

Curriculum Vitae



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Sex: Male

Status: Married, having two daughters

Date of birth: 18/7/1956

Nationality: Egyptian

Languages: English: excellent [TOEFL score: 615 in 1991], German: fair.

Current post: Professor of Molecular Genetics, The Department of Medical Molecular Genetics, Division of Human Genetics and Genome Research, National research Center.

Scientific supervisor of the ancient DNA lab at the Egyptian Museum.

Qualifications:

M.B., B.Ch., Faculty of Medicine, Cairo University, signed very good with Honors, **1979**.

M. Sc. in Pediatrics, Faculty of Medicine, Cairo University, Signed very good, **1983**. Title of thesis: “Some hormonal studies in patients with male pseudohermaphroditism”.

M.D. in Pediatrics, Faculty of Medicine, Cairo University, **1992**. Title of thesis: “Congenital adrenal hyperplasia in cases of abnormal sexual development”.

Employment history:

27/7/2003-present: Professor of Molecular Genetics The Department of Medical Molecular Genetics, Division of Human Genetics and Genome Research, National research Center.

23/6/2003-8/9/2008: Chairman of the Department of Medical Molecular Genetics, Division of Human Genetics and Genome Research, National research Center.

30/11/97–26/7/2003: Associate Professor of Molecular Genetics, Human Genetics Dept., National Research Center.

30/9/92-29/11/97: Researcher of Molecular and Biochemical Genetics, Human Genetics Dept., National Research Center.

21/10/86-29/9/92: Assistant researcher, Human Genetics Dept., National Research Center.

12/7/91-11/11/91: Research fellow, The Liver Research Center, Albert Einstein College of Medicine, NY, USA.

1/3/81-20/10/86: Specialist, Human Genetics Dept., National Research Center.

7/1/85-20/1/86: Research fellow, Pediatric Endocrinology Dept., Johns Hopkins University, MD, USA.

9/1/82-31/12/82: Pediatrics visiting resident, Cairo University Children Hospital and the Diabetic, Endocrine and Metabolic Pediatric Unit, Cairo University.

1/3/80-28/2/81: House officer in Cairo University hospitals.

Awards granted:

1985-1986: Peace fellowship program sponsored by The American Middle East Agency for International Development, AMIDEAST.

1990-1993: The principal investigator of a Young Scientist grant from Schistosomiasis Research Project (a conjoined activity of the Ministry of Health of Egypt and the United States Agency for International Development), entitled: "Oncogene activation in Bilharzial bladder cancer in Egyptian patients".

1993-1996: The deputy principal investigator of a Schistosomiasis Research Project grant (a conjoined activity of the Ministry of Health of Egypt and the United States Agency for International Development), entitled: "Identification of a potential tumor promoter in schistosoma eggs".

1994-1996: The Egyptian principal investigator of the conjoined Italian-Egyptian project entitled: "Use of DNA techniques for identity and molecular diagnosis".

1995: The principal investigator of a National Research Center grant entitled: "Use of DNA techniques for molecular diagnosis of cancer in Egyptians".

1998-2003: The principal investigator of a National strategy for biotechnology and genetic engineering grant entitled: "development of markers for responsiveness to antiviral therapy in HCV infection".

2002-2004: The principal investigator of a National Research Center grant entitled: "Molecular diagnostic markers for congenital adrenal hyperplasia due to 21-hydroxylase deficiency".

2005-2008: The principal investigator of a National strategy for biotechnology and genetic engineering grant entitled: "Molecular diagnosis of some prevalent gene disorders among Egyptians".

2005: Dr. Ikram Abdel Salam Award for Medical Genetics for the year 2005, granted by the Academy of Scientific Research and Technology, Egypt.

2005-2008: The Egyptian principal investigator of the conjoined Tunisian-Egyptian project entitled: "A comparative study of 21-hydroxylase mutational patterns in Egyptian and Tunisian populations".

Membership:

Member of the Egyptian Society of Clinical Chemistry.

Member of the Arabic Society of Medical Research.

Founding Member of the National Society of Human Genetics, Egypt.

Member of the African Society of Human Genetics (and the representative of the North African Region in the society board).

Member of the International Genetic Epidemiology Society.

Courses attended:

1-31 Dec. 1984: A training course in the protection from the hazards of ionizing irradiations, Cairo University, Egypt.

8-19 July 1985: A short course in medical and experimental mammalian genetics, Jackson Laboratory, Bar Harbor, Maine, USA.

30/1-12/2/1993: International Union of Immunological Societies (IUIS) fundamental immunology course, Sharm El Sheikh, Egypt.

18-22 Oct. 2003: “Project/resource capacity management in contract R&D”, organized by UNESCO, at National Research Center, Cairo, Egypt.

17-20 Dec. 2003: Laboratory practical workshop: molecular study of common genetic diseases, organized by EUMEDIS, Tunis, Tunisia.

17-19 Jan. 2007: Result-Based Management workshop for Network Directors of the NEPAD/African Biosciences Initiative, Nairobi, Kenya.

18-19 March 2007: Workshop on Leadership Competencies and Core Management Skills, National research Center, Cairo, Egypt.

Tutorial and other scientific activities:

1. Abdel Aal YA, El Deeb MA, Gad YZ, Hussein IM, Miele M, Ripandella D (editors): The proceedings of the 1st Egyptian Italian Symposium on Biotechnology, Assiut, Egypt (1994).
2. A teaching staff in the Human Genetics course, National Research Center, Egypt (1993, 1995, and 1996).
3. A member of the health task force that shared in the preparation of the protocol of development of the national strategy for biotechnology (1995-1996).
4. A teaching staff in the Annual Molecular Genetics course, National Research Center, Egypt (1998, 1999, 2003-2006).
5. A teaching staff in the “immunology update” course, National Research Center, Egypt (2000).
6. Gad YZ (2000): Gene therapy: present status and future prospects (an Arabic review article). NRC news, 93/94:46-47.
7. A lecture on “gene therapy: basics and prospects”, in the ASRT pharmacology committee symposium on gene therapy, ASRT, Cairo, Egypt (2001).
8. A member of the committee for development of the field of gene and immune therapy, National Research Center (2001).
9. A visiting tutor of “advanced biochemistry-molecular biology” postgraduate course, pharmacy faculty for girls, Al-Azhar University (2001-2008).
10. A visiting scientist to the Research Institute of Ophthalmology (2001-2003).
11. A teaching staff in the Annual course on molecular techniques and radioisotope use in medicine, The Middle Eastern regional radioisotope center for the Arab countries, Egypt (2002-2007).
12. A teaching staff in the Annual course on radioisotope applications in

biotechnology and genetic engineering, The Middle Eastern regional radioisotope center for the Arab countries, Egypt (2002-2007).

13. A lecture on “new trends in gene therapy” in the second training course on detoxification and addiction therapy, Cairo, Egypt (2003).
14. A lecture on “gene therapy” in Al-Ahram scientific club, Al-Ahram newspaper, Cairo, Egypt (2003).
15. A founding member of the Department of Medical Molecular Genetics, National Research Center (2003).
16. A visiting tutor of “molecular genetics” postgraduate course, faculty of Science, Cairo University (2003-2004).
17. A member of the staff of office for international relations, National Research Center (2003-2007).
18. A member of the committee for medical ethics, National Research Center (2003-2008).
19. A teaching staff in the Annual DNA fingerprinting course, National Research Center, Egypt (2004-2007).
20. A visiting tutor of “advanced biochemistry-molecular biology” postgraduate course, pharmacy faculty for men, Al-Azhar University (2004-2005, 2008).
21. A teaching staff in the training course on biological evaluation of human remains from ancient Egypt, organized by NRC and Manchester University, (2005).
22. A remote center teaching staff and co-organizer of the hybrid training courses in medical genetics, organized by European School of Genetic Medicine, (2005-2007).
23. A member of the task force for preparation of the business plan for NEPAD/North African biosciences initiative (2006).
24. The representative for the North African region in the board of the African Society of Human Genetics (2006-).

25. Establishment and scientific supervision of the first Egyptian lab for ancient DNA studies at the Egyptian Museum (2007-present).
26. A senior researcher in the National Mummy project, Egypt (April 2008-).
27. Scientific supervision of 6 M. Sc. and 6 PhD. Theses.
28. Independent Expert Evaluator of the European Commission FP7-People actions, (2008-).
29. A member in the scientific advisory board of the EuroDSD network (2008-).
30. A reviewer in the Arab Science and Technology Foundation (ASTF) (2008-).
31. Numerous TV interviews and programs and articles in newspapers and magazines.

Publications:

1. El-Awady MK, Temtamy SA, Salam MA, Gad YZ (1987): Familial Leydig cell hypoplasia as a cause of male pseudohermaphroditism. Hum. Hered., 37:36.
2. Gad YZ, Berkovitz GD, Migeon CJ, Brown TR (1988): Studies of up-regulation of androgen receptors in genital skin fibroblasts. Mol. Cell. Endocrinol., 57:205.
3. El-Awady MK, Salam MA, Gad YZ, El-Saban J (1989): Dihydrotestosterone regulates plasma sex hormone-binding globulin in prepubertal males. Clin. Endocrinol., 30:279.
4. El-Awady MK, Salam MA, Gad YZ, El-Saban J (1990): Relative indices of testosterone fractions remain unchanged in androgen insensitivity syndrome after human chorionic gonadotrophin stimulation test in prepubertal boys. Appl. Endocrinol. Egypt, 8:167.

5. El-Awady MK, Temtamy SA, Gad YZ (1990): Adrenocortical androgen hypersecretion in hirsutism. *Appl. Endocrinol. Egypt*, 8 (suppl.): 103.
6. Gad YZ, Temtamy SA, El-Awady MK (1990): Late-onset 21-hydroxylase deficiency in childhood. *Appl. Endocrinol. Egypt*, 8 (suppl.): 121.
7. Ismail SM, Gad YZ, Mageid NA, Boulis R, El-Awady MK (1996): Alpha-L-iduronidase deficiency in Egyptian Patients. In: *Diagnosis and Treatment of Inborn Errors of Metabolism: Contributions to an Equal Opportunity for Children in Asia and Europe* [The proceedings of 3rd Asian-European Workshop on inborn errors of metabolism, held in Cairo, Egypt], published by the Turkish Society for PKU, Istanbul, p. 212.
8. El-Sayed KS, Mahmoud A, Gad YZ, Ali AM, El-Awady MK. (1996): Abnormal adenosine deaminase activity in peripheral leucocytes from patients with combined immunodeficiency syndrome. *Med. J. Cairo Univ.* 64 (suppl.): 65.
9. Mazen I, Gad YZ, Khalil A (1996): Intersex disorders among Egyptian patients. *J. Arab Child*, 7:607.
10. Gad YZ, Nasr H, Mazen I, Salah N, El-Ridi R (1997): 5 α -reductase deficiency in patients with micropenis. *J Inherit. Metab. Dis.*, 20:95.
11. Essawi M, Gad YZ, El-Rouby O, Temtamy SA, Sabour YA, El-Awady MK (1997): Molecular analysis of androgen resistance syndromes in Egyptian patients. *Dis. Markers*, 13:99.
12. Gad YZ, Burk RD, Abdel-Wahab AA, Bibers M, Essawi M, Sharaf A, Omran M, El-Awady MK (1999): Allelic loss in schistosomal bladder cancer. *Med. J. Cairo Univ.*, 67:399.
13. El-Rifai W, Kamel D, Larramendy ML, Shoman S, Gad Y, Baithun S, El-Awady M, Eissa S, Khaled H, Soloneski S, Sheaff M, Knuutila S (2000): DNA copy number changes in schistosoma-associated and non-schistosoma-associated bladder cancer. *Am. J. Pathol.*, 156: 871.
14. Ebrahim MA, Gad YZ, Aboul-Ezz EHA, El-Awady MK, El-Gally K

- (2000): PCR detection of interleukin-8 in juvenile periodontitis. *Cairo Dent. J.*, 16:239.
15. El-Awady MK, Gad YZ, Effat LK, Essawi ML, Abdel Wahab AA (2001): Androgen receptor (CAG) repeat microsatellite in bladder cancer. *Bull. Egypt. Soc. Physiol. Sci.*, 21:1.
 16. El-Awady MK, Gad YZ, Wen Y, Essawi ML, Effat L, Amr KS, Ismail S, Christ GJ (2001): Schistosoma hematobium soluble egg antigens induce proliferation of urothelial and endothelial cells. *World J. Urol.*, 19: 263.
 17. Gad YZ, Ismail S, Amr KS, Sharaf AA, Effat L, Essawi ML, El Din NG, El-Awady MK (2001): Allele profiles of short tandem repeat loci in Egyptians. *New Egypt. J. Med.*, 24: 117.
 18. El-Awady MK, Amr KS, Sharaf AA, El-Garf W, Essawi ML, Effat L, Ismail S, Gad YZ (2001): Optimization of differential display-reverse transcription (DDRT) analysis of human urothelial mRNA. *Med. J. Cairo Univ.*, 69: 257.
 19. Sobhy EM, Ali MI, Darwish HA, Barsoum RS, Sobhy NE, Gad YZ (2001): Pilot study of the molecular basis of autosomal dominant polycystic kidney disease in Egyptian patients. *Med. J. Cairo Univ.*, 69: 515.
 20. Gad YZ (2002): The I172N mutation in the CYP21 gene as an etiology for salt wasting congenital adrenal hyperplasia. *New Egypt. J. Med.*, 27:243.
 21. Gad YZ, Mazen I, Lumbroso S, Temtamy SA, Sultan C (2003): A novel point mutation of the androgen receptor (F804L) in an Egyptian newborn with complete androgen insensitivity associated with congenital glaucoma and hypertrophic stenosis. *Clin. Genet.*, 63:59.
 22. Mazen I, Gad YZ, Hafez M, Sultan C, Lumbroso S (2003): Molecular analysis of 5 α -reductase type 2 gene in eight unrelated Egyptian children with suspected 5 α -reductase deficiency: Prevalence of the G34R mutation. *Clin. Endocrinol.*, 58: 627.
 23. El-Harouni AA, Amr KS, Effat L, Essawi ML, Ismail S, Gad YZ, El-

- Awady MK (2003): The milder phenotype of the dystrophin gene double deletions. *Acta Neurol. Scand.*, 107: 400.
24. Pals-Rylaarsdam R, Liu G, Brickman W, Duranteau L, Monroe J, El-Awady MK, Gad YZ, Shenker A (2005): A novel double mutation in the luteinizing hormone receptor in a kindred with familial Leydig cell hypoplasia and male pseudohermaphroditism. *Endocr. Res.*, 31:307.
25. Gad YZ, Khairt R, Mazen I, Osman HG (2007): Detection of G34R mutation in 5 alpha reductase 2 gene by allele specific PCR and its linkage to 89L allele among Egyptian cases . *Sex. Dev.*, 1:293.
26. Effat LK, Essawi ML, Abdel Hamid MS, Hawari N, Gad YZ (2008): Screening for six Mediterranean mutations in 90 Egyptian patients with phenylketonuria. *Bratisl. Lek. Listy.*, 109:17.