Curriculum Vitae

LISA A. CASSIS, Ph.D.

I. General Information

Home Address:	192 Timberlane Ct. Nicholasville, KY 40356	Telephone: (859) 223-3121
Office Address:	Room 521b Wethington Building Department of Pharmacology/Nutritional S 900 S. Limestone Lexington, KY 40536-0200 e-mail: Icassis@uky.edu	
Birthdate:	May 1, 1957	
Spouse:	Robert A. Lodder Children: R. Andrew Lodd Laura Beth Lodo	er (birthdate: 12/29/91) ler (birthdate: 7/15/95)

Specialty Board: Registered Pharmacist, West Virginia, 1980

License Number: 3748

II. Education

<u>Year</u>	Degree	Institution
1980	B.S., Pharmacy	School of Pharmacy, West Virginia University, Morgantown, W.Va.
1984	Ph.D., Pharmacology Mentors: Richard Head, Ph.D. Robert Stitzel, Ph.D.	Department of Pharmacology and Toxicology, College of Medicine, West Virginia University, Morgantown, W.Va.

III. Professional Experiences

<u>Year</u>	Position	Institution
1980-84	Staff Pharmacist	Monongahela Hospital, WV
1984-85	Alexander von Humboldt Postdoctoral Fellowship Mentor: Ullrich Trendelenburg Professor and Chairman	Department of Pharmacology, University of Wurzburg West Germany
1985-88	Postdoctoral Fellow Mentor: Michael Peach, Ph.D. Professor and Dean for Research	Department of Pharmacology, University of Virginia, Charlottesville

	1988-1994	Assistant Professor	College of Pharmacy, University of Kentucky, Lexington
	1994 -2000	Associate Professor	University of Kentucky, Lexington
	2000-	Professor	University of Kentucky, Lexington
IV.	Academic Ap	pointments	
	Year	<u>Title</u>	Institution
	1988-1994	Assistant Professor	University of Kentucky, College of Pharmacy, Division of Pharmacology and Experimental Therapeutics
	1994-2000	Associate Professor	College of Pharmacy, Division of Pharmacology and Experimental Therapeutics
	1998-2000	Associate Professor	College of Pharmacy, Division of Pharmaceutical Sciences
	1994-2000	Associate Professor	Graduate Center for Toxicology, University of Kentucky
	1998-2000	Associate Professor	Nutritional Sciences, University of Kentucky
	2000 -	Professor	Division of Pharmaceutical Sciences, College of Pharmacy; Graduate Center for Toxicology; Division of Endocrinology, Internal Medicine; Nutritional Sciences, University of Kentucky
	2003	Director	Graduate Center for Nutritional Sciences, University of Kentucky
	2007	Chair	Graduate Center for Nutritional Sciences, College of Medicine, University of Kentucky
	2012-2014	Chair	Department of Molecular and Biomedical Pharmacology, College of Medicine, University of Kentucky
	2014	Chair	Department of Pharmacology and Nutritional Sciences
	2014	Interim Vice President for Research	University of Kentucky
	2015	Vice President for Research	University of Kentucky

V. Hospital or Clinical Appointments

Monongahela General Hospital, Hospital Pharmacist, part-time, 1980-84

VI. Consulting Activity

DuPont-Merck Pharmaceuticals, Delaware, 1996 - 1998 Professional witness in the area of pharmacology, Miller, Griffin and Marks law firm, 2000 Medtronic, CA, 2003 Duquesne University, Reviewer of Pharmacy Program, 2007 University of Nebraska, Reviewer of Internal COBRE applications, 2011, 2012

VII. Teaching Activity

1980 - 1984:	Medical school pharmacology, general pharmacology
1988 - 1993:	PHR 852: Cardiovascular, Renal and Pulmonary Pharmacotherapeutics - Course Coordinator, cardiovascular pharmacology, 45 lectures
1989 - 1992:	Cardiovascular and Pulmonary Journal Club, Course Coordinator
1992 - 1995:	PHR 851: Nervous System Pharmacotherapeutics, autonomic pharmacology, 15 lectures
1992 - 1999:	PHR 760-002: Molecular Techniques, molecular biology and recombinant DNA techniques, 4 lectures
1992 - 1998:	PHR 760-002: Molecular Pharmacology, renin angiotensin, aldosterone, and vasopressin systems, 4 lectures
1999 - 2001:	PHR 760, Topics in Pharmaceutical Sciences, 2 lectures, receptor theory
1998 - 2003:	PHR 941: Course Coordinator for Cardiovascular Pharmacotherapeutics, renin angiotensin, hypertension, cardiac arrhythmias, congestive heart failure, 35 lectures
2000 - 2003:	PHA 634, Cardiovascular Pharmacology, 4 lectures, the renin- angiotensin system
2001 - 2003:	PHR 760, Advanced Cardiovascular Pharmacology, 1 credit, course coordinator, 10 lectures
2002, 2008:	PHA 621, Advanced Principles of Drug Action, 2 lectures, Quantification of Ligand Receptor Interactions
2003	NS/CNU Nutrition and Chronic Diseases, 2 lectures, The Metabolic Syndrome
2003 - 2005:	NS601, Macronutrient Metabolism, Course coordinator, 15 lectures
2004 :	PHR 760-008, Drug Targets and Actions, 4 lectures
2004 :	NS607, Food Related Behaviors, 1/3rd of course
2005 - 2008:	NS701, Nutrition and Chronic Disease, Course coordinator, 15 lectures
2007 - :	NS601, Macronutrient Metabolism, 4 lectures
2009 - 2012:	NS602, Micronutrient Metabolism, 2 lectures

2009 - 2011: NS771, Graduate Seminar, Course Coordinator
2011,12 : MD825, Nutrition for Physicians 2, Course
Coordinator
2014 : IBS608 minicourse, Nutrition and Hypertension, 1 lecture
2014 - 2015: PHA622, Advanced Pharmacology, the renin-angiotensin system, 4 lectures

VIII.Advising Activity

Undergraduate Students:

1989 - 1990: Cynthia Osborne (recipient of Pharmacology Award) 1990 - 1991: Alison Summers (recipient of Rho Chi Research Award) 1990 - 1991: Douglas Parrish (recipient of Upjohn Research 1992 - 1993: Richard Hayden 1992 - 1993: Ann Marie Bercaw 1992 - 1993: Ann Marie Bercaw 1992 - 1994: Douglas Joyce (recipient of Upjohn Research Award, American Association of Colleges of Pharmacy Undergraduate Research Award) 1993 - 1994: Todd Price 1994 - 1995: Julie Yates (recipient of Howard Hughes Undergraduate research award) 1994 - 1995: Julie Yates (recipient of Howard Hughes Undergraduate research award) 1995 - 1995: Jury Dyer (recipient of Howard Hughes Undergraduate research award) 1996 Dana Marshall (recipient of Howard Hughes Undergraduate research award) 1996 Dana Marshall (recipient of Howard Hughes summer high school teacher research initiative) 1996 Brent Ferguson (recipient of Howard Hughes summer high school teacher research initiative) 2000 Crystal Cox, undergraduate at LK, independent study 2011 Delana Hopkins, AHA summer fellowship 2021 Delana Hopkins, AHA summer fellowship 2021 Delana Hopkins, AHA summer fellowship	1988 - 1989:	Cindy Stowe (recipient of Upjohn Research Award, Rho Chi Research Award)
Award)1990 - 1991: Douglas Parrish (recipient of Upjohn Research Award)1992 - 1993: 1992 - 1993: 	1989 - 1990:	Cynthia Osborne (recipient of Pharmacology Award)
1989 - 1991:Douglas Parrish (recipient of Upjohn Research Award) 1991 - 1992:1992 - 1993:Ann Marie Bercaw1992 - 1993:Ann Marie Bercaw1992 - 1994:Douglas Joyce (recipient of Upjohn Research Award, American Association of Colleges of Pharmacy Undergraduate Research Award)1993 - 1994:Todd Price1994 - 1995:Julie Yates (recipient of Howard Hughes undergraduate research award) 1994 - 1995:1995 - 1995:Julie Yates (recipient of Howard Hughes Undergraduate research ersearchaward)Dana Marshall (recipient of Howard Hughes Undergraduate research award)1996Dana Marshall (recipient of Howard Hughes Undergraduate research award)1996Dana Marshall (recipient of Howard Hughes summer high school teacher research initiative)1997Amy Laughter (recipient of Howard Hughes summer high school teacher research initiative)2000Kathy Heid, undergraduate at UK, independent study2011Delana Hopkins, AHA summer fellowship2022Delana Hopkins, AHA summer fellowship2023Stephanie Stolberg, Graduate Center for Toxicology Summer Fellowship2024Delana Hopkins, AHA summer fellowship203Stephanie Stolberg, Graduate Center for Toxicology Summer Annie Nsatoah, Ag Biotech2008Charlotte Walter, Medical Student Paul Cassis, biology major2010Haware, Ag Biotech2021Taina Bayeras, Graduate research supplement 4dijatou Bayo, ARRA undergraduate research supplement203Stephanie Stolberg, Graduate research supplement2041Stephanie Stolberg, Gra		
1992 - 1993:Ann Marie Bercaw1992 - 1994:Douglas Joyce (recipient of Upjohn Research Award, American Association of Colleges of Pharmacy Undergraduate Research Award)1993 - 1994:Todd Price1994 - 1995:Julie Yates (recipient of Howard Hughes undergraduate research award) 1995 - 1995:award) 1996Parce1996Dana Marshall (recipient of Howard Hughes Undergraduate researchaward)Dana Marshall (recipient of Howard Hughes Undergraduate research award)1996Brent Ferguson (recipient of Howard Hughes summer high school teacher research initiative)1997Amy Laughter (recipient of Howard Hughes summer high school teacher research initiative)2000Crystal Cox, undergraduate at Asbury College 20002001Delana Hopkins, AHA summer fellowship2011Delana Hopkins, AHA summer fellowship2022Tania Barreras, Graduate Center for Toxicology Summer Fellowship2033Stephanie Stolberg, Graduate Center for Toxicology Summer Kavita Traveti, Kentucky Undergraduate Summer Fellowship2007Kathy Haid, undergraduate Center for Toxicology Summer Kavita Traveti, Kentucky Undergraduate Summer fellowship2003Charlotte Walter, Medical Student Hadijatou Bayo, ARRA undergraduate research supplement Haddijatou Bayo, ARRA undergraduate research supplement Andrew Cassis, biology major Tom Gardner, Kentucky State University Of Grisselle Martinez, University o	1989 - 1991:	Douglas Parrish (recipient of Upjohn Research
1992 - 1993:Ann Marie Bercaw1992 - 1994:Douglas Joyce (recipient of Upjohn Research Award, American Association of Colleges of Pharmacy Undergraduate Research Award)1993 - 1994:Todd Price1994 - 1995:Julie Yates (recipient of Howard Hughes undergraduate research award) 1995 - 1995:award) 1996Parce1996Dana Marshall (recipient of Howard Hughes Undergraduate researchaward)Dana Marshall (recipient of Howard Hughes Undergraduate research award)1996Brent Ferguson (recipient of Howard Hughes summer high school teacher research initiative)1997Amy Laughter (recipient of Howard Hughes summer high school teacher research initiative)2000Crystal Cox, undergraduate at Asbury College 20002001Delana Hopkins, AHA summer fellowship2011Delana Hopkins, AHA summer fellowship2022Tania Barreras, Graduate Center for Toxicology Summer Fellowship2033Stephanie Stolberg, Graduate Center for Toxicology Summer Kavita Traveti, Kentucky Undergraduate Summer Fellowship2007Kathy Haid, undergraduate Center for Toxicology Summer Kavita Traveti, Kentucky Undergraduate Summer fellowship2003Charlotte Walter, Medical Student Hadijatou Bayo, ARRA undergraduate research supplement Haddijatou Bayo, ARRA undergraduate research supplement Andrew Cassis, biology major Tom Gardner, Kentucky State University Of Grisselle Martinez, University o	Award) 1991 - 1992:	Richard Hayden
Association of College's of Pharmácy Undergraduate Research Award) 1993 - 1994: Todd Price 1994 - 1995: Julie Yates (recipient of Howard Hughes undergraduate research award) 1996 Ann Tran Jerry Dyer (recipient of Howard Hughes Undergraduate research award) 1996 Erica Murrell (recipient of Howard Hughes Undergraduate research award) 1996 Dana Marshall (recipient of Howard Hughes Undergraduate research award) 1996 Brent Ferguson (recipient of Howard Hughes summer high school teacher research initiative) 1997 Amy Laughter (recipient of Howard Hughes summer high school teacher research initiative) 2000 Kathy Heid, undergraduate at Asbury College 2000 Crystal Cox, undergraduate at Asbury College 2000 Crystal Cox, undergraduate Center for Toxicology Summer Fellowship 2011 Delana Hopkins, AHA summer fellowship 2022 Dana Barreras, Graduate Center for Toxicology Summer Fellowship 2020 Sarah Thayer, Ag Biotech 2006 Sarah Thayer, Ag Biotech 2009 Charle Traveti, Kentucky Undergraduate research supplement 2010 Annie Nasloah, Ag Biotech 2009 Janelle Geddes, ARRA undergraduate research supplement 2010 Charlotte Walter, Medical Student 2010 Sarah Thayer, Ag Biotech 2010 Charlotte Walter, Medical Student 2010 Stephanie Stology major 2019 Janelle Geddes, ARRA undergraduate research supplement 2010 Charlotte Walter, Medical Student 2010 Charlotte Walter, Medical Student 2011 Stephen Bishop, ARRA undergraduate research supplement 2012 Consealle Martinez, University of Puerto Rico 2014-15 Shannon Woody, University of Kentucky (1 st place winner, Aq-	1992 - 1993:	
1993 - 1994:Todd Price1994 - 1995:Julie Yates (recipient of Howard Hughes undergraduate researchaward)1994 - 1995:award)Jerry Dyer (recipient of Howard Hughes Undergraduate researchaward)Erica Murrell (recipient of Howard Hughes Undergraduateresearchaward)1996Dana Marshall (recipient of Howard Hughes Summer high school teacher research initiative)1996Brent Ferguson (recipient of Howard Hughes summer high school teacher research initiative)1997Amy Laughter (recipient of Howard Hughes summer high school teacher research initiative)2000Kathy Heid, undergraduate at Asbury College2000Crystal Cox, undergraduate at UK, independent study2011Delana Hopkins, AHA summer fellowship2022Delana Hopkins, AHA summer fellowship2033Stephanie Stolberg, Graduate Center for Toxicology Summer Fellowship2041Stephanie Stolberg, Graduate Center for Toxicology Summer2050Kavita Traveti, Kentucky Undergraduate Summer Fellowship2061Stephanie Stolberg, Graduate Center for Toxicology Summer2071Annie Nsatoah, Ag Biotech2080Charlotte Walter, Medical Student2099Janelle Geddes, ARRA undergraduate research supplement2010Tania Barreras, biology major2011Tanyah Pipkin, high school student, STEP-UP NIH Program,2012Tom Gardner, Kentucky State University2013Grisselle Martinez, University of Kentucky (1st place winner, Ag-	1992 - 1994:	Association of Colleges of Pharmacy Undergraduate Research
1994 - 1995: award) 1994 - 1995:Julie Yates (recipient of Howard Hughes undergraduate research Ann Tran Jest- 1995: award) 1996award) 1996 researchJerry Dyer (recipient of Howard Hughes Undergraduate research award)1996Dana Marshall (recipient of Howard Hughes Undergraduate research award)1996Dana Marshall (recipient of Howard Hughes Undergraduate research award)1996Brent Ferguson (recipient of Howard Hughes summer high school teacher research initiative)1997Amy Laughter (recipient of Howard Hughes summer high school teacher research initiative)2000Kathy Heid, undergraduate at Asbury College2000Crystal Cox, undergraduate at Asbury College2001Delana Hopkins, AHA summer fellowship2002Tania Barreras, Graduate Center for Toxicology Summer Fellowship2003Stephanie Stolberg, Graduate Center for Toxicology Summer Kavita Traveti, Kentucky Undergraduate Summer Fellowship2007Kaita Traveti, Kentucky Undergraduate Summer Fellowship2007Annie Nasoa, Ag Biotech2009Crystal Codes, ARRA undergraduate research supplement Haddijatou Bayo, ARRA undergraduate research supplement2010Tania Barreras, biology major2011Traveti, Kentucky State University Grisselle Martinez, University of Puerto Rico2011Tamyah Pipkin, high school student, STEP-UP NIH Program, Marker Agas, biology major2019Janelle Geddes, ARRA undergraduate research supplement Tamyah Pipkin, high school student, STEP-UP NIH Program, Stephen Bishop, ARRA undergraduate research supplement Andrew Cassis, biology major<	1993 - 1994:	Award) Todd Price
1995: Jerry Dyer (recipient of Howard Hughes Undergraduate research eresearchaward) 1996Erica Murrell (recipient of Howard Hughes Undergraduate research award)1996Dana Marshall (recipient of Howard Hughes Undergraduate research award)1996Brent Ferguson (recipient of Howard Hughes summer high school teacher research initiative)1997Amy Laughter (recipient of Howard Hughes summer high school teacher research initiative)2000Kathy Heid, undergraduate at Asbury College 20002001Delana Hopkins, AHA summer fellowship2011Delana Hopkins, AHA summer fellowship2022Delana Hopkins, Graduate Center for Toxicology Summer Fellowship203Stephanie Stolberg, Graduate Center for Toxicology Summer Fellowship2002Tania Barreras, Graduate Center for Toxicology Summer Fellowship2003Stephanie Stolberg, Graduate Center for Toxicology Summer Fellowship2004Kavita Traveti, Kentucky Undergraduate Summer fellowship)2005Kavita Traveti, Kentucky Undergraduate Summer fellowship)2007Annie Natoah, Ag Biotech2008Charlotte Walter, Medical Student2009Janelle Geddes, ARRA undergraduate research supplement2010Tamyah Pipkin, high school student, STEP-UP NIH Program, NIDDK 20112011Andrew Cassis, biology major2012Tom Gardner, Kentucky State University Grisselle Martinez, University of Puerto Rico Shannon Woody, University of Kentucky (1st place winner, Ag-	1994 - 1995:	Julie Yates (recipient of Howard Hughes undergraduate research
award) 1996 researchErica Murrell (recipient of Howard Hughes Undergraduate research award)1996Dana Marshall (recipient of Howard Hughes Undergraduate research award)1996Brent Ferguson (recipient of Howard Hughes summer high school teacher research initiative)1997Amy Laughter (recipient of Howard Hughes summer high school teacher research initiative)2000Kathy Heid, undergraduate at Asbury College Crystal Cox, undergraduate at Asbury College2001Delana Hopkins, AHA summer fellowship2002Erin Burke, Pharmaceutical Sciences Summer Fellowship2003Delana Hopkins, AHA summer fellowship2004Jennifer Delago, Graduate Center for Toxicology Summer Fellowship2005Stephanie Stolberg, Graduate Center for Toxicology Summer Kavita Traveti, Kentucky Undergraduate Summer Fellowship2007Constant Anger, Ag Biotech2008Charlotte Walter, Medical Student2009Janelle Geddes, ARRA undergraduate research supplement2010Tamyah Pipkin, high school student, STEP-UP NIH Program, NIDDK 20112011Tamyah Pipkin, high school student, STEP-UP NIH Program, MIDDK 20112012Tom Gardner, Kentucky State University Orisselle Martinez, University of Puerto Rico Shannon Woody, University of Kentucky (1st place winner, Ag-	award) 1994 - 1995:	
researchaward)1996Dana Marshall (recipient of Howard Hughes Undergraduate research award)1996Brent Ferguson (recipient of Howard Hughes summer high school teacher research initiative)1997Amy Laughter (recipient of Howard Hughes summer high school teacher research initiative)2000Kathy Heid, undergraduate at Asbury College2000Crystal Cox, undergraduate at Asbury College2001Delana Hopkins, AHA summer fellowship2001Delana Hopkins, AHA summer fellowship2002Delana Hopkins, AHA summer fellowship2003Stephanie Stolberg, Graduate Center for Toxicology Summer Fellowship2002Delana Hopkins, AHA summer fellowship2003Stephanie Stolberg, Graduate Center for Toxicology Summer Fellowship2004Stephanie Stolberg, Graduate Center for Toxicology Summer Fellowship2005Kavita Traveti, Kentucky Undergraduate Summer Fellow2006Sarah Thayer, Ag Biotech2007Annie Nsatoah, Ag Biotech2008Charlotte Walter, Medical Student2009Janelle Geddes, ARRA undergraduate research supplement2010, 2011Tamyah Pipkin, high school student, STEP-UP NIH Program, NIDDK 20112011Andrew Cassis, biology major2012Tom Gardner, Kentucky State University Grisselle Martinez, University of Puerto Rico2013Grisselle Martinez, University of Ventucky (1st place winner, Ag-		Erica Murrell (recipient of Howard Hughes Undergraduate
1996Dana Marshall (recipient of Howard Hughes Undergraduate research award)1996Brent Ferguson (recipient of Howard Hughes summer high school teacher research initiative)1997Amy Laughter (recipient of Howard Hughes summer high school teacher research initiative)2000Kathy Heid, undergraduate at Asbury College2000Crystal Cox, undergraduate at UK, independent study2011Delana Hopkins, AHA summer fellowship2022Delana Hopkins, AHA summer fellowship2031Jennifer Delago, Graduate Center for Toxicology Summer Fellowship2002Delana Hopkins, AHA summer fellowship2003Stephanie Stolberg, Graduate Center for Toxicology Summer Fellowship2004Stephanie Stolberg, Graduate Center for Toxicology Summer2005Faina Barreras, Graduate Center for Toxicology Summer2006Sarah Thayer, Ag Biotech (recipient of an AHA summer fellowship)2007Annie Nsafoah, Ag Biotech2008Charlotte Walter, Medical Student2009Janelle Geddes, ARRA undergraduate research supplement2010Tamyah Pipkin, high school student, STEP-UP NIH Program, NIDDK 20112011Andrew Cassis, biology major2012Tom Gardner, Kentucky State University Grisselle Matinez, University of Puerto Rico2011Stephen Bishop, ARRA undergraduate research supplement Andrew Cassis, biology major2018Grisselle Matinez, University of Puerto Rico2014-15Shannon Woody, University of Kentucky (1st place winner, Ag-	research	
1996Brent Ferguson' (recipient of Howard Hughes summer high school teacher research initiative)1997Amy Laughter (recipient of Howard Hughes summer high school teacher research initiative)2000Kathy Heid, undergraduate at Asbury College2000Crystal Cox, undergraduate at UK, independent study2001Delana Hopkins, AHA summer fellowship2001Erin Burke, Pharmaceutical Sciences Summer Fellowship2002Delana Hopkins, AHA summer fellowship2003Stephanie Stolberg, Graduate Center for Toxicology Summer Fellowship2004Stephanie Stolberg, Graduate Center for Toxicology Summer2005Kavita Traveti, Kentucky Undergraduate Summer Fellow2006Sarah Thayer, Ag Biotech (recipient of an AHA summer fellowship)2007Annie Nsafoah, Ag Biotech2009Paul Cassis, biology major2010Janelle Geddes, ARRA undergraduate research supplement2011Tamyah Pipkin, high school student, STEP-UP NIH Program,2012Tom Gardner, Kentucky State University2013Grisselle Martinez, University of Puerto Rico2014-15Shannon Woody, University of Kentucky (1st place winner, Ag-	1996	
school teacher research initiative)199719971997199720002000200020002001201120212022203320312041205220532054205420552055205620572058205920592051205120512052205320542054205520552056205720572058205920592051205120522053205420542055205520562057205720582059205920512051205220532054205420552055205620572057205820592059205920512052205320542054205420552055205620572058205920592059205120512052205320542054<	1006	
1997Amy Laughter (recipient of Howard Hughes summer high school teacher research initiative)2000Kathy Heid, undergraduate at Asbury College2000Crystal Cox, undergraduate at UK, independent study2001Delana Hopkins, AHA summer fellowship2001Delana Hopkins, AHA summer for Toxicology Summer Fellowship2002Delana Hopkins, AHA summer fellowship2003Stephanie Stolberg, Graduate Center for Toxicology Summer Fellowship2003Stephanie Stolberg, Graduate Center for Toxicology Summer2006Sarah Thayer, Ag Biotech (recipient of an AHA summer fellowship)2007Annie Nsafoah, Ag Biotech2008Charlotte Walter, Medical Student2009Janelle Geddes, ARRA undergraduate research supplement2010Tamiya Pipkin, high school student, STEP-UP NIH Program, NIDDK 20112011Stephen Bishop, ARRA undergraduate research supplement2012Tom Gardner, Kentucky State University Or Stephen Bishop, ARRA undergraduate research supplement2013Grisselle Martinez, University of Fuerto Rico Shannon Woody, University of Kentucky (1st place winner, Ag-	1990	school teacher research initiative)
2000Kathy Heid, undergraduaté at Asbury College2000Crystal Cox, undergraduaté at UK, independent study2001Delana Hopkins, AHA summer fellowship2001Erin Burke, Pharmaceutical Sciences Summer Fellowship2002Delana Hopkins, AHA summer fellowship2003Jennifer Delago, Graduate Center for Toxicology Summer Fellowship2004Stephanie Stolberg, Graduate Center for Toxicology Summer2005Kavita Traveti, Kentucky Undergraduate Summer Fellow2006Sarah Thayer, Ag Biotech2007Annie Nsafoah, Ag Biotech2008Charlotte Walter, Medical Student2009Janelle Geddes, ARRA undergraduate research supplement2010Tamyah Pipkin, high school student, STEP-UP NIH Program,2011Andrew Cassis, biology major2012Tom Gardner, Kentucky State University2013Grisselle Martinez, University of Puerto Rico202Stephen Bishop, ARRA undergraduate research supplement	1997	Amy Laughter (recipient of Howard Hughes summer high school
2000Crystal Cox, undergraduate at UK, independent study2001Delana Hopkins, AHA summer fellowship2001Erin Burke, Pharmaceutical Sciences Summer Fellowship2001Jennifer Delago, Graduate Center for Toxicology Summer Fellowship2002Delana Hopkins, AHA summer fellowship2003Stephanie Stolberg, Graduate Center for Toxicology Summer2006Kavita Traveti, Kentucky Undergraduate Summer Fellow2007Stephanie Stolberg, Graduate Center for Toxicology Summer2008Erika Namay, Ag Biotech2009Janelle Geddes, ARRA undergraduate research supplement2010, 2011Tamyah Pipkin, high school student, STEP-UP NIH Program, Andrew Cassis, biology major2010Stephen Bishop, ARRA undergraduate research supplement201Andrew Cassis, biology major201Tom Gardner, Kentucky State University Grisselle Martinez, University of Puerto Rico2014-15Shannon Woody, University of Kentucky (1st place winner, Ag-	2000	Kathy Heid, undergraduate at Asbury College
2001Erin Burke, Pharmaceutical Sciences Summer Fellowship2001Jennifer Delago, Graduate Center for Toxicology Summer Fellowship2002Delana Hopkins, AHA summer fellowship2003Tania Barreras, Graduate Center for Toxicology Summer Fellowship2003Stephanie Stolberg, Graduate Center for Toxicology Summer2004Kavita Traveti, Kentucky Undergraduate Summer Fellow2005Sarah Thayer, Ag Biotech (recipient of an AHA summer fellowship)2007Annie Nsafoah, Ag Biotech2008Erika Namay, Ag Biotech2009Janelle Geddes, ARRA undergraduate research supplement2010, 2011Tamyah Pipkin, high school student, STEP-UP NIH Program,2012Stephane Bishop, ARRA undergraduate research supplement2013Grisselle Martinez, University of Puerto Rico2014-15Shannon Woody, University of Kentucky (1st place winner, Ag-	2000	Crystal Cox, undergraduate at UK, independent study
 2001 2002 2002 2003 Fellowship 2005 2006 2007 2007 2008 2008 2009 2009 2009 2009 2009 2009 2010 2010 2010 2011 2011 2011 2012 2013 2014-15 2011 2012 2012 2014-15 2011 2012 2012 2014-15 2014 2014 2014 2014 2014 2015 2014 2015 2014 2014 2014 2015 2014 2014 2014 2014 2015 2014 2014 2015 2014 2015 2016 2016 2017 2017 2018 2019 2019 2019 2014 2014 2016 2016 2016 2017 2016 2016 2017 2017 2018 2019 2014 2014 2014 2014 2014 <		Erin Burke, Pharmaceutical Sciences Summer Fellowship
 2002 2003 Fellowship 2005 2006 2007 2007 2007 2007 2008 2008 2008 2009 2009 2009 2010 2010 2010 2011 2011 2011 2012 2013 2014-15 2012 2014-15 2002 2003 2005 2005 2006 2006 2007 2007 2008 2009 2009 2010 2010 2010 2011 2012 2013 2014-15 2012 2014-15 2012 2014-15 2012 2014-15 2014-15 2012 2014-15 2015 2014-15 2015 2014-15 2014-	2001	Jennifer Delago, Graduate Center for Toxicology Summer Fellowship
 Stephanie Stolberg, Graduate Center for Toxicology Summer Fellowship 2005 2006 2007 2007 2007 2008 2008 2009 2009 2010 2010 2010 2010 2010 2010 2011 2011 2011 2012 2013 2014-15 2013 2013 2013 2013 2013 2013 2013 2014-15 2014-15 2015 2016 2016 2017 2018 2019 2019 2010 2011 2011 2012 2014-15 2015 2014-15 2016 2016 2016 2017 2018 2019 2019 2019 2010 2014 2010 2014 2010 2014 2014 2014 2014 2015 2014 2014 2014 2014 2015 2014 		
Fellowship 2005Kavita Traveti, Kentucky Undergraduate Summer Fellow Sarah Thayer, Ag Biotech (recipient of an AHA summer fellowship)2007Annie Nsafoah, Ag Biotech2007, 2008Erika Namay, Ag Biotech2008Charlotte Walter, Medical Student2009Janelle Geddes, ARRA undergraduate research supplement2010Janelle Geddes, ARRA undergraduate research supplement2010, 2011Tamyah Pipkin, high school student, STEP-UP NIH Program, Stephen Bishop, ARRA undergraduate research supplement2011Stephen Bishop, ARRA undergraduate research supplement2012Tom Gardner, Kentucky State University Grisselle Martinez, University of Puerto Rico2014-15Shannon Woody, University of Kentucky (1st place winner, Ag-	2002	Stephanie Stolberg, Graduate Center for Toxicology Summer
2007Annie Nsafoah, Ag Biotech2007, 2008Erika Namay, Ag Biotech2008Charlotte Walter, Medical Student2009Janelle Geddes, ARRA undergraduate research supplement2010Janelle Geddes, ARRA undergraduate research supplement2010, 2011Tamyah Pipkin, high school student, STEP-UP NIH Program,NIDDK 2011Stephen Bishop, ARRA undergraduate research supplement2012Tom Gardner, Kentucky State University2013Grisselle Martinez, University of Puerto Rico2014-15Shannon Woody, University of Kentucky (1st place winner, Ag-	Fellowship 2005	Kavita Traveti, Kentucky Undergraduate Summer Fellow
 2007, 2008 2008 2009 2009 2010 2010 2010 2010 2011 2011 2012 2012 2013 2014-15 2017, 2018 2018 2019 2019 2010 2010 2010 2011 2011 2012 2013 2014-15 2017 2018 2019 2019 2010 2010 2011 2011 2012 2012 2013 2014-15 2010 2011 2012 2014-15 2014 2015 2014 2017 2018 2014 2019 2014 2014 2014 2014 2014 2014 2015 2014 2015 2014 <	2006	Annie Nsafoah, Ag Biotech
2009Paul Cassis, biology major2009Janelle Geddes, ARRA undergraduate research supplement2010Haddijatou Bayo, ARRA undergraduate research supplement2010, 2011Tamyah Pipkin, high school student, STEP-UP NIH Program,NIDDK 2011Stephen Bishop, ARRA undergraduate research supplement2012Andrew Cassis, biology major2013Tom Gardner, Kentucky State University2014-15Shannon Woody, University of Kentucky (1st place winner, Ag-	2007, 2008	Erika Namay, Ag Biotech
2009Janelle Geddes, ARRA undergraduate research supplement2010Haddijatou Bayo, ARRA undergraduate research supplement2010, 2011Tamyah Pipkin, high school student, STEP-UP NIH Program,NIDDK 2011Stephen Bishop, ARRA undergraduate research supplement2011Andrew Cassis, biology major2012Tom Gardner, Kentucky State University2013Grisselle Martinez, University of Puerto Rico2014-15Shannon Woody, University of Kentucky (1st place winner, Ag-	2008	Charlotte Walter, Medical Student Paul Cassis, biology major
2010Haddijatou Bayo, ARRA undergraduate research supplement2010, 2011Tamyah Pipkin, high school student, STEP-UP NIH Program,NIDDK 2011Stephen Bishop, ARRA undergraduate research supplement2011Andrew Cassis, biology major2012Tom Gardner, Kentucky State University2013Grisselle Martinez, University of Puerto Rico2014-15Shannon Woody, University of Kentucky (1st place winner, Ag-	2009	Janelle Geddes, ARRA undergraduate research supplement
NIDDK 2011Stephen Bishop, ARRA undergraduate research supplement2011Andrew Cassis, biology major2012Tom Gardner, Kentucky State University2013Grisselle Martinez, University of Puerto Rico2014-15Shannon Woody, University of Kentucky (1st place winner, Ag-		Haddijatou Bayo, ARRA undergraduate research supplement
2011Andrew Cassis, biology major2012Tom Gardner, Kentucky State University2013Grisselle Martinez, University of Puerto Rico2014-15Shannon Woody, University of Kentucky (1st place winner, Ag-	NIDDK 2011	Stephen Bishop, ARRA undergraduate research supplement
2013 Grisselle Martinez, University of Puerto Rico 2014-15 Shannon Woody, University of Kentucky (1 st place winner, Ag-	2011	Andrew Cassis, biology major
2014-15 Shannon Woody, University of Kentucky (1 st place winner, Ag-		Grisselle Martinez, University of Puerto Rico
Biotech research presentations)		Shannon Woody, University of Kentucky (1 st place winner, Ag-
2019 Jonny Liong, University of Kentucky	2010	Biotech research presentations)
2018Jenny Liang, University of Kentucky2019Jenny Liang, University of Kentucky, recipient of AHA undergraduate		

2019 research fellowship Nicole Bacha, University of Kentucky (1st place winner, Ag-Biotech research presentations)

Undergraduate Advisor:

1989 - 1994: Rho Chi Pharmacy Honor Society

Graduate Student Advisor:

<u>Major Advisor:</u> 1992 - 1995: Ujjwala Samant (Ph.D., Pharmaceutical Sciences) 1995 - 1999: Vicky King (Ph.D., recipient of NIH NRSA predoctoral fellowship, Pharmaceutical Sciences) Scott Akers (Ph.D., recipient of AFPE predoctoral fellowship; 1995 - 1998: Department of Pharmaceutical Sciences) Brady Rosenbluth (M.S., Department of Pharmaceutical Sciences) 1997 -Gerome Burke (Ph.D., recipient of NIH NRSA predoctoral fellowship; Graduate Center for Toxicology) 1996 **-** 1998: 2004 Carine Boustany, Ph.D., 2nd place recipient of Gill Heart Research Award, 2002, recipient of AHA predoctoral fellowship; Department of 2001 - 2004 Pharmaceutical Sciences 2002 - 2006 Kalyani Bharadwaj, Ph.D., recipient of ATVB travel award, 2003, recipient of AHA predoctoral fellowship ship award; Department of Pharmaceutical Sciences Tracy Henriques, Ph.D., 1st place recipient of Gill Heart Research Award, 2002; recipient of AHA predoctoral fellowship; Graduate Center for Toxicology Sara Police, Ph.D., recipient of ATVB travel award, 2005; recipient of AHA predoctoral award; recipient of USDA Predoctoral Fellowship award; Graduate Center for Nutritional Sciences Manisha Gupte, Ph.D., 1st place recipient of Gill Heart Research Award, 2007; recipient of AHA predoctoral award, Graduate Center for Nutritional Sciences 2002 - 2005 2004 - 2008 2005 - 2010 Sciences Xuan Zhang, Ph.D., 4th place recipient of CV Research Day Award, 2009; 1st place recipient of Angiogenesis Research Day Award; recipient of AHA predoctoral award, Graduate Center for Toxicology Kelly Putnam, recipient of cardiovascular training grant fellowship; recipient of 2nd place student award for CV research day, 2010, recipient of AHA predoctoral award, Graduate Center for Nutritional Sciences, recipient of Angiotensis Conference Travel Award, 2012 2005-2010 2008-2012 Angiotensin Gordon Conference Travel Award, 2012 Madhura Parulkar, Graduate Center for Nutritional Sciences 2009-2011 Nicky Baker, Graduate Center for Nutritional Sciences Nicky Baker, Graduate Center for Nutritional Sciences, recipient of nutritional sciences training grant fellowship, 3rd place recipient Barnstable Brown Diabetes Obesity Research Day, NIEHS Karen Wetterhan Excellence in Superfund Research Award, 2013 Robin Shoemaker, Graduate Center for Nutritional Sciences, recipient of AHA predoctoral award, 2nd place recipient Barnstable Brown Diabetes Obesity Research Day, 1st place recipient Barnstable Brown Diabetes Obesity Research Day, 2014 AHA Council for High Blood Pressure Research Travel Award 2009-2013 2010-2015 Travel Award Yu Wang, Graduate Center for Nutritional Sciences, 1st place recipient Barnstable Brown Diabetes Obesity Research Day, 2nd place recipient, Barnstable Brown Diabetes Obesity Research Day, UK Graduate School Fellowship, American Heart Association Predoctoral Fellowship 2012-2016 Yasir Alsiraj, Department of Molecular and Biomedical Pharmacology, American Heart Association Predoctoral Fellowship, 2nd place recipient, Barnstable Brown Diabetes Obesity Research Day, Travel Award (ATVB), Travel Award (OSSD), First place Cardiovascular Research Day Poster Graduate Student Competition 2013-2017 Nika Larian, 2nd place recipient (staff), Barnstable Brown Diabetes Obesity Research Day, Reidy Graduate Scholarship, NIH T32 Training 2015-2019 Program Fellow, Biomedical Graduate Research Fellow <u>Co-advisor:</u>

1998 - 2001: Bruce Waldrop

1998 - 2000: Stephen Phipps

2009 - 2010: Tao Tang

Graduate Student Committees:

	dent Committees:
1988 - 1991:	Cheryl Haven
1988 - 1991:	Schwan Aziz
1989 - 1991:	Yadong Zho
1989 - 1992:	Robert Mansfield
1989 - 1992:	Jeffrey_Hughes
1989 - 1993:	Steve Toler
1992 - 1994:	Anjali Vyas
1992 - 1994:	Kevin Harrod
1992 - 1994:	Brenda Cronise
1993 - 1995:	Chiung-Ying Huang
1993 - 1995:	Ruihau Chen
1993 - 1994:	Karen Pirc (M.S., Graduate Center for Toxicology) 1994 -
1997:	Yue Zhang
1994 - 1998:	Robert Buice
1995 - 2001:	Lincoln Wilkins
1995 - 1997:	LiHong Peng
1996 - 2000:	Stephen Phipps (co-advisor)
1996 - 2001:	Bruce Waldrop (co-advisor)
1999 - 2001:	Amy Johnson
1999 - 2002:	Michael Manning (Department of Physiology) 1999 -
2003	Lisa Ringelberg
2000 - 2001:	Eric Kilpătrick (Department of Physiology)
2000 - 2003:	Dan Chaloworth (Department of Pharmacology) 2002 -
2005:	Lu-Chin Lien (Graduate Center for Toxicology) 2002 -
2005:	Jing Huang (Graduate Center for Toxicology)
2002 - 2006:	Darshini Travedi (Department of Pharmaceutical Sciences) 2004 -
2006: 2008:	Marcie Cole, (Graduate Center for Nutritional Sciences) 2004 -
2008. 2004 - 2008:	Phillip Owens (Graduate Center for Toxicology) Wei Fei (Graduate Center for Nutritional Sciences) 2007 -
2004 - 2000. 2008:	Jill Cholewa (Graduate Center for Nutritional Sciences) 2007 -
2010:	Xia Li (Graduate Center for Nutritional Sciences)
2007 - 2009:	Tao Tang (Graduate Center for Nutritional Sciences) 2007
2007 - 2005.	Vidya Narayanaswami (Pharmaceutical Sciences) 2007 -
2010:	Megan Bardgett (Physiology)
2008 - 2011:	Jingjing Liu (Pharmaceutical Sciences)
2007 - 2009:	Melissa Zack (Graduate Center for Nutritional Sciences) 2008 -
2012:	Nicholas Hatch (Graduate Center for Nutritional Sciences)
2008 - 2010:	Akin Akinmusire (M.S., Graduate Center for Nutritional Sciences) 2008 -
2010:	Violeta Arsenescu (Graduate Center for Nutritional Sciences) 2008
	Amy Calderon (Molecular Pharmacology)
2008 :	Mingming Zhao (Graduate Center for Nutritional Sciences) 2009
:	Sucharită Sen (Pharmaceutical Sciences)
2010 - 2010:	Candice Thomas (Graduate Center for Nutritional Sciences) 2010
:	Susan Oyen (Graduate Center for Toxicology)
2011 :	Thy Nguyen (Chemistry/Physics) 2011
	Brittney Metts (Chemistry/Physics)
2011 - 2014:	Katryn Eske (Graduate Center for Nutritional Sciences) 2011 -
2015:	Maggie Murphy (Graduate Center for Nutritional Sciences) 2011
	Kyung Sik Jung (Graduate Center for Toxicology)
2009 - 2014:	Congqing Wu (Graduate Center for Nutritional Sciences) 2011 -
2015:	Cetawayo Rashid (Graduate Center for Nutritional Sciences) 2012
2012 2016	Jing Liu (Graduate Center for Nutritional Sciences)
2013 - 2016:	Jarrod Williams, Department of Pharmaceutical Sciences (College of
2012	Pharmacy) Tianfai Hay (Craduate Conter for Nutritional Sciences) 2012
2013 :	Tianfei Hou (Graduate Center for Nutritional Sciences) 2013 -
2016: 2019 :	Heather Norman (Graduate Center for Nutritional Sciences) Madeline Stewart (Graduate Center for Nutritional
Sciences)	Madenne Slewart (Slaudale Senter IVI Muthubridi
Postdoctoral	Fellows:
	Violeta Arsenescu, M.D.
	Carine Boustany, Ph.D.

2004 -2007:Violeta Arsenescu, M.D.2005 -2006:Carine Boustany, Ph.D.2006 -2007:Kalyani Bharadwaj, Ph.D.2007-2015:Sean Thatcher, Ph.D., recipient of NIH F32 postdoctoral fellowship; 1stplace recipient of CV research day award, 2008, 2009, Gordon Research Conference New

Investigator Award, 2012

2007-2015: Frederique Yiannikouris, Ph.D., 3rd place recipient of CV research day award, 2009; 2nd place recipient of CV research day award, 2010; NIH T32 Postdoctoral Fellow; 1st place award Obesity/Diabetes Research Day, AHA SDG Award 2011-2012: Xuan Zhang, PhD

- 2015-2018: Robin Shoemaker, PhD, recipient of AHA postdoctoral fellowship
- 2015-2018: Erin Jackson, PhD
- Yasir AlSiraj, PhD, AHA postdoctoral fellow Nika Larian, PhD 2018
- 2019

Research Assistant Professor:

2009/2010	Kamilah Ali, PhD.
2012-	Sean Thatcher, PhD.
2013-2015	Frederique Yiannikouris, PhD

IX. Administrative Activity and University Service

College of Pharmacy Committees:

College of Pha	armacy Committees:
1988 - 1989	Ad Hoc Pharm. D. Curriculum Committee
1989 - 1990	Continuing Education
1990	Library Services Self Study Committee
1990 - 1994	Curriculum Committee
1993 - 1994	Research and Seminar Committee
1994 - 1996	Admissions Committee
1995 - 1998	Graduate Program Committee
1998	Search Committee for faculty member in Pharmaceutical Science, Chair
1998 - 1999 1998 - 1999	Elected Executive Committee, Division of Pharmaceutical Sciences
1998 - 1999	Executive Committee, College of Pharmacy Vice Chair, Division of Pharmaceutical Sciences
1999	Research and Seminar Committee
2000 - 2001	Appointment, Promotion and Tenure Committee
2000 - 2001	Honors and Recognition Committee
2001	Search Committee, Pharmaceutics position
2000 - 2001	Molecular, Cellular and Integrative Pharmacology Coordinator for the
	Division of Pharmaceutical Science
2000 - 2001	Graduate Program Committee, Division of Pharmaceutical Sciences
2002	Search Committee, Molecular and Cellular Pharmacologist
2003	Admissions Committee, College of Pharmacy
2003	Assessment Sub-committee of the Curriculum Committee
2003	ACPE Self Study Sub-committee, Chair, Faculty Committee
2003	Departmentalization Committee, College of Pharmacy
Graduate Cen	ter for Nutritional Sciences
2004	Search Committee Chair, Faculty position
2005	Search Committee Chair, Faculty position
2008	Search Committee Chair, Faculty position
2009	Search Committee Chair, Faculty position
College of Me	dicine
2008 - 2013	MD/PhD Admissions Committee
2011 - 2013	Biomedical Sciences Executive Committee
2003 -	Cardiovascular Research Center Steering Committee
2010 -	Barnstable Brown Diabetes and Obesity Center Executive Committee

2015 -REACH Mentoring Steering Committee

University Committees:

1989	-	Perfor	mance	Evalua	ation, (College of	Nursing	

- Alternate, Academic Council for the Medical Center 1989 - 1991
- 1992 1998 Howard Hughes Biomedical Undergraduate Research Initiative

1997 - 1999	Tobacco and Health Research Advisory Group
1998 - 2000	Graduate Council Committee on Fellowships and Traineeships
1997 - 2001	Gill Heart Institute, Research Advisory Committee
1999 -	Graduate Center for Toxicology, Admissions Committee
1999 – 2004	Institutional Animal Care and Use Committee, University of Kentucky
2003	Search Committee, Director of Women's Health Center
2007 - 2010	Graduate Council Committee on Fellowships

X. Special Assignments

University Assignments:

1992 - 1998	Kentucky Drug Equine Research Council, University of Kentucky representative
1996 - 1997	Co-Chair, Task Force for Reorganization of the College of Pharmacy
1997	Chair , Search Committee, Division of Pharmacology and Experimental Therapeutics
1999	Chair, Tobacco and Health Research Advisory Committee
2004, 2005	Chair, Task Force, Master's Programs in Nutritional Sciences
2009 - 2010	Organizer of Research Experiences for Mini-Medical School for State Legislators
2001-	Organizer , Obesity/Diabetes Research Day, University of Kentucky (255 registrants, 80 poster presentations)
2013 - 2014	Co-Chair, UK Strategic Planning Committee on Research
2014 - 2015	Interim Vice President for Research, University of Kentucky
National Assignments:	
1994 - 1997	National American Heart Association Affiliate Study Group G, Reviewer
1996 - 1999	National American Heart Association, Study Section Reviewer, Cardiovascular Regulation, Co-Chair , 1999
1996	Tele-conference Review, NIH Pharmacology Study Section, General Medicine

- 1996 1997 Ad-hoc NIH Reviewer, Pharmacology Study Section, General Medicine
- 1997 Tele-conference Review, NIH Pharmacology Study Section, General Medicine
- 2000 Ad-hoc Reviewer, NIH General Medicine Special Emphasis Panel
- 1997 2001 Pharmacology study section, Regular Member, General Medicine, NIH
- 2001 2004 National American Heart Association, Study Section Review, Cardiovascular Regulation
- 2001 National Science Foundation, Reviewer

- 2001 2003 American Society of Pharmacology and Experimental Therapeutics, Workshop committee
- 2002 NIH Reviewer, Special Emphasis Panel, Tele-conference Review, Ad hoc written reviewer
- 2003 NIH, Special Emphasis Panel, Role of Sleep and Sleep Disordered Breathing in the Metabolic Syndrome
- 2003 American Heart Association National, Co-Chair, Cardiovascular Regulation Study Section
- 2004 American Heart Association, Ohio Valley Affiliate, Cardiovascular Regulation
- 2004 NIH, Ad-hoc reviewer, November, February 2003/2004, Pathobiology of Kidney Disease
- 2004 NIH, Special Emphasis Panel, December, 2004, Pathobiology of Kidney Disease
- 2005 NIH, MBRS Reviews
- 2005 NIH, PPG Reviewer
- 2006 NIH, Teleconference Reviewer
- 2006 NIH, Special Emphasis Panel, Obesity and Sleep Disorders
- 2006 American Heart Association, Ohio Valley Affiliate, Cardiovascular Regulation
- 2008-2011 American Heart Association, Ohio Valley Affiliate, Cardiovascular Regulation/Vascular Biology of Blood Pressure
- 2008 NIH, Working Group, Target Organ Damage in Hypertension
- 2008 Fall Conference Committee, American Heart Association Council for High Blood Pressure Research
- 2008-2009 NIH K99 Review Panel
- 2009 NIH Study Section, Atherosclerosis, Ad hoc Reviewer, ARRA Challenge Grants Reviewer
- 2009 Special Emphasis Panel, NIH, Chair
- 2009 NIH Program Project Review
- 2010 American Heart Association, High Blood Pressure Council, Nutrition Liaison
- 2010 American Heart Association, High Blood Pressure Council Leadership Committee
- 2009-2012 NIH NCRR IDEA Steering Committee
- 2010 NIH Vascular Cell Biology Study Section, ad-hoc reviewer
- 2010 NIH Program Project Grant Reviewer

2011		American Heart Association Grant Reviewer	
2011	-2017	Charter member, Vascular Cell and Molecular Biology Study Section, NIH	
2012	2	NIH Special Emphasis Panel, Gender and Diversity Panel	
2012	2	Steering Committee, Angiotensin Gordon Research Conference	
2013	3	NIH Program Project Review	
2013/14		SEC Symposia Representative, University of Kentucky	
2015		NIH K Award Conference, Presenter and Mentor in	
Revi	ew		
2015		NIH COBRE Phase 3 Review Panel	
2016		NIH Program Project Review	
2016	6	NIH HLBI Loan Payment Program Review	
2017	7	NIH Special Emphasis Panel	
2017	7	NIH HLBI Loan Payment Program Review	
2019	9	NIH COBRE Panel Phase 2 Panel Review	
2019	9	NIH HLBI Loan Payment Program Review	
XI.		Honors	
	2018	Distinguished Professor Lectureship, Augusta Regents Department of Physiology	
	2014	Centennial Hall of Fame Graduate, School of Pharmacy, West Virginia University	
	2012	Nicki Baker (graduate student), NIEHS Karen Wetterhan Research Award	
	2012	Harriett Dustan Award for Excellence by a Female Scientist in Hypertension Research, American Heart Association Council for High Blood Pressure Research	
	2012	Mentor of Women Awardee, Council on Arteriosclerosis Thrombosis and Vascular Biology, American Heart Association	
	2010-12	NIH College of Grant Reviewers	
	2009	Robert E. Stitzel Distinguished Lecture, West Virginia University School of Medicine	
	2003 Outstanding Professor Award, College of Pharmacy, University of Kentucky		
1984 First Place Sigma Xi Research Colloquium			
	1984 Colloquium	First Place Winner Van Liere Graduate Student Research	
	ASPET Student Travel Award		

1983 Pharmacology Graduate Student Representative

- 1983 **Basic Sciences Graduate Student Representative**
- 1981 Benedum Foundation Graduate School Academic Scholarship
- 1978 West Virginia University Undergraduate Academic Scholarship

XII. **Professional Activity and Public Service**

A. Professional Organizations

- 2009 Member, American Physiological Society
- 2003 -Member, American Society of Nutrition
- Member, American Society for Pharmacology and Experimental 1997 -Therapeutics
- Member, American Heart Association Council for High Blood Pressure 1988 -Research, Atherosclerosis Thrombosis and Vascular Biology Council, Nutrition Council
- 1989 -Member, Sigma Xi
- 1991 -Member, Rho Chi
- 1991 -Member, National Association for the Study of Obesity
- 1991 1999 Member, Neuroscience, Local Chapter
- 1992 1999 Kentucky Research Equine Advisory Board

B. Journal Referee

American Journal of Physiology, Journal of Pharmacology and Experimental Therapeutics, Hypertension, British Journal of Pharmacology, Circulation Research, Brain Research, Canadian Journal of Physiology and Pharmacology, Arteriosclerosis Thrombosis and Vascular Biology, Circulation, Journal of Clinical Investigation

Associate Editor: Gender Medicine (Nutrition Section)

Editorial Board: American Journal of Physiology: Integrative, Regulative and Comparative Physiology, Adipocyte, Arteriosclerosis, Thrombosis, and Vascular Biology

C. Public Service:

- 1999 Sunday school teacher, grades 1-2, 4-5.
- 4H Club Representative, Rosenwald Dunbar Elementary school 2001 -
- 2000 Parish Council, St. Andrew's Orthodox Church 2002- 2005 Sunday School Superintendent, St. Andrew's Orthodox Church

XIII.Speaking Engagements

Local:		
<u>Year</u>	<u>Organization</u>	<u>Title</u>
1991	Department of Anatomy, UK	Brown Adipose Tissue Renin- Angiotensin System
1991	Department of Pharmacology, UK	Adipose Angiotensin System
1991	Graduate Center for Toxicology, UK	Renin-angiotensin System in Animal models of Pulmonary Hypertension and Diabetes
1994	Graduate Center for Toxicology,	The Adipose Renin-angiotensin system
1994	Clinical Nutrition program	The Renin-angiotensin system obesity
1998	Division of Medicinal Chemistry	Angiotensin, Leptin, and the Regulation of Body Weight
1998	Gill Heart Institute	Interactions between Angiotensin II and the Sympathetic Nervous System in Congestive Heart Failure
1998	Graduate Center for Toxicology	Mechanisms for Angiotensin II Regulation of Body Weight
1999	Lambda Kappa Sigma, Professional Pharmacy Sorority	Cardiovascular Disease in Women
1999	Nutritional Science	Mechanisms for Angiotensin II Regulation of Body Weight
2000	Department of Physiology	The Adipose Renin-Angiotensin System
2000	College of Pharmacy	Angiotensin II: Drug discovery for the treatment of atherosclerosis and aneurysms
2001	Nutritional Science	Mechanisms for Angiotensin II Regulation of Leptin
2001	College of Pharmacy	Mechanisms for Angiotensin II Regulation of Body Weight
2002	Nutritional Science	Structure and Function of Adipose Tissue
2002	Department of Pharmacology	Angiotensin: A Vascular Toxin
2002	Gill Heart Cardiovascular Seminar Series	Angiotensin: A link between obesity and hypertension

Lisa A. Cassis Curriculum Vitae Page 13

2004	Continuing Education	Mechanisms for Obesity- Hypertension
2005	Symposia on Nutrition and Oxidative Stress	Obesity: Role of Inflammation and Oxidative Stress
2006	Department of Physiology	Androgen regulation of angiotensin- induced aneurysms
2006	Department of Pharmacology	Angiotensin as a link between obesity and cardiovascular disease
2008	Graduate Center for Toxicology	Polychlorinated biphenyls, obesity and angiotensin II-induced vascular disease
2009	Cardiovascular Seminar Series	Risk factors for abdominal aortic aneurysms: lessons learned from an experimental model
2009	Dean's Distinguished Lecture Series	The renin-angiotensin system in cardiovascular disease
2010	Cardiology Grand Rounds, UK	Angiotensin: A link between obesity and cardiovascular diseases
2013	Department of Pharmacology	The Renin-Angiotensin System in Metabolic Diseases
2014	Pharmacology, CV Research Center	Go Red for Women, Podium speaker
2015	Postdoctoral Committee	Featured Speaker/Mentor
State:		
1991	Chronic Disease Conference Louisville, KY	Obesity and Hypertension
2010	Division of Cardiology Louisville, KY	Angiotensin: a link between obesity and cardiovascular diseases
2011	IdEA Meeting, Louisville, KY	Center of Biomedical Research Excellence on Obesity and Cardiovascular Disease
Nationa	1:	
1988	Council for High Blood Pressure Research	Regulation of Angiotensinogen Messenger RNA
1988	University of Florida, Department of Physiology	Location and Regulation of Angiotensinogen Messenger RNA
1988	George Washington University	Location and Regulation of Angiotensinogen Messenger RNA
1989	Federation of American Society for Experimental Biology	Angiotensinogen Messenger RNA Levels in Streptozotocin-Induced Diabetic Rats
1990	Federation of American Society	Regulation of Angiotensinogen

for Experimental Biology	

	for Experimental Biology	Product
1991	E.I. DuPont de Nemours & Co. Wilmington, DE	Angioter Hyperte
1991	Pharmacy Midwest Symposium Merrillville, IN	Academ
1992	Pharmacy Midwest Symposium Merrillville, IN	Academ
1992	West Virginia University, Dept. of Pharmacology Morgantown, WV	Brown A Angioter
1994	Ohio State University, College of Pharmacy Columbus, Ohio	Angioter
1994	Pharmacy Midwest Symposium Merrillville, IN	Academ
1996	National Association For the study of Obesity	Angioter Body W
1997	DuPont-Merck Pharmaceuticals	Infrared/ Measure Expendi
1998	DuPont-Merck Pharmaceuticals	Infared/I Measure Expendi
1999	New York Academy of Science	Inter-rela angioter atheroso
1999	Minority Research Symposium NIH	lnter-r hyperter
2000	National American Heart Assoc	Role of A System
2001	Texas Tech School of Pharmacy	Angioter Metabol
2001	Experimental Biology	Angiote Secretio Obesity
2001	NIH Workshop	The Re Adipose
2001	University of Iowa	The Ad System
2004	Gordon Research Conference	Gender induced
2004	Southeastern Pharmacology Soc.	Mechar

Production by Adipose Tissue

Angiotensin in Pulmonary Hypertension

Academic Career Options

Academic Career Options

Brown Adipose Renin-Angiotensin System

Angiotensin in Adipose Tissue

Academic Career Options

Angiotensin II and Regulation of Body Weight

Infrared/Near Infrared Imaging for the Measurement of Peripheral Energy Expenditure

Infared/Near Infrared Imaging for the Measurement of Peripheral Energy Expenditure

Inter-relationships between the reninangiotensin system, obesity, and atherosclerosis

Inter-relationships between hypertension and atherosclerosis

Role of Adipocyte Renin-Angiotensin System in Adipocyte Regulation

Angiotensin II in Cardiovascular and Metabolic Disease

Angiotensin Regulates Leptin Secretion: A Potential Link Between Obesity and Hypertension

The Renin-Angiotensin System in Adipose Tissue

The Adipose Renin-Angiotensin System

Gender Differences in Angiotensininduced Vascular Disease

Mechanisms of abdominal aortic aneurysms

Lisa A. Cassis Curriculum Vitae Page 15

- 2005 Virginia Tech
- 2005 Council for High Blood Pressure
- 2006 Auburn University
- 2006 Renal Week
- 2007 IASH/COSEC
- 2007 UTSW
- 2008 Experimental Biology
- 2008 Wright State University
- 2008 University of Iowa
- 2008 Medical College of Georgia
- 2008 Eastern Virginia Medical School
- 2009 University of Iowa
- 2009 West Virginia University
- 2010 American Society of Hypertension
- 2010 International Society of Hypertension
- 2011 New York Medical College
- 2011 Boston University, Whitaker
- 2011 Wake Forest
- 2011 West Virginia University
- 2011 Southeast Lipid Conference
- 2012 Texas A&M University
- 2012 University of Arkansas
- 2012 Experimental Biology

Obesity and cardiovascular disease

Angiotensin in Obesity Hypertension

Angiotensin and Vascular Disease

Gender Differences in AnglI-induced Aneurysm Formation

Angiotensin and Adipose Tissue

Angiotensin and Vascular Disease

Angiotensin, Inflammation and Vascular Disease

Angiotensin and Vascular Disease

PCBs, Adipocytes and Vascular Disease

Angiotensin II-Induced Vascular Disease

Angiotensin: A Link Between Obesity and Cardiovascular Disease

Angiotensin: A Link Between Obesity and Cardiovascular Disease

The Renin-Angiotensin System and Cardiovascular Diseases

Adipocyte Renin-angiotensin System

Adipocyte Renin-Angiotensin System

The Renin-Angiotensin System in Obesity and Vascular Diseases

The Renin-Angiotensin System in Obesity and Vascular Diseases

Angiotensin in Metabolic and Vascular Disease

Angiotensin in Metabolic and Vascular Disease

The adipocyte renin-angiotensin system

Angiotensin in Vascular Disease

Angiotensin in metabolic and vascular diseases

The Perivascular Renin-Angiotensin System, The Renin-angiotensin System in Obesity and Cardiovascular Diseases

2012	Southeast Lipid Conference
2012	Georgia Regents University
2012	Council for High Blood Pressure Research
2012	University of Iowa
2012	Tulane University
2012	Institute of Medicine
2013	University of Wisconsin
2014	Temple University
2014	Nutrition Research Institute, UNC
2014	PCB Workshop
2014	University of North Dakota
2015	American Society for Hypertension
2015	Tufts University
2015	American Heart Association
2016	University of Memphis
2016	American Heart Association
2017	University of Nebraska
2017	Experimental Biology
2018	Wake Forest University
2018	American Physiological Society
2019	University of Wisconsin
2019	American Heart Association
	International:
1989	3 rd International Symposium on

Adenosine

Polychlorinated biphenyls and type 2 diabetes

ACE2 in metabolic and vascular diseases

The renin-angiotensin system in metabolic and vascular diseases

Polychlorinated biphenyls and metabolic diseases

Angiotensin in metabolic and vascular diseases

PCBs and type 2 diabetes

Angiotensin and Vascular Diseases

Angiotensin and Vascular Diseases

Mechanisms linking obesity to associated diseases

Polychlorinated biphenyls and type 2 diabetes

Angiotensin and Vascular Diseases

Adipokines

The renin-angiotensin system in metabolic and vascular diseases

Targeting the adipose reninangiotensin system to treat obesityassociated diseases

Therenin-angiotensin system in metabolic and vascular diseases

The adipocyte renin-angiotensin in cardiovascular diseases

The renin-angiotensin system as a link between obesity and hypertension

Sex differences in obesity-induced hypertension

Sex differences in obesity-hypertension

Sex differences in atherosclerosis

Sex differences in vascular diseases

Sex differences in vascular diseases

ATP Induced Relaxation in Rabbit Femoral Artery: Role of the Endothelium and Cyclic Nucleotides

1991	International Catecholamine	Presynaptic Neuromodulation
	Symposia, West Germany	of Neurotransmitter Release by Endogenous Angiotensin II
2000	International Symposium on	Effects of AT1 and AT2
	Angiotensin II Antagonism, London	Antagonism on AngII Induced Atherosclerosis and Abdominal Aortic Aneurysms
2000	Queen's Medical College Nottingham, England	Mechanisms for Angiotensin II Regulation of Body Weight
2006	PCB Workshop Zakopane, Poland	Impact of Obesity on PCB Toxicity
2008	Vasoactive Peptide Symposia Bel Horizonte, Brazil	Angiotensin, Inflammation and Vascular Disease
2009	Intra-American Society of Hypertension, Bel Horizonte, Brazil	Local adipose renin-angiotensin system
2011	Vasoactive Peptides International Ouro Preto, Brazil	Angiotensin and Vascular Diseases
2014	Gender in Medicine	Angiotensin and Sexual Dimorphism of the Vasculature
2016	Gordon Research Conference	Women in Science

XIV. Research and/or Creative Productivity

<u>Research Interests</u>: The focus of research in my laboratory revolves primarily around the existence of an adipose renin-angiotensin system, with emphasis on the functional significance of adipose Angiotensin II (AngII) production. A second research focus in my laboratory is the study of animal models representative of the diseases encompassing the Metabolic Syndrome, including hypertension, obesity, atherosclerosis and abdominal aortic aneurysm formation (AAA). A third research emphasis in my laboratory is the study of the role of AngII in the exacerbation of atherogenic lesions and AAAs. Within these programs, we focus on mechanisms underlying sex differences underlying AAAs and obesity-induced cardiovascular diseases. A fourth research emphasis in my laboratory is the study of polychlorinated biphenyls in obesity, diabetes and cardiovascular diseases.

A. Previously Funded Grants

1. "The Angiotensinogen-Angiotensin System of Adipose Tissue," R29 First Independent Award, NIH, PI: Lisa Cassis, 12/88 - 11/93, extramural, \$349,615.

2. "Regulation of Angiotensinogen Gene Expression in Adipose Tissue," Basic Science Research Grant (BRSG), NIH, PI: Lisa Cassis, 03/88 - 02/89, intramural, \$5000.

3. "Major Equipment Award," Auto-Gamma 5500 Counter, University of Kentucky Medical Center, PI: Lisa Cassis, 12/88 - 6/88, intramural, \$16,990.

4. "Tissue Specific Regulation of the Angiotensinogen Gene," Pharmaceutical Manufacturer's Association Foundation, PI: Lisa Cassis, 11/88 - 10/89, extramural, \$10,000.

5. "The Renin-Angiotensin System in Streptozotocin Diabetes," University of Kentucky Medical Center Research Grant, PI: Lisa Cassis, 12/88 - 10/89, intramural, \$10,000.

6. "The Renin Angiotensin System in Pulmonary Hypertension," Basic Science Research Grant (BRSG), NIH, PI: Lisa Cassis, 07/89 -06/90, intramural, \$5,000.

7. "Angiotensin in Monocrotaline-induced Pulmonary Hypertension," American Heart Association, Kentucky Affiliate, PI: Lisa Cassis, Co-PI: Mark Gillespie, 07/90 - 06/91, extramural, \$16,909.

8. "Capillary Electrophoresis," Small Instrumentation Grant, NIH, PI: Lisa Cassis, 08/90 - 07/91, extramural, \$9,119.

9. "The Role of Angiotensin in the Neuromodulation of Thermogenesis," University of Kentucky Medical Center Small Research Grant, PI: Lisa Cassis, 12/90 - 11/91, intramural, \$9,960.

10. "DuP 753, a Nonpeptide Angiotensin II-1 Receptor Antagonist, Modulates Dopamine Function in Rat Striatum," DuPont-Merck Pharmaceuticals, Delaware, PI: Lisa Cassis, Co-PI: Linda Dwoskin, 06/01/91 - 05/31/92, extramural, \$15,000.

11. "Major Equipment Award," HPLC System, University of Kentucky Medical Center, PI: Linda Dwoskin, Co-PI: Lisa Cassis, 1/92 - 12/92, intramural, \$16,058.

12. "Oxidized LDL and Atherosclerosis: A Near-infrared Imaging Approach," American Heart Association, Local Kentucky Affiliate, PI: Robert Lodder, Co-PI: Lisa Cassis, 07/92 - 06/94, extramural, \$29,950.

13. "Small Instrumentation Grant," High Performance Liquid Chromatography, National Institutes of Health, PI: Lisa Cassis, 09/92 - 08/93, extramural \$15,879.

14. "Defective Thermogenesis in Zucker Obese Rats: The Role of Angiotensin II," American Heart Association, Local Kentucky Affiliate, PI: Lisa Cassis, 07/01/93 - 06/30/95, extramural, \$12,852.

15. "Angiotensin in Defective Thermogenesis of Obesity", University of Kentucky Medical Small Research Grant, PI: Lisa Cassis, Co-PI: Robert Lodder,7/01/93-6/30/94, intramural, \$15,000.

16. "Near-IR Laser for Medical Imaging", NIH, Shared Intrumentation Grant, PI: Robert Lodder, Co-PI: Lisa Cassis, John Carney, Robert Dempsey, Jan Pyrek, David Snowdon, Ed Soltis, 04/01/93 - 03/31/94, extramural, \$125,892.

17. "Limitation of Productivity: Requirement for a -70°C Freezer", PI: Lisa Cassis, co- PI: Linda Dwoskin,7/01/94 - 6/30/95, intramural, \$6,028.

18. "Dopamine/Angiotensin Interactions in Rat Basal Ganglia", University of Kentucky Medical Small Research Grant, PI: Linda Dwoskin, co-PI: Lisa Cassis, 7/01/94 - 6/30/95, intramural, \$14,210.

19. "Equipment Grant Competition", PI: Lisa Cassis, 7/01/97, intramural, \$10,983.

20. "Angiotensin II in Brown Adipose Tissue Thermogenesis," Research Career Development Award, NIH K04HL02742, PI: Lisa Cassis, 07/92 - 03/97, extramural, \$324,324.

21. "Angiotensin II in Brown Adipose Thermogenesis", R01HL52934-0251, NIH Minority Predoctoral Supplement, PI:Lisa Cassis, co-PI: Victoria King, 10/01/96 - 4/30/99, extramural, \$51,014.

22. "Insulin and Vascular Responsiveness", American Heart Association Local Kentucky Affiliate, PI: L. Cassis, 7/1/95 -6/30/98, extramural, \$29,896.

23. "Angiotensin II in Brown Adipose Thermogenesis", R01HL52934, NIH, PI: Lisa Cassis, 05/01/95 - 04/30/99, extramural, \$314,440.

24. Minority Predoctoral NRSA, NIH, PI: L. Cassis, co-PI: V. King, 05/01/98-04/30/99, extramural, \$12,008.

25. Graduate Center for Toxicology NIH Predoctoral Training Grant, PI: M. Vore, co-PI: L. Cassis, 1996 -.

26. "Ability of AT1 receptor antagonist, losartan, to inhibit Angiotensin II induced atherogenesis and aneurysm formation", Merck & Co., PI: Alan Daugherty, co-PI: L. Cassis, 01/01/00 - 12/31/00,\$44,608.

27. Minority Predoctoral NRSA, NIH, PI: L. Cassis, co-PI: G. Burke, 05/01/98-04/30/03, \$60,040.

28. Angiotensin, Leptin, and the Sympathetic Nervous System, R01 HL52987, NIH, PI: L. Cassis (12%), co-PI:R. Lodder (8%), L. Dwoskin (5%), 07/01/98 - 06/30/03 (no cost extension), \$715,395

29. "The Role of Angiotensin II in Obesity-Induced Hypertension", AHA Ohio Valley Affiliate, Predoctoral fellowship, PI: Carine Boustany, co-PI: L. Cassis, 07/01/02 - 06/30/04, \$34,000.

30. "Angll Promotes Proinflammatory Processes in Atherogenesis", National Institutes of Health R01 HL62846, PI: A. Daugherty (25%), co-PI: L. Cassis (25%), co-PI: J. Pauly (5%), 09/01/2000 - 08/31/04, \$1,330,000.

31. "Data sciences international educational institution telemetry acquisition grant marketing", PI: L. Cassis, 06/01/03 - 12/31/03, \$26,000.

32. "Angiotensin/PPAR interactions in the regulation of adipose mass in diet-induced obesity hypertension", AHA Ohio Valley Affiliate Predoctoral fellowship, PI: Kalyani Bharadwaj, co-PI: L. Cassis, 07/01/03 - 06/30/05, \$36,000.

33. "The role of testosterone and X-linked genes in gender differences in Angiotensin IIinduced abdominal aortic aneurysms, AHA Ohio Valley Affiliate Predoctoral fellowship, PI: Tracy Henriques, co-PI: L. Cassis, 07/01/03 - 06/30/05, \$36,000.

34. "Angiotensin/Sympathetic Interactions and Blood Pressure", National Institutes of Health R01 HL64121, PI: L. Cassis (20%), co-PI: D. Randall (15%), D. Brown (30%), 07/01/00 - 06/30/06 (no cost extension), \$1,265,820.

35. "Role of MMPs in AngII Induced Abdominal Aortic Aneurysms", NIH R01 HL70239: PI: A. Daugherty (15%), co-PIs: L. Cassis (10%), Tom Curry (10%), Steve Szilvassy (5%), 04-01-02 - 03-31-07, \$1,801,936.

36. "Efficacy of renin inhibition on the development of atherosclerosis", Novartis Pharmaceuticals, co-PI: L. Cassis, \$160,424, 08/01/05 - 07/31/07.

37. "Role of endothelial AT1a receptors on side stream smoke -induced atherosclerosis", Phillip Morris, co-PI: L. Cassis, \$300,000, 09/01/05 - 08/31/08.

38. "Doctoral Training in Nutrition and Chronic Disease", 2005-02349, USDA Training Grant, PI: L. Cassis, \$207,000, 09/01/2005 - 08/31/2009.

39. "Mechanisms of Abdominal Aortic Aneurysm Formation", NIH PPG, PI: A. Daugherty, co-PI: L. Cassis, \$10,735,557, 04/01/06 - 03/31/12; Project 1: Cassis, PI.

40. "NIH F32 Postdoctoral Grant: PI: S. Thatcher, Mentor: L. Cassis, 02/09 - 01/12.

41. "American Heart Association Predoctoral Grant", PI: K. Putnam, Mentor: L. Cassis, 07/11 - 06/12.

42. "P30 on Fetal Programming in Obesity-Induced Cardiovascular Diseases, NIH, PI: L. Cassis, 09/30/09 - 09/29/13, \$1,110,234.

43. "Sources and Effects of Angiotensin Peptides in Atherosclerosis", NIH R01 HL0628-06, PI: A. Daugherty, co-PI: L. Cassis, 9/00 - 11/12.

44. "NIH Center of Biomedical Research Excellence on Obesity and Cardiovascular Disease, L. Cassis: Program Director, 09/08 - 08/13, \$10,532,687.

^{Page 20} 45. "2014 Angiotensin Gordon Research Conference", PI: L. Cassis, NIH R13, 12/1/13 -04/7/14, \$10,000.

46. "American Heart Association Predoctoral Grant", PI: R. Shoemaker, Mentor: L. Cassis, 7/12 - 6/14.

47. "American Heart Association Predoctoral Grant, PI: W. Yu, Mentor: L. Cassis, 7/14 - 6/15.

48. "Nutrition and Oxidative Stress Training Program", T32 DK07778-06, National Institutes of Health, Multiple PIs: L. Cassis (corresponding PI), \$532,585, 08/01/2004 - 07/31/2015.

49. "American Heart Association Predoctoral Grant, PI: Y. Al-Siraj, Mentor: L. Cassis, 7/14 - 6/16.

50. "American Heart Association Postdoctoral Grant, PI: R. Shoemaker, Mentor: L. Cassis, 12/16 – 12/17, \$98,950.

51. "Center of Biomedical Research Excellence in Obesity and Cardiovascular Disease, NIH COBRE Phase II, PI: L. Cassis, 09/14/13 - 06/30/19 (NCE), \$11,273,081.

52. "Administrative Supplement, NIH Center of Biomedical Research Excellence on Obesity and Cardiovascular Disease", 3P20GM103427-10S1, 08/01/17 - 07/31/18 (NCE), \$342,184.

B. Active Grants

"Angiotensin: A Link Between Obesity and Hypertension", National Institutes of Health, R01 HL073085-10; PI: L. Cassis, 05/01/14 - 04/30/20 (NCE), \$1,542,381.

"Sex differences in angiotensin II-induced vascular diseases", PI: L. Cassis, NIH R01, 09/01/16 - 05/31/20, \$1,667,016.

"NIEHS Superfund Research Program, Project 3, PI: L. Cassis, 04/01/14 - 03/31/20, \$1,603,049.

"NRSA T32: Pharmacology and Nutritional Sciences: Multidisciplinary Approaches, PI: N. Webb, co-PI: L. Cassis, 08/15/00 - 07/31/20, \$862,335.

"American Heart Association Vascular Disease Strategically Focused Research Network", Program Director: A. Daugherty, "Sexual dimorphism of aortopathies", Project PI: L. Cassis, \$1,185,000 (for Cassis project), 1/18 - 12/23.

"Center of Biomedical Research Excellence on Obesity and Cardiovascular Disease", NIH COBRE Phase III, PI: L. Cassis, 04/01/18 – 03/31/23, \$5,737,500.

C. Pending Grants

D. Publications

1. "Neuronal deamination of endogenous and exogenous noradrenaline in the mesenteric artery of the spontaneously hypertensive rat." Head R.J., **Cassis** L.A., Barone S., Stitzel R.E. and de la Lande I.S. *J. Pharm. Pharmacol.* 1984, 36:382-385.

- 2. "Altered catecholamine contents in vascular and non-vascular tissues in genetically hypertensive rats." Head R.J., **Cassis L.A.**, Robinson R.L., Westfall D.P. and Stitzel R.E. *Blood Vessels* 22:196-204, 1985.
- 3. "Surgical sympathectomy of the heart in rodents and its effect on sensitivity to agonists." Goto K., Longhurst P.A., **Cassis L.A.**, Head R.J., Taylor D.A., Rice P.J. and Fleming W.W. *J. Pharm. Exp. Ther.*, Vol. 234, 1:280-287, 1985.
- 4. "The errors introduced by a tritium label in position 8 of catecholamines." Grohmann M., Henseling M., **Cassis L**. and Trendelenburg U. *Nauyn Schmiedeberg's Arch. of Pharm*. 332:34-42, 1986.
- 5. "Hypernoradrenergic innervation of the caudal artery of the spontaneously hypertensive rat: an influence upon neuroeffector mechanisms." **Cassis L.A.**, Stitzel R.E. and Head R.J. *J. Pharm. Exp. Ther.*, Vol. 234, 3:792-803, 1985.
- 6. "The effect of partial inhibition of monoamine oxidase on the steady-state rate of deamination of tritiated-catecholamines in two metabolizing systems." **Cassis L**., Ludwig J. and Trendelenburg U. *Nauyn Schmiedeberg's Arch. Pharm.* 333:253-261, 1986.
- 7. "The functional coupling of neuronal and extraneuronal transport with intracellular monoamine oxidase". Trendelenburg, U., **Cassis, L**., Grohmann M., Langeloh A. *J. Neural Transm Suppl* 23:91-101, 1987.
- 8. "Influence of cold-induced increases in sympathetic nerve activity on norepinephrine content in the vasculature of the spontaneously hypertensive rat." **Cassis L.A.**, Stitzel R.E. and Head R.J. *Blood Vessels* 25:82-88, 1988.
- 9. "Localization of angiotensinogen messenger RNA in rat aorta." **Cassis L.A.**, Lynch K. and Peach M.J. *Circulation Research* 62:1259-1262, 1988.
- 10. "Location and regulation of rat angiotensinogen messenger RNA." **Cassis L.A.**, Saye J. and Peach M.J. *Hypertension* 11, No. 6, Part 2, 591-596, 1988.
- 11. "Fetal expression of the angiotensinogen gene." Gomez R., **Cassis L**., Lynch K., Chevalier R., Wilfong N., Carey R. and Peach M. *Endocrinology* 123, No. 5:2298-2302, 1988.
- 12. "Angiotensinogen gene expression in 3T3-L1 cells." Saye J., **Cassis L**., Sturgill T., Lynch K. and Peach M. *American J. of Physiol.* 256 (Cell Physiol. 25):C448-C451, 1989.
- 13. "Near infrared spectrometry of living arteries." Lodder R. and **Cassis L.** *Spectroscopy Magazine*, Vol. 5, No. 7, p. 12-16, 1990.
- 14. "Influence of perivascular adipose tissue on rat aortic smooth muscle responsiveness." Soltis E. and **Cassis L.** *Clin. Exp. Hypertension* A13(2):277-296, 1991.
- 15. "Down regulation of the renin-angiotensin system in streptozotocin diabetic rats." **Cassis** L. *American J. of Physiol.* 262:E105-E109, 1992.
- 16. "Presynaptic neuromodulation of neurotransmitter release by endogenous angiotensin II in brown adipose tissue." **Cassis L**. and Dwoskin L. *J. of Neural Transmission* 34:129-138, 1992.
- 17. "DuP753, a nonpeptide angiotensin II-1 receptor antagonist, modulates dopamine function in the rat striatum." Dwoskin L., Jewell A. and **Cassis L**. *Nauyn Schmiedeberg's Arch. Pharmacol.* 345:153-159, 1992.

- "Angiotensin II and monocrotaline-induced pulmonary hypertension: Effect of Losartan, a nonpeptide AT1 receptor antagonist." Cassis L., Rippetoe P., Soltis E., Painter D., Fitz R. and Gillespie M. J. Pharm. Exp. Ther. 252:1168-1172, 1992.
- 19. "Acute and chronic effect of Losartan (DuP753) on blood pressure and vascular reactivity in normotensive rats." Soltis E, Jewell A., Dwoskin L. and **Cassis L.** *Clin. Exp. Hyp.*, 15:171-188, 1993.
- 20. "Near-IR imaging of atheromas in living arterial tissues." **Cassis L**. and Lodder R. *Anal. Chem.* 65:1247-1257, 1993.
- 21. "Role of angiotensin II in brown adipose thermogenesis during cold acclimation." **Cassis** L. *Amer. J. Physiol.,265:E860-E865, 1993.*
- 22. "Angiotensin II in brown adipose tissue from young and adult Zucker obese and lean rats." **Cassis L.** *Amer. J. Physiol.* 266:E453-E458, 1994.
- 23. "Acute and chronic Losartan administration: effect on angiotensin II content and angiotensin II modulation of [³H]norepinephrine release from rat interscapular brown adipose tissue." **Cassis L**. and Dwoskin L. *J. Neural Transmission*, 98:159-164, 1994.
- 24. "Characterization and Regulation of Angiotensin II Receptors in Rat Adipose Tissue", **Cassis, L.**, Fettinger, M. and Shenoy, U. in *Recent Advances in Cellular and Molecular Aspects of Angiotensin Receptors*, Edited by M. Raizada, Plenum Press, 1996.
- 25. "Characterization of renin activity in brown adipose tissue, Shenoy, U. and **Cassis, L**. *American Journal of Physiology (Cell Physiology* 41):C989-C999, 1997.
- 26. "Lung angiotensin receptor binding characteristics during the development of monocrotaline-induced pulmonary hypertension", **Cassis, L.** Shenoy, U., Lipke, D., Baughn, J., Fettinger, M. and Gillespie, M. *Biochemical Pharmacology*, 54:27-31, 1997.
- 27. "Near infrared imaging and spectroscopy in stroke research: lipoprotein distributions and disease", Dempsey RJ, **Cassis LA**, Davis DG, Lodder, RA. *Ann. New. York Acad. Sci.*, 820:149-169, 1997.
- 28. "Near-IR and IR imaging in lipid metabolism and obesity", Robert Buice, **Lisa Cassis** and Robert Lodder, *Cellular and Molecular Biology* 44(1): 53-64, 1998.
- 29. "Mechanisms contributing to angiotensin II regulation of body weight", **L. Cassis**, D. Marshall, M. Fettinger, B. Rosenbluth and R. Lodder, *American Journal of Physiology* 274: E867 E876, 1998.
- 30. "Cold-exposure regulates the renin-angiotensin system", **L. Cassis**, A. Laughter, M. Fettinger, V. King, G. Burke and W. Akers, *J. of Pharm. Exp. Ther*.286:718-726, 1998.
- 31. "Cold exposure regulates the norepinephrine uptake transporter in rat brown adipose tissue", V. King, L. Dwoskin and **L. Cassis**, *American Journal of Physiology* 276: R143-R151, 1999.
- 32. "Facilitation of sympathetic neurotransmission contributes to angiotensin regulation of body weight", V. English and **L. Cassis**, *J. Of Neural Transmission* 106: 631-644, 1999.
- 33. "Chronic angiotensin II infusion promotes atherogenesis in low density lipoprotein receptor -/- mice", A. Daugherty and **L. Cassis**, *Annals of the New York Academy of Sciences*, Vol 892, p108-118, 1999.
- 34. "Presynaptic modulation of sympathetic neurotransmission in rat left ventricle slices: effect of pressure overload, S. Akers and **L. Cassis**, *Journal of Neural Transmission*, 107:885 902, 2000.

- 35. "Angiotensin II promotes rapid development of atherosclerotic lesions and aneurysm formation in apolipoprotein E -/- mice", A. Daugherty and **L. Cassis**, *J. of Clin. Invest.* 105:1605-1612, 2000.
- 36. "Compensatory activation of the renin-angiotensin system and the sympathetic nervous system in response to pressure-overload", W. Akers, A. Cross, R. Speth, L. Dwoskin and **L. Cassis**, *American Journal of Physiology 279:H2797-H2806, 2*000.
- 37. "Fat Cell Metabolism: Insulin, Fatty Acids and Renin", **L. Cassis**, *Current Hypertension Reports*, Volume 2, Number 2, pg. 132-138, 2000.
- 38. "Antagonism of AT2 receptors augments angiotensin II-induced abdominal aortic aneurysms and atherosclerosis", Alan Daugherty, Michael W. Manning, and Lisa A. Cassis British Journal of Pharmacology,134:865-870, 2001.
- 39. "Angiotensin II regulates oxygen consumption", **L. Cassis**, M. Helton, V. English and G. Burke, *Amer. J Physiol* 282: R445-R453, 2002.
- 40. "Mechanisms of Abdominal Aortic Aneurysm Formation", A. Daugherty and L. Cassis, *Current Atherosclerosis Reports*, 4:222-227, 2002.
- 41. "Abdominal Aortic Aneurysms: Fresh Insights From a Novel Animal Model of the Disease", M. Manning, **L. Cassis**, J. Huang, S. Svilassy and A. Daugherty, *Vascular Medicine*, Volume 7, Issue 1, 2002.
- 42. "Differential Effects of Doxycycline, a Broad Spectrum Inhibitor of Matrix Metalloproteinases, on AngiotensinII-Induced Atherosclerosis and Abdominal Aortic Aneurysm Formation", M. Manning, **L. Cassis** and A. Daugherty, *Atherosclerosis, Thrombosis and Vascular Biology* 23(3): 483-488, 2003.
- 43. "Aortic Dissection Precedes Formation of Aneurysms and Atherosclerosis in AngII-Infused ApoE Deficient Mice", K. Saraff, F. Babamusta, **L. Cassis**, and A. Daugherty, *Atherosclerosis, Thrombosis and Vascular Biology* 23: 1621- 626, 2003.
- 44. "Near-Infrared Spectrometry of Abdominal Aortic Aneurysm in the ApoE -/- Mouse", A. Urbas, M. Manning, A. Daugherty, **L. Cassis** and R. Lodder, *Analytical Chemistry* 75:3650-3655, 2003.
- 45. "Role of Metabolism and Receptor Responsiveness in the Attenuated Responses of Angiotensin II in Mice Compared to Rats", **L. Cassis**, J. Huang, M. Gong, A. Daugherty, *Regulatory Peptides* 117: 107-116, 2004.
- 46. "Differential Effects of Autocrine versus Paracrine Angiotensin II in the Regulation of Leptin Release from Adipocytes", **L. Cassis**, V. English, K. Bharadwaj, C. Boustany, *Endocrinology* 145: 169-174, 2004.
- 47. "Mouse Models of Abdominal Aortic Aneurysms", A. Daugherty and L. Cassis. *Atherosclerosis, Thrombosis and Vascular Biology* 24(3): 429-434, 2004.
- 48. "Presynaptic Modulation of Evoked Norepinephrine Release Contributes to Sympathetic Activation Following Pressure Overload". S. Akers and **L. Cassis**. *Am J Physiol Heart Circ Physiol* 286:H2151-2158, 2004.
- 49. "Orchiectomy, but not Ovariectomy, Regulates Angiotensin II-Induced Vascular Diseases in Apolipoprotein E Deficient Mice". T. Henriques, J. Huang, A. Daugherty, and **L. Cassis**. *Endocrinology* 145: 3866-3872, 2004.
- 50. "Angiotensin II-Mediated Development of Vascular Diseases". A. Daugherty **and L. Cassis**, *Trends in Cardiovascular Medicine*, 14:1 4, 2004.

- 51. "Angiotensin II and Abdominal Aortic Aneurysms". Daugherty A, **Cassis, L**. *Current Hypertension Reports* 6: 442-446, 2004.
- 52. "An Intrarenal Renin-angiotensin System in Autosomal Dominant Polycystic Kidney Disease", M. Adham, C. Soto, T. Inagami, **L. Cassis**. *Am J Physiol* 287:F775-F788, 2004.
- 53. "Activation of the Systemic and Adipose Renin-Angiotensin System in Rats with Dietinduced Obesity and Hypertension", C. Boustany, K. Bharadwaj, A. Daugherty, D. Brown, D. Randall, **L. Cassis**. *Am J Physiol*, 287:R943-R949, 2004.
- 54. "Hypercholesterolemia stimulates angiotensin peptide synthesis and contributes to atherosclerosis through the AT1a receptor", A. Daugherty, D. Rateri, H. Lu and **L. Cassis**, *Circulation* 110:3849-3857, 2004.
- 55. "Aldosterone does not mediate Angiotensin II-induced atherosclerosis and abdominal aortic aneurysms", L. Cassis, V. King, D. Rateri, A. Daugherty, *British Journal of Pharm* 144:443-448, 2005.
- 56. "Hyperspectral integrated computational imaging", **L. Cassis**, A. Urbas, R. Lodder, *Anal Bioanal Chem* 382: 868-872, 2005.
- 57. "AT1 receptor antagonism reverses the blood pressure elevation associated with dietinduced obesity", C. Boustany, D. Brown, D. Randall and L. Cassis, *Am J Physiol* 289: R181-186, 2005.
- 58. "Vitamin E inhibits abdominal aortic aneurysm formation in angiotensin II-infused, apolipoprotein E-deficient mice", Gavrila A, Li WG, McCormick ML, Thomas M., Daugherty A., **Cassis L**., Miller FJ., Oberley J., Dellsperger KC, Weintraub NL. *Atherosclerosis, Thrombosis and Vasc Biol* 25: 1671-1677, 2006.
- 59. "Enhanced vascular contractility and diminished coronary artery flow in rats made hypertensive from diet-induced obesity". Boustany-Kari C., Gong M., Akers S., Guo Z., **Cassis L**. *International Journal of Obesity*, 1-8, 2006.
- 60. "Deletion of p47phox attenuates angiotensin II-induced abdominal aortic aneurysm formation in apolipoprotein E-deficient mice". Thomas M., Gavrila D., McCormick ML., Miller FJ., Daugherty A., **Cassis L**., Dellsperger KC., Weintraub NL. *Circulation* 114(5): 404-413, 2006.
- 61. "Empirical and theoretical analysis of extremely low frequency arterial blood pressure spectrum in unanesthetized rat". Brown DR, **Cassis LA**, Silcox DL, Brown LV, Randall DC. *Amer J Physiol* 291(6):H2816-24, 2006.
- 62. "Effects of nornicotine enantiomers on intravenous S(-)-nicotine self-administration and cardiovascular function in rats". Stairs DJ, Neugebauer NM, Wei X, Boustany C, Hojahmat M, **Cassis LA**, Crooks P, Dwoskin LP and Bardo MT. *Psychopharmacology* 190(2): 145-55, 2007.
- 63. "Role of the renin-angiotensin system in the development of abdominal aortic aneurysms in animals and humans". Daugherty A, Rateri D, and **Cassis LA.** *Ann. NY Acad Sci* 1085:82-91, 2006.
- 64. "Bone marrow transplantation reveals that recipient AT1a receptors are required to initiate AnglI-induced atherosclerosis and aneurysms". **Cassis LA**, Rateri D, Lu H, and Daugherty A. *Arteriosclerosis, Thrombosis and Vasc Biology* 27(2): 380-6, 2007.
- 65. "Angiotensin II increases adipose angiotensinogen expression." Lu H, Boustany-Kari CM, Daugherty A, **Cassis LA.** *Amer J Physiol* 292(5): E1280-7, 2007.

- 66. "CRP causes downregulation of vascular AT2 receptors and systolic hypertension in mice". Vongpantanasin W, Thomas G, Schwartz R, **Cassis LA**, Osborne-Lawrence S, Hahner L, Gibson LL, Black S, Samols D, Shaul PW. *Circulation* 115:(8): 1020-8, 2007.
- 67. "Interleukin-4 does not influence development of hypercholesterolemia or angiotensin Ilinduced atherosclerotic lesions in mice. King VL, **Cassis LA**, Daugherty A. *Am J Pathol* 171:2040-7, 2007.
- 68. "Atherosclerosis and arterial blood pressure in mice." Lu H, **Cassis LA**, Daugherty A. *Curr Drug Targets* 8:1181-9, 2007.
- 69. "Commentary. Angiotensin converting enzyme inhibitors and aortic rupture: population based case control study. Daugherty A, **Cassis LA**. *Perspect Vasc Surg Endovasc Ther* 19: 342-4, 2007.
- 70. "Osteopontin mediates obesity-induced adipose tissue macrophage infiltration and insulin resistance in mice." Nomiyama T, Perez-Tilve D, Ogawa D, Gizard F, Zhao Y, Heywood EB, Jones KL, Kawamori R, Cassis LA, Tschop MH, Bruemmer D. J Clin Invest 117: 2877-88, 2007.
- 71. "Local adipose tissue renin-angiotensin system". **Cassis L**, Police S, Yiannikouris Y, Thatcher S. *Current Hypertension Reports* 10: 93-98, 2008.
- 72. "The role of the renin-angiotensin system in aortic aneurysmal diseases." Lu H, Rateri DL, **Cassis LA**, Daugherty A. *Current Hypertension Reports* 10: 99-106, 2008.
- 73. "Renin inhibition reduces hypercholesterolemia-induced atherosclerosis in mice." Lu H, Rateri D, Feldman D,Charnigo R, Jukamizu A, Ishida J, Oesterling E, **Cassis LA** (cocorresponding author), Daugherty A. *J Clin Invest* 118(3): 984-993, 2008.
- 74. "Polychlorinated biphenyl 77 induces adipocyte differentiation and proinflammatory adipokines and promotes obesity and atherosclerosis". Arsenescu V, Arsenescu R, King V, Swanson H, **Cassis L**. *Environmental Health Perspectives* 116(6): 761-768, 2008.
- 75. "Androgen increases AT1a receptor expression in abdominal aortas to promote angiotensin II-induced AAAs in apolipoprotein E deficient mice". Henriques T, Zhang X, Yiannikouris F, Daughery A, Cassis L. Arterioscler Thromb Vasc Biol 28(7):1251-1256, 2008.
- 76. "ACE2 is expressed in mouse adipocytes and regulated by a high fat diet". Gupte M, Boustany-Kari CM, Bharadwaj K, Police SB, Thatcher S, Gong MC, English VL, **Cassis L.** *Amer J Physiol: Integrat Comp Physiol* 295:R781-8, 2008.
- 77. "Hypertension and disrupted blood pressure circadian rhythm in type 2 diabetic db/db mice". Su W, Guo Z, Randall D, **Cassis L**, Brown D, Gong M. *Amer J Physiol* 295:H1634-41, 2008.
- 78. "The adipose renin-angiotensin system: role in cardiovascular disease". Thatcher S, Yiannikouris Y, Gupte M, **Cassis L**. *Molecular and Cellular Endocrinology* 302: 111-17, 2009.
- 79. "Effects of diets containing sucrose vs D-tagatose in hypercholesterolemic mice." Police SB, Harris JC, Lodder RA, **Cassis LA**. *Obesity* 17:269-275, 2009.
- 80. "Angiotensin II infusion promotes abdominal aortic aneurysms independent of increased blood pressure in hypercholesterolemic mice." **Cassis LA**, Gupte M, Thayer S, Zhang X, Charnigo R, Howatt DA, Rateri DL, Daugherty A. *Amer J Physiol* 296: H1660-1665, 2009.

- 81. "Obesity promotes inflammation in periaortic adipose tissue and angiotensin II-induced abdominal aortic aneurysm formation. Police Sb, Thatcher SE, Charnigo R, Daugherty A, **Cassis LA.** *Arterioscler Thromb Vasc Biol* 29:1458-1464, 2009.
- 82. "Augmentation of the renin-angiotensin system by hypercholesterolemia promotes vascular diseases". Daugherty A, Lu H, Rateri D, and **Cassis LA.** *Future Lipidol* 3: 625-636, 2009.
- 83. "Induction of gene pattern changes associated with dysfunctional lipid metabolism induced by dietary fat and exposure to a persistent organic pollutant." Arzuaga X, Ren N, Stromberg A, Black EP, Arsenescu V, Cassis LA, Majkova Z, Toborek M, Hennig B. *Toxicol Lett* 189:96-101, 2009.
- 84. "Adipokines and blood pressure control." Yiannikouris F, Gupte M, Putnam K, Cassis LA. *Current Opinion Nephrol Hypertens* 19:195-200, 2010.
- 85. "Angiotensin II induces a region-specific hyperplasia of the ascending aorta through regulation of inhibitor of differentiation 3." Owens AP, Subramanian V, Mooreleghen JJ, Guo Z, McNamara CA, **Cassis LA**, Daugherty A. *Circ Res* 106:611-9, 2010.
- 86. "Angiotensin II infusion promotes ascending aortic aneurysms: attenuation by CCR2 deficiency in apoE-/- mice. Daugherty A, Rateri DL, Charo IF, Owens III AP, Howatt DA, **Cassis LA.** *Clin Sci* 118:681-9, 2010.
- 87. "Genetic variants of the renin angiotensin system: effects on atherosclerosis in experimental models and humans." Daugherty A, Poduri A, Chen X, Lu H, **Cassis LA**. *Curr Atheroscler Rep* 12:167-73, 2010.
- 88. "Weight loss in obese C57BL/6 mice limits adventitial expansion of established angiotensin II-induced abdominal aortic aneurysms. Police SB, Putnam K, Thatcher SE, Batfoulier-Yiannikouris F, Daugherty A, **Cassis LA.** *Am J Physiol* 298:H1932-8, 2010.
- 89. "Total lymphocyte deficiency attenuates AngII-induced atherosclerosis in males but not abdominal arotic aneurysms in apoE deficient mice. Uchida HA, Kristo F, Rateri DL, Lu H, Charnigo R, **Cassis LA**, Daugherty A. *Atherosclerosis* 211:399-403, 2010.
- 90. "The brain renin-angiotensin system controls divergent efferent mechanisms to regulate fluid and energy balance". Grobe JL, Grobe CL, Westphal SG, Morgan DA, Xu D, de Lange WJ, Li H, Sakai K, Thedens DR, Cassis LA, Rahmouni K, Mark AL, Johnson AK, Sigmund CD. Cell Metab 3:321-42, 2010.
- 91. "ACE2 deficiency in bone marrow-derived stem cells increases atherosclerosis in LDL receptor -/- mice." Thatcher SE, Zhang Z, Howatt DA, Lu H, Gurley SB, Daugherty A, **Cassis LA.** *Arterioscler, Thromb and Vasc Biol* 31:758-65, 2011.
- 92. "Endothelial cell-specific deficiency of AnglI type 1a receptors attenuates AnglI-induced ascending aortic aneurysms in LDL receptor -/- mice. Rateri DL, Moorleghen JJ, Balakrishnan A, Owens AP, Howatt DA, Subramanian V, Poduri An, Charnigo R, **Cassis LA**, Daugherty A. *Circ Res 108:574-81,* 2011.
- 93. "Prolonged infusion of angiotensin II in apoE-/- mice promotes macrophage recruitment with continued expansion of abdominal aortic aneurysms". Rateri D, Howatt D, Moorleghen J, Charnigo R, **Cassis LA**, Daugherty A. *Am J Pathol* 179:1542-8, 2011.
- 94. "Renal proximal tubule angiotensin type 1a receptors regulate blood pressure". Li W, Weatherford ET, Davis DR, Keen HL, Grobe JL, Daugherty A, **Cassis LA**, Allen AM, Sigmund CD. *Am J Physiol* (epub ahead of print), 2011.
- 95. "Complex pathologies of angiotensin II-induced abdominal aortic aneurysms." Daugherty A, **Cassis LA**, Lu H. *J Zhejiang Univ Sci* B 12:624-628, 2011.

- 96. "Urokinase-type plasminogen activator deficiency in bone marrow-derived cells augments rupture of angiotensin II-induced abdominal aortic aneurysms". Uchida HA, Poduri A, Subramanian V, **Cassis LA**, Daugherty A. *Arterio Thromb Vasc Biol* 31:2845-52, 2011.
- 97. "Polychlorinated biphenyl 77 augments angiotensin II-induced atherosclerosis and abdominal aortic aneurysms in male apolipoprotein E deficient mice". Arsenescu V, Arsenescu R, Parulkar M, Karounos M, Zhang X, **Cassis LA.** *Tox Appl Pharm* 257:148-54, 2011.
- 98. "MyD88 deficiency attenuates angiotensin II-induced abdominal aortic aneurysm formation independent of signaling through toll-like receptors 2 and 4". Owens AP, Rateri DL, Howatt DA, Moore KJ, Tobias PS, Curtiss LK, Lu H, **Cassis LA**, Daugherty A. *Arterioscler Thromb Vasc Biol* 31:2813-9, 2011.
- 99. "Molecular and pathophysiological features of angiotensinogen: a mini review." Wu C, Lu H, **Cassis LA**, Daugherty A. *N Am J Med Sci* 4:183-190, 2011.
- 100. "The renin-angiotensin system: a target of and contributor to dyslipidemias, altered glucose homeostasis and hypertension of the metabolic syndrome". Putnam K, Shoemaker R, Yiannikouris F, **Cassis LA.** *American J Physiol* 302:H1219-30, 2012.
- 101. "Adipocyte deficiency of angiotensinogen decreases plasma angiotensinogen concentration and systolic blood pressure in mice". Yiannikouris Fy, Karounos M, Charnigo R, English V, Rateri DL, Daugherty A, Cassis LA. American J Physiol 302:R244-51, 2012. *, An invited editorial accompanies this article.
- 102. "Comparative effects of different modes of renin angiotensin system inhibition on hypercholesterolemia-induced atherosclerosis". Ly H, Balakrishnan A, Wu C, Charnigo R, **Cassis LA**, Daugherty A. *British Journal of Pharmacology* 165:2000-8, 2012.
- 103. "Deficiency of ACE2 in bone marrow-derived cells increases expression of TNF-" in adipose stromal cells and augments glucose intolerance in obese C57BL/6 mice". Thatcher SE, Gupte M, Hatch N, Cassis, LA. International Journal of Hypertension, epub ahead of press, 2012.
- 104. "Deficiency of receptor-associated protein attenuates angiotensin II-induced atherosclerosis in hypercholesterolemic mice without influencing abdominal aortic aneurysms." Wang S, Subramanian V, Lu H, Howatt DA, Moorleghen JJ, Charnigo R, Cassis LA, Daugherty A. Atherosclerosis 220: 375-80, 2012.
- 105. "Differential effects of dietary sodium intake on blood pressure and atherosclerosis in hypercholesterolemic mice". Lu H, Wu C, Howatt DA, Balakrishnan A, Charnigo RJ, **Cassis LA**, Daugherty A. *J Nutritional Biochem*, in press, 2012.
- 106. "Angiotensin converting enzyme 2 contributes to sex differences in the development of obesity hypertension in C57BL/6 mice". Gupte M, Thatcher SE, Boustany-Kari CM, Shoemaker R, Yiannikouris F, Zhang X, Karounos M, Cassis LA. Arterioscler Thromb Vasc Biol 32:1392-6, 2012.
- 107. "Transient exposure of neonatal female mice to testosterone abrogates the sexual dimorphism of abdominal aortic aneurysms". Zhang X, Thatcher SE, Rateri DL, Bruemmer D, Charnigo R, Daugherty A, **Cassis LA**. *Circulation Research* 110:e73-85, 2012.
- 108. "Deficiency of angiotensin type 1a receptors in adipocytes reduces differentiation and promotes hypertrophy of adipocytes in lean mice". Putnam K, Yiannikouris F, Bharadwaj K, Lewis E, Karounos M, Daugherty A, **Cassis LA**. *Endocrinology* 153:4677-86, 2012.

- 109. "Coplanar polychlorinated biphenyls impair glucose homeostasis in lean C57BL/6 mice and mitigate beneficial effects of weight loss on glucose homeostasis in obese mice". Baker N, Karounos M, English V, Fang J, Wei Y, Stromberg A, Cassis LA. Environmental Health Perspectives, in revision, 2012.
- 110. "Involvement of the renin-angiotensin system in abdominal and thoracic aortic aneurysms." Lu H, Rateri DL, Bruemmer D, **Cassis LA**, Daugherty A. *Clin Sci* 123:531-43, 2012.
- 111. "Doxycycline does not influence established abdominal aortic aneurysms in angiotensin II-infused mice". Xie X, Lu H, Moorleghen JJ, Howatt DA, Rateri DL, **Cassis LA**, Daugherty A. *Plos One*, in press, 2012.
- 112. "Novel mechanisms of abdominal aortic aneurysms". Lu H, Rateri DL, Bruemmer D, **Cassis LA**, Daugherty A. *Curr Atheroscler Rep* 14:402-12, 2012.
- 113. "Regional variation in aortic AT1b receptor mRNA abundance is associated with contractility but unrelated to atherosclerosis and aortic aneurysms". Poduri A, Owens P, Howatt DA, Moorleghen JJ, Balakrishnan A, **Cassis LA**, Daugherty A. *Plos One* 7:e48462, 2012.
- 114. "Adipocyte deficiency of angiotensinogen prevents obesity-induced hypertension in male mice". Yiannikouris F, **Gupte M, Putnam K, Thatcher S, Charnigo R, Rateri DL, Daugherty A, Cassis** LA. *Hypertension* 6-"1524-30, 2012. "An invited editorial accompanied this publication.
- 115. "Depletion of endothelial or smooth muscle cell-specific angiotensin II type 1a receptors does not influence aortic aneurysms or atherosclerosis in LDL receptor deficient mice." Rateri DK, Moorleghen JJ, Knight V, Balakrishnan A, Howatt DA, **Cassis LA**, Daugherty A. *PLoS One* 7:e51483, 2012.
- 116. "Diet-induced obesity: dopamine transporter function, impulsivity and motivation." Narayanaswami V, Thompson AC, Cassis LA, Bardo MT, Dwoskin LP. International Journal of Obesity 37: 1095-103, 2013.
- 117. "Coplanar polychlorinated biphenyls impair glucose homeostasis in lean C57BL/6 mice and mitigate beneficial effects of weight loss on glucose homeostasis in obese mice." Baker NA, Karounos M, English V, Fang J, Wei Y, Stromberg A, Sunkara M, Morris AJ, Swanson HI, **Cassis LA.** Environmental Health Perspectives 121:105-10, 2013. *An invited editorial accompanied this publication.
- 118. "Chronic angiotensin-II treatment potentiates HR slowing in Sprague-Dawley rat during acute behavioral stress". Hoyt RE, Speakman RO, Brown DR, **Cassis LA**, Silcox DL, Anigbogu CN, Randall RC. *Autonomic Neuroscience: Basic and Clinical* 174:42-6, 2013.
- 119. Chen X, Lu H, Rateri DL, **Cassis LA**, Daugherty A. Conundrum of angiotensin II and TGF-\$ interactions in aortic aneurysms. *Curr Opin Pharmacol* 13:180-5, 2013.
- 120. Blomkalns AL, Favrila D, Thomas M, Neltner BS, Blanco VM, Benjamin SB, McCormick ML, Stoll LL, Denning GM, Collins SP, Qin Z, Daugherty A, Cassis LA, Thompson RW, Weiss RM, Lindower PD, Pinney SM, Chatterjee T, Weintraub NL. CD14 directs adventitial macrophage precursor recruitment: role in early abdominal aortic aneurysm formation. J Am Heart Assoc 8:3000065, 2013.
- 121. Daugherty A, Rateri DL, Howatt DA, Charnigo R, **Cassis LA.** PD123319 augments angiotensin II-induced abdominal aortic aneurysms through an AT2 receptor-independent mechanism. *PloS One* 8:e61849, 2013.
- 122. Liu S, Xie Z, Daugherty A, **Cassis LA**, Pearson KJ, Gong MC, Guo Z. Mineralocorticoid receptor agonists induce mouse aortic aneurysm formation and rupture in the presence of high salt. *Arterioscler Thromb Vasc Biol* 33:1568-79, 2013.

- 123. Narayanaswami V, Somkuwar SS, Horton DB, Cassis LA, Dwoskin LP. Angiotensin AT1 and AT2 receptor antagonists modulate nicotine-evoked [3H]dopmaine and [3H]norepinephrine release. *Biochem Pharmacol* 86:656-65, 2013.
- 124. Chen X, Lu H, Zhao M, Tashiro K, **Cassis LA**, Daugherty A. Contributions of leukocyte angiotensin-converting enzyme to development of atherosclerosis. *Arterioscler Thromb Vasc Biol* 33:2075-80, 2013.
- 125. Baker NA, English V, Sunkara M, Morris AJ, Pearson KJ, Cassis LA. Resveratrol protects against polychlorinated biphenyl-mediated impairment of glucose homeostasis in adipocytes. J Nutr Biochem 24:2168-74, 2013.
- 126. Kramer SP, Powell DK, Haggerty CM, Binkley CM, Mattingly AC, Cassis LA, Epstein FH, Fornwalt BK. Obesity reduces left ventricular strains, torsion, and synchrony in mouse models: a cine displacement encoding with stimulates echoes (DENSE) cardiovascular magnetic resonance study. J Cardiovasc Magn Reson 31:15, 109, 2013.
- 127. Chen X, Rateri DL, Howatt DA, Balakrishnan A, Moorleghen JJ, Morris AJ, Charnigo R, Cassis LA, Daugherty A. Amlodipine reduces Angll-induced aortic aneurysms and atherosclerosis in hypercholesterolemic mice. *PLoS One* 14:e81743, 2013.
- 128. King VL, English VL, Bharadwaj K, **Cassis LA.** Angiotensin II increases sympathetic neurotransmission to adipose tissue. *Physiological Reports* 1: dio: 10, 2014.
- 129. Zhang X, Thatcher S, Wu C, Daugherty A, **Cassis LA.** Castration of male mice prevents the progression of established angiotensin II-induced abdominal aortic aneurysms. *J Vasc Surg* S0741-5214, 2014.
- 130. Rateri D, Davis F, Balakrishnan A, Howatt D, Moorleghen J, O'Connor W, Charnigo R, Cassis LA, Daugherty A. Angiotensin II induces region-specific medial disruption during evolution of ascending aortic aneurysms. *Am J Pathol* 184:2586-95, 2014.
- 131. Thatcher SE, Zhang Z, Howatt DA, Yiannikouris Y, Gurley SB, Ennis T, Curci JA, Daugherty A, Cassis LA. ACE2 decreases formation and severity of angiotensin IIinduced abdominal aortic aneurysms. *Arterioscler Thrombosis Vasc Biol* 34:2617-23, 2014.
- 132. Davis FM, Rateri DL, Balakrishnan A, Howatt DA, Strickland DK, Muratoglu SC, Hagggerty CM, Fornwalt BK, Cassis LA, Daugherty A. Smooth muscle cell deletion of low-density lipoprotein receptor-related protein 1 augments angiotensin II-induced superior mesenteric arterial and ascending aortic aneurysms. Arterioscler Thromb Vasc Biol 35:155-62, 2015.
- 133. Baker NA, English V, Larian N, Shoemaker R, Sunkara M, Morris AJ, Walker M, Yiannikouris F, Cassis LA. Effects of adipocyte aryl hydrocarbon deficiency on PCBinduced disruption of glucose homeostasis in lean and obese mice. *Environ Health Perspectives* 123:944-50, 2015.
- 134. Wu C, Xu Y, Lu H, Howatt DA, Balakrishnan A, Moorleghen JJ, Vander Kooi CW, Cassis LA, Wang JA, Daugherty A. Cys18-Cys137 disulfide bond in mouse angiotensinogen does not affect AngII-dependent functions in vivo. *Hypertension* 65:800-5, 2015.
- 135. Wang Y, Shoemaker R, Thatcher SE, Batifoulier-Yiannikouris F, English VL, **Cassis LA.** Administration of 17\$-estradiol to ovariectomized obese females mice reverses obesityhypertension through an ACE2-dependent mechanism. *Am J Physiol Endocrinol Metab* 308: E1066-75, 2015.
- 136. Liu J, Lu H, Howatt DD, Balakrishnan A, Moorleghen J, Thomas MS, **Cassis LA**, Daugherty A. Associations of ApoAl and ApoB-containing lipoproteins with AngII-induced abdominal aortic aneurysms in mice. *Arterioscler Thromb Vasc Biol* 35:1826-34, 2015.

- 137. Thatcher SE, Zhang X, Woody S, Wang Y, Alsiraj Y, Charnigo R, Daugherty A, **Cassis LA.** Exogenous 17-\$-estradiol administration blunts progression of established angiotensin II-induced abdominal aortic aneurysms in female ovariectomized mice. *Biol Sex Diff* 29: 13293-015-0030, ecollection, 2015.
- 138. Poduri A, Rateri DL, Howatt DA, Balakrishnan A, Moorleghen JJ, Cassis LA, Daugherty A. Fibroblast angiotensin II type 1a receptors contribute to angiotensin II-induced medial hyperplasia in the ascending aorta. *Arterioscler Thromb Vasc Biol* 35:1995-2002, 2015.
- 139. Yiannikouris F, Wang Y, Shoemaker R, Larian N, Thompson J, English VL, Charnigo R, Su W, Gong M, Cassis LA. Deficiency of angiotensinogen in hepatocytes markedly decreases blood pressure in lean and obese male mice. *Hypertension* 66:836-42, 2015.
- Shoemaker R, Yiannikouris F, Thatcher S, Cassis L. ACE2 deficiency reduces \$-cell mass and impairs \$-cell proliferation in obese C57BL/6 mice. Am J Physiol 309: E621-31, 2015.
- 141. Lu H, Howatt DA, Balakrishnan A, Moorleghen JJ, Rateri DL, Cassis LA, Daugherty A. Subcutaneous angiotensin II infusion using osmotic pumps induces aortic aneurysms in mice. J Vis Exp 28:10.3791/53191, 2015.
- 142. Lu H, Wu C, Howatt DA, Balakrishnan A, Moorleghen JJ, Chen X, Zhao M, Graham MJ, Mullick AE, Crooke RM, Feldman DL, Cassis LA, Vander Kooi CW, Daugherty A. Angiotensinogen exerts effects independent of angiotensin II. Arterioscler Thromb Vasc Biol 36:256-65, 2016.
- 143. Pati P, Fultonb DJ, Bagi Z, Chen F, Wang Y, Kitchens J, **Cassis LA**, Stepp DW, Rudic RD. Low-salt diet and circadian dysfunction synergize to induces angiotensin II-dependent hypertension in mice. *Hypertension* 67:661-8, 2016.
- 144. Chen X, Rateri DL, Howatt DA, Balakrishnan A, Moorleghen JJ, Cassis LA, Daugherty A. TGF-\$ neutralization enhances AnglI-induced aortic rupture and aneurysm in both thoracic and abdominal regions. *PloS One* 11:e0153811, 2016.
- 145. Chen X, Howatt DA, Balakrishnan A, Moorleghen JJ, Wu C, Cassis LA, Daugherty A, Lu H. Angiotensin converting enzyme in smooth muscle cells promotes atherosclerosis. Arterioscler Thromb Vasc Biol 36:1085-9, 2016.
- 146. Lu H, **Cassis LA**, Kooi CW, Daugherty A. Structure and function of angiotensinogen. *Hypertens Res* 39:492-500, 2016.
- 147. Li J, Song J, Zaytseva YY, Liu Y, Rychahou P, Jiang K, Starr ME, Kim JT, Harris JW, Yiannikouris FB, Katz WS, Nilsson PM, Orho-Melander M, Chen J, Zhu H, Fahrenholz T, Higashi RM, Gao T, Morris AJ, **Cassis LA**, Fan TW, Weiss HL, Dobner PR, Melander O, Jia J, Evers BM. An obligatory role for neurotensin in high-fat-diet-induced obesity. *Nature* 533:411-5, 2016.
- 148. Wang Y, Shoemaker R, Powell D, Su W, Thatcher SE, Cassis LA. Differential effects of Mas receptor deficiency on cardiac function and blood pressure in obese male and female mice. Am J Physiol Heart Circ 312:H459-H468, 2017.
- 149. Vasam G, Joshi S, Thatcher SE, Bartelmez SH, **Cassis LA**, Jarajapu YP. Reversal of bone marrow mobilopathy and enhanced vascular repair by angiotensin-(1-7) in diabetes. *Diabetes* 66:505-518, 2017.
- 150. Jackson E, Shoemaker R, Larian N, **Cassis LA.** Adipose tissue as a site of toxin accumulation. *Comprehensive Physiology* 7:1085-1135, 2017.

- 151. Al-Siraj Y, Thatcher SE, Charnigo R, Chen K, Blalock E, Daugherty A, **Cassis LA.** Female mice with an XY sex chromosome complement develop severe angiotensin Il-induced abdominal aortic aneurysms. *Circulation* 135:379-391, 2017.
- 152. Arnold AP, **Cassis LA**, Eghbali M, Reue K, Sandberg K. Sex hormones and sex chromosomes cause sex differences in the development of cardiovascular diseases. *Arteriolscler Thromb Vasc Biol* 37:746-756, 2017.
- 153. Wang Y, Thatcher SE, **Cassis LA.** Blood pressure monitoring using radiotelemetry in mice. *Methods Mol Biol* 1614:75-85, 2017.
- 154. Wang Y, Thatcher SE, **Cassis LA.** Measuring blood pressure using a noninvasive tail cuff method in mice. *Methods Mol Biol* 1614:69-73, 2017.
- 155. Wang Y, **Cassis LA**, Thatcher SE. Use of a fluorescent substrate to measure ACE2 activity in the mouse abdominal aorta. *Methods Mol Biol* 1614:61-67, 2017.
- 156. Kim HW, Blomkalns AL, Ogbi M, Thomas M, Gavrila D, Neltner BS, Cassis LA, Thompson RW, Weiss RM, Lindower PD, Blanco VM, McCormick ML, Daugherty A, Fu X, Hazen SL, Stansfield BK, Huo Y, Fulton DJR, Chatterjee T, Weintraub NL. Role of myeloperoxidase in abdominal aortic aneurysm formation: mitigation by taurine. *Am J Physiol* 313:H1168-1179, 2017.
- 157. Alsiraj A, Thatcher SE, Blalock E, Fleenor B, Daugherty A, **Cassis LA.** Sex chromosome complement defines diffuse versus focal angiotensin II-induced aortic pathology. *Arterioscler Thromb Vasc Biol* 38:143-153, 2018.
- 158. Robinet P, Milewicz DM, **Cassis LA**, Leeper NJ, Lu HS, Smith JD. Consideration of sex differences in design and reporting of experimental arterial pathology studies-statement from ATVB Council. *Arterioscler Thromb Vasc Biol* 38:292-303, 2018.
- 159. Stegbauer J, Thatcher SE, Yang G, Bottermann K, Rump LC, Daugherty A, **Cassis** LA. Mas receptor deficiency augments angiotensin II-induced atherosclerosis and aortic aneurysm ruptures in hypercholesterolemic mice. *J Vasc Surg*, pii: S0741-5214(19)3027-2, 2019.
- 160. Shoemaker R, AlSiraj Y, Chen J, **Cassis L**. Pancreatic AT1aR deficiency decreases insulin secretion in obese C57BL/6 mice. *Am J Hypertens* 9:597-604, 2019.
- 161. AlSiraj Y, Chen X, Thatcher SE, Temel RE, Cai L, Blalock E, Katz W, Ali HM, Petriello M, Deng P, Morris AJ, Wang X, Lusis AJ, Arnold AP, Reue K, Thompson K, Tso P, Cassis LA. XX sex chromosome complement promotes atherosclerosis in mice. Nature Communications 10:2631, 2019.
- 162. Larian N, Ensor M, Thatcher SE, English V, Morris AJ, Stromberg A, **Cassis LA**. Pseudomonas aeruginosa-derived pyocyanin reduces adipocyte differentiation, body weight, and fat mass as mechanisms contributing to septic cachexia. *Food and Chemical Toxicology* 130:219-230, 2019.
- 163. Jackson E, Thatcher SE, Larian N, English V, Soman S, Morris AJ, Weng J, Stromberg A, Swanson HI, Pearson K, Cassis LA. Effects of aryl hydrocarbon receptor deficiency on PCB77-induced impairment of glucose homeostasis during weight loss in male and female obese mice. *Environ Health Perspect* 127:77004, 2019.

E. Chapters in Books

"Mechanisms of Adenosine- and ATP-induced Relaxation in Rabbit Femoral Artery: Role of Endothelium and Cyclic Nucleotides." **Cassis L.A.**, Loeb A.L. and Peach M.J. Presented at the International Adenosine Symposium in Munich, *Topics and Perspectives in Adenosine Research*, edited by E. Gerlach and B. Becker, pp. 486-499, 1986.

"Near-IR Imaging of Atheromas in Living Arterial Tissue." **Cassis L**. and Lodder R. *Scientific Excellence in Supercomputing*, Volume 2, edited by K. Billingsley, H. Brown and E. Derohanes, 1992.

"Vasoactive Substances: Renin, Angiotensin and Kinins." **Cassis L.A.** in *Modern Pharmacology*, 4th edition, edited by C. Craig and R. Stitzel, Little Brown and Company, 1993.

"Vasoactive Substances: Renin, Angiotensin and Kinins." **Cassis L.A.** in *Modern Pharmacology*, 5th edition, edited by C. Craig and R. Stizel, Little Brown and Company, 1995.

"Vasoactive Substances: Renin, Angiotensin and Kinins." **Cassis L.A.** in *Modern Pharmacology*, 6th edition, edited by C. Craig and R. Stitzel, Little Brown and Company, 2003.

"AngiotensinII-induced aortic aneurysms." Wang YX, **Cassis LA**, Daugherty A. Pg. 125-146. In: A Handbook of mouse models of cardiovascular disease. Ed. Q Xu. Wiley, 2006.

"Vasoactive Substances: Renin, Angiotensin and Kinins." **Cassis LA.** In Modern Pharmacology, 7th edition, edited by C. Craig, Little Brown and Company, 2008.

"Antihypertensive Drugs." **Cassis LA.** In *Modern Pharmacology*, 7th edition, edited by C. Craig, Little Brown and Company, 2008.

"Adipose tissue and blood pressure regulation". **Cassis LA**, Police SB. In Adipose Tissue in Health and Disease, John Wiley and Sons Company, 2009.

F. Patents

Robert A. Lodder and Lisa A. Cassis, "Apparatus and Method for Analyzing Tissue", U.S. Patent Application Serial Number 945,202 filed Sept. 15, 1992.