

MALA S. MAHENDROO, Ph.D.

Curriculum Vitae

Professional Address: Department of Obstetrics and Gynecology
The University of Texas Southwestern Medical Center
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EDUCATION:

Ph.D. in Biochemistry and Molecular Biology, October 1992
University of Texas Southwestern Medical Center, Dallas, TX

B.S. in Biochemistry, December 1986
Texas A&M University, College Station, TX

PROFESSIONAL EXPERIENCE:

2015-Present Professor, Department of Obstetrics and Gynecology, The University of Texas Southwestern Medical Center, Dallas, TX.

2010- Present Member, Green Center for Reproductive Biological Sciences, The University of Texas Southwestern Medical Center, Dallas, TX.

2008 – 2015 Associate Professor, Department of Obstetrics and Gynecology, The University of Texas Southwestern Medical Center, Dallas, TX.

2004 – Present Member, Integrative Biology Graduate Program, Division of Basic Sciences Graduate Program, The University of Texas Southwestern Medical Center, Dallas, TX.

2000 – 2008 Assistant Professor, Department of Obstetrics and Gynecology, The University of Texas Southwestern Medical Center, Dallas, TX.

1993 – 2000 Postdoctoral Fellow, Department of Molecular Genetics, University of Texas Southwestern Medical Center, Dallas, TX. *Mentor:* Dr. David W. Russell. *Project:* Targeted Gene Disruption of Steroid 5 α -Reductase in Mice.

1987 – 1992 Graduate Student, Department of Biochemistry, University of Texas Southwestern Medical Center, Dallas, TX. *Advisor:* Dr. Evan R. Simpson; *Thesis Project:* Tissue-specific and hormonally-controlled alternative promoters regulate aromatase cytochrome P450 gene expression in human adipose.

HONORS/AWARDS:

1993 – 1996	NIH, National Research Service Award, Research Fellowship Award.
1996 – 1997	Lalor Foundation, Lalor Fellowship.
1997 – 2003	Burroughs-Wellcome Career Award.
2004-2007	March of Dimes Prematurity Research Initiative Award
2010 – 2012	Hartwell Foundation Scholar.
2011- 2015	Burroughs Wellcome Preterm Birth Initiative Award
2014 - 2017	March of Dimes Prematurity Research Initiative Award
2016	<i>Endocrinology's</i> 2015 Best Reviewer Award
2019-2023	Burroughs Wellcome Preterm Birth Initiative Award

SUMMARY OF GRANT SUPPORT:

Ongoing:

March of Dimes- Washington University Transdisciplinary Research Center on Prematurity

George Macones, MD, (PI) 11/01/14-10/31/19

Theme 1: “*High-speed Functional Photoacoustic Endoscopy for Assessment of Cervical Remodeling*”

Tuuli, M, MD and Wang, L, Ph.D, (Co-PIs)

Mahendroo, M (Co-investigator)

The Department of Obstetrics and Gynecology at Washington University in St. Louis, MO has a Center grant from the March of Dimes to study prematurity. The focus of Theme 1 is to develop imaging methods and biomarker screening of cervico-vaginal fluids to assess term and preterm cervical remodeling in women. Dr. Mahendroo will carry out biomarker development and provide guidance on endoscope development from a biological perspective.

R01- Mahendroo (PI)

NIH/NICHD 04/1/2016-03/31/21

Title: “*Mechanisms of Infection-mediated Preterm Birth*”

The focus of this application is to utilize mouse cervical RNA-profiling data to identify microRNA

interactions with target mRNA or long noncoding RNAs that regulate infection-mediated premature cervical ripening and to investigate mechanisms by which premature cervical ripening increases risk of prematurity in a subsequent pregnancy.

R01 - Mahendroo (PI), Myers (Co-PI)

09/1/2016-8/30/2021

NIH/NICHD

Title: “*Mechanisms by which steroid hormones modulate cervical ECM structure and function during pregnancy and provide therapeutic protection against preterm birth*”

Goal: The focus of this application is to understand how steroid hormones regulate assembly, processing and turnover of the ECM during pregnancy and to discern how these changes

impact biomechanical function of the cervix.

NIH P01

12/16/2016 – 12/15/2021

Carole Mendelson, Ph.D. (PI)

Title: “*Molecular and Genomic Actions in the Biology of Pregnancy and Parturition*”

Project 4: Mala Mahendroo (PI)

Title: “*Mechanisms of cervical epithelial barrier protection against ascending infection*”

This study proposes to evaluate the role and regulation of hyaluronan during the cervical ripening in the mouse and human.

Burroughs Welcome Fund Prematurity Research Initiative Grant

(Mala Mahendroo PI, Gary Hon, Partner)

6/1/2019-5/30/2023

Title: “*Defining the Spatio-Temporal Drivers of Cervical Remodeling in Pregnancy and Parturition*”

This proposal aims to use single cell genomics to define the dynamic cellular states of cervical cells during normal pregnancy and parturition and to determine the molecular drivers of these states.

Completed:

March of Dimes 21-FY14-131

04/01/14 – 03/31/17

Mahendroo (PI)

Title: “*Insights into Diversity of Cervical Ripening Processes in Term and Preterm Birth*”

The goal of this study is to define the signaling pathways and resulting changes in the ECM that drive prostaglandin-dependent and prostaglandin-independent pathways of cervical remodeling.

PROFESSIONAL SOCIETIES AND COMMITTEES:

Society for the Study of Reproduction

2000-ongoing Member
2004 – 2009 *Membership Committee*
2007 – 2009 *Program Committee*

Society of Gynecological Investigation

2008 – 2010 *SGI Representative to FASEB*
2007 – 2010 *Publication Committee for Reproductive Sciences Journal*
2010 – 2017 **Chair, Publication Committee for Reproductive Sciences Journal**

Texas Forum for Reproductive Sciences

2006 – Present *Steering Committee*
2008 - 2009 *Meeting Organizer*
2017 *Meeting Organizer*

American Association for the Advancement of Science

Endocrine Society

International Society of Hyaluronan Sciences
2014- Present

Perinatal Research Society
2009 – Present

EDITORIAL BOARDS

Biology of Reproduction Journal
2006 – 2009 and 2012-2018

Board of Reviewers

Endocrinology
2015-2018

Board of Reviewers

Molecular Human Reproduction
2017-ongoing

Associate Editor

Ad hoc reviewer for the following journals: *Molecular Human Reproduction, Reproductive Sciences, Endocrinology, American Journal of Obstetrics and Gynecology, Journal Biological Chemistry, Molecular and Cellular Endocrinology, Physiological Genomics, Reproduction, Proceedings of National Academy of Sciences, Biology of Reproduction, Annals of Biomedical Engineering, J of Reprod Immunol, J of Cellular and Molecular Medicine, Tissue Engineering, Scientific Reports Nature*

REVIEW COMMITTEES:

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| 2006 | Scottish Executive Health Department, Chief Scientist Office, Edinburgh, Scotland, Grant Reviewer |
| 2006 | Ad hoc Reviewer for National Institutes for Health, Global Research Initiative Program, R01; ICP1/ZRG1 BDA-G review panel. |
| 2007 | External Reviewer for The Canadian Breast Cancer Foundation – Prairies/NWT Region, |
| 2009 | External Reviewer for Sheffield Hospitals Charitable Trust, United Kingdom, |
| 2011-August 2018
2018-ongoing | Reproductive Scientist Development Program Selection Committee, NIH
Reproductive Scientist Development Program Selection Committee Co-Chair, NIH |
| 2012 | Ad hoc Grant reviewer for The North Carolina Biotechnology Center |
| 2014 | Collaborative Faculty Research Investment Program (CFRIP) Baylor, Scott and White Healthcare System |
| June, 2016 | NIH, Pregnancy and Neonatology Study Section, <i>Ad Hoc reviewer</i> |

- March, 2017 NIH, ZRG1 EMNR-S (02) M Member Conflict Pregnancy and Neonatology
- November 15, 2017 NIH, ZRG1 EMNR-S (55) Translational Research in Pediatric and Obstetric Pharmacology and Therapeutics
- June 25-26, 2018 NIH, Pregnancy and Neonatology Study Section, *Ad Hoc reviewer*

INVITED PRESENTATIONS:

- March, 2002 “*New Insights into Molecular Events Controlling Parturition*”, **Society of Gynecological Investigation**, Los Angeles, CA
- April, 2002 “*Insights into the Distinct Physiological Roles of Steroid 5 α -Reductase type 1 and 2*” **University of Virginia, Center for Research in Reproduction**, Charlottesville, VA.
- October, 2002 “*5 α -Reductase Type 1 and 2: Female and Male Isozymes*”, **International Congress on Hormonal Steroids and Hormones and Cancer**, Fukuoka, Japan.
- February, 2003 “*Insights into the Distinct Physiological Roles of Steroid 5 α -Reductase Type 1 and 2*”, **Brigham Young University, Department of Physiology and Developmental Biology**, Provo, Utah.
- April, 2003 “*Molecular Mechanisms of Parturition*”, **Cleveland Clinic, Department of Biomedical Engineering, Lerner Research Institute**, Cleveland, Ohio.
- April, 2003 “*Parturition: A Tale of Two Species*”, **Texas Forum on Female Reproduction**, Houston, TX
- March, 2004 “*Molecular Endocrinology of Cervical Ripening: Insights From Parturition Defective Mouse Models*” **Endocrine Grand Rounds**, Department of Internal Medicine, UT Southwestern Medical Center at Dallas, TX
- September, 2004 “*Molecular Mechanisms of Cervical Ripening: Insights from Parturition Defective Mouse Models*” **Medical Scientist Training Program**, Works in Progress Seminar, UT Southwestern Medical Center at Dallas, TX.
- March, 2005 “*Molecular Mechanisms of Cervical Ripening*”, **3rd International Workshop Biomarkers and Preterm Birth**, UCLA Lake Arrowhead Conference Center, CA.
- November, 2005 “*Molecular Mechanisms of Cervical Ripening*”, **March of Dimes Prematurity Symposium**, Washington, D.C.
- March, 2006 “*Cervical Remodeling During Pregnancy and Parturition: New Insights into Mechanisms*”, **Myometrial Satellite Symposium**, Society for Gynecologic Investigation, Toronto, CA
- September, 2006 “*The Role of Inflammatory Signals in Cervical Remodeling during Pregnancy and Birth*”, **12th International Congress on Hormonal Steroids and Hormones and Cancer**, Athens, Greece.

- November, 2006 *“The Role of Inflammatory Cells in Cervical Ripening”*. **VIIIth International Conference on Extracellular Matrix in the Female Reproductive Tract**, Maui, Hawaii
- April, 2007 *“Investigations into the Regulation and Function of HA during Cervical Ripening in Preparation for Birth”*. **International Conference on Hyaluronan**, Charleston, South Carolina.
- November 27, 2007 *“Molecular Mechanisms of Cervical Remodeling”* Maternal Fetal Medicine Fellows Conference, Department of Obstetrics and Gynecology, **University of Texas Southwestern Medical Center**, Dallas, TX.
- January, 29 2008 *“Molecular Mechanisms of Cervical Remodeling during Pregnancy and Parturition”* Department of Molecular Physiology and Biophysics, **University of Iowa**, Iowa City, Iowa.
- February 19, 2008 *“Molecular Mechanisms of Cervical Remodeling during Pregnancy and Parturition”* Department of Surgery – Angiogenesis Seminar Series, **University of Texas Southwestern Medical Center**, Dallas, TX.
- March 5, 2008 *“Molecular Mechanisms of Cervical Remodeling during Pregnancy and Parturition”* Center for Research on Reproduction and Women’s Health, **University of Pennsylvania**, Philadelphia, PA.
- March 25, 2008 *“Uterine Cervical ECM Remodeling: Current Paradigms”* **Extracellular Matrix Satellite meeting at the Society for Gynecological Investigation meeting**, San Diego, CA.
- August 8, 2008 *“Cervical Remodeling during Pregnancy and Parturition”*, **Gordon Research Conference on Reproductive Tract Biology**, Andover, NH.
- October 23, 2008 *“Open and Shut: How does the cervix remodel for successful birth?”* **South Central Conference on Perinatal Medicine**, Austin, TX.
- November 7, 2008 *“Cervical Remodeling during Pregnancy and Parturition”* **Perinatology Research Branch, Wayne State University**, Detroit, MI.
- December 4, 2008 *“New Paradigms in Parturition Research – New Hopes to Reduce Preterm Birth”* **Southwestern Gynecologic Assembly**, Dallas, TX
- March 3, 2010 *“Open and Shut: How does the cervix remodel for successful birth?”* **State University of New York**, Buffalo, NY
- December 7, 2010 *“Cervical Remodeling in Term and Preterm Birth: Insights from an Animal Model”* **March of Dimes/BWFund Preterm Birth Conference**, Newport Beach, CA
- October 3, 2011 *“Predicting Preterm Labor: Evaluation of Second harmonic Generation Endoscopy as a Potential Clinical Tool”* **The Hartwell Foundation Annual Meeting**, Memphis, TN
- November 11, 2011 *“Cervical Remodeling in Term and Preterm Birth: New Insights into Distinct mechanisms”* **Division of Neonatal-Perinatal Medicine Research Conference, University of Texas Southwestern Medical Center at Dallas**, Dallas, TX

- January 11, 2012 *“Open and Shut: How does the cervix remodel for successful birth?”*
Washington University, St Louis, MO
- July 18, 2012 *“Open and Shut: How does the cervix remodel for successful birth?”*
STARS program, University of Texas Southwestern Medical Center at Dallas, Dallas, TX
- September 25, 2012 *“Cervical Remodeling: From Bench to Bedside”* Irving B. Harris Visiting Professor Lectureship, **University of Illinois, Chicago, IL**
- March 21, 2013 *“Cervical Remodeling: From Molecular Pathways to Potential Clinical Tools”* **Society for Gynecological Investigation Annual Meeting, Orlando, FA**
- September 19, 2013 *“Open and Shut: How does the cervix remodel for successful birth?”*
Department of Obstetrics and Gynecology, **Johns Hopkins University, Baltimore, MD**
- September 22, 2013 *“Cervical Remodeling in Term and Preterm Birth: New Insights into Distinct Mechanisms”*, **Perinatal Research Society, Chicago, IL**
- September 27, 2013 *“Cervical Remodeling in Term and Preterm Birth: New Insights into Distinct Mechanisms”*, **Division of Neonatal-Perinatal Medicine Research Conference, University of Texas Southwestern Medical Center at Dallas, Dallas, TX**
- August 12, 2014 *“New Insights into Gene Expression Programs driving Cervical Ripening in Term and Preterm Birth”* **Gordon Conference of Mammalian Reproduction, New London, New Hampshire**
- October 14, 2014 *“ECM of the cervical epithelia: new insights into barrier function and preterm birth”* **Mechanotransduction of the Reproductive Tract, Durham, NC.**
- March 25, 2015 *“Cervical Hyaluronan: Its Not What You Think”* **Myometrial Satellite Meeting, Society for Reproductive Investigation Annual Meeting, San Francisco, CA**
- April 6, 2015 *“Surprising roles of hyaluronan and decorin in the cervix during pregnancy”*
Johns Hopkins University
- August 28, 2015 *“Dynamic duos in cervical remodeling during pregnancy: progesterone-estrogen and collagen-elasticin”* **Sex, steroids and breast cancer meeting, Ayers Rock, Australia**
- October 26, 2015 *“ECM reorganization in the cervix during pregnancy: preparation for term and protection against preterm birth”* **Guangzhou Institute of Biomedicine and Health, Chinese Academy of Sciences, Guangzhou, China**
- October 27, 2015 *“Surprising roles of hyaluronan in the cervix”* **Guangzhou Womens and Childrens Hospital, Guangzhou, China**

- October 28, 2015 “*ECM reorganization in the cervix during pregnancy: preparation for term and protection against preterm birth*” **Central South University, XIANGYA School of Medicine**, Changsha, China
- February 17, 2016 “*Infection-mediated preterm birth and the role of hyaluronan in protection*” Department of Obstetrics and Gynecology, **Yale University**, New Haven, Connecticut
- March 4, 2016 “*Mechanisms by which steroid hormones regulate cervical extracellular matrix architecture and function in pregnancy.*” Department of Veterinary Physiology, **Texas A&M University**, College Station, TX.
- September 28, 2016 “*New Approaches to Overcoming an Old Problem: The Role of the MOD Transdisciplinary Centers in Reducing Prematurity*”, March for Babies Chair/Staff Partner Training Meeting, **March of Dimes**, Kansas City, Kansas.
- October 21, 2016 “*Pregnancy, parturition and prevention of preterm birth: New insights into an old process.* Keynote Address at: Laura W. Bush Institute for Women’s Health at **Texas Tech Health Science Center**, 5th Annual Gender-Specific Medicine and Women’s Health Symposium
- November 18, 2016 “*New Approaches to Overcoming an Old Problem: An Update on Research Efforts to Understand Preterm Birth*” Fighting Prematurity: Pieces of the Puzzle Symposia, **March of Dimes**, Fort Worth, TX.
- January 13, 2017 “*Progesterone and estrogen collaborate to regulate ECM dynamics in the pregnant cervix*”, **Division of Neonatal-Perinatal Medicine Research Conference, University of Texas Southwestern Medical Center at Dallas**, Dallas, TX
- July 16, 2017 “*Progesterone and estrogen collaborate to regulate ECM dynamics in the pregnant cervix*” **Society for the Study of Reproduction Annual Meeting**, Washington DC
- November 3, 2017 “*Cervical Remodeling: From Molecular Pathways to Potential Clinical Tools*” **Department of Biomedical Engineering, Florida International University**, Miami, FA
- January 18, 2018 “*Cervical Remodeling in Term and Preterm Birth: two paths with a common endpoint*” **Department of Obstetrics and Gynecology, Columbia University**, NY, NY
- January 26, 2018 “*Cervical Remodeling: From Molecular Pathways to Potential Clinical Tools*”, **Division of Neonatal-Perinatal Medicine Research Conference, University of Texas Southwestern Medical Center at Dallas**, Dallas, TX
- April 6, 2018 “*Hormonal regulation of the evolving cervical ECM architecture in pregnancy and parturition*” **Texas Forum Reproductive Sciences**, Keynote Speaker, Houston, TX
- November 28, 2018 “*Cervical Remodeling in Term and Preterm Birth: two paths with a common endpoint*” **Department of Pharmacology and Molecular Sciences, Johns Hopkins University**, Baltimore, MD

UT SOUTHWESTERN- Current and Past Trainees:

Postdoctoral and Clinical Fellows:

1. **Neeraj Dhar, Ph.D.**, September, 2002 – March, 2003, *Gene regulation of steroid 5 α -reductase type 1.*
2. **Patricia Santiago-Munoz, M.D.**, Maternal Fetal Medicine Fellow. October 2003 – January 2005, *Investigation to evaluate hyaluronan as a marker for preterm labor in women.* Currently Associate Professor in the Department of Obstetrics and Gynecology at UT Southwestern Medical Center.
3. **Brenda Timmons, Ph.D.**, July 2003 – 2012, *Role of inflammatory signals in cervical ripening and tissue specific regulation of steroid 5 α -reductase type 1.* Currently Senior Research Associate in JMinna lab, UTSW.
4. **Charles Read, M.D.**, October 2003 – September 2006. Genetics and Maternal Fetal Medicine Fellow. *Characterization of transgene insertional mutant with a defect in cervical growth and cervical ripening. Molecular mechanisms of cervical softening.* Currently practicing at Northside Hospital in Atlanta, GA.
5. **Jeyasuria Pancharatnam, Ph.D.** June 2005 – August 2006. *Gene regulation of hyaluronan synthase 2 during cervical ripening.* Currently an Assistant Professor in the Department of Obstetrics and Gynecology at Wayne State University, Detroit, MI.
6. **Ki-Young Ryu, M.D.**, August 2006 – August 2007. *Tissue specific gene targeting of versican in the cervix.* Currently an Assistant Professor in the Department of Obstetrics and Gynecology at Myongji Hospital at Kwandong University College of Medicine, Korea.
7. **Anjana Tiwari, Ph.D.**, December 2006 – 2009. *Gene regulation of hyaluronan synthase 2 during cervical ripening.*
8. **Loren Petrozella, M.D.**, October 2007 – 2010. *The correlation of endothelial microparticles, SFlt-1, VEGF, and PlGF in normal pregnancy and preeclampsia.* Currently private practice, Seattle, Washington
9. **Yucel Akgul Ph.D.**, January 2008 – Jan 2016. *Tissue specific gene targeting of versican in the cervix.* Currently Assistant Professor, Dept of Plastic Surgery, UTSW
10. **Roxanne Holt, M.D.**, July 2008 – June 2012. *The role of trefoil factor 1 in maintenance of epithelial barrier integrity.* Currently, Assistant Professor, Department of Ob/Gyn, University of Chicago School of Medicine
11. **Yuan Liu, M.D.**, September 2011-September, 2012. *Regulation of hyaluronan in cervical epithelia.* Currently physician in China

12. **Meredith Akins, Ph.D.** September 2011-December, 2012. *Investigations to delineate how collagen organization is regulated during cervical remodeling.* Currently, Assistant Professor of Anatomy and Physiology, Univ of Arkansas, Fort Smith, AK
13. **Karen Wilson, M.D.** December 2011-July 2013. *The role of SPARC in cervical remodeling*
14. **Shanmugasundaram Nallasamy, DVM, Ph.D.** October 2013-2017. (Assistant Instructor, Oct 2017-ongoing)
15. **Stephanie Bryant, M.D.** 2015-June, 2017, Currently Assistant Professor, Univ of Oklahoma, Dept of Ob/GYN
16. **Sudeshna Tripathy, Ph.D.** August, 2015-ongoing
17. **Cheuk Liun Liu, Ph.D.** April, 2017-December 2018
18. **Shanmugapriyaa Madhukaran, Ph.D.** July, 2017-ongoing
19. **Mariano Colon Carballo, Ph.D.** January, 2019-ongoing

Doctoral Students:

Meredith Akins, February, 2007 – 2011.

Alex Willcockson, November, 2012-2017. Currently a Medical Science Liason and Reata Pharmaceuticals in Irving TX.

Predoctoral Students:

1. **Avni Segal**, Undergraduate Summer Research Fellow. May – July, 2002.
2. **Shannon Mitchell**, Undergraduate Summer Research Fellow. June – August, 2004.
3. **Lavanya Vuddaraju**, Undergraduate Research Fellow. October, 2004 – May, 2005.
4. **Justine Lin**, STARS research student. June – August, 2005.
5. **Charles Koshy**, STARS research student. June – August, 2006.
6. **Asha Tharayil**, High school student from the Texas Academy of Math and Science. June – August, 2006.
7. **Denisse Sanchez**, Medical Student, MS2, UTSWMC. May – August, 2007.
8. **Kimberly Perrson**, Undergraduate Summer Research Fellow. May – August, 2010.
9. **Ashli Lawson**, Medical Student, MS1, UTSWMC. May – August 2011.
10. **Rachel Dzuik**, Summer Undergraduate Research Fellow. June-August, 2015.
11. **Shivani Bhatnagar**, Green Fellow Scholar, January-May, 2017.
12. **Shanee Abouzaglo**, Summer Undergraduate Research Fellow. May-July, 2017

13. **Shri Vaishnavi Karri**, Green Fellow Scholar, January-May, 2018.
14. **Kayla Lopez**, STEP-UP program with NIDDK, May-July, 2018

UT SOUTHWESTERN- Current Teaching and Service:

TEACHING:

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| 2002 – 2003 | Teaching: Expanding Your Horizons in Math and Science Grades 6-8. University of Texas at Arlington, TX. Taught in a one-day course to encourage young women to pursue a career in math or science. |
| 2004 – 2008 | UT Southwestern first year medical student course: MS1 Endocrine Course. Lecture entitled “ <i>Endocrinology of Pregnancy and Parturition</i> ”. Course directors- Keith Parker, MD, and Lisa Halvorson, MD, 1 lecture hour. |
| 2007 – 2009 | Integrative Biology graduate student journal club “ <i>Human Genetics and Disease</i> ”, 8 lecture hours |
| Nov, 2007 – Present | <p><i>Integrative Biology Graduate Student Steering Committee and Chair for the IB Students PhD Qualifying Exams</i></p> <p><i>Qualifying Exams:</i>
 Vikash Bhagwandin, 2005
 Bret Evers (Chair), 2006
 Kerstin Ure, 2007</p> <p><i>Dissertation Committee:</i>
 Shruti Krishnan (Masters degree), 2005
 Kirsten Evaul (Chair), 2005 – 2008
 James Deng, 2006 – 2009
 Alina Montalbano (Immunology graduate program), 2006 – 2010
 Nora Renthal 2007 – 2010
 Koriander Conyers 2010 – May 2012
 Hala Farid Kufaishi Nov, 2014 (Masters degree) External Appraiser, Lunenfeld Tanenbaum Research Institute, Toronto, CA</p> <p><i>Rotation Students:</i>
 Tamara Strauss , 2nd Fall rotation 2005
 Laura Payton, 1st Fall rotation, 2006
 Veleka Boyd, 2nd Fall rotation, 2006
 Meredith Williams (Akins), 1st Winter rotation, 2007
 Marilyn Archer, Spring rotation, 2010
 Alex Willcockson, Summer rotation, 2012
 Alicia Fessler, Winter rotation, 2016
 Marianne Mercer, Summer, 2018</p> |

Term Paper Reader for 1st year DBS course:

Norma Fernandez, 2005

Tamara Strauss, 2006

Samuel Ward, 2007

Research Advisory Committee for Clinical Fellows and Medical Students:

LaKeitha Foster, Pediatric Neonatology Fellow. Mentor: Carole Mendelson, Ph.D., 2007 – 2009

Litsa Lambrakos, Thesis committee for MD with a Distinction in Research degree. Thesis- “*AP-1 Activity in the Mediation of GnRH-Induced PACAP Expression*”. Mentor: Lisa Halvorson. MD., 2006 – 2007

Sept, 2012-May 2014 ***Facilitator for Responsible Conduct of Research Course, Division of Basic Science*** Course Director, Stu Ravnik.

Jan. 2014 – Present **Basic Science Lecture to Ob/Gyn Clinical Fellows:** “*Cells and Animal Models*”

SERVICE:

Institutional Committees:

2001 Institutional Animal Care and Research Advisory Committee – Self Assessment Subcommittee Member, UTSWMC, October 2001

2005 – 2010 Biological and Chemical Safety Advisory Committee

2005 – 2010 UT System Institutional Biosafety Committee

2009 Liaison Committee on Medical Education, Institutional Setting Subcommittee Chair of “Diversity” Subgroup

2010- 2014 Flow Cytometry Core Oversight Committee

2017-ongoing Institutional Animal Care and Use Committee

2018-ongoing Conflict of Interest Committee

Other Institutional Service:

2004 – Present Interviewer for medical school applicants

2004 – Present Director and Coordinator of the *Reproductive Biology Seminar Series*
Speakers from other institutions with expertise in various areas of reproductive biology are invited to this monthly seminar. This seminar is open to everyone on the UTSWMC campus and is of particular interest to those doing basic or translational research in male and female reproductive biology.

2012- Present Interviewer for graduate school applicants

2011-2014	
2016-2018	Green Center for Reproductive Biology Faculty Search Committee
2011- Present	Interviewer for Joint Admissions Medical Program (JAMP)
2013- 2015	Interviewer for UT– Partnership in Advancing Clinical Transition Program (UT-PACT)
2014- Present	Interviewer for MSTP program
2015- Present	Obstetrics and Gynecology Department 5year evaluation review committee
September 6, 2018	“Successfully Obtaining an R Grant” mock Study Section Reviewer UTSW

PUBLICATIONS:

1. Means, G.D., **Mahendroo, M.S.**, Corbin, C.J., Mathis, J.M., Powell, F.E., Mendelson, C.R., Simpson, E.R. (1989) Structural Characterization of the Gene Encoding Aromatase Cytochrome P-450, the Enzyme Responsible for Estrogen Biosynthesis. *J. Biol. Chem.* **264**:19385-19391.
2. **Mahendroo, M.S.**, Cole, L.B., Mowbray, S.L. (1990) Preliminary X-ray Data for the Periplasmic Ribose Receptor from Escherichia coli. *J. Mol. Biol.* **211**:689-690.
3. Lorence, M.C., Corbin, C.J., Kamimura, N., **Mahendroo, M.S.**, Mason, J.I., (1990) Structural Analysis of the Gene Encoding Human 3 β -Hydroxysteroid Dehydrogenase/Isomerase. *Mol. Endocrinol.* **4**:1850-1855.
4. Means, G.D., Kilgore, M.W., **Mahendroo, M.S.**, Mendelson, C.R., Simpson, E.R. (1991) Tissue-specific Promoters Regulate Aromatase Cytochrome P450 Gene Expression in Human Ovary and Fetal Tissues. *Mol. Endocrinol.* **5**:2005-2013.
5. **Mahendroo, M.S.**, Means, G.D., Mendelson, C.R., Simpson, E.R. (1991) Tissue-specific Expression of Human P450_{AROM}: The Promoter Responsible for Expression in Adipose is Different From That Utilized in Placenta. *J. Biol. Chem.* **266**:11276-11281.
6. Kilgore, M.W., Means, G.D., **Mahendroo, M.S.**, Mendelson, C.R., Simpson, E.R. (1992) Alternate Promoters for Aromatase Cytochrome P450 Expression in Human Fetal Tissues. *Mol. Endocrinol.* **83**:R9-R16.
7. Price, T., Aitken, J., Head, J.R., **Mahendroo, M.S.**, Means, G.D., Simpson, E.R. (1992) Determination of Aromatase Cytochrome P450 Messenger RNA in Human Breast Tissue by Competitive Polymerase Chain Reaction (PCR) Amplification. *J. Clin. Endocrinol. Metab.* **74**:1247-1252.
8. **Mahendroo, M.S.**, Mendelson, C.R., Simpson, E.R. (1993) Tissue-specific and Hormonally Controlled Alternative Promoters Regulate Aromatase Cytochrome P450 Gene Expression in

Human Adipose Tissue. *J. Biol. Chem.* **268**:19463-19470.

9. Jenkins, C., Michael, D., **Mahendroo, M.S.**, Simpson, E. (1993) Exon-specific Northern Analysis and Rapid Amplification of cDNA Ends (RACE) Reveal That the Proximal Promoter II (PII) is Responsible for Aromatase Cytochrome P450 (CYP19) Expression in Human Ovary. *Mol. Cell. Endo.* **97**: R1-R6.
10. Bulun, S.E., **Mahendroo, M.S.**, Simpson, E.R. (1993) Polymerase Chain Reaction Amplification Fails to Detect Aromatase Cytochrome P450 Transcripts in Normal Human Endometrium or Decidua. *J. Clin Endocrinol Metab* **76**:1458-1463.
11. Bulun, S.E., Price, T.M., Aitken, J., **Mahendroo, M.S.**, Simpson, E.R. (1993) A Link Between Breast Cancer and Local Estrogen Biosynthesis Suggested by Quantification of Breast Adipose Tissue Aromatase Cytochrome P450 Transcripts Using Competitive Polymerase Chain Reaction After Reverse Transcription. *J. Clin Endocrinol Metab* **77**:1622-1628.
12. **Mahendroo, M.S.**, Cala, K.M., Russell, D.W. (1996) 5α -Reduced Androgens Play a Key Role in Murine Parturition. *Molecular Endocrinology* **10**:380-392.
13. **Mahendroo, M.S.**, Cala, K.M., Landrum, C.P., Russell, D.W. (1997) Fetal Death in Mice Lacking 5α -Reductase Type 1 Caused by Estrogen Excess. *Molecular Endocrinology* **11**:917-927.
14. **Mahendroo, M.S.**, Porter, A., Russell, D.W., Word, R.A. (1999) The Parturition Defect in Steroid 5α -Reductase Type 1 Knockout Mice is Due to Impaired Cervical Ripening. *Molecular Endocrinology* **13**:981-992.
15. **Mahendroo, M.S.**, Cala, K.M., Hess, D.L., Russell, D.W. (2001) Unexpected Virilization in Male Mice Lacking Steroid 5α -Reductase Enzymes. *Endocrinology* **142**:4652-4662.
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