

Wael M. Abdel Megid

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EDUCATION

University of Wisconsin, Madison, USA

- **Doctor of Philosophy** **2007**
Emphasis on Endocrinology, Reproduction and Physiology
- Dissertation: Genomic Instability Of Infertile Human Spermatozoa
And Somatic Cells Exposed To Free Radicals

Danube University of Krems, Austria

- **Master of Advanced Studies in Clinical Embryology** **2002**
Program in Clinical Embryology
Department Environmental and of Medical Sciences
- Thesis: Auto-Ovarian Antibodies & Poor Response to Ovarian Stimulation

Al-Azhar University, Egypt

- **Master of Obstetrics and Gynecology** **1999**
Program in Obstetrics and Gynecology
Faculty of Medicine
- Completed Thesis: Estimation of the Estrogen Receptor Gene in Infertile Women
- Second exam pending

Cairo University, Egypt

- **M.B.B.Ch.** **1995**
Faculty of Medicine

RELEVANT COURSES

Ph.D. Coursework

Gamete and Embryo Physiology	Biochemistry
Statistics Methods for Bioscience	Human Genetics
Endocrinology Reproduction and Physiology	Reproductive Patterns
Molecular Biology Techniques	
Emerging Techniques of Protein Genetic Engineering	

Master's Coursework

Basic Cell & Molecular biology	Microbiology in ART
Clinical Management of the ART Cycle	Semen Assessment
Lab Design & Management	Sperm Preparation
In Vitro Embryo Culture & Development	Organogenesis
Gene Expression and Apoptosis	Embryo Metabolism

Preimplantation & Prenatal Genetic Diagnosis	Genetics of Infertility
Genes Involved in Oogenesis & Spermatogenesis	Screening Tests
Assisted Hatching & Fragment Removal	Ethics
Principles of Cryobiology	Sperm Freezing
Ovarian & Testicular Tissue Freezing	Embryo & Oocyte Freezing
Principle of Microscopy	ICSI & Embryo Biopsy
Development of the Male and Female Reproductive Tracts	

Medical School Coursework

Human Anatomy	Histology	Pathology
Human physiology	Biochemistry	Parasitology
General Surgery	Virology	Pharmacology
Internal Medicine	Bacteriology	Pediatrics & Genetics
Obstetrics & Gynecology	Public Health	Ophthalmology
Forensic & Toxicology	ENT	

LICENSES AND CERTIFICATIONS

AMERICAN BOARD OF BIOANALYSIS

High Complexity Clinical Laboratory Director HCLD (ABB) **2008**

PROFESSIONAL EXPERIENCE

LABORATORY EXPERIENCE

Wisconsin Fertility Institute, Madison, Wisconsin, USA

Laboratory Director **1/07-present**

- Designed the laboratory facility
- Directed the IVF, andrology, chemistry and the hormone laboratories
- Prepared laboratory protocols
- Managed the IVF laboratory and trained embryologists
- Revised and evaluated the embryologists performance
- Monitored quality control, fertilization rates and pregnancy rates
- Performed IVF, ICSI, TESE, Assisted hatching, PGD and Cryopreservation
- Medical Director: David Olive, M.D.
- Practice Director: Elizabeth Pritts, M.D.

Arkansas Fertility Center, little Rock, Arkansas, USA

8/08-present

Off Site Laboratory Director

- Planning, organizing and direction the function of the laboratory
- Reviews laboratory performance and ensure compliance with the regulatory agencies
- Assists in making recommendations for the changes that ensure the quality
- Helps develop goals, policies, procedures and work standards
- Analyze data on laboratory productivity
- Provide guidance/instruction to laboratory staff as necessary to ensure proper quality

- Assist in the review, audit and inspection as required
- Medical director: Dean Moutos, M.D.

El-Galaa IVF Center (El-Galaa Teaching Hospital)

Cairo, Egypt

Laboratory Director

3/01 - 10/01

- Set-up laboratory and prepared laboratory protocols
- Managed the IVF laboratory and trained embryologists
- Prepared standard operating procedures for clinical studies
- Revised and evaluated the embryologists performance
- Monitored quality control, fertilization rates and pregnancy rates
- Performed IVF, ICSI, TESE, Assisted hatching, PGD and Cryopresevation

Faris Medical Center for Infertility & IVF

Cairo, Egypt

Laboratory Director

02/99 - 03/01

- Directed the IVF laboratory
- Interviewed prospective embryologists
- Monitored fertilization and embryo culture
- Revised laboratory protocols
- Performed IVF, ICSI, PGD and Cryopreservation
- Supervisor: Mohamed Faris, M.D., FRCOG

Laboratory Supervisor

03/97 - 02/99

- Arranged the IVF laboratory daily schedule
- Prepared laboratory manuals and protocols
- Inspected embryology team performance
- Performed IVF, ICSI, PGD and Cryopreservation
- Reported the fertilization rates and pregnancy rates to the laboratory director
- Supervisor: Mohamed Faris, M.D, FRCOG

Senior Embryologist

12/96 - 03/97

- Performed IVF, ICSI, PGD and Cryopreservation
- Ordered lab supplies and performed quality control
- Documented laboratory procedure
- Analyzed semen
- Checked the inventory
- Supervisor: Mohamed Faris, M.D, FRCOG

Junior Embryologist

12/95 - 12/96

- Collected oocytes
- Prepared dishes for IVF
- Performed semen analyses
- Assisted in daily quality control
- Supervisor: Mohamed Faris, M.D, FRCOG

MEDICAL EXPERIENCE

El Galaa Teaching Hospital

Cairo, Egypt

Department of Obstetrics and Gynecology

Residence in Obstetrics and Gynecology

02/98 – 02/01

- Performed normal vaginal & cesarean section deliveries
- Assisted and performed hysterectomy and laparoscopy
- Counseled patients for family planning
- Examined patients in Obstetrics & Gynecology clinics
- Monitored patients postoperative

Cairo University Hospitals and Clinics

Cairo, Egypt

House Officer (Internship)

03/96 – 02/97

- Rotated in Department of Internal Medicine
- Rotated in Department of General Surgery
- Rotated in Department of Pediatrics & Neonatal Medicine
- Rotated in Department of Obstetrics & Gynecology
- Rotated in Department of Ophthalmology
- Rotated in Department of Emergency
- Rotated in Department of Anesthesiology

RESEARCH EXPERIENCE

University of Wisconsin, Madison, USA

Department of Animal Sciences, Madison, WI

Graduate Research Assistant and Doctoral Candidate

2002

- Conducted research and proposed that germline genomic instability in men occurs as an effect of reactive oxygen species (ROS) which, induce DNA strand breaks and lead to subfertile testis that are at risk of developing seminoma by age
- Supervisors: Neal First, Ph.D., Marijo Kent-First, Ph.D.

Faris Medical Center for Infertility & IVF

Cairo, Egypt

Laboratory Director

1999

- Identification of Poor Responders to Ovarian Stimulation In ART
- Supervisor: Mohamed Faris, M.D., FRCOG

TEACHING EXPERIENCE

University of Wisconsin, Madison, USA

Department of Animal Sciences, Madison, WI

Teaching Assistant

01/04 - 05/04

- Class: Introduction to Endocrinology, Physiology and Reproduction
- Graded homework assignments and exams
- Conducted review sessions and assisted students with assignments
- Assisted undergraduate student in the laboratory session

- Supervisor: John Parrish, Ph.D.

GRANT

Promega Corporation, Madison, WI, USA

Genetic Identity Group, R&D

NASA Grant #NAG 9-1525

06/03 - 06/06

Postdoctoral and Research Assistant

- Proposed a Novel Biodosimetry Method for Monitoring Radiation-Induced Genetic Damage
- Supervisor: Jeff Bacher, Ph.D.

PATENT

Promega Corporation, Madison, WI, USA

Genetic Identity Group, R&D

Postdoctoral and Research Assistant

2005

- Methods and Kits for Detecting Germ Cell Genomic Instability
International Application # PCT/US2005/038179

PROFESSIONAL ACTIVITIES

- Manuscript reviewer for Reproductive Bio Medicine Online journal (RBM Online)
- Organized the 9th Annual Embryologist Summit Conference, Madison, WI
- Member of the American Association of Bioanalysis (AAB)
- Member of the American Society of Reproductive Medicine (ASRM)
- Egyptian Representative of Alpha Society of Reproductive Medicine
- Member of the Egyptian Society of Obstetrics & Gynecology

PROFESSIONAL MEETING

- The 64th Annual Meeting of the American Society for Reproductive Medicine (ASRM), San Francisco, USA **2009**
- 9th Annual Embryologist Summit Conference, Madison, USA **2008**
- The 63rd Annual Meeting of the American Society for Reproductive Medicine (ASRM), Washington DC, USA **2007**
- The 62nd Annual Meeting of the American Society for Reproductive Medicine (ASRM), New Orleans, USA **2006**
- The 60th Annual Meeting of the American Society for Reproductive Medicine (ASRM), Pennsylvania, USA **2004**
- 5th Annual Embryologist Summit Conference, Madison, USA **2004**
- Midwest Graduate Conference, Northwestern University, Chicago, USA **2004**
- Alpha Society of Reproductive Medicine, New York, USA **2001**
- Egyptian Society Meeting for Obstetrics and Gynecology, Cairo, Egypt **2001**
- European Society for Human Reproduction & Embryology (ESHRE), Bologna, Italy **2000**

PUBLICATIONS AND ABSTRACTS

- Induction of nuclear and Mitochondrial Genomic Instability by Oxidative Stress. **W. Abdel Megid**, R. Halberg, M. Kent-First, T. Prolla and J. Bacher. In Progress
- Length of Androgen Receptor-CAG Repeats in Fertile and Infertile Egyptian Men. Badran WA, Fahmy I, **Abdel-Megid WM**, Elder K, Mansour R, Kent-First M. J Androl. 2009 Jan 22
- The use of repeat markers to detect Y chromosome mutation in infertile human spermatozoa **W. Abdel Megid**, R. Halberg, M. Kent-First, T. Prolla and J. Bacher. Fertility and Sterility. 2008
- A Novel Method for Biodosimetry. **W. Abdel Megid**, M. Ensenberger, R. Halberg and J. Bacher. Radiation and Environmental Biophysics. 2007 Jun;46(2):147-54.
- Monitoring of genetic damage induced by oxidative stress. **W. Abdel Megid**, M. Kent-First, R. Halberg, M. Ensenberger, J. Bacher. Fertility and Sterility. 2006 Sep 86(Sup. 2): 449
- Use of mononucleotide repeat markers for detection of microsatellite instability in mouse tumors. Jeffery W. Bacher, **Wael M. Abdel Megid**, Marijo Kent-First and Richard B. Halberg. Mol Carcinog. 2005 Dec;44(4):285-92.
- Development of a fluorescent multiplex assay for detection of MSI-High tumors. Jeffery W. Bacher, Laura A. Flanagan, Regenia L. Smalley , Nadine A. Nassif , Lawrence J. Burgart , Richard B. Halberg , **Wael M. Abdel Megid** and Stephen N. Thibodeau. Disease markers 20(2004) 237-250.
- Auto-Ovarian Antibodies and Poor Ovarian Function (Poor Responders to Superovulation Induction). **Wael M. Abdel Megid**, Mohamed Sherif, Marijo Kent-First and Mohamed Ezzat Sakr. Fertility and Sterility. 2004 Sep 82(Sup. 2): 124-25
- Y chromosome assessment and its implications for the development of ICSI children. Katagiri Y, Neri QV, Takeuchi T, Schlegel PN, **Megid WA**, Kent-First M, Rosenwaks Z, Palermo GD. Reprod Biomed Online. 2004 Mar;8(3):307-18.
- Does embryo transfer catheter type affect pregnancy rate? Ismail Aboul Foutoh, Mahmoud Tolba, Ahmed Nakieb, Mohamed Youssef, Mohamed Rushdi and **Wael Abdel Megid**. MEFS journal, Volume 8, Issue No. 2, 2003.
- Estimation of Poor Ovarian Response to Ovarian Stimulation; Mohamed Faris, Ayman Abouzaid, Essam El Gindi and **Wael M. Abdel Megid**. ALPHA Newsletter, Issue no. 21, November 2000

POSTERS

- Development of a fluorescent multiplex assay for detection of MSI-High tumors. Jeffery W. Bacher, Laura A. Flanagan , Nadine A. Nassif , Richard B. Halberg , **Wael M. Abdel Megid** and Stephen N. Thibodeau. ASHG 2004.
- Microsatellite instability multiplex assays using mononucleotide repeats for detection of MSI-H tumors J. Bacher, L. Flanagan, N. Nassif, **Wael M. Abdel Megid**, R. Halberg, W. Dove, N. Suraweera, R. Hamelin (INSERM) and S. Thibodeau. Abstract HNPCC meeting 2003.
- Poor Responders to Superovulation Induction. **Wael M. Abdel Megid**, Mohamed Sherif, Marijo Kent-First and Mohamed Ezzat Sakr. Midwest Graduate Conference, Northwestern University 2004.

COMPUTER SKILLS

Operating Systems

- Windows XP Professional

Applications

- Statistical Programming with SAS, Minitab and Sigma Stat
- Microsoft Office
- Photoshop
- Reference management with EndNote

VOLUNTEER ACTIVITIES

Egyptian Military Service, Fayed, Egypt

03/97 – 03/98

- Service as general practicing M.D.

African Olympic Game, Cairo, Egypt

1990

- Assisted in First Aid in the athletic injuries