

CURRICULUM VITAE



1. PERSONAL DATA

Name: Yehia Zakaria Gad

Date of Birth: 18/7/1956

Place of Birth: Giza, Egypt

Nationality: Egyptian

Contact Address: Department of Medical Molecular Genetics
Human Genetics and Genome Research Institute (Ex-Division of Human Genetics
and Genome Research)

National Research Centre (NRC)

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2. ACADEMIC/PROFESSIONAL PARTICULARS

(a) Field of Specialization:

Major Field of Specialization: Human Genetics

Fine Field Specialization: Molecular Genetics

(b) Academic Qualifications:

M.D., Pediatrics, 1992, Faculty of Medicine, Cairo University, Egypt, Dissertation Title: "Congenital adrenal hyperplasia in cases of abnormal sexual development".

M.Sc., Pediatrics, 1983, Faculty of Medicine, Cairo University, Egypt, Dissertation Title: "Some hormonal studies in patients with male pseudohermaphroditism", signed very good.

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

(c) Academic Honors and Awards:

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

(d) Membership of Professional Bodies:

- Arab Association of Genetic Research (AAGR), Federation of Arab Scientific Research Councils (FASRC), Egypt's delegate, since 2015.
- Arabic Society of Medical Research, Member, since 2006.
- African Society of Human Genetics, Member and the ex-representative of the North African Region in the society board, since 2006.
- National Society of Human Genetics, Egypt, Founding Member, since 2005.

(e) Language Proficiency:

- Arabic: native
- English: excellent
- German: basic

3. CAREER DETAILS

(a) Academic Positions Held:

- Emeritus Professor of Molecular Genetics, Department of Medical Molecular Genetics, Human Genetics and Genome Research Institute, National Research Centre (NRC), Egypt (07/16-present).
- Professor of Molecular Genetics, Department of Medical Molecular Genetics, Division of Human Genetics and Genome Research, National Research Centre (NRC), Egypt (07/03-07/16).

- Associate Professor of Molecular Genetics, Human Genetics Dept., National Research Centre, Egypt (11/97-07/03).
- Researcher of Molecular and Biochemical Genetics, Human Genetics Dept., National Research Centre, Egypt (09/92-11/97).
- Assistant Researcher, Human Genetics Dept., National Research Centre, Egypt (10/86-9/92).
- Specialist, Human Genetics Dept., National Research Centre, Egypt (03/81-10/86).

(b) Professional Positions Held:

- Scientific Supervisor of the ancient DNA lab at the National Museum of Egyptian Civilization (NMEC), Egypt (12/17-present).
- Scientific Supervisor of the ancient DNA lab at the Egyptian Museum, Egypt (04/07-6/09).
- Scientific Consultant at the Unit of Ophthalmic Genetics, Research Institute of Ophthalmology, Egypt (04/01-03/03).
- Research Fellow, The Liver Research Center, Albert Einstein College of Medicine, NY, USA (07/91-11/91).
- Research Fellow, Pediatric Endocrinology Dept., Johns Hopkins University, MD, USA (01/85-01/86).
- General Pediatrician at owned private clinic, Egypt (01/83-11/07).
- Pediatrics Visiting Resident, Cairo University Children Hospital and the Diabetic, Endocrine and Metabolic Pediatric Unit, Cairo University, Egypt (01/82-12/82).
- House Officer in Cairo University hospitals, Egypt (03/80-02/81).

(c) Administrative Positions Held:

- Acting Vice President of the Academy of Scientific Research and Technology (for Specialized Councils), Egypt (11/13-06/14).
- Senior Medical Officer and Head of the Project Management Dept., Science and Technology Development Fund (STDF), Egypt (7/09-06/11).
- Chairman of the Department of Medical Molecular Genetics, Division of Human Genetics and Genome Research, National Research Centre, Egypt (06/03-09/08).

4. Teaching

(a) Summary of Courses Taught:

- Molecular Biology course for Oral Biology Ph.D. Program students, Faculty of Dentistry, Cairo University, Egypt, one semester Feb.-May 2017, Jan-May 2018.
- Short "Pharmacogenomics" course to Clinical Pharmacy Ph.D. Program students, Faculty of Pharmacy, Ain Shams University, Egypt, once in 12/12.
- Advanced Biochemistry-Molecular Biology courses for Biochemistry M.Sc. And Ph.D. Program students, Faculty of Pharmacy for Girls, Al-Azhar University, Egypt, one semester/year for 7 consecutive years, 2001-2008.
- Molecular Genetics course for Zoology M.Sc. Program students, Faculty of Science, Cairo University, Egypt, one semester in 2003/2004.
- Advanced Biochemistry-Molecular Biology courses for Biochemistry M.Sc. And Ph.D. Program students, Faculty of Pharmacy for Boys, Al-Azhar University, Egypt, one semester/year, twice in 2004/2005 and 2007/2008.

(b) Research Students Supervised/Trained

<u>Level</u>	<u>Number of Trainees</u>
PhD Students	10
Master Students	7

(c) Participation in Thesis and Oral Examination Committees

<u>Level</u>	<u>Number of Examinations</u>
PhD Students	11
Master Students	7

(d) Training

- A teaching staff and co-organizer, Workshop on archaeogenetic analysis of human remains, organized by National Museum of Egyptian Civilization, Egypt and Nottingham Trent University, UK, at National Museum of Egyptian Civilization, Egypt (6/2024).
- A teaching staff in the NMEC Winter School, (2/2023).
- A teaching staff in the NMEC undergraduate Summer School, (8/2021).
- A remote center teaching staff, 31st Course in Clinical Genetics and NGS,

- organized and webcast by European School of Genetic Medicine and European Genetic Foundation, Bertinoro, Italy, Egyptian Remote Educational Center, National Research Centre, Egypt (<week/course in 04-05/18).
- A remote center teaching staff, 5th Course in Next Generation Sequencing, organized and webcast by European School of Genetic Medicine and European Genetic Foundation, Bertinoro, Italy, Egyptian Remote Educational Center, National Research Centre, Egypt (<week/course in 05/16).
 - A remote center teaching staff, 4th Course in Next Generation Sequencing, organized and webcast by European School of Genetic Medicine and European Genetic Foundation, Bertinoro, Italy, Egyptian Remote Educational Center, National Research Centre, Egypt (<week/course in 05/15).
 - A teaching staff in the Annual Molecular Genetics course, National Research Centre, Egypt (one week/course in 1998, 1999, 2003-2006, 2013).
 - A remote center teaching staff, Annual Course in Medical genetics [18th - 20th], organized and webcast by European School of Genetic Medicine and European Genetic Foundation, Bertinoro, Italy, Egyptian Remote Educational Center, National Research Centre, Egypt (<week/course in 2005-2007).
 - A teaching staff in the training course on Biological Evaluation of Human Remains from Ancient Egypt, organized by National Research Centre, Egypt and Manchester University, UK, National Research Centre, Egypt (one week course in 2005).
 - A teaching staff in the Annual DNA Fingerprinting course, National Research Centre, Egypt (one week/course in 2004-2007).
 - 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 (one week/course in 2002-2007).
 - 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 (one week/course in 2002-2007).
 - A teaching staff in Immunology Update course, National Research Centre, Egypt (one week course in 2000).
 - A teaching staff in the Human Genetics course, National Research Centre, Egypt (one week/course in 1993, 1995, and 1996).

5. RESEARCH

(a) Research Interests

- Human molecular genetics
- Paleogenetics and ancient DNA research
- Biomarker discovery
- Forensic genetics and polymorphism studies
- Upgrading medical education
- Cancer genetics
- Disorders of sex development

(b) Publications/Citations Data: (Orcid no.: 0000-0002-8432-4541; Scopus ID: 6603409200)

<u>Type of Publication</u>	<u>Number of Publications</u>
Articles in International Refereed Journals	26
Articles in International Refereed books	1
Conference Papers	01
Others (articles in national journals)	13

<u>Citation Source</u>	<u>Total number of Citations</u>
Scopus (checked on 27 th June, 2024, h-index: 13)	676
Google Scholar (checked on 27 th June, 2024, h-index: 14)	1160

(c) Research Grants

- International project, Head of ancient DNA research team, entitled: "A study of the late 18th Egyptian dynasty", National Geographic Channel/Supreme Council of Antiquities of Egypt, (2022-2024), \$240,000.
- National grant, The Egyptian Reference Genome Project, The Ancient Egyptian Genome component, (2021-2025), LE5,000,000.
- National grant, Principal Investigator, entitled: "Genetic predisposition to microangiopathic thrombosis in COVID-19". Academy of Scientific Research and Technology, (2020-2022), LE2,000,000.
- National grant, Principal Investigator, entitled: "A next generation sequencing unit for metagenomic analysis of ancient Egyptian biological remains and artifacts". Science and Technology Development Fund, Ministry of Scientific Research, Egypt, (2020-2022), LE10,000,000.
- International collaborative project, The study of human remains from KV40 and TT95 tombs, in collaboration with Swiss Expedition, (2018-present).

- International project, Head of ancient DNA research team, entitled: "A study of the late 18th Egyptian dynasty", Discovery Channel/Supreme Council of Antiquities of Egypt, (2007-2009), \$250,000.
- National grant, Principal Investigator, entitled: "Molecular diagnosis of some prevalent gene disorders among Egyptians", The National Strategy for Biotechnology and Genetic Engineering, Academy of Scientific Research and Technology, Egypt, (2005-2009), LE400,000.
- National Research Centre grant, Principal Investigator, entitled: "Molecular diagnostic markers for congenital adrenal hyperplasia due to 21-hydroxylase deficiency", National Research Centre, Egypt, (2002-2004), LE100,000.
- National grant, Principal Investigator, entitled: "Development of markers for responsiveness to antiviral therapy in HCV infection", The National Strategy for Biotechnology and Genetic Engineering, Academy of Scientific Research and Technology, Egypt, (1998-2003), LE400,000.
- National Research Centre grant, Principal Investigator, entitled: "Use of DNA techniques for molecular diagnosis of cancer in Egyptians", National Research Centre, Egypt, (1995), LE30,000.
- Binational grant, Egyptian Principal Investigator, entitled: "Use of DNA techniques for identity and molecular diagnosis", The conjoined Italian-Egyptian program, Academy of Scientific Research and Technology, Egypt, (1994-1996), LE90,000.
- Binational grant, Deputy Principal Investigator, entitled: "Identification of a potential tumor promoter in schistosoma eggs", Schistosomiasis Research Project (a conjoined activity of the Ministry of Health of Egypt and the United States Agency for International Development), (1993-1996), \$150,000.
- Young Scientist grant, Principal Investigator, entitled: "Oncogene activation in Bilharzial bladder cancer in Egyptian patients", Schistosomiasis Research Project (a conjoined activity of the Ministry of Health of Egypt and the United States Agency for International Development), (1990-1993), \$20,000.

6. SERVICE

(a) Membership of Institutional, National, or International Scientific Advisory Boards:

- North Africa Applied System Analysis Center, Board member, (12/21-present).
- Scientific Committee of the Egyptian Reference Genome Project, head, (3/21-

2/23).

- Scientific Committee of the Egyptian Reference Genome Project, member, (1/21-present).
- Supreme Council of Science and Technology, Board member, (12/20-present).
- Academy of Scientific Research and Technology (ASRT), Board member, (9/20-9/22).
- National Committee for Genetic Sciences, Academy of Scientific Research and Technology, Committee member, (10/18-9/21).
- Scientific Committee for Studies and Research on Human Remains, Ministry of Antiquities, Committee Head, (10/17-present).
- Technical Committee for Forensic Science, Egyptian Organization for Standardization and Quality (EOS), Committee member, (10/17-12/18).
- Committee for selection of ASRT Young African Scientist Award, Academy of Scientific Research and Technology, Egypt, Committee Member (5/16).
- Committee for selection of Incentive State Awards in Medicine, Academy of Scientific Research and Technology, Egypt, Committee Head (4-5/16 and 4-5/19).
- Scientific Advisory Board of the French Egyptian Cooperation Program (Imhotep), Academy of Scientific Research and Technology, Egypt, Egyptian Member (11/13-06/15).
- Scientific Advisory Board of the EuroDSD network [an FP7 project for the establishment of a European network for disorders of sex development], Member (05/08-04/11).
- African Society of Human Genetics board, the North African regional representative (06/06-11/10).
- African Biosciences Initiative [affiliated to New Partnership for Africa's development (NEPAD)], A Member of the task force for preparation of the business plan for NEPAD/North African Biosciences initiative (04-06/06).
- Institutional Committee for Medical Ethics, National Research Centre, Egypt, Member (03/03-12/08).
- Academy of Scientific Research and Technology, Egypt, a Member of the Health task force that shared in the preparation of the protocol of development of the National Strategy for Biotechnology and Genetic Engineering (10-12/95).

(b) Membership of Conference Committees:

- Second Conference of the Arab Association of Genetic Research (AAGR), Conference Co-chair, Nile Ritz-Carlton, Cairo, Egypt, Nov. 2019.
- Remote Educational Center, Co-organizer, 31st Course in Clinical Genetics and NGS, organized and webcast by European School of Genetic Medicine and European Genetic Foundation, Bertinoro, Italy, Egyptian Remote Educational Center, National Research Centre, Egypt, May 2018.
- Remote Educational Center, Co-organizer, 5th Course in Next Generation Sequencing, organized and webcast by European School of Genetic Medicine and European Genetic Foundation, Bertinoro, Italy, Egyptian Remote Educational Center, National Research Centre, Egypt, May 2016.
- Remote Educational Center, Co-organizer, 4th Course in Next Generation Sequencing, organized and webcast by European School of Genetic Medicine and European Genetic Foundation, Bertinoro, Italy, Egyptian Remote Educational Center, National Research Centre, Egypt, May 2015.
- Remote Educational Center, Co-organizer, Annual Course in Medical Genetics [18th -20th and 28th], organized and webcast by European School of Genetic Medicine and European Genetic Foundation, Bertinoro, Italy, Egyptian Remote Educational Center, National Research Centre, Egypt, 2005-2007 and 2015.
- Remote Educational Center, Organizer, 2nd training course on Peer Review in Theory and Practice, organized and webcast by European School of Genetic Medicine and European Genetic Foundation, Bertinoro, Italy, Egyptian Remote Educational Center, Science and Technology Development Fund (STDF), Egypt, Oct. 2009.
- Local Organizing Committee, Member, Conjoined 5th Annual Meeting of African Society of Human Genetics (AfSHG) and First Annual meeting of Division of Human Genetics and Genome Research and National Society of Human Genetics, National Research Centre, Egypt, Nov. 2007.
- Remote Educational Center, Co-organizer, 7th Course in Genetic Counseling, organized and webcast by European School of Genetic Medicine and European Genetic Foundation, Bertinoro, Italy, Egyptian Remote Educational Center, National Research Centre, Egypt, Nov. 2006.
- Remote Educational Center, Co-organizer, 7th and 8th Hybrid Course in Cytogenetics & Microarray Technology, organized and webcast by European School of Genetic Medicine and European Genetic Foundation, Bertinoro,

Italy, Egyptian Remote Educational Center, National Research Centre, Egypt, 2005-2006.

- Remote Educational Center, Co-organizer, Hybrid Course in Cancer Genetics, organized and webcast by European School of Genetic Medicine and European Genetic Foundation, Bertinoro, Italy, Egyptian Remote Educational Center, National Research Centre, Egypt, Oct. 2005.

(c) Service as Reviewer:

Journals:

- Public Health Genomics, ISSN no.: 1662-4246, Karger, (since 01/20).
- Egyptian Journal of Pure and Applied Science, ISSN no.: 1110-0397, Ain Shams University (since 06/15).
- Journal of Genetic Engineering and Biotechnology, ISSN no.: 1687-157X, Elsevier (since 01/12).
- Middle East Journal of Medical Genetics, online ISSN no.: 2090-763X, Wolters Kluwer, (since 03/12).
- Journal of the Formosan Medical Association ISSN: 0929-6646, Elsevier (one manuscript in 11/11).
- IUBMB Life, Online ISSN: 1521-6551, Wiley Online Library on behalf of International Union of Biochemistry and Molecular Biology (one manuscript in 06/11).
- Arab Journal of gastroenterology, ISSN no.: 1687-1979, Elsevier (since 05/09).
- American Journal of Medical Genetics, Part B: Neuropsychiatric Genetics, Wiley Online Library, ISSN no.: 1552-4841, (one manuscript in 08/07).

Funding organizations/Conferences:

- Reviewer for the National Strategy for Biotechnology and Genetic Engineering, Academy of Scientific Research and Technology, Egypt (since 4/20).
- Reviewer in the German Egyptian Research Long-Term Scholarship to the Federal Republic of Germany (GERLS) program, German Academic Exchange Service (DAAD) Office, (Cairo, Egypt), Calls for the academic years, 2012/2013 [12/2011], 2015/2016 [12/2014], 2016/2017 [01/2016] and 2019/2020 [04/2019].

- Reviewer at the National Research Centre granting program, (Cairo, Egypt), [06-07/2013, 07/16].
- Independent Expert Evaluator of the European Commission FP7-People Actions Program, (Brussels, Belgium), [2008-2012].
- The 5th Annual Meeting of African Society of Human Genetics (AfSHG), National Research Centre, (Cairo, Egypt), [11/2007].
- A Reviewer in the Arab Science and Technology Foundation (ASTF) [2008-2010].

(d) Membership of Journal Editorial Boards:

- Egyptian Journal of Pure and Applied Science, ISSN no.: 1110-0397, Ain Shams University (since 06/2015).
- Journal of Genetic Engineering and Biotechnology, ISSN no.: 1687-157X, Elsevier (since 01/2012).
- Middle East Journal of Medical Genetics, online ISSN no.: 2090-763X, Wolters Kluwer, (since 01/2012).
- Abdel Aal YA, El Deeb MA, Gad YZ, Hussein IM, Miele M, Ripandella D (editors): Proceedings of the 1st Egyptian Italian Symposium on Biotechnology, Assiut, Egypt, (1994).

(e) Invited Presentations at Scientific Meetings/Workshops: (last 5 years)

- Ancient DNA research in Egypt: past and current activities. International Conference on Egypt at the crossroads: People, Products and Pathogens. Organized by the Institute of Ancient History, University of Basel, Serpiano, Switzerland, May 2024.
- Egyptian Genome Project. The 1st Genome Day, Renaissance Cairo Mirage City Hotel, March 2023.
- Precision medicine and the society. The 7th International Conference of Pharmaceutical and Drug Industries of Institute, National Research Centre, March 2023.
- Ancient DNA analysis: history and overview. The Symposium on metagenomic analysis of ancient Egyptian artifacts, The 2nd NMEC Scientific meeting, National Museum of Egyptian Civilization (NMEC), March 2023.
- Ancient DNA analysis of Egyptian biological remains. Arab Academy for Science, Technology and Maritime Transport, College of Computing and

Information Technology, Cairo Branch, February 2023.

- Egyptian Genome Project: an overview. The 7th Cairo International Exhibition for Innovation Fair, February 2023.
- Ancient DNA analysis of Egyptian biological remains. The First International Symposium on Biotechnology applications in Archaeology, MSA University, Cairo, February 2023.
- Ancient DNA analysis of Egyptian biological remains. Conference on exploring the prehistory: archaeobiology and ancient DNA, American University in Cairo Biology Association, American University in Cairo, November 2022.
- Ancient DNA analysis of Egyptian biological remains. International Conference Paleography, Calligraphy and World Archaeology, the Archaeology Research Center of the Italian Cultural Institute in Cairo, November 2022.
- Genotyping Some Members of the Late 18th Dynasty. The Centennial Tutankhamun Conference, Sonesta St George Hotel, Luxor, November 2022.
- Genome research and public engagement. Th 5th Baheya Breast Cancer Conference, Renaissance Mirage City Hotel, Cairo, October 2022.
- The Ancient Egyptian Genome, Expo Dubai 2020, Dubai, January 2022.
- Updates of ancient DNA analysis studies of human remains. Meeting of Archaeometric Studies, French Scientific Institute for oriental archaeology, December 2021.
- Why genomic research is of public interest? Alexandria Genomics Scientific Day, Alexandria University, Alexandria, Egypt, November 2021.
- Germline NF1 mutations in Egyptian patients with Neurofibromatosis Type 1, 3rd "Virtual" Conference of the Arab Association of Genetic Research (AAGR), King Abdullah University of Science and Technology, Smart Health Initiative, Thuwal, Kingdom of Saudi Arabia, November 2020.

(f) University Service:

- King Abdel Aziz University, Kingdom of Saudi Arabia, (11/21), Reviewer of curriculum for Ph.D. degree in Genetic Medicine.
- King Abdel Aziz University, Kingdom of Saudi Arabia, (03/19), Reviewer of curriculum for M.Sc. degree in Biomedical Genomics.
- National Research Centre, Egypt, (12/15-07/20), Academic Promotion Committee for Human Genetics, Head.
- Alexandria University Medical School, Egypt, (12/16), Reviewer of curricula for M.Sc. and M.D./Ph.D. degrees in Medical Genetics.

- King Abdel Aziz University, Kingdom of Saudi Arabia, (01/12), Academic Promotion Committee, Reviewer/Member for a staff promotion to the post of Professor in Molecular and Biochemical Genetics.
- National Research Centre, Egypt, (10/09-11/11), Academic Promotion Committee for Human Genetics, Reviewer/Member.
- National Research Centre, Egypt, (2003-2007), Office for International Relations, office staff Member.

(g) Service to Profession:

- The National Museum of Egyptian Civilization (NMEC), Egypt, establishment and scientific supervision of the lab for ancient DNA studies, (12/17-present).
- The Egyptian Museum, Egypt, establishment and scientific supervision of the first Egyptian lab for ancient DNA studies, (04/07-06/09).

(h) Public Service:

- International media presentation: Ancient DNA reveals what really happened to Ramses III (May 2023), ThermoFisher Scientific HIDS 2023 conference.
- International media appearance: "Einstein" episode on Egyptian mummy studies (June 2022), Swiss TV.
- Science promotion activities through numerous TV interviews and programs in the National TV and articles in public newspapers and magazines.
- Two international media appearances: two Discovery Channel documentaries: Hatshepsut: Secrets of Egypt's Lost Queen (2007) and Tutankhamen Unwrapped (2010).
- A lecture on "gene therapy" in Al-Ahram Scientific Club, Al-Ahram Newspaper, Cairo, Egypt (2003).

7. List of Publications *(in chronological order, starting with the most recent)*

(a) International Refereed Journals and publications:

1. Amer K, Soliman NA, Soror S, Gad YZ, Moustafa A, Elmonem MA, Amer M, Ragheb A, Kotb A, Taha T, Ali W, Sakr M, Ghaffar KA; Scientific Committee Consortium. Egypt Genome: Towards an African new genomic era. J Adv Res. 2024 Jun 4: S2090-1232(24)00227-3. doi: 10.1016/j.jare.2024.06.003. Epub ahead of print. PMID: 38844121.
2. Elmonem MA, Soliman NA, Moustafa A, Gad YZ, Hassan WA, Taha T, El-Feky G, Sakr M, Amer K. The Egypt Genome Project. Nat Genet. 2024 Jun;

- 56(6):1035-1037. doi: 10.1038/s41588-024-01739-1. PMID: 38684896.
3. Abdel-Aziz NN, El-Kamah GY, Khairat RA, Mohamed HR, Gad YZ, El-Ghor AM, Amr KS, Mutational spectrum of NF1 gene in 24 unrelated Egyptian families with neurofibromatosis type 1. *Molecular Genetics and Genomic Medicine*, Wiley Open Library, 2021 Jun 3: e1631. doi: 10.1002/mgg3.1631. Epub ahead of print. PMID: 34080803.
 4. Gad YZ, Hassan NA, Mousa DM, Fouad FA, El-Sayed SG, Abdelazeem MA, Mahdy SM, Othman HY, Ibrahim DW, Khairat R, Ismail S, Insights from ancient DNA analysis of Egyptian human mummies: clues to disease and kinship. *Human Molecular Genetics*, Oxford University Press (UK). 30: R24-R28, 2021.
 5. Gad YZ, Ismail S, Fathalla D, Khairat R, Fares S, Gad AZ, Saad R, Moustafa A, ElShahat E, Abu Mandil NH, Fateen M, Elleithy H, Wasef S, Zink A, Hawass Z, Pusch CM, Maternal and paternal lineages in King Tutankhamun's family. In Kamrin, J., Bárta, M., Ikram, S., Lehner, M., Megahed, M., (eds.) *Guardian of Ancient Egypt: Essays in Honor of Zahi Hawass*, Czech Institute of Egyptology, Faculty of Arts, Charles University, Prague, 1st Edition, vol. 1, pp. 497-518, 2020.
 6. El-Kamah GY, Mohamed AM, Gad YZ, Abdelhak S, Hennig BJ, Ramesar RS, Landouré G, Gaye A, Newport MJ, Williams SM, Ramsay M, Developing a Road Map to Spread Genomic Knowledge in Africa: Meeting Report: 10th Conference of the African Society of Human Genetics, Cairo, Egypt. *American Journal of Tropical Medicine and Hygiene*, American Society of Tropical Medicine and Hygiene (USA), 102: 719-723, 2020.
 7. Sharaf-Eldin WE, Kishk NA, Gad YZ, Hassan H, Ali MAM, Zaki MS, Mohamed MR, Essawi ML, Extracellular miR-145, miR-223 and miR-326 expression signature allow for differential diagnosis of immune-mediated neuroinflammatory diseases. *Journal of the Neurological Sciences*, Elsevier (Netherlands), 383: 188-198, 2017.
 8. Engeli RT, Tsachaki M, Hassan HA, Sager CP, Essawi ML, Gad YZ, Kamel AK, Mazen I, Odermatt A, Biochemical Analysis of Four Missense Mutations in the HSD17B3 Gene Associated With 46,XY Disorders of Sex Development in Egyptian Patients. *Journal of Sexual Medicine*, Elsevier (Netherlands), 14:1165-1174, 2017.

9. Hassan HA, Mazen I, Gad YZ, Ali OSM, Mekkawy M, Essawi ML, Mutational Profile of 10 Afflicted Egyptian Families with 17- β -HSD-3 Deficiency. *Sexual Development, Karger (Switzerland)*, 10:66-73, 2016.
10. Hassan HA, Mazen I, Gad YZ, Ali OSM, Mekkawy M, Essawi ML, A Novel Nonsense Mutation in Exon 1 of HSD17B3 Gene in an Egyptian 46,XY Adult Female Presenting with Primary Amenorrhea. *Sexual Development, Karger (Switzerland)*, 7:277-281, 2013.
11. Khairat R, Ball M, Chang CH, Bianucci R, Nerlich AG, Trautmann M, Ismail S, Shanab GML, Karim AM, Gad YZ, Pusch CM, First insights into the metagenome of Egyptian mummies using next-generation sequencing. *Journal of Applied Genetics, Springer (Germany)*, 54:309-325, 2013.
12. Hawass Z, Ismail S, Selim A, Saleem SN, Fathalla D, Wasef S, Gad AZ, Saad R, Fares S, Amer H, Gostner P, Gad YZ, Pusch CM, Zink AR, Revisiting the harem conspiracy and death of Ramesses III: anthropological, forensic, radiological, and genetic study. *British Medical Journal, BMJ (UK)*, 345:e8268, 2012.
13. Gad YZ, Selim A, Pusch CM, King Tutankhamun's Family and Demise. Reply, *Journal of American Medical Association (JAMA), American Medical Association (USA)*, 303:2473, 2010.
14. Hawass Z, Gad YZ, Ismail S, Khairat R, Fathalla D, Hasan N, Ahmed A, Elleithy H, Ball M, Gaballah F, Wasef S, Fateen M, Amer H, Gostner P, Selim A, Zink A, Pusch CM, Ancestry and Pathology in King Tutankhamun's Family. *Journal of American Medical Association (JAMA), American Medical Association (USA)*, 303:638-647, 2010.
15. Effat LK, Essawi ML, Abdel Hamid MS, Hawari N, Gad YZ, Screening for six Mediterranean mutations in 90 Egyptian patients with phenylketonuria. *Bratislava Medical Journal-Bratislavske Lekarske Listy, AEPRESS, (Slovakia)*, 109:17-19, 2008.
16. Gad YZ, Khairat R, Mazen I, Osman HG, Detection of G34R mutation in 5 alpha reductase 2 gene by allele specific PCR and its linkage to 89L allele among Egyptian cases. *Sexual Development, Karger (Switzerland)*, 1:293-296, 2007.
17. Pals-Rylaarsdam R, Liu G, Brickman W, Duranteau L, Monroe J, El-Awady MK, Gad YZ, Shenker A, A novel double mutation in the luteinizing hormone receptor in a kindred with familial Leydig cell hypoplasia and male pseudohermaphroditism. *Endocrine Research, Taylor and Francis, (USA)*, 31:307-323, 2005.

18. El-Harouni AA, Amr KS, Effat L, Essawi ML, Ismail S, Gad YZ, El-Awady MK, The milder phenotype of the dystrophin gene double deletions. *Acta Neurologica Scandinavica*, John Wiley & Sons Ltd (UK), 107:400-404, 2003.
19. Mazen I, Gad YZ, Hafez M, Sultan C, Lumbroso S, Molecular analysis of 5a-reductase type 2 gene in eight unrelated Egyptian children with suspected 5a-reductase deficiency: Prevalence of the G34R mutation. *Clinical Endocrinology*, Blackwell Publishing Ltd (UK), 58:627-731, 2003.
20. Gad YZ, Mazen I, Lumbroso S, Temtamy SA, Sultan C, A novel point mutation of the androgen receptor (F804L) in an Egyptian newborn with complete androgen insensitivity associated with congenital glaucoma and hypertrophic stenosis. *Clinical Genetics*, Wiley-Blackwell (USA), 63:59-63, 2003.
21. El-Awady MK, Gad YZ, Wen Y, Essawi ML, Effat L, Amr KS, Ismail S, Christ GJ, Schistosoma hematobium soluble egg antigens induce proliferation of urothelial and endothelial cells. *World Journal of Urology*, Springer (Germany), 19:263-266, 2001.
22. 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, DNA copy number changes in schistosoma-associated and non-schistosoma-associated bladder cancer. *American Journal of Pathology*, Elsevier (Netherlands), 156:871-878, 2000.
23. Essawi M, Gad YZ, El-Rouby O, Temtamy SA, Sabour YA, El-Awady MK, Molecular analysis of androgen resistance syndromes in Egyptian patients. *Disease Markers*, IOS Press (Netherlands), 13:99-105, 1997.
24. Gad YZ, Nasr H, Mazen I, Salah N, El-Ridi R, 5a-reductase deficiency in patients with micropenis. *Journal of Inherited Metabolic Disease*, Springer (Germany), 20:95-101, 1997.
25. El-Awady MK, Salam MA, Gad YZ, El-Saban J, Dihydrotestosterone regulates plasma sex hormone-binding globulin in prepubertal males. *Clinical Endocrinology*, Blackwell Publishing Ltd (UK), 30:279-284, 1989.
26. Gad YZ, Berkovitz GD, Migeon CJ, Brown TR, Studies of up-regulation of androgen receptors in genital skin fibroblasts. *Molecular and Cellular Endocrinology*, Elsevier (Netherlands), 57:205-213, 1988.
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