

## CURRICULUM VITAE

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

Jan 2008

### PRESENT POSITION AND ADDRESS:

Professor & Vice Chair

Department of Obstetrics and Gynecology

Scientific Director

Center for Women's Health Research

Meharry Medical College

Gynecologist/Obstetrician

Nashville General Hospital

1005 Dr. D.B. Todd Jr. Blvd.

Nashville, Tennessee 37208-3599

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[Ahendy@MMC.edu](mailto:Ahendy@MMC.edu)

### BIOGRAPHICAL:

|                 |  |
|-----------------|--|
| Date of Birth:  | January 24, 1964                         |
| Citizenship:    | Egypt/Canada + Permanent Resident of USA |
| Marital Status: | Married, 2 Children                      |
| Address:        | 555 Church St.<br>Nashville, TN 37219    |

### 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                     |
| 09/07- Present  | Gynecologist/Obstetrician<br>Nashville (Metro) General Hospital, Nashville, Tennessee                                    |
| 09/06 – 09/07   | Associate Professor<br>Department of Obstetrics and Gynecology<br>University of Texas Medical Branch<br>Galveston, Texas |

|               |   |
|---------------|---|
| 08/00 – 08/06 | Assistant Professor<br>Department of Obstetrics and Gynecology<br>University of Texas Medical Branch<br>Galveston, Texas  |
| 08/00- 09/07  | Gynecologist/Obstetrician<br>John Sealy Hospital & UTMB Hospitals<br>Galveston, Texas   |
| 07/00 – 08/00 | Obstetrician and Gynecologist (Locum)<br>Swift Current Health District<br>Saskatchewan, Canada  |
| 07/95 – 06/00 | Residents and Medical Student Teaching and Supervision<br>Grand Rounds<br>Residents Academic Teaching<br>Department of Obstetrics and Gynecology<br>Saskatoon, Saskatchewan, Canada |
| 11/88 – 04/92 | Teaching Assistant<br>Department of Medical Microbiology<br>Turku University<br>Turku, Finland  |

**EDUCATION:**

|               |   |
|---------------|---|
| 07/95 – 06/00 | Resident<br>Department of Obstetrics and Gynecology<br>Royal University Hospital<br>University of Saskatchewan<br>Saskatchewan, Canada  |
| 07/94 – 06/95 | Fellow<br>Canadian College of Medical Genetics<br>Specialty: Clinical Molecular Genetics<br>Medical Genetics Unit<br>McGill University<br>Montréal Children's Hospital Research Institute<br>Montréal, Québec, Canada |
| 06/92 – 06/94 | Post Doctoral Research Fellow<br>Division of Human Genetics<br>Department of Pediatrics<br>McMaster University<br>Hamilton, Ontario, Canada   |
| 11/88 – 03/92 | Ph.D. Graduate Student  |

DNA - Laboratory  
Department of Medical Microbiology  
Turku University  
Turku, Finland

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|---------------|--|
| 3/88 – 11/88  | Resident<br>Department of Oto-Rhino-Laryngology<br>Benha University Hospital<br>Benha, Egypt   |
| 3/87 – 2/88   | Intern<br>Rotational Internship<br>Benha University Hospital<br>Benha, Egypt   |
| 10/80 – 12/86 | M.D.<br>Benha Faculty of Medicine<br>Zagazig University<br>Benha, Egypt (General Grade: Excellent with<br>Honor Degree, Ranked: First in graduating class) |
| 10/77 – 06/80 | General Secondary School Certificate (G.S.S.C)<br>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
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

3. 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
4. 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.

**B. PENDING:**

1. National Institute of Health (NICHD), U01 AG032715-01, Title: Meharry Center for the management of menopausal symptoms. PIs: Ayman Al-Hendy MD PhD, & Gloria Richard-Davis MD.
2. National Institute of Health (NICHD), 1R01 HD046228-06, Title: Targeting Adenovirus for Uterine Leiomyoma Gene Therapy. PI: Ayman Al-Hendy MD PhD.
3. National Institute of Health (NICHD), 1 R21 HD053548-01, Title: Why is preterm labor more common in blacks?. PI: Ayman Al-Hendy M.D., Ph.D., 2008-2010
4. National Institute of Health (NCI), R01, Title: ER-Blocking Gene Therapy for Cervical Cancer. PI: William Au PhD. Ayman Al-Hendy MD PhD , Co-I, 15% effort.

**C. COMPLETED:**

- a. 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
- b. 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
- c. 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
- d. 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

- e. 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
- f. 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
- g. 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:**

- h. US patent No. 60/365,760. Adenovirus mediated therapy for uterine conditions.
- i. US provisional patent No. 60/245,030 Follistatine mutations and polycystic ovary syndrome.
- j. 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) Chair, Research subcommittee, RCMI Translational Research Network (RTRN), 2007-Present.
- (2) Society for the Study of Reproduction (SSR): Clinical Outreach Committee. Member, 2007 - Present
- (3) NIH/NICHD U54 special emphasis group, Specialized Cooperative Centers for Reproduction and Infertility Research (SCCPRIR), Nov 2007
- (4) NIH Integrative & Clinical Endocrinology and Reproduction study section (ICER), *Ad Hoc* member, Feb 2008
- (5) 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: Executive faculty committee, member, 2007 – Present, Nashville, Tennessee
9. Meharry Department of Obstetrics and Gynecology : Education committee, member, 2007 – Present, Nashville, Tennessee
10. Meharry Department of Obstetrics and Gynecology Finance & Governance committee, member, 2007 – Present, Nashville, Tennessee
11. Meharry School of Medicine: Executive faculty committee, member, 2007 – Present, Nashville, Tennessee
12. Meharry RCMI Internal advisory committee, member, 2007 – Present, Nashville, Tennessee
13. Meharry RCMI Executive Advisory committee, member, 2007 – Present, Nashville, Tennessee
14. UTMB OR Committee, Member, 2005 – 2007, Galveston, Texas.
15. 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 2<sup>nd</sup> 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

#### **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

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| 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:**

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

Royal College of Physicians and Surgeons of Canada (Obstetrics and  
Gynecology)

**LICENSURE INFORMATION:**

Texas State Board of Medical Examiners  
Physician Permit  
License Number L4847  
Expiration: 05/31/09

Texas Controlled Substances Registration  
Texas Department of Public Safety  
Registration Number 50127375  
Expiration: 1/31/08

Controlled Substance Registration  
United States Department of Justice  
Drug Enforcement Administration  
Registration Number BA8143656  
Expiration: 6/30/08

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

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. Golden Apple Teaching Award, Department of Obstetrics and Gynecology, University of Texas Medical Branch, Galveston, Texas, June 2003.
2. America's Top Obstetricians and Gynecologists, published by Consumers' Research Council of America, 2004-2006.
3. Burroughs Wellcome Fund Clinical Scientist Award in Translational Research, Nominated by School of Medicine, University of Texas Medical Branch, Galveston, Texas, 2003
4. American College of Obstetricians and Gynecologists, Junior Fellow Prize Paper Presentation, ACOG District VI Meeting, Maui, Hawaii, Oct. 26-29, 1999
5. Medical Research Council of Canada and Canadian Society of Clinical Investigations, Annual Resident Research Award, Ottawa, Ontario, Canada, 1998
6. Society of Obstetricians and Gynaecologists of Canada, Junior Member Elective Fellowship Award, Ottawa, Ontario, Canada, 1998
7. Peter Vernon Clinical Fellowship in Gynecologic Oncology, Division of Gynecologic Oncology, Department of Obstetrics and Gynecology, University of Toronto, Toronto, Canada, 1998
8. Second Prize, Annual Resident Research Day, Department of Obstetrics and Gynecology, University of Saskatchewan, Saskatchewan, Canada, June 11-12, 1998.
9. First Prize Paper, 46th American College of Obstetrics and Gynecology, Annual Clinical Meeting, New Orleans, Louisiana, May 9-13, 1998
10. First Prize, Annual Resident Research Day, Department of Obstetrics and Gynecology, University of Saskatchewan, Saskatchewan, Canada, June 12-13, 1997
11. Post-Doctoral Clinical Award (Finalist) of the American Society of Human Genetics, Montréal, Québec, Canada, October 18-22, 1994
12. The Honourary Medal of Nagoya University School of Medicine, Scientific Day, Showa-Ku, Nagoya, Aichi 466, Japan, September 27, 1990
13. Young Investigator Award, First Congress of International Endotoxin Society, San Diego, California, May 10-12 1990
14. 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 Miittisen 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. Human Reproduction
4. Molecular Human Reproduction.
5. Acta Pharmacologica Sinica
6. Neoplasia
7. John Hopkins Advanced Studies in Medicine

8. Molecular Carcinogenesis
9. Journal of Society of Gynecologic Investigations.
10. Fertility & Sterility
11. European Journal of Obstetrics, Gynecology, and Reproductive Biology.
12. APMIS (Acta Pathologica Microbiologica Immunologica Scandnavica).
13. Gynecologic Oncology.
14. Judge, the Cell Biology Forum, University of Texas Medical Branch, Galveston, Texas, October 2, 2001
15. Judge, Women's Health Week Scientific Forum, Moody Gardens Hotel, Galveston, Texas, May 14, 2003
16. Center for Interdisciplinary Research on Women Health, Small Research Grant Competition, 2003-2004
17. Judge, Second Women's Health Week Scientific Forum, University of Texas Medical Branch, Galveston, Texas, May 12, 2004
18. Society of Gynecologic Investigations (SGI) 2006 Abstract competition.
19. National Medical Student Forum, 2006.
20. External Reviewer, Wayne University, APT committee, 2006.
21. Society of Gynecologic Investigations (SGI) 2007 Abstract competition.

#### **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-Current
- (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-Current

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

(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, Assistant professor, Center for women health research, Meharry Medical College, Nashville, Tennessee, 2007 – Present.

## **MEDICAL/COLLEGE/HIGH SCHOOL STUDENTS SUMMER RESEARCH TRAINEES**

|      |  |
|------|--|
| 2002 | John Thomas (University of Budapest)     |
| 2003 | Mohamed Zaidan (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)

**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<br>Atlanta, Georgia   |
| November 1998 | Division of Reproductive Endocrinology and Infertility,<br>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. *Microbiol 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](http://WWW.birkhauser.com)).
14. **Al-Hendy A**. Enriching research culture in residency. *Am J Obstet Gynecol*, 1999, 181:1271.
15. **Al-Hendy A**, Olatunbosun F, Radhi J; Struma ovarii, *J Soc Obste Gynecol Can*, 1999, 21:1336-1337.
16. **Al-Hendy A**, Magliocco A, Al-Trewegeri T, Barileanu G, Crelin N, Li H, Strong T, Curiel D, Chedrese J. Ovarian cancer gene therapy: repeated treatment with thymidine kinase in an adenovirus vector and ganciclovir improves survival in a novel immunocompetent murine model. *Am J Obstet Gynecol*, 2000, 182:553-559.
17. **Al-Hendy A**, Moshynska O, Saxena A, Feyles V. Association between mutations of the follicle-stimulating-hormone receptor and repeated twinning. *Lancet*, 2000, 356: 914.
18. **Al-Hendy A**, Moshynska O, Saxena A, Feyles V. Follicle-stimulating-hormone receptor and twinning. *Lancet*, 2001, 357:231.
19. Young S, **Al-Hendy A**, Copland J. Potential Non-hormonal Therapeutics for medical treatment of leiomyomas. In Uterine leiomyoma: Options and Choices; Editor Bruce R. Carr, *Seminars in Reproductive Medicine*, 2004, 22(2):121-130.
20. **Al-Hendy A**, Lee E.J, Eyzaguirre E, Copland JA. Towards gene therapy of uterine fibroids: adneovirus-mediated express of dominant negative estrogen receptor induces apoptosis in human leiomyoma cells and inhibits tumor growth. *Am J Obstet Gynecol*, 2004. 191:1621-1631.
20. Walker CL and Stewart EA. Uterine Fibroids: The elephant in the room. *Science* 2005, 308: 1589-1592. (**Al-Hendy A**. Contributed histological photos to this review).

21. **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. *J Soc Gynecol Invest* 2006. 13: 136-144.
22. **Al-Hendy A**. and Salama S. Gene therapy and uterine leiomyoma: a review. *Human Reproduction updates*, 2006 12: 385-400.
23. Salama S., Shu-Leong Ho, Hui Q. Wang, Jukka Tenhunen, Carola Tilgmann, and **Al-Hendy A**. Hormonal Regulation of Catechol-O-Methyl Transferase Activity in Uterine Leiomyoma. *Fertility & Sterility*, 2006, 86: 259-262.
24. **Al-Hendy A**, Salama S. Ethnic distribution of estrogen receptor-alpha polymorphism is associated with a higher prevalence of uterine leiomyomas in black Americans. *Fertility & Sterility*, 2006, 86: 686-693.
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## **B. ABSTRACTS:**

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  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. 8<sup>th</sup> 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. 8<sup>th</sup> 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. 8<sup>th</sup> 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. 11<sup>th</sup> 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<sup>1\*</sup>, Salama A Salama, PhD<sup>1\*</sup>, Mohammad Jamaluddin, PhD<sup>1\*</sup>, Manubai Nagamani, MD<sup>1\*</sup> and **Ayman Al-Hendy, MD<sup>1\*</sup>**. Cyclic variations of Catechol-O-Methyl Transferase (COMT) Expression in Human Endometrium and hormonal regulation of COMT in Human Stromal Endometrial Cell line. 53<sup>rd</sup> Annual Scientific Meeting, Society of Gynecologic Investigation, Toronto, March 22-25, 2006.
  75. Sana M Salih, MD<sup>1\*</sup>, Manubai Nagamani, MD<sup>1\*</sup>, Antonie Duleba, MD<sup>1\*</sup> and **Ayman Al-Hendy, MD<sup>1\*</sup>**. Reduced Levels of Urinary 2 Hydroxy Estrogens in Polycystic Ovary Syndrome, An Insight into Pathogenesis of follicular atresia.. 53<sup>rd</sup> 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 53<sup>rd</sup> 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. 53<sup>rd</sup> 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 53<sup>rd</sup> 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. 53<sup>rd</sup> 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. 53<sup>rd</sup> 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.

#### **INVITED CLINICAL & RESEARCH PRESENTATIONS AND LECTURES:**

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

14. New Treatment of Uterine Leiomyoma. 2<sup>nd</sup> international Obstetrics and Gynecology conference, Al-Menia University, Egypt, March 3-4, 2004.
15. Genetics and Gene Therapy of Uterine Leiomyoma. Grand Rounds, Dept of Pharmacology and Toxicology, University of Texas Medical Branch, Galveston, Texas, Jan 20, 2004.
16. Gene and Cell Therapy in Gynecology. Grand Round. University of Texas Medical Branch, Galveston, Texas, June 16, 2004.
17. Genetics and Gene Therapy of Uterine Leiomyomas. Grand Rounds, Department of Obstetrics and Gynecology, Wayne University, Detroit, Michigan, October 21, 2003.
18. Chronic Pelvic Pain, a painful problem.. Grand Rounds, Department of Obstetrics and Gynecology, Wayne University, Detroit, Michigan, October 21, 2003.
19. Novel Therapeutics for Uterine Leiomyomas. Center for Interdisciplinary Research in Women Health, University of Texas Medical Branch, Galveston, Texas, April 10, 2003.
20. New Treatments of Uterine Leiomyomas. Department of Obstetrics and Gynecology, Kasr Al-Aini University, Cairo, Egypt, December 16, 2002.
21. Contraception, Presentation to Armenian physicians via University of Texas Medical Branch Telemedia Program, June 13, 2002.
22. Gene Therapy Approach for Gynecologic (and Obstetric) Disorders. Women's Reproductive Health Research Workshop. University of Texas Medical Branch, Galveston, Texas, December 20, 2000.
23. Gene Therapy for Ovarian Cancer. Invited speaker, American College of Obstetricians and Gynecologists, Annual District VI Meeting, September 21-23, 2000, Winnipeg, Manitoba, Canada.
24. Adenoviral Gene Therapy of Ovarian Cancer. Grand Rounds, Department of Obstetrics and Gynecology, University of Texas Medical Branch, Galveston, Texas, January 5, 2000.
25. Gene Therapy of Epithelial Ovarian Cancer. Division of Gynecologic Oncology, Department of Obstetrics and Gynecology, University of Toronto, Toronto, Ontario, Canada, April 20, 1998.
26. 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.

27. Gene Therapy Using Encapsulated Cells. College of Veterinary Medicine, University of Saskatchewan, Saskatoon, Canada, February 28, 1997.
28. Molecular Genetics of Yersinia Lipopolysaccharides. Baylor College of Medicine, Houston, Texas, September 22, 1993.
29. Molecular Genetics of Yersinia Lipopolysaccharides. Department of Microbiology, Zagazig University, Zagazig, Egypt, January, 1991.