

CURRICULUM VITAE

NAME: Ayman Al-Hendy, M.D., Ph.D., FRCSC, FSOGC, FACOG

April 2009

PRESENT POSITION AND ADDRESS:

Professor & Vice Chair
Department of Obstetrics and Gynecology
Scientific Director
Center for Women's Health Research
Associate Director
Clinical Research Center
Meharry Medical College

Gynecologist/Obstetrician
Nashville General Hospital

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Nashville, Tennessee 37208-3599
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(615) 963 -3125 (fax)
Ahendy@MMC.edu

BIOGRAPHICAL:

Date of Birth:	January 24, 1964
Citizenship:	Egypt/Canada + Permanent Resident of USA
Marital Status:	Married, 2 Children
Address:	9953 Lodestone Dr. Brentwood, TN 37027

PROFESSIONAL AND TEACHING EXPERIENCE:

09/07 – Present	Professor & Vice Chair, Department of Obstetrics and Gynecology, Meharry Medical College, Nashville, Tennessee
09/07 – Present	Scientific Director, Center for Women Health Research, Meharry Medical College, Nashville, Tennessee
12/07 – Present	Associate Director, Clinical Research Center, Meharry Medical College, Nashville, Tennessee
09/07- Present	Gynecologist/Obstetrician Nashville (Metro) General Hospital, Nashville, Tennessee

12/07 – Present	Adjunct Professor, Department of Radiology and Radiological Sciences, Vanderbilt University Medical Center, Vanderbilt University, Nashville, Tennessee
09/06 – 09/07	Associate Professor Department of Obstetrics and Gynecology University of Texas Medical Branch Galveston, Texas
08/00 – 08/06	Assistant Professor Department of Obstetrics and Gynecology University of Texas Medical Branch Galveston, Texas
08/00- 09/07	Gynecologist/Obstetrician John Sealy Hospital & UTMB Hospitals Galveston, Texas
07/00 – 08/00	Obstetrician and Gynecologist (Locum) Swift Current Health District Saskatchewan, Canada
07/95 – 06/00	Residents and Medical Student Teaching and Supervision Grand Rounds Residents Academic Teaching Department of Obstetrics and Gynecology Saskatoon, Saskatchewan, Canada
11/88 – 04/92	Teaching Assistant Department of Medical Microbiology Turku University Turku, Finland

EDUCATION:

07/95 – 06/00	Resident Department of Obstetrics and Gynecology Royal University Hospital University of Saskatchewan Saskatchewan, Canada
07/94 – 06/95	Fellow Canadian College of Medical Genetics Specialty: Clinical Molecular Genetics Medical Genetics Unit McGill University Montréal Children’s Hospital Research Institute

	Montréal, Québec, Canada
06/92 – 06/94	Post Doctoral Research Fellow Division of Human Genetics Department of Pediatrics McMaster University Hamilton, Ontario, Canada
11/88 – 03/92	Ph.D. Graduate Student DNA - Laboratory Department of Medical Microbiology Turku University Turku, Finland
3/88 – 11/88	Resident Department of Oto-Rhino-Laryngology Benha University Hospital Benha, Egypt
3/87 – 2/88	Intern Rotational Internship Benha University Hospital Benha, Egypt
10/80 – 12/86	M.D. Benha Faculty of Medicine Zagazig University Benha, Egypt (General Grade: Excellent with Honor Degree, Ranked: First in graduating class)
10/77 – 06/80	General Secondary School Certificate (G.S.S.C) Benha, Egypt

CURRENT CLINICAL/ACADEMIC INTEREST:

1. An avid interest in improving the health care of women, and eliminate health disparity.
2. Gynecologic endoscopy (laparoscopy and hysteroscopy).
3. Clinical, translational, and basic research in Gynecology and Obstetrics.
4. Using molecular biological tools in research applications in Gynecology and Obstetrics especially in the area of “reproductive genetics and gene therapy”.

RESEARCH GRANTS:

A. ONGOING:

1. National Institute of Health (NICHD), 1R01HD046228-01, Title: Estrogen dependency of uterine leiomyoma. PI, Ayman Al-Hendy, M.D., Ph.D., \$1,500,600, 2003–2008 (NCE to 2009)
2. National Institute of Health (NICHD), 1U54HD044315-05, Title: Cooperative Center for Research in Reproduction. Ayman Al-Hendy, M.D., Ph.D., PI, Project II: The effect of Oral Contraceptives and Endogenous Sex Steroids on uterine leiomyoma, 2007–2008 (NCE to 2009)
3. National Institute of Health (NCRR), 1 KL 2RR 024977, Title: Vanderbilt Institute for Clinical and Translational Research. Ayman Al-Hendy M.D., Ph.D., Member (5% effort), 2007 – 2012.
4. Repros Therapeutics Inc., ZPU-305. A Phase III, open-label, Parallel, Randomized multicenter study evaluating the safety of 25, and 50 mg Proellex (CDB-4124) in the treatment of premenopausal women with symptomatic uterine fibroids. Ayman Al-Hendy MD, PhD, site PI, 2008-2012

B. PENDING:

1. National Institute of Health (NICHD), 1R01 HD046228, Title: Targeting Adenovirus for Uterine Leiomyoma Gene Therapy. PI: Ayman Al-Hendy MD PhD, Score 18, 9th percentile.
2. National Institute of Health (NICHD), 1RC1HD063828-01, Title: Epigallocatechin Gallate for the Management of Uterine Fibroids in AA Women . PI: Ayman Al-Hendy MD PhD, Score 26, 3rd percentile.
3. National Institute of Health (NCRR), 1U54RR026140-01, Title: Meharry Clinical and Translational Research Center (MeTRC). Contact PI: Ayman Al-Hendy MD PhD, Score 220.
4. National Institute of Health (NICHD), 1RC1HD064100-01, Title: Focused Ultrasound v. Myomectomy for Management of Uterine Fibroids in AA Women. PI: Ayman Al-Hendy MD PhD.
5. National Institute of Health, 1R01MD004000-01, Title: Vitamin D Deficiency and Increased Risk of Preterm Labor in African Americans PI: Ayman Al-Hendy MD PhD.
6. National Institute of Health (NICHD), 1R01HD 064397-01, Title: Vitamin D Deficiency and Risk of Uterine Fibroids in African Americans PI: Ayman Al-Hendy MD PhD.
7. T1/T2 translational supplements, Meharry G12 RCMI program on women health research, recommended for funding.
8. In Vivo Prediction of Preterm Labor with Raman Spectroscopy (VU subaward, RC1).
9. Workforce postdoctoral fellows recruitment supplement, Meharry G12 RCMI program on women health research.

10. Fogarty International research collaborative agreement (FIRCA), 1R03TW008603-01, Title: Targeting adenovirus for prevention of postoperative adhesions, 2009-2012. PI: Ayman Al-Hendy MD PhD.
11. US-Egypt research program. Targeting adenovirus for prevention of postoperative adhesions, 2009-2012. PI: Ayman Al-Hendy MD PhD (to be awarded soon).
12. T1/T2 translational supplement, Meharry U54 Cooperative Center for Reproduction.

C. COMPLETED:

- A.** National Institute of Health (NICHD), 1 R21HD46639-01, Title: Reversal of Infertility in Ovarian Failure. PI: Ayman Al-Hendy M.D., Ph.D., \$ 420,000, 2005-2008
- B.** TAP Pharmaceutical Products, Inc., Title: Phase III clinical trial J867 for treatment of uterine leiomyoma. Ayman Al-Hendy M.D., Ph.D., is the site PI for this clinical trial of a novel selective progesterone receptor modulator (SPRM), \$525,000, 2002–2007
- C.** US Department of Agriculture (USDA), BI09-005-001, Title: Gene Therapy of Peritoneal Adhesions. PI, Ayman Al-Hendy, M.D., Ph.D., \$55,860, 2006–2007
- D.** Clinical Teaching and Research Grant, Title: Molecular genetics of repeated spontaneous twinning. Granting Body: College of Medicine, University of Saskatchewan, Canada \$30,000.00, 1999-2000
- E.** Canadian Foundation for Women’s Health Research Grant, Title: Molecular genetics of polycystic ovarian disease. Granting Body: Canadian Foundation for Women’s Health, Ottawa, Canada \$10,000.00, 1999-2000
- F.** Clinical Teaching and Research Grant, Title: Gene therapy of ovarian cancer. Granting Body: College of Medicine, University of Saskatchewan, Canada \$30,000.00, 1997-1999
- G.** APOG/SERONO Resident Research Grant, Title: Developing an animal model for epithelial ovarian cancer. Granting Body: The Association of Professors of Obstetrics and Gynecology, Canada, \$6,000.00, 1996-1997
- H.** APOG/SERONO Resident Research Grant, Title: Gene therapy of epithelial ovarian carcinoma. Granting Body: The Association of Professors of Obstetrics and Gynecology, Canada \$6,000.00, 1995-1996

PATENTS:

- a. US patent No. 60/365,760. Adenovirus mediated therapy for uterine conditions.
- b. US provisional patent No. 60/245,030 Follistatine mutations and polycystic ovary syndrome.
- c. US provisional patent No. 60/600,078. Methods and compositions for the prevention and treatment of preterm labor and uterine diseases or conditions.

COMMITTEE RESPONSIBILITIES:

A. National:

- (1) NIH Special Emphasis Panel/Scientific Review Group 2009/10 ZRG1 EMNR-C (58) R meeting, *Ad Hoc* member
- (2) Chair-elect, Fibroid special interest group (FSIG), American society of reproductive medicine, 2008-Present.
- (3) NIH Integrative & Clinical Endocrinology and Reproduction study section (ICER), *Ad Hoc* member, Feb 2008
- (4) Chair, Research subcommittee, RCMI Translational Research Network (RTRN), 2007-Present.
- (5) Society for the Study of Reproduction (SSR): Clinical Outreach Committee. Member, 2007 - Present
- (6) RCMI Translational Research Network (RTRN), member, External advisory committee, 2007- Present.
- (7) NIH/NICHD U54 special emphasis group, Specialized Cooperative Centers for Reproduction and Infertility Research (SCCPRIR), Nov 2007
- (8) NIH Pregnancy & Neonatology Study section (PN), *Ad Hoc* member, June 2005.

B. Local (Institute/Department/Hospital):

- 1. Meharry-Vanderbilt Clinical and translational Science Award (CTSA): scientific review committee, member, 2007 – Present, Nashville, Tennessee
- 2. Meharry-Vanderbilt K-awards: scientific review committee, member, 2007 – Present, Nashville, Tennessee
- 3. Meharry Center for women health research: Operation & Staff committee, Chair, 2007 – Present, Nashville, Tennessee
- 4. Meharry Center for women health research: Internal advisory board, Chair, 2007 – Present, Nashville, Tennessee
- 5. Meharry Center for women health research: Scientific review committee, Chair, 2007 – Present, Nashville, Tennessee
- 6. Meharry Center for women health research: Membership committee, Chair, 2007 – Present, Nashville, Tennessee
- 7. Meharry Center for women health research: Community and advisory board, member, 2007 – Present, Nashville, Tennessee

8. Meharry Department of Obstetrics and Gynecology : Research committee, Chair, 2007 – Present, Nashville, Tennessee
9. Meharry Department of Obstetrics and Gynecology: Executive faculty committee, member, 2007 – Present, Nashville, Tennessee
10. Meharry Department of Obstetrics and Gynecology : Education committee, member, 2007 – Present, Nashville, Tennessee
11. Meharry Department of Obstetrics and Gynecology Finance & Governance committee, member, 2007 – Present, Nashville, Tennessee
12. Meharry School of Medicine: Executive faculty committee, member, 2007 – Present, Nashville, Tennessee
13. Meharry RCMI Internal advisory committee, member, 2007 – Present, Nashville, Tennessee
14. Meharry RCMI Executive Advisory committee, member, 2007 – Present, Nashville, Tennessee
15. Nashville General Hospital, staff wellness committee, 2008 – Present, Nashville, Tennessee.
16. UTMB OR Committee, Member, 2005 – 2007, Galveston, Texas.
17. UTMB Institutional Review Board (IRB), Member, 2003-2004, Galveston, Texas.

TEACHING RESPONSIBILITIES AT UTMB:

Junior Medical Student Lectures, Junior Medical Student Advisory Meetings, Examination Preparation for Junior Medical Student Clerkship, Instructor for 2nd Year Practice of Medicine Course, Obstetrics & Gynecology and Family Medicine Resident Didactic. Teach “General Gynecology” to Medical Students and Residents, Supervise clinical, surgical, and bedside training during general Obstetrics and Gynecology rotations. Annual GREOG questions marathon.

MEMBERSHIP IN SCIENTIFIC SOCIETIES:

- 2001-Present Society for Gynecologic Investigation (SGI), Member
- 2005-Present Society for the study of Reproduction (SSR), Member
- 2001-Present The Texas Association of Obstetricians and Gynecologists (TAOG), Member
- 2000-Present American Society of Gene Therapy (ASGT), Member
- 2000-Present The Royal College of Physicians and Surgeons of Canada (RCSC), Fellow
- 2003-Present American College of Obstetricians and Gynecologists (ACOG), Fellow
- 1995-Present Society of Obstetricians and Gynecologists of Canada (SOGC), Fellow
- 1995-2001 Islamic Medical Association of North American Inc. (IMANA), Member

2002-2003	American Professors of Gynecology and Obstetrics (APGO), Member
2000-2002	The Society for the Investigation of Early Pregnancy (SIEP), Member
1998-1999	District VI, Saskatchewan Sections of American College of Obstetricians and Gynecologists (ACOG), Vice Chair, Junior Fellows
1998-2000	Canadian Society of Clinical Investigation (CSCI), Member
1998-2001	Central Regional Committee, Society of Obstetricians and Gynecologists of Canada (SOGC), Member
1998-2000	Junior Members Committee, Society of Obstetricians and Gynecologists of Canada (SOGC), Member
1995-2000	Canadian Medical Association (CMA), Member
1995-2000	Saskatchewan Medical Association (SMA), Member
1994-1995	Canadian College of Medical Geneticists (CCMG), Member
1994-2000	Canadian Society of Biochemistry and Molecular Biology (CSBMB), Member
1992-1995	American Society of Human Genetics (ASHG), Member
1989-1992	Nordic Molecular Biology Association (NOMBA), Member
1988-1992	Turku Microbiological Society (TMS), Member
1990-1991	International Endotoxin Society (IES), Member

BOARD CERTIFICATIONS:

09/03	Fellow American College of Obstetricians and Gynecologists (ACOG)
11/02	Certified Diplomat American Board of Obstetrics and Gynecology (ABOG) – <u>(Valid to 2014)</u>
07/00	Fellow Society of Obstetricians and Gynecologists of Canada (SOGC)
6/00	Fellow Royal College of Physicians and Surgeons of Canada (Obstetrics and Gynecology)

LICENSURE INFORMATION:

State of Tennessee
Division of Health Related Boards
Board of Medical Examiners
License Number: MD0000042790
Expiration: 01/31/2010

Texas State Board of Medical Examiners
Physician Permit
License Number L4847
Expiration: 05/31/11

Texas Controlled Substances Registration
Texas Department of Public Safety
Registration Number 50127375
Expiration: 1/31/11

Controlled Substance Registration
United States Department of Justice
Drug Enforcement Administration
Registration Number BA8143656
Expiration: 6/30/11

Educational Register of the College of Physician and Surgeons of Saskatchewan
Number 107826
07/95-06/00

Educational Register of the College of Physician and Surgeons of Ontario
Number 72124
4/98-11/98

Permanent Medical License
Ministry of Health, Egypt
Number 90179
1988-Present

Educational Commission for Foreign Medical Graduates
Certificate Number 0-588-060-4
Validation: Indefinitely
4/1999

United States Medical Licensing Examination, Step 3
ID: 0-588-060-4
12/1999

Licentiate of the Medical Council of Canada
Number 80657
1/97

HONORS:

1. SREI (Society of Reproductive endocrinology and infertility) prize paper, ASRM (American society of Reproductive Medicine) 2009, mentee: Dr. Mohsen Ghadami.
2. Wyeth-SGI Mentor Luncheon, Society of Gynecologic Investigation (SGI) 2009, mentee: Dr. Mohsen Ghadami won 2009 SGI President's presenter award.
3. Wyeth-SGI Mentor Luncheon, Society of Gynecologic Investigation (SGI) 2008, mentee: Dr. Mohsen Ghadami won 2008 SGI President's presenter award.
4. America's Top Obstetricians and Gynecologists, published by Consumers' Research council of America, 2004-2006.
5. Wyeth-SGI Mentor Luncheon, Society of Gynecologic Investigation (SGI) 2006, mentee: Dr. Essam Rashad Othman won 2006 SGI President's presenter award.
6. Golden Apple Teaching Award, Department of Obstetrics and Gynecology, University of Texas Medical Branch, Galveston, Texas, June 2003.
7. Burroughs Wellcome Fund Clinical Scientist Award in Translational Research (finalist), Nominated by School of Medicine, University of Texas Medical Branch, Galveston, Texas, 2003
8. American College of Obstetricians and Gynecologists, Junior Fellow Prize Paper Presentation, ACOG District VI Meeting, Maui, Hawaii, Oct. 26-29, 1999
9. Medical Research Council of Canada and Canadian Society of Clinical Investigations, Annual Resident Research Award, Ottawa, Ontario, Canada, 1998
10. Society of Obstetricians and Gynaecologists of Canada, Junior Member Elective Fellowship Award, Ottawa, Ontario, Canada, 1998
11. Peter Vernon Clinical Fellowship in Gynecologic Oncology, Division of Gynecologic Oncology, Department of Obstetrics and Gynecology, University of Toronto, Toronto, Canada, 1998
12. Second Prize, Annual Resident Research Day, Department of Obstetrics and Gynecology, University of Saskatchewan, Saskatchewan, Canada, June 11-12, 1998.

13. First Prize Paper, 46th American College of Obstetrics and Gynecology, Annual Clinical Meeting, New Orleans, Louisiana, May 9-13, 1998
14. First Prize, Annual Resident Research Day, Department of Obstetrics and Gynecology, University of Saskatchewan, Saskatchewan, Canada, June 12-13, 1997
15. Post-Doctoral Clinical Award (Finalist) of the American Society of Human Genetics, Montréal, Québec, Canada, October 18-22, 1994
16. The Honourary Medal of Nagoya University School of Medicine, Scientific Day, Showa-Ku, Nagoya, Aichi 466, Japan, September 27, 1990
17. Young Investigator Award, First Congress of International Endotoxin Society, San Diego, California, May 10-12 1990
18. The Honourary Medal of Egyptian Medical Syndicate, Physician Day, Cairo, Egypt, March 18, 1988

SCHOLARSHIPS AND AWARDS

1. Several Travel Awards, College of Medicine, University of Saskatchewan, Saskatoon, Canada, 1996-1998
2. Research Fellowship, Montréal Children's Hospital Research Institute, McGill University, Montréal, Québec, Canada, 1994-1995
3. Scholarship, Arab Student Aid International, P.O. Box 10, Fanwood, New Jersey 07023, 1988-1991
4. Thesis Grant, Egyptian Ministry of Education, 7th floor, Tahrir Square, Cairo, Egypt, April 1992
5. Grant, Turku University Foundation, Yliopistonkatu 24 B, 20100 Turku, Finland, April 1989, May 1991, and February 1992
6. Scholarship, Sigrid Juselius Foundation, C/O Turku University, 20500 Turku, Finland, 1989-1990, 1990-1991, and 1991-1992
7. Award, Emil Ja Bilda Maunulan Foundation, C/O Turun Yliopisto, Laaketieteellinen Tiedekunta, Lemminkaisenkatu 1, 20520 Turku, Finland, April 1990
8. Grant, Apteekkari Waino Edvard Miettisen Foundation, C/O Turku University, 20500 Turku, Finland, May 1991
9. Travel Award, Turun Yliopisto, Kliinis-Teoreettinen Laitos, Kiinamylynkatu 10, 20520 Turku, Finland, February 1990, November 1990, and March 1991

10. Travel Award, Turku University Foundation, Yliopistonkatu 24 B, 20100 Turku, Finland, May 1990, and November 1991
11. Travel Award, Sigrid Juselius Foundation, C/O Turku University, 20500 Turku, Finland, June 1990

ADDITIONAL INFORMATION:

REVIEWER (Ad hoc):

1. Annals of Internal Medicine.
2. Journal of Clinical Endocrinology and Metabolism
3. Molecular Endocrinology
4. Human Reproduction
5. Molecular Human Reproduction.
6. Acta Pharmacologica Sinica
7. Neoplasia
8. John Hopkins Advanced Studies in Medicine
9. Molecular Carcinogenesis
10. Journal of Society of Gynecologic Investigations.
11. Journal of Reproductive Sciences
12. Fertility & Sterility
13. European Journal of Obstetrics, Gynecology, and Reproductive Biology.
14. APMIS (Acta Pathologica Microbiologica Immunologica Scandnavica).
15. Gynecologic Oncology.
16. Türkiye Klinikleri Journal of Medical Sciences, Advisory Board.
17. Judge, the Cell Biology Forum, University of Texas Medical Branch, Galveston, Texas, October 2, 2001
18. Judge, Women's Health Week Scientific Forum, Moody Gardens Hotel, Galveston, Texas, May 14, 2003
19. Center for Interdisciplinary Research on Women Health, Small Research Grant Competition, 2003-2004
20. Judge, Second Women's Health Week Scientific Forum, University of Texas Medical Branch, Galveston, Texas, May 12, 2004
21. Society of Gynecologic Investigations (SGI) 2006 Abstract competition.
22. National Medical Student Forum, 2006.
23. External Reviewer, Wayne University, APT committee, 2006.
24. Society of Gynecologic Investigations (SGI) Abstract competition, 2007-Present.
25. Vanderbilt-Meharry CTSA Studio expert panel, 2009-Present.

SUPERVISORY COMMITTEES:

- (1) Supervisory Chair, Ms. Sana Salih MD, Title: Catechol-O-Methyl Transferase Enzyme in the female Genital Tract, MMS Candidate, UTMB, 2005 - 2007

(2) Member, Ms. Pawelczyk Edyta, Title: Toll-like receptor 4 (TLR4) in Gestational Infection and Preterm Labor, Ph.D. Candidate, (Supervisor: Dr. Bogdan Nowicki), UTMB, 2003–2004

POSTDOCTORAL FELLOWS/VISITING SCIENTISTS/MENTEES

(1) Dr. Hussein Atta , MD PhD, Visiting Scientist from El-Menia University, Egypt, spent two weeks in our Laboratory at UTMB, Galveston, to learn specific techniques, January 2006 & June 2007.

(2) Dr. Mohsen Ghadami MD PhD, Postdoctoral Research Fellow, UTMB, Galveston, 2005-2008

(3) Dr. Rebecca A. Chilvers, Ob/Gyn resident, research elective, UTMB, Galveston, August 2005.

(4) Dr. Sama Azab, D. Pharma , Postdoctoral Research Fellow, UTMB, Galveston, 2005-2007

(5) Dr. Essam Othman MD , Obstetrician/Gynecologist, Postdoctoral Research Fellow, UTMB, Galveston, 2005-2007

(6) Dr. Sana Salih, MD, Obstetrician/Gynecologist, Reproductive Endocrinology & Infertility Fellow, UTMB, Galveston, 2004-2007

(7) Dr. Marwa Kamel, D. Pharma., Postdoctoral Research Fellow, UTMB, Galveston, 2004-2005

(8) Dr. Melissa Wentz PhD, Postdoctoral Research Fellow, UTMB, Galveston, 2004-2007

(9) Dr. Ayse Gonca Imir, MD, Postdoctoral Research Scientist from Northwestern University, spent two weeks in our Laboratory at UTMB, Galveston, to learn specific techniques, June 2004

(10) Dr. Salama Salama, PhD, Postdoctoral Research Fellow, UTMB, Galveston, 2002-2007

(11) Dr. Memy Hassan, D. Pharma , Postdoctoral Research Fellow, UTMB, Galveston, 2006-2008

(12) Dr. Dong Zhang, MD PhD, Postdoctoral Research Fellow, UTMB, Galveston, 2005-2008

(13) Dr. Ebtehall El-Demerdash , PhD, Visiting Scientist from Ain Shams University, Egypt, in our Laboratory at UTMB, Galveston, to learn specific techniques, January 2007 – October 2007

(14) Dr. Moon Hu , PhD, Visiting Scientist from Seol University, , in our Laboratory at UTMB, Galveston, to learn specific techniques, January 2007 – September 2007

(15) Dr. Mohamed Awad, D. Pharma , Postdoctoral Research Fellow, UTMB, Galveston, 2007

(16) Dr. Yang Hong PhD, Assistant professor, Center for women health research, Meharry Medical College, Nashville, Tennessee, 2007 – Present.

(17) Dr. Venessa Elliot, PhD, assistant professor, clinical psychologist, Department of Family Medicine, Meharry Medical College, Nashville, Tennessee, 2007 – Present.

(18) Dr. Ahsen Chaudary, Urogynecologist, assistant professor, Department of Obstetrics and Gynecology, Meharry Medical college, Nashville, Tennessee, 2007-Present.

(19) Dr. Salama Abdelraheim, Biochemist, assistant professor, Department of Biochemistry, El-Menia University, El-Menia, Egypt, spent two weeks in our Laboratory at Meharry Medical School, Nashville, to learn specific molecular biology techniques, April 2009.

(20) Dr. Mohamed Abdel-Raheem Sabry, Obstetrician/Gynecologist, assistant lecturer, Department of OB/GYN, Sohag University, Sohag, Egypt, predoctoral fellowship, joint supervision program, Meharry Medical School, Nashville, Tennessee, 2009-Present.

MEDICAL/COLLEGE/HIGH SCHOOL STUDENTS SUMMER RESEARCH TRAINEES

2002	John Thomas, medical student (University of Budapest)
2003	Mohamed Zaidan, college student (University of Houston)
2006	Michael Simmons (Texas City High School)
2007	Michael Simmons (Texas City High School)
2007	Mohamed Al-Hendy (Clear Brook High School)
2008	Ellana N. Stinson, medical student (Meharry Medical College)

2008	Rachael-Ann Joseph, medical student (Meharry Medical College)
2008	Anjali Khurana, medical student (Meharry Medical College)
2008	Sheena Pullman, medical student (Meharry Medical College)
2008	Christina Yi, medical student (Meharry Medical College)
2008	Tarannum Jaleel, medical student (Meharry Medical College)

COURSES AND ELECTIVES:

January 2004	Berlex Foundation faculty Development Course, Captiva Island, Florida
November 2002	Applied Research Ethics National Association/Institutional Animal Care and Use Committee 101 Atlanta, Georgia
November 1998	Division of Reproductive Endocrinology and Infertility, Department of Obstetrics and Gynecology, University of Western Ontario, London, Ontario, Canada.
April 1998	Division of Gyn Oncology, University of Toronto, Toronto General Hospital, Toronto, Ontario, Canada.
March 1997	Advanced Labor Assessment and Risk Management (ALARM) course for high risk obstetrics, University of Saskatchewan, Canada.
May-June 1996	Dept of Obstetrics and Gynecology (Professor Nelly Auersperg), Vancouver Women's Hospital, University of British Columbia, British Columbia., Canada
March 1996	Alan Blair Cancer Centre, Pasqua Hospital, Regina, Saskatchewan, Canada
August 1995	Rural Obstetrics at Dept of Obstetrics & Gynecology, Victoria General Hospital, Prince Albert, Saskatchewan, Canada.
November 1991	European Molecular Biology Organization (EMBO) practical course "DNA Sequencing: Advanced Approaches, Automated Methods and Analysis", November 13-23, 1991, European Molecular Biology Laboratory, Heidelberg, Germany.

August 1988 Immunology Workshop, Ain Shams University, Cairo, Egypt.

May 1986 Clinical clerkship at 1st Surgery University Clinic, Vienna,
Austria.

Ph.D. THESIS:

Al-Hendy A, *Lipopolysaccharide of Yersinia enterocolitica O:3; Molecular Genetics and Role in Virulence*. Turku, Finland: Department of Medical Microbiology, Turku University, 112p., ISBN 951-880-752-3, ISSN 0355-9483, 1992. Thesis.

BIBLIOGRAPHY:

(A) ARTICLES IN PEER REVIEWED JOURNALS:

1. **Al-Hendy A**, Toivanen P, Skurnik M. Expression cloning of Yersinia enterocolitica 0:3 rfb region in Escherichia coli K-12, *Microbial Pathogenesis*, 1991,10:47-59.
2. **Al-Hendy A**, Toivanen P, Skurnik M. The effect of growth temperature on the biosynthesis of Yersinia enterocolitica 0:3 lipopolysaccharide. Temperature regulates the transcription of the rfb but not of the rfa region. *Microbial Pathogenesis*, 1991, 10:88-91.
3. **Al-Hendy A**, Toivanen P, Skurnik M. Rapid method for isolation and staining of bacterial lipopolysaccharide. *Microbiol Immunol*, 1991, 35:331-334.
4. **Al-Hendy A**, Toivanen P, Skurnik M. Molecular cloning of Yersinia enterocolitica 0:3 rfb region. Evidence that temperature regulates the rfb region at the transcriptional level. In: Une T, Maruyama T, Tsubokura M (eds): Current Investigation of the Microbiology of Yersinia. *Contrib Microbiol Immunol*, Basel, Karger, 1991, Vol 12, pp 203-209.
5. **Al-Hendy A**, Toivanen P, Skurnik M. Lipopolysaccharide O side chain of Yersinia enterocolitica 0:3 is an essential virulence factor in orally infected murine model. *Infection and Immunity*, 1992, 60:870-875.
6. Zhang L, **Al-Hendy A**, Toivanen P, Skurnik M. Genetic organization and sequence of the rfb gene cluster of Yersinia enterocolitica serotype 0:3: Similarities to the dTDP-L-rhamnose biosynthesis pathway of salmonella and to the bacterial polysaccharide transport systems. *Mol Microbiology*, 1993, 9:309-321.
7. Skurnik M, Venho R, Zhang L, Toivanen P, **Al-Hendy A**. Yersinia enterocolitica serotype 0:3 specific bacteriophage selects lipopolysaccharide core-deficient mutants still expressing O-side chain. *Mol Microbiology*, 1995, 17:575-594.
8. **Al-Hendy A**, Hortelano G, Tannenbaum G, Chang P. Correction of the growth defect in dwarf mice by encapsulated non-autologous myoblasts. *Human Gene Therapy*, 1995, 6:165-175.
9. **Al-Hendy A**, Hortelano G, Tannenbaum G, Chang P. Growth retardation and acute IGF-I deficiency – Unexpected outcome of growth hormone somatic gene therapy. *Human Gene Therapy*, 1996, 7:61-70.

10. Hortelano G, **Al-Hendy A**, Ofosu F., Chang P. Delivery of human factor IX in mice by encapsulated recombinant myoblasts: A novel approach towards allogeneic gene therapy of hemophilia B. *Blood*, 1996, 87:5095-5103.
11. **Al-Hendy A**, Auersperg N. Applying adenovirus-mediated thymidine kinase/ganciclovir system to ovarian cancer. An efficient in vitro drug sensitization approach. *Gynecol Obst Investigation*, 1997, 43:268-275.
12. **Al-Hendy A**. Gene therapy of epithelial ovarian cancer using adenoviral vectors. *Prim Care Update Ob Gyn*, 1998, 5:158.
13. Ismail N, Hortelano G, **Al-Hendy A**. Growth hormone gene therapy using encapsulated myoblasts. *In cell encapsulation and therapeutics*, Eds. Kuhlreber WM., Lanza RP, Birkhauser, Boston, Massachusetts, 1999, ISBN 0-8176-4010-X (WWW.birkhauser.com).
14. **Al-Hendy A**. Enriching research culture in residency. *Am J Obstet Gynecol*, 1999, 181:1271.
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B. ABSTRACTS:

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 53. **Al-Hendy A**, Lee E, Wang H, Copland J. Gene therapy for uterine fibroids II: Adenovirus-mediated expression of dominant negative estrogen receptor ablates pre-existing leiomyomas in nude mice. 6th Annual Meeting of the American Society of Gene Therapy, Washington DC, June 4-8, 2003.
 54. **Al-Hendy A**, Wang H, Copland J. ER/PR receptors in the endocervix. Important implications for hormone replacement therapy after supracervical hysterectomy. Tenth Annual Meeting, Texas Forum on Female Reproduction, Houston, Texas, April 22-23, 2004.
 55. **Al-Hendy A**, Wang H, Copland J. ER/PR receptors in the endocervix. Important implications for hormone replacement therapy after supracervical hysterectomy. National Women health week, Galveston, Texas, May 12, 2004

56. **Al-Hendy A**, Sonia Robazetti, Mohammed Zaidan, Jukka Tenhunen, Hui-Qun Wang and Salama A. Salama. Novel Model of Parturition Explains the Higher Prevalence of Preterm Labor in African Americans. 52nd Annual Scientific Meeting, Society of Gynecologic Investigation, Los Angeles, March 23-26, 2005.
57. **Al-Hendy A**, Mohammed Zaidan, Mahmoud Eltorkey, Salama A. Salama, Hui-Qun Wang, and Manubai Nagamani. Inhibitors of Catechol-O-Methyl Transferase Enzyme Exhibit Estrogen Antagonist Effects on Female Reproductive Tract. 52nd Annual Scientific Meeting, Society of Gynecologic Investigation, Los Angeles, March 23-26, 2005.
58. **Al-Hendy A** & Salama A. Salama. A Functional Polymorphism in Catechol-O-Methyl Transferase Gene Explains Increased Risk of Uterine Leiomyomas in Black Americans. 52nd Annual Scientific Meeting, Society of Gynecologic Investigation, Los Angeles, March 23-26, 2005. (Podium presentation)
59. Salama A. Salama* & **Al-Hendy A**. Catechol-O-Methyl Transferase Inhibitors and 2-Methoxyestradiol Suppress Leiomyoma Cell Proliferation: Potential Medical Therapy for Uterine Fibroids. 52nd Annual Scientific Meeting, Society of Gynecologic Investigation, Los Angeles, March 23-26, 2005.
60. Salama A. Salama*, Ho SL, Hui Q. Wang, Jukka Tenhunen, and **Al-Hendy A**. Hormonal Regulation of Catechol-O-Methyl Transferase Activity in Uterine Leiomyoma. 52nd Annual Scientific Meeting, Society of Gynecologic Investigation, Los Angeles, March 23-26, 2005.
61. Salama A. Salama*, PhD and **Al-Hendy A**, MD PhD. Retinoic Acid Up-Regulates Catechol-O-Methyl Transferase Promoters: Potential Mechanism for the Mitogenic Effect of Retinoic Acid on Leiomyomas Cells. 52nd Annual Scientific Meeting, Society of Gynecologic Investigation, Los Angeles, March 23-26, 2005.
62. **Al-Hendy A**, Manubai Nagamani, Randall J. Urban, Salama A. Salama, Jorge Chedrese, Hui-Qun Wang, and Mohammad Jamaluddin. Regulation of Catechol-O-Methyl Transferase (COMT) Expression in Granulosa Cells: A Novel Model for Follicular Atresia in Polycystic Ovary Syndrome; Potential Treatment with COMT Inhibitors. 52nd Annual Scientific Meeting, Society of Gynecologic Investigation, Los Angeles, March 23-26, 2005. (J Soc Gynecol Investig Vol. 12, No. 2 (Supplement), February 2005, PP 295A) (podium presentation)
63. Ghassan M.Saed, **Al-Hendy A**, Salama A. Salama and Michael P. Diamond. Transfection with adenovirus expressing cyclo-oxygenase-2 antisense reverses adhesion phenotype in human adhesion fibroblasts. 52nd Annual Scientific Meeting, Society of Gynecologic Investigation, Los Angeles, March 23-26, 2005. (podium presentation)
64. Marwa Kamel*, Salama A. Salama, Gregory Christman and **Al-Hendy A**. Uterine Fibroids Gene Therapy: Adenovirus-Mediated Herpes Simplex Virus Thymidine

- Kinase/Ganciclovir Treatment Inhibits Growth of Human and Rat Leiomyoma Cells. 52nd Annual Scientific Meeting, Society of Gynecologic Investigation, Los Angeles, March 23-26, 2005, J Soc Gynecol Investig Vol 12, No. 2 (suppl) pp.94A.
65. **Al-Hendy A.**, Hui Q. Wang, and Salama A. Salama. Cell Therapy of Ovarian Failure: Intraovarian transplanted Granulosa Cells Successfully Engraft and Repopulate Growing Follicles. 52nd Annual Scientific Meeting, Society of Gynecologic Investigation, Los Angeles, March 23-26, 2005. (Plenary session presentation)
 66. **Al-Hendy A.** Gene Therapy of Uterine Fibroids: Adenovirus-Mediated Expression of Dominant Negative Estrogen Receptor Inhibits ERE-Reporter Transactivation in Rat and Human Leiomyoma Cells. 52nd Annual Scientific Meeting, Society of Gynecologic Investigation, Los Angeles, March 23-26, 2005.
 67. **Al-Hendy A.**, Hui Q. Wang, and Salama A. Towards Gene Therapy of Ovarian Failure: Intraovarian Injected Adenovirus Successfully Transduce Granulosa and Stromal but not Germ cells. Salama. 52nd Annual Scientific Meeting, Society of Gynecologic Investigation, Los Angeles, March 23-26, 2005. (podium presentation)
 68. **Al-Hendy A.**, John Chiorini, and Giovanni Di Pasquale. Towards Gene Therapy for Uterine Fibroids: Adeno-Associated Virus can Infect Human and Rat Leiomyoma cells. 52nd Annual Scientific Meeting, Society of Gynecologic Investigation, Los Angeles, March 23-26, 2005.
 69. **Al-Hendy A.**, Marwa Kamel^{*}, Gregory Christman and Salama A. Salama. Uterine Fibroids Gene Therapy: Adenovirus-Mediated Herpes Simplex Virus Thymidine Kinase/Ganciclovir Treatment Inhibits Growth of Human and Rat Leiomyoma Cells. 8th Annual scientific meeting, American Society of Gene Therapy, St. Louis, June 1-5, 2005.
 70. **Al-Hendy A.**, Hui Q. Wang, and Salama A. Salama. Cell Therapy of Ovarian Failure: Intraovarian transplanted Granulosa Cells Successfully Engraft and Repopulate Growing Follicles. 8th Annual scientific meeting, American Society of Gene Therapy, St. Louis, June 1-5, 2005.
 71. **Al-Hendy A.** Gene Therapy of Uterine Fibroids: Adenovirus-Mediated Expression of Dominant Negative Estrogen Receptor Inhibits ERE-Reporter Transactivation in Rat and Human Leiomyoma Cells. 8th Annual scientific meeting, American Society of Gene Therapy, St. Louis, June 1-5, 2005.
 72. **Al-Hendy A.** and Salama A. Salama. A Functional Polymorphism in Catechol-O-Methyl Transferase Gene Explains Increased Risk of Uterine Leiomyomas in Black Americans. 11th annual meeting of Texas Forum on Female Reproduction April 14-15, 2005. (Podium presentation)
 73. William W. Au, Salama A. Salama, Hernan Sierra-Torres, **Al-Hendy A.** Susceptibility to and Molecular Intervention of Cervical Cancer. The International Conference on Environmental Mutagens, San Francisco, September 2 - 8, 2005

74. Sana M Salih, MD^{1*}, Salama A Salama, PhD^{1*}, Mohammad Jamaluddin, PhD^{1*}, Manubai Nagamani, MD^{1*} and **Ayman Al-Hendy, MD^{1*}**. Cyclic variations of Catechol-O-Methyl Transferase (COMT) Expression in Human Endometrium and hormonal regulation of COMT in Human Stromal Endometrial Cell line. 53rd Annual Scientific Meeting, Society of Gynecologic Investigation, Toronto, March 22-25, 2006.
75. Sana M Salih, MD^{1*}, Manubai Nagamani, MD^{1*}, Antonie Duleba, MD^{1*} and **Ayman Al-Hendy, MD^{1*}**. Reduced Levels of Urinary 2 Hydroxy Estrogens in Polycystic Ovary Syndrome, An Insight into Pathogenesis of follicular atresia.. 53rd Annual Scientific Meeting, Society of Gynecologic Investigation, Toronto, March 22-25, 2006.
76. Salama A. Salama, Abdelhakim Ben Nasr, Raghvendra. K Dubey, and **Ayman-Al-Hendy**. 2-methoxyestradiol induces apoptosis and inhibits cell proliferation and collagen production in human leiomyomas cells: A potential treatment for Uterine fibroids 53rd Annual Scientific Meeting, Society of Gynecologic Investigation, Toronto, March 22-25, 2006.
77. Marwa W. Kamel, Salama A. Salama, and **Ayman Al-Hendy**. Adenovirus expressing Cyclooxygenase-2 antisense down-regulates P-glycoprotein and resensitizes multidrug-resistant breast cancer cells to anticancer drugs. 53rd Annual Scientific Meeting, Society of Gynecologic Investigation, Toronto, March 22-25, 2006.
78. Melissa J. Wentz and **Ayman Al-Hendy**. Hormonal Regulation of Catechol-O-Methyltransferase Expression in Human Myometrial Cells 53rd Annual Scientific Meeting, Society of Gynecologic Investigation, Toronto, March 22-25, 2006.
79. Essam R. Othman & **Ayman Al-Hendy**. Gene Therapy of Endometriosis: Adenovirus mediated Expression of Dominant Negative Estrogen Receptor induces Apoptosis in Human Endometriotic Cells. 53rd Annual Scientific Meeting, Society of Gynecologic Investigation, Toronto, March 22-25, 2006.
80. Melissa J. Wentz, Leili Shi, Shao-Qing Shi, Salama A. Salama, Robert E Garfield and **Ayman Al-Hendy**. Potential Uses for COMT Inhibitors during Pregnancy. 53rd Annual Scientific Meeting, Society of Gynecologic Investigation, Toronto, March 22-25, 2006.
81. Kamel M, Salama S, Christman G, Wang H and **Al-Hendy A**. Gene Therapy of Uterine Fibroids: Adenovirus-Mediated Herpes Simplex Virus Thymidine Kinase/Ganciclovir Treatment Inhibits Growth of Human and Rat Leiomyoma Cells. Ninth Annual Meeting of the American Society of Gene Therapy, Baltimore, Massachusetts, June 2-7, 2006.
82. Azab Samar, Salama Salama, and Ayman **Al-Hendy**. Can 2-methoxyestradiol modulate Cancer Multidrug resistance? A novel approach for chemosensitizing

- breast cancer cells to doxorubicin. Twelfth Annual Meeting, Texas Forum on Female Reproduction, Houston, Texas, April 21-22, 2006.
83. Dong Zhang, Willie Zoma, Hala Fouad, Allison Loveland, and Ayman **Al-Hendy**. Expression of Oct4 and SCF-R in Adult Human Ovary. Twelfth Annual Meeting, Texas Forum on Female Reproduction, Houston, Texas, April 21-22, 2006.
 84. Mohsen Ghadami, Rebecca Chilvers, and Ayman **Al-Hendy**. Toward gene therapy of premature ovarian failure: Adenovirus expressing human FSH receptor corrects the inactivating Finnish C566T mutation. 54th Annual Scientific Meeting, Society of Gynecologic Investigation, Reno, March 13-16, 2007. (Podium presentation)
 85. Samar Azab, Salama Salama, Ashraf Abdel-Naim, Amani Khalifa, Ebtehal El-Demerdash, Ayman **Al-Hendy**. Can 2-methoxyestradiol modulate Multidrug resistance? A new role for 2-methoxyestradiol in chemosensitizing resistant breast cancer cells. 54th Annual Scientific Meeting, Society of Gynecologic Investigation, Reno, March 13-16, 2007. (Podium presentation).
 86. Memy H Hassan, Salama A. Salama and Ayman **Al-Hendy**. Memy I: A novel animal model for uterine leiomyoma using adenovirus-enhanced human fibroid explants in SCID mice. 54th Annual Scientific Meeting, Society of Gynecologic Investigation, Reno, March 13-16, 2007.
 87. Dong Zhang, Hala Fouad, Willie Zoma, Abdou Mohamed Salama, Salama, Wentz, Melissa J., and Ayman **Al-Hendy**. Expression of germline specific markers in adult murine ovarian cell aggregates. 54th Annual Scientific Meeting, Society of Gynecologic Investigation, Reno, March 13-16, 2007.
 88. Melissa Wentz, Hassan Harirah, and Ayman **Al-Hendy**. Catechol-O-Methyltransferase is differentially expressed in fetal membrane tissue obtained from non-laboring versus laboring pregnant women. 54th Annual Scientific Meeting, Society of Gynecologic Investigation, Reno, March 13-16, 2007.
 89. Sana Salih, Manubai Nagamani, Ayman **Al-Hendy**, and Salama Salama. Estrogen and Tamoxifen modulate the expression of key estrogen metabolizing enzymes in endometrial cancer cells. 54th Annual Scientific Meeting, Society of Gynecologic Investigation, Reno, March 13-16, 2007.
 90. Salama salama, sana salih, ayman **Al-Hendy**. Progesterone alter the expression of estrogen-metabolizing genes in endometrial cancer cells: potential mechanism for the protective effect of progesterone against endometrial cancer. 54th Annual Scientific Meeting, Society of Gynecologic Investigation, Reno, March 13-16, 2007.
 91. Memy Hassan, Salama Salama, Dong Zhang, and Ayman **Al-Hendy**. Towards fibroid gene therapy: Adenovirus mediated delivery of dominant negative estrogen receptor shrinks uterine leiomyoma tumors in Eker rats. 54th Annual Scientific Meeting, Society of Gynecologic Investigation, Reno, March 13-16, 2007.

92. Memy Hassan, Salama Salama, David Curiel, and Ayman **Al-Hendy**. Towards gene therapy of uterine fibroids: Fiber modified adenovirus show higher expression in human leiomyoma cells compared to matched normal myometrial cells. 54th Annual Scientific Meeting, Society of Gynecologic Investigation, Reno, March 13-16, 2007.
93. Essameldine Othman, Daniela Hornung, Hosam Salem, Essam Khalifa, Tarek Elmetwally, and Ayman **Al-Hendy**. Serum cytokines as a potential biomarkers for non-surgical prediction of endometriosis. 54th Annual Scientific Meeting, Society of Gynecologic Investigation, Reno, March 13-16, 2007.
94. Essameldine Othman, David Curiel, Ayman **Al-Hendy**. Towards gene therapy of endometriosis: Targeting adenovirus to human endometriotic cells using tissue specific promoters and fiber modified viruses. 54th Annual Scientific Meeting, Society of Gynecologic Investigation, Reno, March 13-16, 2007.
95. **Dong Zhang**, Mohamed Al-Hendy and Ayman **Al-Hendy**. Green Tea Extract (EGCG) Inhibits Proliferation of Human Leiomyoma Cells. 55th Annual Scientific Meeting, Society of Gynecologic Investigation, San Diego, CA March 26-29, 2008.
96. Ghadami Mohsen, Ayman **Al-Hendy**. Intravenously Injected Bone Marrow Cells Restore Ovarian Folliculogenesis and Steroid Hormones Production in Female FSHR (-/-) FORKO Mice. 55th Annual Scientific Meeting, Society of Gynecologic Investigation, San Diego, CA March 26-29, 2008.
97. Ghadami Mohsen, Ebtehal Eldemerdash, Manubai Nagamani, Jorge Chedress, Ram Sairam, Ayman **Al-Hendy** Toward Gene Therapy of Premature Ovarian Failure: Intraovarian Injection of Adenovirus Expressing Human FSH receptor Restores Folliculogenesis in FSHR (-/-) FORKO Mice. 55th Annual Scientific Meeting, Society of Gynecologic Investigation, San Diego, CA March 26-29, 2008.
98. Memy H Hassan, Dong Zhang, Salama A. Salama, Farid M.A. Hamada, Hossam M.M. Arafa, Hala Fouad, Cheryl C. Walker and Ayman **Al-Hendy**. Towards Fibroids Gene Therapy: Adenovirus Mediated Delivery of Herpes Simplex Virus 1 Thymidine Kinase Gene /Ganciclovir Shrinks Uterine Leiomyoma in The Eker Rat Model. 55th Annual Scientific Meeting, Society of Gynecologic Investigation, San Diego, CA March 26-29, 2008.
99. Memy H Hassan, Dong Zhang, Hala Fouad, Cheryl C. Walker and Ayman **Al-Hendy**. Inhibitors of Catechol O-Methyl Transferase Shrinks Uterine Fibroids in the Eker Rat Model. 55th Annual Scientific Meeting, Society of Gynecologic Investigation, San Diego, CA March 26-29, 2008.
100. Melissa J. Wentz. Hassan Harirah and Ayman **Al-Hendy**. Inhibition of Catechol-O-Methyl Transferase Activity Dramatically Reduces PGE2 Production by Human Amniotic Explants. 55th Annual Scientific Meeting, Society of Gynecologic Investigation, San Diego, CA March 26-29, 2008.

101. Dong Zhang, Mohamed Al-Hendy and Ayman **Al-Hendy**. Green Tea Extract (EGCG) Inhibits Proliferation of Human Leiomyoma Cells. 41st SSR Annual Meeting, in Kailua-Kona, Hawaii. May 27-30, 2008.
102. Ghadami Mohsen, Ebtehal Eldemerdash, Manubai Nagamani, Jorge Chedress, Ram Sairam, Ayman **Al-Hendy** Bone Marrow Transplantation Restores Folliculogenesis in FSHR (-/-) FORKO Mice. American society of Reproductive Medicine Annual Scientific Meeting, San Francisco, CA Nov 14-17, 2008. (podium presentation)
103. Chakradhari Sharan, Tarannum Jaleel and Ayman **Al-Hendy**. Vitamin D inhibition of human leiomyoma cells proliferation could partially explains high incidence in African American women. 11th RCMi international symposium on health disparity. Dec 1-4, 2008, Honolulu, Hawaii. (Podium presentation)
104. Chandrasekhar Thota, Ram Menon, and Ayman **Al-Hendy**. Single nucleotide polymorphism in COMT gene and preterm labor in African Americans. 11th RCMi international symposium on health disparity. Dec 1-4, 2008, Honolulu, Hawaii. (Podium presentation)
105. Chandrasekhar Thota, Ramkumar Menon, Stephen Fortunato and Ayman **Al-Hendy**. A single nucleotide polymorphism in fetal COMT gene is associated with preterm birth in African Americans. 56th Annual Scientific Meeting, Society of Gynecologic Investigation, Glasgow, Scotland, March 18-21, 2009.
106. Vargis E, Robertson K, Resse J, **Al-Hendy A**, Mahadevan-Jansen A. Detection of Preterm Labor with Raman Spectroscopy. *Advances in Optics for Biotechnology, Medicine and Surgery XI: Clinical Challenges and Research Solutions*. Burlington, VT, June 2009.

INVITED CLINICAL & RESEARCH PRESENTATIONS AND LECTURES:

1. Chronic Pelvic Pain in Women. Grand round, Dept of Obstetrics and Gynecology, Meharry Medical College, Nashville, TN, December 11, 2008.
2. Chronic Pelvic Pain in Women. American Academy of Pain Management, 9th annual conference, Nashville, TN, September 10, 2008.
3. Serving Muslim Patients in America. Vanderbilt University. Nashville, TN, April 17, 2008.
4. Fibroids update. Healthcare for the women over 40, 20th annual James symposium in Obstetrics & Gynecology. Nashville, TN, April 4, 2008.

5. Adenovirus-Mediated Gene Therapy of Uterine Fibroids. NICHD Uterine fibroid research update workshop, NIH, Rockville, MD, Sept 18-19, 2007
6. Why are Uterine Fibroids More Common in African Americans? NICHD Uterine fibroid research update workshop, NIH, Rockville, MD, Sept 18-19, 2007.
7. Molecular Genetics of the Ethnic disparity in uterine leiomyoma. Wayne state University, Detroit, MI, March 28, 2007.
8. Why is uterine leiomyoma more common in black women?. Grand round. Baylor College of Medicine, Houston, TX, Jan 24th, 2007.
9. Molecular Genetics of the Ethnic disparity in uterine leiomyoma. Grand round. University of Michigan, Ann arbor, MI, Oct 19, 2006.
10. Cell and Gene Therapy in Gynecology. University of Michigan, Ann arbor, MI, Oct 19, 2006.
11. Stem cell therapy & Gynecology. Keynote lecture, 2nd international conference on stem cells. Trabzone, Turkey, Sept 6-9, 2006.
12. Religious Differences in Our Workforce: Special Considerations in Healthcare Delivery, UTMB, Galveston, Texas, May 19, 2005.
13. Estrogen Metabolism: Is it a Black & White Thing?. Grand Round. University of Texas Medical Branch, Galveston, Texas, Feb 2, 2005.
14. Gene and Cell Therapy in Gynecology. Grand Round. Dept of Pharmacology, Ain Shams University, Cairo, Egypt, Dec 21, 2004.
15. Prevention of Laparoscopic Complications. Grand round, Dept of Obstetrics and Gynecology, Zagazig University, Zagazig, Egypt, Dec 19, 2004.
16. Chronic Pelvic Pain, a painful problem.. Grand Rounds, Department of Obstetrics and Gynecology, Kuwait University, Kuwait, Dec 13, 2004.
17. Ethnicity and Estrogen Metabolism. Microsymposium, March 27-28, 2004, University of Texas Medical Branch, Galveston, Texas.
18. Genetics and Gene Therapy of Uterine Leiomyomas. Center for Cell and Gene Therapy, Baylor College of Medicine, Houston, Texas, March 11, 2004.
19. Prevention of Laparoscopic Complications. 2nd international Obstetrics and Gynecology conference, Al-Menia University, Egypt, March 3-4, 2004.
20. New Treatment of Uterine Leiomyoma. 2nd international Obstetrics and Gynecology conference, Al-Menia University, Egypt, March 3-4, 2004.

21. Genetics and Gene Therapy of Uterine Leiomyoma. Grand Rounds, Dept of Pharmacology and Toxicology, University of Texas Medical Branch, Galveston, Texas, Jan 20, 2004.
22. Gene and Cell Therapy in Gynecology. Grand Round. University of Texas Medical Branch, Galveston, Texas, June 16, 2004.
23. Genetics and Gene Therapy of Uterine Leiomyomas. Grand Rounds, Department of Obstetrics and Gynecology, Wayne University, Detroit, Michigan, October 21, 2003.
24. Chronic Pelvic Pain, a painful problem.. Grand Rounds, Department of Obstetrics and Gynecology, Wayne University, Detroit, Michigan, October 21, 2003.
25. Novel Therapeutics for Uterine Leiomyomas. Center for Interdisciplinary Research in Women Health, University of Texas Medical Branch, Galveston, Texas, April 10, 2003.
26. New Treatments of Uterine Leiomyomas. Department of Obstetrics and Gynecology, Kasr Al-Aini University, Cairo, Egypt, December 16, 2002.
27. Contraception, Presentation to Armenian physicians via University of Texas Medical Branch Telemedia Program, June 13, 2002.
28. Gene Therapy Approach for Gynecologic (and Obstetric) Disorders. Women's Reproductive Health Research Workshop. University of Texas Medical Branch, Galveston, Texas, December 20, 2000.
29. Gene Therapy for Ovarian Cancer. Invited speaker, American College of Obstetricians and Gynecologists, Annual District VI Meeting, September 21-23, 2000, Winnipeg, Manitoba, Canada.
30. Adenoviral Gene Therapy of Ovarian Cancer. Grand Rounds, Department of Obstetrics and Gynecology, University of Texas Medical Branch, Galveston, Texas, January 5, 2000.
31. Gene Therapy of Epithelial Ovarian Cancer. Division of Gynecologic Oncology, Department of Obstetrics and Gynecology, University of Toronto, Toronto, Ontario, Canada, April 20, 1998.
32. Gonadotropin receptor structure/function in the ovary and clinical implications. Division of Reproductive Medicine, Department of Obstetrics and Gynecology, University of Western Ontario, London, Ontario, Canada, November 19, 1998.
33. Gene Therapy Using Encapsulated Cells. College of Veterinary Medicine, University of Saskatchewan, Saskatoon, Canada, February 28, 1997.
34. Molecular Genetics of Yersinia Lipopolysaccharides. Baylor College of Medicine, Houston, Texas, September 22, 1993.

35. Molecular Genetics of Yersinia Lipopolysaccharides. Department of Microbiology, Zagazig University, Zagazig, Egypt, January, 1991.

NIH SCIENTIFIC ADVANCES

1. Why are uterine fibroids more common in African Americans?. Requested by: Dr. Estella Parrot, NICHD, 2006.
2. A Novel animal model for human uterine fibroids. Requested by: Dr. Shelia McClure, NCRR, 2008.

LEADER/ORGANIZER AT NATIONAL & INTERNATIONAL CONFERENCES:

1. Research Co-Chair, 20th annual W.F.B. James symposium and 5th Annual Research symposium in Obstetrics and Gynecology, April 3-5, 2008, Meharry medical college, Nashville, Tennessee.
2. Chairman, plenary session, 4th international Obstetrics and Gynecology conference, Assuit University, Egypt, February 15-17 , 2005
3. Chairman, plenary session, 2nd international Obstetrics and Gynecology conference, Al-Menia University, Egypt, March 3-4, 2004