (2013). TGF- $\beta$  neutralization augments development of angiotensin II-induced aneurysms in both ascending and abdominal aortic regions. *Fourteenth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
  192. Rateri, D.L., A. Balakrishnan, D.A. Howatt, J.J. Moorlegghen, L.A. Cassis and A. Daugherty. (2013). Effect of hepatocyte specific depletion of AT1a receptors on aortic pathologies. *Fourteenth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
  193. de Beer, M.C., J.M. Wroblewski, D.L. Rateri, D.A. Howatt, A. Balakrishnan, A. L.R. Tannock, A. Daugherty, F.C. de Beer, and N.R. Webb. (2013). Lack of endogenous acute phase serum amyloid A does not impact atherosclerotic lipid deposition in apoE  $-/-$  mice. *Fourteenth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
  194. Li, X-A, L. Guo, Z. Zheng, J. Ai, D.A. Howatt, and A. Daugherty. (2013). Scavenger receptor BI is a key determinant and HDL is a critical modulator of thymocyte apoptosis in sepsis. *Fourteenth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
  195. Guo, L., Z. Zheng, D.A. Howatt, A. Daugherty, B. Huang, and X-A Li. (2013). HDL protects against polymicrobial-induced sepsis in mice. *Fourteenth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
  196. Ai, J., Z. Zheng, L. Guo, Z. Song, D.A. Howatt, A. Daugherty, Z. Li, and X-A Li. (2013). Hypercholesterolemia impairs erythropoiesis in an intrinsic scavenger receptor BI deficiency-dependent manner. *Fourteenth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
  197. Liu, S., Z. Xie, A. Daugherty, L.A. Cassis, K. Pearson, M. Gong, Z. Guo. (2013). Mineralocorticoid receptor agonists and salt induce aortic aneurysms in C57BL/6 mice. *Fourteenth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
  198. Zhang, X., R. Cheng, D. Rowe, P. Sethu, G. Yu, A. Daugherty, and H.Y. Shin. (2013). The contributory role of impaired neutrophil fluid shear mechanotransduction in hypercholesterolemia-related dysregulation of microvascular blood flow. *Biomedical Engineering Society Annual Conference*.
  199. Rateri, D.L., D.A. Howatt, A. Balakrishnan, J.J. Moorlegghen, L.A. Cassis, and A. Daugherty. (2014). Adventitial fibroblast depletion of AT1a receptors attenuates AngII-induced ascending and abdominal aortic aneurysms in hyperlipidemic mice. *Fifteenth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
  200. Rateri, D.L., D.A. Howatt, A. Balakrishnan, J. J. Moorlegghen, L.A. Cassis, and A. Daugherty. (2014). Inducible depletion of TGF- $\beta$ 1 exerts differential regional effects on AngII-induced aortic aneurysms. *Fifteenth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
  201. Cassis, L.A., Y. Wang, YJ Al-Sira, A. Daugherty, and S.E. Thatcher. (2014). Sex hormones influence the progression of angiotensin II-induced abdominal aortic aneurysms in hyperlipidemic mice. *Fifteenth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.

202. Thatcher, S.E., F. Yiannikouris, A. Daugherty, and L.A. Cassis. (2014). Diminazene aceturate, an ACE2 activator, decreases AngII-induced atherosclerosis in low density lipoprotein receptor deficient mice. *Fifteenth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
203. Liu, J., H. Lu, D.A. Howatt, A. Balakrishnan, J.J. Moorleghen, M. Sorci-Thomas, L.A. Cassis, and A. Daugherty. (2014). ApoB-containing Lipoproteins contribute to augmentation of AngII-induced abdominal aortic aneurysms. *Fifteenth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
204. Chen, X., D. A. Howatt, A. Balakrishnan, J.J. Moorleghen, L.A. Cassis, A. Daugherty, and H. Lu. (2014). Smooth muscle cell-specific deficiency of ACE attenuates AngI-induced ascending aortic dilation in male LDL receptor *-/-* mice. *Fifteenth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
205. Balakrishnan, A., D.A. Howatt, C. Wu, A.E. Mullick, M.J. Graham, R. M. Crooke, L.A. Cassis, H. Lu, and A. Daugherty. (2014). Angiotensinogen inhibition reduces atherosclerosis and body weight gain induced by high carbohydrate diet. *Fifteenth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
206. Davis, F., C.M. Haggerty, D.L. Rateri, D. A. Howatt, A. Balakrishnan, J.J. Moorleghen, B.K. Fornwalt, D. Strickland, and A. Daugherty. (2014). LRP1 Deficiency in vascular smooth muscle cells augments development of angiotensin II-induced ascending aorta and superior mesenteric artery aneurysms. *Fifteenth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
207. Owens III., A.P., D.A. Howatt, A. Daugherty, and N. Mackman. (2014). Protease-activated receptor 4 deficiency reduces atherosclerosis. *Circulation*.
208. Xiaofeng Chen, X., D.A. Howatt, A. Balakrishnan, J.J. Moorleghen, L. A. Cassis, A. Daugherty, and H. Lu. (2014). Deficiency of angiotensin-converting enzyme in vascular smooth muscle cells reduces hypercholesterolemia-induced atherosclerosis. *Circulation*.
209. Barisione, C., D.L. Rateri., D.A. Howatt, A. Balakrishnan, A. Daugherty, G. Garibotto, G. Ghigliotti, D. Palombo, Domenico , C. Brunelli, Claudio ,J.H. Lindeman, D. Verzola. (2015). Myostatin underlies the association between abdominal aortic aneurysm development and impaired renal function. *International Atherosclerosis Symposium*.
210. Yan, L., B. Gardner, J. Earley, D.L. Rateri, A. Daugherty, M.A. Hofmann Bowman. (2015). FGF23 expression in cardiac fibroblasts is augmented by S100/calgranulins- mediated inflammation and associated with cardiac hypertrophy, but not in angiotensin II-induced cardiac hypertrophy. *Sixteenth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
211. Liu, J. H. Lu, J.J. Moorleghen, D.A. Howatt, A. Balakrishnan, L. A. Cassis, and A. Daugherty. (2015) Reductions of ApoB-containing lipoproteins prevented the progression of established abdominal aortic aneurysms in AngII infused mice. *Sixteenth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
212. Balakrishnan, A., D.A. Howatt, L.A. Cassis, A. Daugherty, and H. Lu. (2015). Hypercholesterolemia induced by a PCSK9 gain-of-function mutation augments AngII-induced AAAs in C57BL/6 mice. *Sixteenth Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
213. Balakrishnan, A., D. A. Howatt, A. Daugherty, and H. Lu (2016). Characteristics of Angiotensin II-induced Abdominal Aortic Aneurysms in Selected Mouse Strains Expressing PCSK9D377Y. *17th Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
214. Moorleghen, J.J., D.A. Howatt, A. Balakrishnan, A. Daugherty, and Hong Lu. (2016). Endothelial Cell-specific Deficiency of ACE Reduces Incidence of AngI-induced Abdominal Aortic Aneurysms in Mice. *17th Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.

215. Sawadi, H., J.J. Moorlegghen, D.L. Rateri, and A. Daugherty. (2016). Angiotensin II Infusion Does Not Influence the Distribution of Cardiac Neural Crest Derived Smooth Muscle Cells in the Ascending Aorta. *17th Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
216. Lu, H., D.A. Howatt, A. Balakrishnan, J. Xiao, D. Strickland, C. Vander Kooi, A. Mullick, M. Graham, A.J. Danser, and A. Daugherty (2016). Megalin Inhibition Regulates Angiotensinogen and Angiotensin II in Mice. *Circulation*.
217. Sawada, H., J.J. Moorlegghen, D.L. Rateri, M.W. Majesky, and A. Daugherty. (2016). Second Heart Field-Derived Smooth Muscle Cells Contribute to Angiotensin II-induced Medial Thickness in the Ascending Aorta. *Circulation*.
218. Sawada, H., D.L. Rateri, M.W. Majesky, and A. Daugherty. (2017). Second Heart Field-derived Smooth Muscle Cells Contributes to Angiotensin II-induced Ascending Aortic Formation. *18th Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
219. Ye, F., A. Daugherty, and H. Lu. (2017) Megalin Regulates Angiotensinogen and Contributes to Atherosclerosis. *18th Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
220. Chen, Z., Sawada, H., D.R. Rateri, A. Daugherty, and M. Sheppard. (2017). Cardiac Cycle Affects Ultrasound Measurements of Ascending Aortic Diameter in a Marfan Mouse Model. *18th Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
221. Ye, F-M., Wu, C-H., Howatt, D.A., Mullick A, Graham M, Vander Kooi C, Danser AHJ, Wang J-A, Daugherty A, **Lu HS**. (2018). Angiotensinogen and megalin interaction contributes to renal angiotensin II production and hypercholesterolemia-induced atherosclerosis. *19th Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.
222. Wu, C.-H., Wu, C-Q., Ye F-M, Howatt DA, Balakrishnan A, Moorlegghen JJ, Vander Kooi C, Daugherty A, **Lu HS**. (2018). Sequences proximate to the renin cleavage site in angiotensinogen do not affect angiotensin II-mediated functions. *19th Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*.

### 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-Agttm1.1Itl/J. The Jackson Laboratory, Bar Harbor, ME. (2013)

### 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](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/>

## RESEARCH SUPPORT

### Present Support

#### Principal Investigator

1. Principal Investigator - "Mechanisms of thoracic aortic aneurysms". National Institutes of Health. \$2,172,669. 04/01/12 - 03/31/18 (NCE).
2. Principal Investigator - "Adventitial-medial interactions in thoracic aortic diseases". \$2,890,490. 07/01/16 - 06/30/20.
3. Program Director. University of Kentucky- Baylor College of Medicine Aortopathy Center. American Heart Association Strategically Focused Network. \$3,709,200. 4/1/18 – 3/30/22.
4. Co-Principal Investigator. (MPI Grant). Atherosclerosis Mechanisms: angiotensin II production and action. National Institutes of Health. \$5/1/18 – 3/31/22. \$1,990,396.
5. Principal Investigator - "Adventitial-medial interactions in thoracic aortic diseases - supplement". \$382,500. 09/20/18 - 06/01/20.
6. Principal Investigator - "Adventitial-medial interactions in thoracic aortic diseases - supplement". \$453,200. 05/30/18 - 06/01/20.

#### Co-Investigator

1. 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.
2. 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
3. Co-Investigator (Principal Investigator – V. Subramanian). Calpains and abdominal aortic aneurysms. National Institutes of Health. \$1,530,000 . 10/10/17 – 06/31/21

#### Sponsor

1. Sponsor (Principal Investigator – Jeff Chen) University of Kentucky CCTS TL1. National Institutes of Health. 09/01/17 – 10/31/18
2. Sponsor (Principal Investigator – Hisashi Sawada). The impact of muscle cell embryonic origin on TGF beta signaling during thoracic aortic aneurysms formation. American Hear Association 07/01/18 – 06/30/20. \$122,960.

### 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 efficacy 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.

## 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 oxidaiton on the development of atherosclerosis. American Heart Association Great Rivers Affiliate. \$50,000. 07/01/12 - 06/30/14.

### 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 (YR 06 no cost extension).
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