

**CURRICULUM VITAE**

June 21, 2017

**EDWARD THOMAS MORGAN, PH.D.**  
 PROFESSOR OF PHARMACOLOGY  
 EMORY UNIVERSITY SCHOOL OF MEDICINE

**DATE AND PLACE OF BIRTH** : December 13, 1954; Millport, Scotland

**ADDRESS** : Department of Pharmacology                   3889 Lee Ridge Way  
 Emory University, Atlanta GA 30322           Lilburn, GA 30047  
 (404) 727-5986   (770) 564-9512

**NATIONALITY** : U.S. citizen, British National.

**EDUCATION** :

1976   B.Sc (Pharmacology) Upper Second Class Honours  
 University of Glasgow, Scotland

1979   Ph.D. (Pharmacology) University of Glasgow, Scotland. Thesis title  
 "Ethanol: Its effects on hepatic microsomal drug metabolism".  
 Advisors : Dr. G. Powis, Dr. P. Skett

**PROFESSIONAL APPOINTMENTS** :

1979-1982   Postdoctoral Scholar, Department of Biological Chemistry, University  
 of Michigan, Ann Arbor, MI (with Dr. M.J. Coon).

1982-1986   Visiting Scientist Fellow, Department of Medical Nutrition,  
 Karolinska Institute, Stockholm, Sweden (with Prof. J.-Å. Gustafsson)

1986-1992   Assistant Professor, Department of Pharmacology  
 Emory University, Atlanta, GA

1992-1999   Associate Professor, Department of Pharmacology,  
 Emory University

1999-present   Professor, Department of Pharmacology, Emory University

1995-present   Winship Cancer Center, Drug Discovery and Development Division ,  
 Emory University

**RESEARCH INTERESTS** :

Regulation of cytochrome P450 and other drug metabolizing  
 enzymes; Nitric oxide signaling; protein degradation

**TEACHING ACTIVITY** :

1982-1986   Lecturer in Graduate and Undergraduate Courses in Biochemical  
 Toxicology, Karolinska Institute, Stockholm, Sweden

1987-2007   Lecturer in BAHS 501 - Allied Health Pharmacology, Emory  
 University. 3-4 hr/ year

1987-present   Lecturer in IBS 531 Introduction to Pharmacology (graduate), Emory  
 University. 4hr/year

1987-2006   Lecturer in MEDI 640 - Medical Pharmacology, Emory University, 6-7  
 hr/year

1989-1999	Course Director and Lecturer, IBS 740 - graduate course in Molecular Toxicology, Emory University, 9 lecture hr/year
1989	Lecturer in Introductory Graduate Biochemistry, Emory University, 1 hr
1991	Lecturer in Introductory Environmental and Occupational Toxicology, School of Public Health, Emory University, 2 hr
1994-97	Course Director, Graduate course in Principles and Approaches to Pharmacology, IBS 531 Emory University
1994	Co-director, Graduate Seminar PPS 597r
2000-present	Lecturer in IBS 740- Molecular Toxicology, 3-4 hr/year
2000-present	Course Director and lecturer, IBS 536 - Graduate Course in Drug Metabolism and Toxicology, Emory University. 10-12 lecture hr/year
2007-present	Lectures and small group sessions in Foundations of Medicine, Emory University, 7-8 hr/year
2008-present	Lectures in BAHS 504 - Introduction to Pharmacology for Anesthesiology Assistant, Emory University, 4-5 hr/year

**SERVICE:****Emory University**

1988-2000	Committee for Medical Student Research (Chair, 1992-2000)
June 1, 1988	Medical Curriculum Retreat
1992-95	Committee on Appointments, Promotions and Tenure, Medical School
1990	University Research Committee, Ad Hoc Reviewer
1989-1990	Coordinator for move of Pharmacology Department
1989-1992	Executive Committee, Graduate Program in Biochemistry and Molecular Biology
1990-1994	Director of Graduate Studies, Biochemistry and Molecular Biology Program
1993-1996	Executive Committee, Graduate Program in Physiological and Pharmacological Sciences
1994-1996	Director of Graduate Studies, Program in Physiological and Pharmacological Sciences
1996-1999	Director of Graduate Studies, Program in Molecular Therapeutics and Toxicology
1999-2010	Director, Graduate Program in Molecular & Systems Pharmacology
2010-2011	Co-Director, Graduate Program in Molecular & Systems Pharmacology
1990-1994	Student Teaching Assignment Committee, Graduate Division of

	Biological and Biomedical Sciences (Chair, 1991-94 )
1994-1996	Graduate Teaching Award Committee, Graduate Division of Biological and Biomedical Sciences
1994-1997	Graduate School Executive Committee (Faculty Chair, 1996-97)
1997	Medical School Strategic Planning Subcommittee on Research Infrastructure
1999	Medical School Research Committee, LCME Accreditation
1999-2002	Committee on Appointments, Promotions and Tenure, Medical School
1999-2000	Office of Research and Office of Sponsored Programs Advisory Committee
2000	Faculty Development Workshop
2000-2001	Medical School Admissions Committee, Associate Member
2001-2009	Medical School Admissions Committee, Member
2004	Review panel, Center For AIDS Research Developmental Core Grants
2006	Foundations of Medicine Subcommittee, Medical School Curriculum Revision
2007	Institutional Settings Subcommittee, LCME accreditation
2010	Institutional Review and Investigation Committee (Responsible Conduct of Research)
2012-2014	Bobby Jones Scholarship Review Committee
2012-present	Chair of the Symposium Committee, Emory University STEM Research and Career Symposium
2013- present	Graduate Coordinator, Emory Initiative for Maximizing Student Development (IMSD)
2013- present	Reviewer, Emory Conference Center Subvention Fund
2013	Strategic Planning Committee for Undergraduate Medical Education
2013-2015	Online Masters Development Committee, Department of Pharmacology
2013-2016	School of Medicine Curriculum Committee, Program Evaluation and Foundations subcommittees
2014-present	Director, Department of Pharmacology Research Internship Program
2014-2019	Bobby Jones Program Advisory Committee
2015-2018	Dean's Faculty Advisory committee, School of Medicine
2015-2018	Scientific Integrity Committee, School of Medicine

**Extramural***Professional Societies*

1993	Chair, Nominating Committee, Drug Metabolism Division of ASPET
1998-2001	Program Committee, ASPET
1998	Selection Committee, Bernard Brodie Award(ASPET)
1998-2001	Chair-Elect, Chair and Past-Chair, Drug Metabolism Division of ASPET
2003-2006	Councillor, Drug Metabolism Division of ASPET
2005-2010	Board of Publications Trustees, ASPET
1998-2001	Exhibits Committee, International Society for the Study of Xenobiotics (ISSX)
2006-2012	Publications and Communications Committee, FASEB
2006-2010	Julius Axelrod Award Committee, ASPET
2007- 2009	Executive Committee, Systems and Integrative Pharmacology Division of ASPET
2008-2012	Scientific Affairs Committee, ISSX
2011-2014	Secretary/Treasurer (Elect, Current and Past) ASPET
2014-	Finance committee, ASPET
2014-	Treasurer, Section on Drug Metabolism and Drug Transport, International Union of Basic and Clinical Pharmacology (IUPHAR)
2015-2019	Bernard B. Brodie Award Committee, ASPET
2017-2018	President-Elect, ASPET

*Editorial Boards*

1994-2012	Editorial Board member, <i>Drug Metabolism and Disposition</i>
1995-1999	Associate Editor, <i>Molecular Pharmacology</i>
2004-2006	Editorial Board member, <i>Current Drug Metabolism</i>
2007- 2012	Advisory Board to the Editor-in-Chief, <i>FASEB Journal</i> (Chair 2011-2012)
2009- 2016	Editorial Board member, <i>The Biochemical Journal</i>
2012-2018	Editor-in-Chief, <i>Drug Metabolism and Disposition</i>
2015-present	Founding member, Atlanta Society of Members

*Symposium and meeting organization*

April, 1991	Organizing Committee "Cytochrome P-450: Advances and Prospects" Satellite symposium of FASEB meeting.
1994	Organizer, ASPET Symposium on "Model Systems for the Study of

- Activity and Regulation of Hepatic Drug Metabolizing Enzymes", Experimental Biology 94, Anaheim, CA
- 1998 Organizer, ASPET Symposium on "Physiological and Pathophysiological Regulation of Cytochrome P450", Experimental Biology 98, San Francisco, CA
- 1999 Organizing Committee, North American meeting of the International Society for the Study of Xenobiotics - American Chemical Society/Division of Chemical Toxicology, Nashville, TN
- 1999 Co-organizer, Symposium on Regulation of Enzymes Involved in Biotransformation; Relevance of Animal Models to Humans. 9<sup>th</sup> North American ISSX Meeting, Nashville, TN October 1999
- 2001 Organizer, ASPET Symposium on "Cytochrome P450 as a Source and a Target of Nitric Oxide", Experimental Biology 2001, Orlando, FL
- 2007 Organizer, ASPET Symposium on "Regulation of Drug Metabolizing Enzymes and Transporters in Inflammatory Disease States: a symposium in honor of the career of Dr. Kenneth Renton", Experimental Biology 07, Washington, DC.
- 2011 Co-Organizer, ASPET Symposium on "Drug Metabolism and Action in Pathophysiological Conditions", Experimental Biology 2011, Washington, DC.
- 2011 Chair of the Meeting Organizing Committee, 17<sup>th</sup> North American meeting of ISSX, Atlanta GA October 16-20, 2011
- 2012-2013 Organizing Committee, 10<sup>th</sup> International meeting of ISSX, Toronto Canada. September 30 - October 3, 2013
- 2013-2014 Scientific Advisory Board, 20<sup>th</sup> International Microsomes and Drug Oxidations Meeting, Stuttgart, Germany. May 18-22, 2014
- 2014-2015 International Advisory Board, 13<sup>th</sup> European meeting of ISSX, Glasgow, Scotland June 2015
- 2015 Co-organizer, Symposium on Inflammation: Effects on Drug Metabolism and Disease Aetiology. 13<sup>th</sup> European ISSX meeting, Glasgow UK.
- 2016 Co-Chair, ASPET Symposium: Hear It From the Editors: Navigating the Course Through Journal Submission and Publication. Experimental Biology 2016, San Diego, CA. April 2016.
- 2015 - 2016 Meeting Advisory Committee, Microsomes and Drug Oxidations Symposium, Davis, CA October 2106
- 2016 Co-Chair, Symposium on The Microbiome and Drug Metabolism. Microsomes and Drug Oxidations Symposium, Davis, CA October 2106
- 2017 Organizer and Chair, ASPET Symposium on " Physiological Regulation of Drug Metabolism and Transport", Experimental Biology 2017, Chicago, IL

*Ad Hoc Manuscript Reviews:*

Archives of Biochemistry and Biophysics	J. Gastroenterol. Hepatol.
Biochemical Pharmacology	Journal of Molecular Endocrinology
Biochemistry	Journal of Neurochemistry
Biochimica et Biophysica Acta	Journal of Nutrition
British Journal of Pharmacology	J. Pharmacol. Exp. Therap.
Chemical Research in Toxicology	Hepatology
Endocrinology	Life Sciences
Eur. J. Clin. Pharmacol.	Proc. Natl. Acad. Sci. U.S.A.
Free Radicals in Biology and Medicine	Science
Gastroenterology	Toxicol. and Applied Pharmacology
Journal of Clinical Investigation	Toxicology Letters
Journal of Biological Chemistry	Xenobiotica

*Grant Review Panels*

2002-2003	Member, PHRA Study Section, National Institutes of Health
2004-2006	Member, XNDA Study Section, National Institutes of Health
2010-2012	Member, College of CSR Reviewers, National Institutes of Health

*Ad Hoc grant reviews*

1992	Louisiana State University Research Grants
1993	American Cancer Society
1998	Louisiana Board of Regents Support Fund
1998	U.S. -Israeli Binational Science Foundation
1998-2001	Vanderbilt University Toxicology Center seed grants
2001	NIEHS Special Emphasis Panel, Advanced Research Cooperation in Environmental Health Sciences (ARCH) ZES1-JPM-B-AR
2002	PHRA Study Section, National Institutes of Health
2005,2006	MBPP Study Section, National Institutes of Health
2005	MBRS-SCORE proposals, Morehouse School of Medicine
2007	XNDA Study Section, National Institutes of Health
2007	HTSS Study Section, National Institutes of Health
2008-2009	NIH Special Emphasis Panel on Developmental Pharmacology ZRG1 CB-L 50 ( <i>Chair, 2009</i> )
2008	Kansas INBRE Pilot grant program
2009	NIEHS P30 Center Review Committee ZES1-LKB-G-E9
2010	NIH Transformative grant SEP ZRG1-BCMB-A51
2010	NIEHS Superfund P42 grant review panel ZES1 SET-V 04
2010-12	Member, College of CSR reviewers
2011	ZRG1 DKUS-C (40) P - Program Project (Chair)
2012	ZRG1 DKUS-D (03) – SEP – Chair

2014	ZRG1 DKUS-C (04) M
2015	ZRG1 DKUS C (52) (Chair)
2016	ZRG1 DKUS C (82)

**Education**

2005-2006	Pharmacology Test Committee, National Board of Medical Examin
2005-2006	United States Medical Licensing Examination Step I Test Material Development Committee for Pharmacology

**Advisory Boards**

2007- 2008	External Advisory Board, University of Texas Medical Branch NIEHS Center
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**SCHOLARSHIPS AND AWARDS :**

1976-1978	Talbot Crosbie Scholarship, Medical Faculty of the University of Glasgow
1978-1979	Gardiner Scholarship, Medical Faculty of the University of Glasgow
1982-1984	Visiting Scientist Fellowship, Swedish Medical Research Council
1984-1986	Swedish Work Health Fund
1987-1989	Faculty Development Award, Pharmaceutical Manufacturer's Association Foundation
2004	Teaching Excellence Award, Department of Pharmacology, Emory University
2010	The MSP graduate program at Emory University established the Edward T. Morgan Award for outstanding service and leadership by an MSP student
2010-2013	Georgia Cancer Coalition Distinguished Cancer Scholar
2013-2015	Georgia Research Alliance Distinguished Cancer Scientist
2016	Dean's Teaching Award, Emory University School of Medicine

**RESEARCH SUPPORT****Current***All amounts are Direct Costs*

2014-2018	2R-01GM069971-09 National Institute of General Medical Sciences "Nitric Oxide Regulation of Human CYP Enzymes" 9/1/14 – 8/31/18 \$997,710 entire project period (E. Morgan, PI),
2013-2017	1P30ES019776-01A1 National Institute of Environmental Health Sciences "HERCULES: Health and Exposome Research Center at Emory" 4/1/13-3/31/17. \$900,000 in year 4. Role: Pilot Project Core Director (G. Miller, PI).
2013-2016	R25 GM099644-01A1 National Institute of General Medical Sciences "Emory Initiative for Maximizing Student Development" 9/1/13-8/31/16 K. Wilkinson (PD/PI); P. Marsteller (MPI). \$1,140,000 yearly. Role: Asst.

## Director and Graduate Coordinator

**Pending**

2013-2016 R25 GM099644-04A1 National Institute of General Medical Sciences "Emory Initiative for Maximizing Student Development" 9/1/13-8/31/16 K. Wilkinson (PD/PI); P. Marsteller, E. Morgan (MPI). \$1,054,000 yearly. Role: MPI and Graduate Coordinator. Status: Received an impact score of 37.

**Completed**

1986-1988 Biomedical Research Support Grant. For "Hormonal Regulation of Expression of Sexually Differentiated Hepatic Isozymes of Cytochrome P-450." 7/1/86-6/30/88. \$14,700. (E. Morgan, PI)

1987-1989 Faculty Development Award, Pharmaceutical Manufacturer's Association Foundation. 7/1/87-6/30/89. \$50,000. (E. Morgan, PI)

1987-1988 Research Starter Grant, Pharmaceutical Manufacturer's Association Foundation. For "Growth Hormone Regulation of Sexually Differentiated Hepatic Isozymes of Cytochrome P-450." 1/1/87-12/31/88. \$20,000. (E. Morgan, PI)

1987-1988 Grant in Aid, American Heart Association, Georgia Affiliate. For "Altered Sex-dependent Hepatic Function in Diabetes Mellitus." 7/1/87-6/30/88. \$24,786. (E. Morgan, PI)

1988-1993 R29DK39968. National Institute of Diabetes and Digestive and Kidney Diseases, for "Growth Hormone Regulation of Hepatic Gene Expression" 5/1/88-4/30/93. \$338,157. (E. Morgan, PI)

1992-2005 R01GM46897 National Institute of General Medical Sciences. For "Suppression of P450 Genes by Inflammatory Mediators" 2/5/1992-6/30/2005. \$2,107,742 (E. Morgan, PI)

1997-2000 R01GM46897 National Institute of General Medical Sciences. For "Suppression of P450 Genes by Inflammatory Mediators". Supplement 9/1/97-6/30/00. \$64,868 (E. Morgan, PI)

1995-97 1R55GM/OD 53093. National Institute of General Medical Sciences. Shannon Director's award. For "Nitric Oxide in Regulation of Hepatic Cytochrome P450". 09/01/95 - 01/31/97. \$80,000 total. (E. Morgan, PI)

1997-2001 1R01GM53093, National Institute of General Medical Sciences "Nitric Oxide in Regulation of Hepatic Cytochrome P450. 2/01/97 - 1/31/01. \$427,563. (E. Morgan, PI)

2002-2005 R01GM46897-10S1 National Institute of General Medical Sciences. For "Suppression of P450 Genes by Inflammatory Mediators". Supplement 05/01/2003-6/30/05. \$99,500 (E. Morgan, PI)

2004-2008 R01GM069971-04 National Institute of General Medical Sciences. For "Regulation of CYP Proteins by Reactive Nitrogen Species" 2/1/04--1/31/08. \$704,000 (E. Morgan, PI)

2006 R01GM069971-03S1 National Institute of General Medical Sciences. For "Regulation of CYP Proteins by Reactive Nitrogen Species" 6/1/2006-8/10/06. \$6,446 (E. Morgan, PI)



2008-2009	R01 DK072372-03S1 "Hepatic CYP Enzymes and Host-Pathogen Interactions" 1/1/08-8/31/09/09. \$88,463 (E. Morgan, PI)
2010-2014	2R01 DK072372-08 National Institute of Diabetes and Digestive and Kidney Diseases "Hepatic CYP Enzymes and Host-Pathogen Interactions" 3/20/10-2/28/14. \$1,104,000. (E. Morgan, PI) No cost extension to 1/31/15
2004-2013	5T32GM008602 National Institute of General Medical Sciences "Graduate Training in the Pharmacological Sciences" 7/1/01-6/30/17. \$255,192 direct costs yearly, supporting six graduate student stipends. Morgan PI since 2004. (E. Morgan, PI)
2009-2013	R01GM069971-08 National Institute of General Medical Sciences. "Regulation of CYP Proteins by Reactive Nitrogen Species" 7/15/09--5/31/13. \$865,476 (E. Morgan, PI). NCE until 5/31/14
2010-2015	Georgia Research Alliance. Distinguished Cancer Clinicians and Scholars Award. 7/1/10 – 6/30/15. \$150,000 direct costs yearly.

#### **MEMBERSHIP OF PROFESSIONAL SOCIETIES:**

American Society for Pharmacology and Experimental Therapeutics  
 International Society for the Study of Xenobiotics  
 The Biochemical Society (U.K.)

#### **GRADUATE STUDENTS SUPERVISED AND CURRENT POSITIONS :**

Catriona MacGeoch, Ph.D. 1986 (Karolinska Institute) Research Associate, Imperial Cancer Institute, England  
 Brian S. Donahue, M.D., Ph.D. 1990 (Emory University) Associate Professor, Director of Pediatric Cardiac Anesthesia, Vanderbilt University  
 Anders Ström, Ph.D. 1994 (Karolinska Institute) Research Associate Professor, Biology and Biochemistry, University of Houston  
 Sara Byers Roeper, M.S. 1994 (Emory University) High School Science Teacher, Loudon County Public Schools, GA,  
 Marion Sewer, Ph.D 1998 (Emory University) Professor, U. California San Diego (deceased)  
 Thomas Barclay, M.S. 1998 (Emory University) Director of Educational Technology at Cliff Valley School, Atlanta, GA  
 Tong Li-Masters, Ph.D. 2001 (Emory University), M.D. 2005 (Medical College of Georgia). Physician, Wake Forest Baptist Med. Ctr.

**GRADUATE STUDENT DOCTORAL THESIS COMMITTEE MEMBER FOR :**

(Student, date graduated)

<b>Biochemistry &amp; Molecular Biology</b>		<b>Molecular and Systems Pharmacology</b>	
Xiaoqin Shan	1991	Romesh Subramanian	2001
Krista Hamilton	1991	Michael Davis	2003
Mary Kreck	1996	Aaron Robida	2004
Jennifer Freeman	1996	Kenneth Mandel	2005
Jiang Liu	1997	J. Scott McNally	2005
		Yvonne Nkabyo	2005
<b>Biochemistry, Cell &amp; Dev. Biology</b>		Douglas McMillin	2005
Yunfei Huang	2000	Erin Morrey	2006
Jing Chen	2001	Matthew Whalin	2007
		Roddy O'Connor	2007
<b>Nutrition and Health Sciences</b>		Lucienne Ide	2007
Emma Patten	2001	Lisa Montoya (Cockrell)	2008
Mary Yeh	2007	Yanci Mannery	2010
		Anthony Lau	2010
<b>Genetics and Molecular Biology</b>		George Rogge	2010
Beth McConnell	1996	Alicia Lyle	2010
		Sheena Brown	2011
<b>Pharmacology</b>		Jonathan Havel	2013
K. Bradford Thomas	1994	Eric Armstrong	2014
		Rich Stanton	2016
<b>Physiol. and Pharmacol. Sciences</b>		Eric Salgado	
Paula Samiec	1995	Harrison Brown	
Ward Kirlin	1996		
<b>Molecular Therapeutics and Toxicology</b>		<b>Biology, Georgia Inst of Technology</b>	
Xiaofei Wang	1998	Eric Dammer	2008
Jiyang Cai	1999		

**POSTDOCTORAL ASSOCIATES AND CURRENT POSITIONS :**

1989-90	Kristina Wright, Ph.D. - (sabbatical), Associate Professor, Department of Biology, Georgia State University. Retired.
1991-93	Kenneth Bradford Thomas, Ph.D. Project Leader, GE Healthcare
1992-95	Jin-Qiang Chen, Ph.D. Molecular Application Scientist, Goldbelt Falcon LLC. Visiting Scholar, Johns Hopkins Bloomberg School of Public Health
1994	Karen Ching, M.D., Ph.D., Microbiologist, Centers for Disease Control (CDC)
1995-1997	Luc Ferrari, Pharm.D., Ph.D. (sabbatical) Associate Professor, School of Pharmacy, University of Nancy, France
1995-1999	Heinrich Iber, Ph.D., Software engineer, NCR.
1998-99	Saswata Bhadury, Ph.D. Software developer, BellSouth
1999-03	Po-Yung Cheng, Ph.D. Biostatistician, Battelle
2002-05	Chad Brommer, Ph.D. Biologist – Herbicides, BASF
2003-05	Terrilyn A Richardson, Ph.D., Associate Professor, Northeastern Ohio Medical University

2003-2006	Alison Aitken, Ph.D., Homemaker
2006-2007	Madhusudana Rao Chaluvadi, Ph.D., Pharmacologist, FDA
2008-2010	Ryan Kinloch, Ph.D., Public Health Analyst (Policy), Centers for Disease Control and Prevention
2004- 2011	Choon-myung Lee, Ph.D. Research Associate, Emory University
2007- 2013	Beatrice Nyagode, Ph.D., Pharmacovigilance Manager, Procter & Gamble Inc.
2010-2011	Haiyan Sun, Ph.D. (sabbatical). Associate Professor, Shenzhen Polytechnic, Shenzhen, PRC.
2010-2013	Shweta Tripathi, Ph.D., Research Assistant Professor, Tuskegee University
2011-2014	Matthew Merrell, Ph.D., Study Director, Southern Research Institute
2012-2013	Bang-Sub Lee, Ph.D. (Visiting Professor), Assistant Professor, Department of Human Movement Science, Seoul Women's University
2015-	Ji Won Park, Ph.D. current

#### **UNDERGRADUATES AND POSTBACCALAUREATE STUDENTS MENTORED :**

1988-89	Catherine Norman
1991-92	Nikita Ferguson
1993-95	Anna Borodovsky. PhD, Harvard U. Associate Director Alnylam Pharmaceuticals.
2005-06	Tarik Smith
2006-08	Christal Hembree Adams, Associate Clinical Lab Data Analyst at Q <sup>2</sup> Solutions
2010-12	Petria Thompson. MD/PhD student at Vanderbilt University
2012-13	Bernard Scott. M.Sci. student in Chemistry at Georgia State University
2013-14	Sylvie Mimche.
2013	Roya Jahangardi
2015	Andrea Amez
2015-2016	Aria Byrd. PhD student in Toxicology, University of Kentucky
2015	Tian Mi. BS/MS student in Cancer Biology, Emory University
2016	Joan Cheng.

#### **INVITED RESEARCH SEMINARS AND LECTURES :**

Department of Biological Chemistry, University of Michigan. February, 1986.

Department of Clinical Pharmacology, Karolinska Institute. June 1986.

Department of Medicine, Emory University. Grand Rounds : September, 1987.

Department of Pharmacology, Mayo Clinic. January, 1988.

Department of Biochemistry, Southwestern Medical School, June, 1988.

Pharmaceutical Manufacturer's Association Foundation. Annual Awardee's Meeting, Washington D.C. February, 1989.

Department of Pharmacology, Morehouse School of Medicine. April, 1989

Department of Foods and Nutrition, University of Georgia. May, 1990.

Department of Pharmacology, Louisiana State University Medical School. April 1992.

Department of Medical Nutrition, Karolinska Institute, Sweden. May, 1992

Division of Pharmacology and Experimental Therapeutics, University of Kentucky College of Pharmacy. October, 1992.

Department of Pharmacology and Toxicology, University of Arizona College of Pharmacy March, 1994.

Department of Physiology and Pharmacology, Oregon Health Sciences University. September, 1995.

Department of Chemical Biology, Rutgers University. September, 1996.

Pfizer Inc., Central Research Division. September, 1996.

Department of Biology, Berry College. September, 1996.

Department of Medical Biochemistry and Biophysics, Karolinska Institute. December 1996.

Department of Medical Biochemistry and Biophysics, Karolinska Institute. External faculty opponent in Ph.D dissertation defense by Niclas Tindberg. December 1996.

Curriculum in Toxicology, University of North Carolina. October 1997

Minority Biomedical Research Support Program, Spelman College. June 1998

Wadsworth Center, New York State Department of Health; and SUNY Albany, School of Public Health. November 1998.

Department of Pharmacology and Toxicology, University of Alabama at Birmingham. November 1998.

Department of Pharmacology, University of Montreal. September 1999.

Department of Biochemistry, University of Texas-Houston, February 2000

Joseph F. Williams Memorial Lecture, Department of Pharmacology and Therapeutics, University of South Florida, April 2000

Departments of Pharmacology and Biological Chemistry, University of Michigan, May 2000

Department of Medicinal Chemistry, University of Washington, May 2000

Department of Biological Sciences, Clark Atlanta University, March 2001

Research Infrastructure in Minority Institutions (RIMI) Program, Spelman College, June 2001

Center for Toxicology, Vanderbilt University, September 2002

MBRS Program, Morehouse School of Medicine, September 2002

Department of Pharmacology and Toxicology, University of Arkansas for Medical Sciences, February 2005

Pfizer Inc., Groton. Pharmacokinetics, Dynamics and Metabolism Division, May 2006

Delaware Valley Drug Metabolism Group, March 2007

Fox Chase Cancer Center, March 2007

Department of Pharmacology and Toxicology, University of Texas Medical Branch, Galveston, April 2007

Department of Pharmacology, University of Toronto. Keynote Speaker, Visions in Pharmacology Symposium, May 2007

Pfizer Inc., St. Louis. Pharmacokinetics, Dynamics and Metabolism Division, May 2007

Department of Pharmacology, University of Houston. November 2007

Research Triangle Park Drug Metabolism Discussion Group, May 2008

FDA Center for Drug Evaluation and Research, Visiting Professor Lecture Series (VPLS) co-sponsored by the Office of Clinical Pharmacology and the Office of Executive Programs. October 2008.

Department of Pharmaceutical Sciences, University of Maryland, December 2008

Johnson & Johnson /Centocor, Raritan, NJ April 2010

Department of Pharmacology and Toxicology, University of Kentucky, April 2010

Boehringer-Ingelheim R&D, Ridgefield, CT, June 2010

Division of Clinical Pharmacology, Indiana University School of Medicine, May 2011

Department of Pharmaceutics, University of Pittsburgh, February 2012

Laboratory of Reproductive and Developmental Toxicology, National Institute of Environmental Health Sciences, January 2013

Department of Pharmacology and Molecular Sciences, Johns Hopkins University, January 2013.

Linus Pauling Institute, Oregon State University, April 2013

Department of Pharmaceutics, University of Washington, March 2015

Department of Biopharmaceutical Sciences, University of Illinois-Chicago, September 2015

MARC and RISE programs, Winston-Salem State University, March 2016

Department of Biological Sciences, Clemson University, April 2016

Fudan University lecture series: The Advancement and Methodology for Molecular Mechanisms of Toxicology. Shanghai, China December 2016

#### **PLATFORM AND SYMPOSIUM PRESENTATIONS:**

Symposium on Relationships between Host-Defense and Drug Biotransformation. (Chair and speaker) FASEB meeting, Anaheim, CA. April 1992.

Gordon Conference on Drug Metabolism. Session on Cytochrome P450 regulation during host defense activation. July 1992.

Symposium on Model Systems for the Study of Activity and Regulation of Hepatic Drug

Metabolizing Enzymes. (Co-Chair and speaker) Experimental Biology 94, Anaheim, CA. April 1994.

Symposium on Inflammatory Effects and Drug-Metabolism/Drug Metabolizing Enzymes. 10th International Symposium on Microsomes and Drug Oxidations, Toronto, Canada. July 1994

Symposium on Drug Metabolism in Early Drug Development. North Jersey ACS Drug Metabolism Discussion Group. Somerset, New Jersey, September 1996

Symposium on Enzymatic Transformation of Xenobiotic Chemicals. Center in Molecular Toxicology, Vanderbilt University. April 1997

Symposium on Physiological and Pathophysiological Regulation of Cytochrome P450. Experimental Biology 98, San Francisco, CA. April, 1998.

Gordon Conference on Drug Metabolism. Session on Activities and Regulation of the CYP4A Subfamily. July 1999.

Symposium on Mechanisms of Inducible Expression of P450 genes. 11<sup>th</sup> International Conference on Cytochrome P450, Biochemistry, Biophysics and Molecular Biology. Sendai, Japan. August 1999.

Symposium on Regulation of Enzymes Involved in Biotransformation; Relevance of Animal Models to Humans. 9<sup>th</sup> North American ISSX Meeting, Nashville, TN October 1999

Symposium on Drug Metabolism and Toxicology: Summer meeting, British Pharmacology Society. Cardiff, Wales July 2000

Symposium on Inflammation and Drug Metabolism (Co-chair): VII World Conference on Clinical Pharmacology and Therapeutics. Florence, Italy. July, 2000

Symposium on Cytochrome P450 as a Source and a Target of Nitric Oxide. (Chair and speaker) Experimental Biology 01, Orlando, FL. March-April 2001

Symposium on Regulation of Cytochrome P450 Gene Expression: 9<sup>th</sup> International Congress of Toxicology. Brisbane, Australia, July 2001

Symposium on Transcriptional suppression of Cytochrome P450 Genes by Endogenous and Exogenous Chemicals. Experimental Biology 2003, San Diego, CA

Southeastern Pharmacology Society, Annual Meeting October 2003, Atlanta, GA

Joint meeting of the Southeastern Pharmacology Society and Southeastern Society of Toxicology, Nashville TN, October 2005.

Symposium on Infection, Inflammation and Immunity. 5th International Congress of Pathophysiology Beijing, China, June 2006

Symposium on Modulation of Xenobiotic Response by Nutritional and Inflammatory Factors. (Co-Chair and speaker) 14<sup>th</sup> North American ISSX Meeting. Rio Grande, Puerto Rico, October 2006

Symposium on Drug Metabolizing Enzymes and Disease Pathogenesis. 2006 AAPS Annual Meeting. San Antonio, TX. November 2006.

Symposium on Regulation of Drug Metabolizing Enzymes and Transporters in Inflammatory Disease States: a symposium in honor of the career of Dr. Kenneth Renton (Chair and speaker). Experimental Biology 07, Washington DC, April 2007.

Biotransformation Workshop: Emerging Issues Related to Large Molecule Development. Applied Pharmaceutical Analysis Conference, Boston, MA September 2008.

Symposium on Drug-Drug Interactions of Biologics. 12<sup>th</sup> International Conference on Drug-Drug Interactions, Seattle WA, May 2009.

Evening Lecture, Twelfth Annual International Conference on Drug Metabolism and Applied Pharmacokinetics, University of Wisconsin Land O'Lakes Series. Merrimac, WI September 2009

Symposium on Cellular Signaling Mechanisms. International Symposium on Pharmacogenomics and the Regulation of Drug Metabolism Enzymes and Genes. Nanjing, China May 2010.

Symposium on Receptor-Mediated Drug Toxicity and Efficacy. 18<sup>th</sup> International Symposium on Microsomes and Drug Oxidations. Beijing, China May 2010

Workshop on Effect of Disease on Cytochrome P450 and Membrane Transporters. 16<sup>th</sup> World Congress of Basic and Clinical Pharmacology (WorldPharma). Copenhagen, Denmark, July 2010.

6<sup>th</sup> Annual Great Lakes Drug Metabolism and Disposition Group Meeting. Madison, WI, May 2011.

Workshop on Recent Advances in the Investigation of Therapeutic Protein Drug-Drug Interactions: Preclinical and Clinical Approaches. Food And Drug Administration, Silver Springs MD. June 2012.

New England Drug Metabolism Discussion Group. Cambridge, MA December 2012.

Symposium on Mechanistic Role(s) of Cytochrome(s) P450 in Oxidative Stress and Inflammation: New Opportunities for Drug Discovery. Society of Toxicology annual meeting, San Antonio, TX March 2013

Research Triangle Park Drug Metabolism Discussion Group. Durham NC, February 2014

Delaware Valley Drug Metabolism Discussion Group. Langhorne VA, December 2014

Symposium on Inflammation: Effects on Drug Metabolism and Disease Aetiology. 13<sup>th</sup> European ISSX meeting, Glasgow UK., June 2015.

Second Ling-Nan International Forum on DMPK, Guangzhou, China, 2015

ASPET Symposium: Hear It From the Editors: Navigating the Course Through Journal Submission and Publication. Experimental Biology 2016, San Diego, CA. April 2016.

Drug Discovery Research Institute Symposium, Shanghai Institute of Materia Medica (SIMM), Chinese Academy of Sciences, Shanghai, China, December 2016

Plenary lecture, 2<sup>nd</sup> Sunrise Symposium for Drug Metabolism, Pharmacokinetics and Dynamics. Xiamen, China, December 2016

ASPET Symposium on Physiological Regulation of Drug Metabolism and (Chair and speaker). Experimental Biology 2017, Chicago, IL.

ASPET Symposium: Hear It From the Editors: Navigating the Course Through Journal Submission and Publication. Experimental Biology 2017, Chicago, IL.

### **CONSULTATION:**

2008-2009

Consultant, Hoffmann LaRoche Inc.

2010

Consultant, Johnson & Johnson, Inc.

2010                      Consultant, Boehringer-Ingelheim  
2010                      Consultant, Abbott Laboratories

**OUTREACH:**

Panelist, National Youth Leadership Forum, Explore STEM Program, Oglethorpe University, July 2014

Panelist, National Youth Leadership Forum, Explore STEM Program, Emory University, July 2015, 2016

Personal Statements Review and Admissions Process Workshop. Georgia Gwinnett College, February 2017



**BIBLIOGRAPHY****Original research articles**

1. Powis G, Cummings J and Morgan E (1979) The Effect of Adrenalectomy upon the Absorption, Distribution and Metabolism of Ethanol in the Rat. *Life Sci.* **21**: 1033-1036. PMID7271897.
2. Morgan ET, Devine M and Skett P (1981) Changes in the Rat Hepatic Mixed Function Oxidase System Associated with Chronic Ethanol Vapour Inhalation. *Biochem. Pharmacol.* **30**: 595-600. PMID7271897.
3. Koop DR, Morgan ET, Tarr GE and Coon MJ (1982) Purification and Characterization of a Unique Isozyme of Cytochrome P-450 from Liver Microsomes of Ethanol-Treated Rabbits. *J. Biol. Chem.* **257**: 8472-8480. PMID7085677.
4. Morgan ET, Koop DR and Coon MJ (1982) Catalytic Activity of Cytochrome P-450 Isolated from Liver Microsomes of Ethanol-Treated Rabbits : Oxidation of Alcohols. *J. Biol. Chem.* **257**: 13951-13957. PMID7142188.
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7. Morgan ET and Coon MJ (1984) Effects of Cytochrome  $b_5$  on Cytochrome P-450-Catalyzed Reactions: Studies with Manganese-Substituted Cytochrome  $b_5$ . *Drug Metab. Dispos.* **12**: 358-364. PMID6145564.
8. MacGeoch C, Morgan ET, Halpert J and Gustafsson, J-Å (1984) Purification, Characterization and Pituitary Regulation of the Sex-Specific Cytochrome P-450 15 $\beta$ -Hydroxylase from Liver Microsomes of Untreated Female Rats. *J. Biol. Chem.* **254**: 15433-15439. PMID6511799.
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11. Morgan ET, MacGeoch C and Gustafsson J-Å (1985) Hormonal and Developmental Regulation of Expression of the Hepatic Microsomal Steroid 16 $\alpha$ -Hydroxylase Cytochrome P-450 Apoprotein in the Rat. *J. Biol. Chem.* **260**: 11895-11898. PMID3876334.
12. MacGeoch C, Morgan ET and Gustafsson J-Å (1985) Hypothalamo-Pituitary Regulation of Cytochrome P-45015 $\beta$  Apoprotein Levels in Rat Liver. *Endocrinology* **117**: 2085-2092. PMID4042976.
13. von Bahr C, Birgersson C, Morgan ET, Eriksson O, Goransson M, Spina E and Woodhouse K. (1985) Oxidation of Tricyclic Antidepressant Drugs, Debrisoquine and 7-Ethoxyresorufin by Human Liver Microsomes. *Xenobiotica* **16**: 391-400. PMID3739365.

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19. Donahue BS and Morgan ET (1990) Effects of Vanadate on Hepatic Cytochrome P-450 Expression in Streptozotocin-diabetic Rats. *Drug Metab. Dispos.* **18**: 519-526. PMID1698138.
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24. Morgan ET (1991) Suppression of P450IIC12 Gene Expression and Elevation of Actin Messenger Ribonucleic Acid Levels in the Livers of Female Rats after Injection of the Interferon Inducer Poly rI.poly rC. *Biochem. Pharmacol.* **42**: 51-57. PMID2069598.
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- Modulation of cytochrome P450 gene expression in endotoxemic mice is tissue-specific and PPAR $\alpha$ -dependent. *J. Pharmacol. Exp. Ther.* **290**: 1250-1257. PMID10454501.
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63. Chaluvadi MR, Nyagode BA, Kinloch RD and Morgan ET (2009) TLR4-Dependent and – Independent Regulation of Hepatic Cytochrome P450 in Mice with Chemically-Induced Inflammatory Bowel Disease. *Biochem. Pharmacol.* **77**: 464-471. PMC2932663; PMID19027721.
64. Zhang J, Chaluvadi M, Reddy R, Motika MS, Richardson TA, Cashman JR and Morgan ET (2009) Hepatic flavin-containing monooxygenase gene regulation in different mouse inflammation models. *Drug Metab. Dispos.* **37**: 462-468. PMC2680514; PMID19088265.
65. Lee C-M, Pohl J and Morgan ET (2009) Dual mechanisms of CYP3A protein regulation by proinflammatory cytokine stimulation in primary hepatocyte cultures. *Drug Metab. Dispos.* **37**: 865-872. PMC2680532; PMID19171675.
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72. Mimche SM, Nyagode BA, Merrell MD, Lee C-M, Prasanphanich NS, Cummings RD and Morgan ET (2014) Hepatic cytochrome P450s, phase II enzymes and nuclear receptors are down-regulated in a Th2 environment during *Schistosoma mansoni* infection. *Drug Metab Dispos* **42**: 134-40. E-pub October 25, 2013, doi:10.1124/dmd.113.054957 PMC3876789; PMID24163175.
73. Nyagode BA, Williams I and Morgan ET (2014) Altered inflammatory responses to *Citrobacter rodentium* infection, but not to bacterial lipopolysaccharide, in mice lacking the *Cyp4a10* and *Cyp4a14* genes. *Inflammation*, 37:893-907 E-pub Jan 11, 2014. Doi 10.1007/s10753-013-9809-6. PMC4035451; PMID24413902.
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76. Mimche PN, Brady LM, Bray CF, Thapa M, McDermott CD, King TP, Quicke K, Lee CM, Mimche SM, Grakoui A Morgan ET and Lamb TJ (2015) The receptor tyrosine kinase EphB2 promotes hepatic fibrosis in mice. *Hepatology* 62: 900-914 E-pub Mar 17, 2015 doi: 10.1002/hep.27792. PMCID: 5459176; PMID 25784101.
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### Refereed review articles

1. Morgan ET and Gustafsson J-Å (1987) Sex-Specific Isozymes of Cytochrome P-450. *Steroids* **49**: 213-245. PMID3331849.
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4. Morgan ET (2001) Regulation of cytochrome P450 by inflammatory mediators: Why and How? *Drug Metab. Dispos.* **29**: 207-212. PMID11181485.
5. Cheng P-Y and Morgan ET (2001) Hepatic Cytochrome P450 Regulation in Disease States. *Curr. Drug Metab.* **2**: 165-183. PMID11469724.
6. Aitken AE, Richardson TA and Morgan ET (2006) Regulation of Drug Metabolizing Enzymes and Transporters in Inflammation. *Ann. Rev. Pharmacol. Toxicol.*, **46**: 123-149. PMID1642901.
7. Morgan ET (2009) Impact of infectious and inflammatory disease on cytochrome P450-mediated drug metabolism and pharmacokinetics. *Clin Pharmacol. Therap.* **85**: 434-438. PMID3139248; PMID19212314.
8. Harvey RD and Morgan ET (2014) Cancer, inflammation, and Therapy: Effects on Cytochrome P450-Mediated Drug Metabolism and Implications for Novel Immunotherapeutic Agents. *Clin Pharmacol. Therap.* **96**: 449-457. PMID 24987833.

### Book chapters, monographs and symposium reports

1. Coon MJ, Koop DR, Persson AV and Morgan ET (1980) Inducible and Constitutive Isozymes of Microsomal Cytochrome P-450. In *Biochemistry, Biophysics and Regulation of Cytochrome P-450*. (J.-Å. Gustafsson et al., eds.) pp. 7-15, Elsevier/North Holland.
2. Coon MJ, Black SD, Koop DR, Morgan ET and Persson AV (1981) Structure and Function of NADPH-cytochrome P-450 Reductase and of Isozymes of Cytochrome P-450. In *Mitochondria and Microsomes* (L.P. Lee et al., eds.) pp. 701-728, Addison-Wesley Publishing Co., London.
3. Koop DR, Morgan ET and Coon MJ (1982) Purification of Multiple Forms of Rabbit Hepatic Cytochrome P-450. In *Microsomes, Drug Oxidations and Drug Toxicity* (Sato, R. and Kato, R., eds.) pp. 85-86, Wiley-Interscience, New York.
4. Coon MJ, Black SD, Koop DR, Morgan ET and Tarr GE (1982) Structural and Catalytic Studies with Purified Microsomal Enzymes. In *Microsomes, Drug Oxidations and Drug Toxicity* (Sato, R. and Kato, R., eds.) pp. 13-23, Wiley-Interscience, New York.
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6. Gustafsson J-Å, MacGeoch C and Morgan ET (1985) Isolation, Characterization and Regulation of Sex-Specific Isozymes of Cytochrome P-450 Catalyzing 15 $\beta$ - Hydroxylation of Steroid Sulphates and 16 $\alpha$ -Hydroxylation of 4-Androstene-3,17-dione. In *Microsomes and Drug Oxidations* (A.R. Boobis et al., eds.) pp. 55-62. Taylor and Francis, London.
7. MacGeoch C, Morgan ET and Gustafsson J-Å (1985) Hormonal Regulation of Sexually Differentiated Cytochrome P-450 Isozymes in Rat Liver. In *Cytochrome P-450, Biochemistry, Biophysics and Induction* (L. Vereczkey and K. Magyar, eds.) pp. 235-238. Akademiai Kiado, Budapest.
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### Editorials and Letters to the Editor

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