

-C.V.



First: Basic Information

Name : Tarek Khaled Abd Allah El Maghraby	
Date of birth: 12/10/1961	
Occupation: Head of Radiation Biology Department (2018-to 2021).	
Egyptian Atomic Energy Agency	National Center for Radiation Research and Technology
Occupation: Expert and head of life science & environment department(2024-to present)	Arab Atomic Energy Agency
E-mail: tarekmag40@hotmail.com	
Mobile: 01001020809	

Second: Academic Career

A lecturer
Date obtained: 1999
Assistant Professor of Molecular Biology
Date obtained: 2005
Professor of Molecular Biology
Date obtained: 2010

Third: Other Career Experiences:

- 1-Cellular Genetics and Molecular Biology Consultant for High Tech (Al Borg Laboratory Co., from 1997-2007).
- 2-Consultant for Matrix Science and Environmental Consulting from 2007 to 2024).

Fourth: List of Scientific Research Published in International Journals in the last years

1-AAEA-CNSTN workshop summary: "Development of irradiated vaccines", 16-20/09/2024, Republic of Tunisia

September 2024 DOI: 10.5281/zenodo.13847285

2-Hepatoprotective effect of ferulic acid and/or low doses of γ -irradiation

Against cisplatin-induced liver injury in rats.

Marwa A Esmat, Ahmed Osman, Rasha E Hassan, Sanaa A Hagag and Tarek K

El-maghraby Human and Experimental Toxicology Volume 41: 1–13 2022

3-Enhancement of molecular characterization for antitumor activity on HepG2 cell lines by using some nano-polyphenolic compounds with gamma radiation

Sanaa Hagag ,A.E. Kayed and Tarek Elmaghraby Journal of Radiation Research and Applied Sciences 15(4):2022

4- Combretastatin A-4 disodium phosphate and low dose gamma irradiation suppress hepatocellular carcinoma by downregulating ROCK1 and VEGF gene expression.

Zakaria Mohamed Alghzzawy, **Tarek Khaled Elmaghraby**, Sanaa Abd El-Hamid Hagag and Mohammed Hussein Awwad.

Molecular Biology Reports (2020) 47:1883–1893.

5-Assessment of her-2/Neu Gene deployment and expression status as Biomarkers for the response to Treatment of Breast Cancer in Upper Egypt.

Marwa Khairy Esmat, Mostafa A. Abdelwanis, Eman Zaki Mosad, **Tarek K El-Maghraby** and Ahmed Egiza Othman.

J Cancer Res Ther. (2019)15(5): 981-988.

6-Nanogold Assay Improves Accuracy of Conventional TB Diagnostics.

Hesham El-Samadony, Hassan M. E. Azzazy, Mohamed Awad Tageldin,
Mahmoud E. Ashour, Ibrahim M. Deraz and **Tarek Elmaghraby**.

Lung (2019) 197:241–247.

Fifth: Fellowships:

Fellowship of the National Defense College, Nasser Higher Academy, class 39 (2009-2010).

Sixth: Projects:

Project name	Funding Authority	Position	Period	
			from	to
Toshka Project.	Ministry of Irrigation	Participant Researcher	2001	2002
Early detection of radiological hazard.	Atomic Energy Agency	Participant Researcher	2000	2001

Seventh: Scientific Arbitration in International Conferences, Research and Theses in the last three years:

- 1- An arbitrator at the 7th International Conference of the Egyptian Society for Radiological Sciences and Applications, Taba (30/10 to 2/11/2019).
- 2- Reviewer in many local and international scientific journals.
- 3- Supervisor for many M.Sc. and PhD theses in Egyptian and foreign universities in Egypt.

Eighth: Abroad Scientific Missions:

- 1- International Atomic Energy Agency Grant for training of molecular techniques At Stellenbosch University, South Africa, 1999.
- 2- UNESCO grant for training on the use of molecular and radioisotope techniques at Stellenbosch University, South Africa, 2001.

Ninth: Participation in International Conferences and Workshops:

- 1- The 7th International Conference in Radiological Sciences and its Applications, Taba 30/10 to 2/11/2019 (Chairperson).
- 2- The 10th International Scientific Conference of the South Egypt Oncology Institute, Cairo, (24/12 to 26/12, 2018).
- 3- The 14th Arab Conference on the peaceful uses of Atomic Energy, Egypt (16/12 to 20/12/2018).
- 4- The 13th Arab Conference on the peaceful uses of Atomic Energy, Tunisia (18/12 to 22 /12/2016).
- 5- The 8th International Scientific Conference of the South Egypt Oncology Institute, Assiut, (4/10 to 5/10/2016).
- 6- The 3rd International Conference in Radiological Sciences and Applications, Egypt, (12/11 to 16/11/2012).
- 7- The 4th Alexander Hollander Training Course in Genetic toxicology “Training in contemporary Genetic toxicology”, Cairo, (15/12 to 18/12/1997).

Tenth: Participation in Scientific Committees:

- 1- Member of the Publishing Committee of the National Center for Radiation Research and Technology (2014-2020).
- 2- Member of the Technological Affairs Committee of the Radiological Research Division (2018 to present).
- 3- Member of Studies Committee of the Radiological Research Division (2018 to present).
- 4- Member of the National Center for Research and Radiation Technology for ISO Certification in Gamma and Electronic Irradiation (2006).
- 5- Member of the Permanent Scientific Committee for Promotion to Assistant Professor and Professor in Biological and Medical Sciences at the Atomic Energy Agency (2020 to 2024).

Eleventh: Awards

- 1- Best scientific research in biotechnology in the 3rd International Conference of the Egyptian Society for Radiological Sciences and Applications, 2012.

Twelfth: Membership in Scientific Societies:

- 1- Egyptian Societies for Biochemistry and Molecular Biology.
- 2- Egyptian Society for Radiological Sciences and Applications.
- 3- Egyptian Society for Environmental Mutations.
- 4- Egyptian-German Society of Animal Science.
- 5- Arab Biologists Union.

Thirteenth: Other activities at the Egyptian Atomic Energy Authority:

- 1- Construction and processing of the molecular biology laboratory in Radiation Biology Department (1994).
- 2- Contribution in the establishment of the genetic fingerprint laboratory in determining the genetic imprint of organisms, Toshki Project (2001).

Fourteenth: Master and PhD thesis Supervision:

Supervising about 20 Master and PhD theses in Science, Medicine at Oncology Institutes, Egyptian and Arab universities in the field of molecular biology, cancer and biotechnological.

Fifteenth: Training and Teaching at the Atomic Energy Agency and The Middle East Regional Center for Isotopes :

- 1- Teaching in the field of "uses of methods of genetic engineering, molecular technology and radioisotopes at the Middle East Regional Center for Radioisotopes for Arab countries (2004-2011).
- 2- **Regulation, supervision and teaching the following courses:**

- A- Applications of Genetic Engineering, Biotechnology, and Bio-radioactive isotopes in the Biological and Agricultural fields at the Regional Center of Radioisotopes for Arab Countries, July 2012.
- B- Applications of Genetic Engineering, Biotechnology and radioactive isotopes in the biological and agricultural fields" at the Regional Center of Radioisotopes for Arab Countries, March 2013.
- C- Applications of Radioisotopes, Biotechnology and Molecular Biology in the pharmaceutical and medical fields" at the Regional Center for Radioisotopes of Arab Countries, May 2013.
- D- Laboratory techniques and applications of molecular biology and radioisotopes in the medical fields at the Regional Center for Radioisotopes of Arab Countries, September 2014.
- E- Diagnosis of diseases and cancer by radioactive isotopes and molecular biology techniques at Regional Center for Radioisotopes of Arab Countries, October 2015.
- F- Diagnosis of diseases and cancer by radioactive isotopes and molecular biology techniques at Regional Center for Radioisotopes of Arab Countries, October 2016.
- G- Real-time PCR and its Applications in Molecular Biology at the Egyptian Atomic Energy Authority, March 2015.
- H- Real-time PCR device and its Applications in Molecular Biology at the Egyptian Atomic Energy Authority, March 2016.
- I- Real-time PCR device and its Applications in Molecular Biology at the Egyptian Atomic Energy Authority, March 2017.
- J- Real-time PCR device and its Applications in Molecular Biology at the Egyptian Atomic Energy Authority, March 2018.

Sixteenth: Scientific cooperation with Egyptian scientific associations:

- 1- Contribution in organization and lecturing at the Food Safety and Radiological technologies Symposium of the Society Egyptian Food Safety Authority August 2016.

Seventeenth: Teaching and Training in Egyptian Universities:

- 1- Training of Faculty members in the Molecular Biology Unit, Department of Clinical pathology, South Egypt Oncology Institute, Assiut University on techniques of using different molecular devices from 2008-2009.
- 2- Teaching in the course held at the Faculty of Pharmacy, University of Halwan, under the title of polymer chemistry and the use of radiation in pharmaceutical and industrial applications in 2/2016.
- 3- Teaching in the course held at the Faculty of Pharmacy, University of Canada, under the title: Radiation techniques and Polymer Chemistry for Pharmaceutical and Medical Applications in May 2018.
- 4- Assignment for the Department of Clinical Pathology Faculty of Medicine, Southern Valley University to teach and establish a laboratory A specialist in molecular biology and transfer of experience from 2020 to 2022.

Eighteenth: Cooperation with Arab Universities and Authorities:

- Lecturing on nanotechnology applications in a Nano Training Program the Arab Atomic Energy Agency (AAAEA) followed in Cairo 2011.
- Cooperation with Academia Company of the League of Arab States, to fund Ph.D. thesis on the applications of nanotechnology in diagnosing infectious diseases 2014-2017.
- Supervising the Master thesis of Miadeh Khader, Department of Electronic Engineering and Technology University of Al-Jazira-Sudan for Radiological Exposure determination 2017-2019.
- Submitting a research for polymer applications in the treatment of wounds at the 13th Arab Conference on the Peaceful Uses of Atomic Energy, Tunisia (18/12-22/12/2016).

- Attendance the 14th Arab Conference on the Peaceful Uses of Atomic Energy, Egypt, 16/12 to 20/12/2018.
- Organization and supervisions of an online training program on the use of nuclear techniques and molecular biology to achieve food safety and detect fraud, Arab Atomic Energy Authority, 9/8/2021.
- Organization and supervisions of training course on the use of nuclear techniques and molecular biology to detect mutation causing cancer and drug resistances , Arab Atomic Energy Authority, 15-19/5/2022.
- Organization and supervisions of training course on the use of nuclear techniques and molecular biology to detect mutation causing cancer and drug resistances , Arab Atomic Energy Authority, 5-9/3/2023.