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## Curriculum Vitae

### Prof. Dr. Hany El-Gamal

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### Personal

- Born 31 March 1974 in El-Menoufia, Egypt
- Married since 2000, five children (2001/03/05/2011/2016)

### Research

- Since July 2022: Professor of radiation and environmental physics, Department of Technology of Radiology and Medical Imaging, Faculty of Applied Health Sciences Technology, Menoufia University, Egypt.
- 2020-2022: Professor of radiation and environmental physics, Physics Department, Faculty of Science, Assiut University, Egypt.
- 2015-2020: Assistant Professor, Physics Department, Faculty of Science, Assiut University, Egypt.
- 2005-2015: Lecturer, Physics Department, Faculty of Science, Assiut University, Egypt.
- 2002 - 2005: Research and Teaching Assistant, Institute of Environmental Physics, University of Heidelberg (IUP Heidelberg, Germany). Ph.D. thesis about "Environmental tracers in groundwater as tools to study hydrological questions in arid regions", supervised by Prof. Dr. Werner Aeschbach-Hertig (IUP Heidelberg, Germany)

## **Education**

- 2000-2002: (M.Sc.) in environmental physics, IUP Bremen, Germany. M.Sc. thesis about "Application of T-3He method in groundwater study".
- 1992-1996: (B.Sc) in physics, Faculty of science, El Menoufia University, Egypt.

## **Research areas**

- Radiation and environmental physics, aquatic systems, groundwater, tracers, and isotope methods.

## **Scientific and applied activities**

- More than 30 research papers have been published in scientific journals and specialized international conferences.
- **A reviewer for the following journals:**
  - Environmental pollution **(IF:5.714)**
  - Environmental science and pollution research **(IF:2.914)**
  - International journal of environmental analytical chemistry **(IF:1.267)**
  - International Research Journal of Public and Environmental Health
  - Physical Science International Journal
  - British Journal of Medicine and Medical Research
  - Egyptian Journal of Basic and Applied Sciences
- Contributing to the construction of the nuclear and radiation physics lab in the physics department, as well as choosing the necessary equipment and equipment for the laboratory.
- Member of the Supervisory Committee of the nuclear and radiation physics lab by the decision of the head of Assiut University issued on 24/4/2013.
- Preparation and teaching different courses for the undergraduate students e.g. Radiation physics, Nuclear physics, Biophysics, General physics. Modern physics, Environmental physics, Alternating current, Electronic and logic circuits and Meteorology courses.(These courses were taught to the students in different faculties e.g. faculty of science, faculty of education, faculty of agriculture and faculty of veterinary)
- Preparation and teaching different courses for the postgraduate students e.g. Nuclear and Radiation physics courses.
- Supervisor for 6 master and 4 Ph.D. students.
- Referee for three Master and two Ph.D. dissertations.
- Positive participation in seminars held in the department.

- An assistant coordinator for the physics and electronics program submitted by the college to obtain accreditation.
- Coordinator for the physics and chemistry program since October 2019.

## **Publications**

1. Salaheldin, G., Elhaddad, M. & **El-Gamal, H.** 2021, Estimation of the natural radioactivity levels and rare earth elements concentration in the granitic rocks, Gabal Ghareb, Eastern Desert Egypt. *Environ Earth Sci*, 80:655. <https://doi.org/10.1007/s12665-021-09958-z>
2. Badr, G., Abd El-Reda, G., **El-Gamal, H.**, Farid, M.E. 2019. Exposure to radioactive rocks from the Egyptian eastern desert attenuates the efficiency of the immune organs and induces apoptosis of blood lymphocytes in rat model. *Environmental science and pollution research*, <https://doi.org/10.1007/s11356-019-07572-y>.
3. **El-Gamal, H.**, Negm, H., Hasabelnaby, M. 2019. Detection Efficiency of NaI(Tl) Detector Based on the Fabricated Calibration of HPGe Detector. *Journal of Radiation Research and Applied Sciences*, 12(1):360-366, DOI: 10.1080/16878507.2019.1672313
4. **El-Gamal, H.**, Negm, H., Hasabelnaby, M. 2019. Monitoring environmental impact of oil ashes released from Assiut thermal power plant, Egypt. *Sylwan*, 163 (9).
5. **El-Gamal, H.**, Hussien, M.T., Saleh, E.E. 2019. Evaluation of natural radioactivity levels in soil and various foodstuffs from Delta Abyan, Yemen. *Journal of Radiation Research and Applied Sciences*, 12(1):226-233, DOI: 10.1080/16878507.2019.1646523
6. **El-Gamal, H.**, El-Haddad, M. 2019. Estimation of Natural Radionuclides and Rare Earth Elements Concentration of the Rocks of Abu Khuruq Ring Complex, Egypt. *Symmetry*, 11: 1041.
7. **El-Gamal, H.**, Sidique, E., El-Haddad, M. 2019. Spatial Distributions and Risk Assessment of the Natural Radionuclides in the Granitic Rocks from the Eastern Desert, Egypt. *Minerals*, 9: 386.
8. Waly, H., Khaled, E., **El-Gamal, H.**, Hassanein, K. M.A. 2019. Ameliorating effects of thymoquinone and N-acetylcysteine against uranium induced hepatotoxicity in rats. (Accepted in Assiut Univ. J. of zoology)
9. Abd El Reda, G., **El-Gamal, H.**, Badr, G., Farid, M.E. 2019. Estimation of natural radionuclides of the rocks of Abu Khuruq Ring Complex, Egypt. *Journal of Physics. Faculty of science, Assiut university* (acceptance date: 10/9/2019)
10. **El-Gamal, H.**, Sefelnasr, A., Salaheldin, G. 2019. Determination of Natural Radionuclides for Water Resources on the West Bank of the Nile River, Assiut Governorate, Egypt. *Water*, 11: 311. doi: 10.3390/w11020311.
11. **El-Gamal, H.**, Sidique, E., El-Haddad, M., El-Azab Farid, M. 2018. Assessment of the natural radioactivity and radiological hazards in granites of Mueilha area (South Eastern Desert, Egypt). *Environ Earth Sci.*, 77: 691. <https://doi.org/10.1007/s12665-018-7880-x>
12. **El-Gamal, H.**, Sidique, E., El-Azab Farid, M. 2018. Considerable radioactivity levels in the granitic rocks of the central areas of the Eastern Desert, Egypt. *Environ Sci Pollut Res.*, 25(29): 29541. <https://doi.org/10.1007/s11356-018-2998-7>

13. Salaheldin, G., **El-Gaml, H.**, Sefelnaser, A., Omar, M., Abdel Mageed, A.I. 2017. Investigating the Radioactivity of the groundwater within the Quaternary aquifer and its Environmental Impact: Dairut, Assiut, Egypt. *Assiut Univ. J. of Physics*, 46(1):11-22.
14. Abd El Reda, G., **El-Gamal, H.**, Badr, G., Farid, M.E. 2017. The effects of gamma radiation on the pro-inflammatory signals, oxidative stress and histopathological alterations in some immune organs in a rat model. 13th scientific conference of the zoological society (14-15 October 2017), Beni Suef, Egypt.
15. Salaheldin, G., **El-Gaml, H.**, Sefelnaser, A., Omar, M., Abdel Mageed, A.I. 2017. Cancer Risk Assessment and Radioactivity Levels in Drinking Water Samples from Sidfa and El-Ghanayim, Assiut, Upper Egypt." *IOSR Journal of Applied Physics (IOSR-JAP)*, 9(6): 54-60.
16. Gena, M.A.H , El-Attar, A.L., Zahran, E.M., **El-Gamal, H.**, , Omran, M. A. 2016. Development of the Use of Amorphous Silicon (ASi) Electronic Portal Imaging Devices as a Physics Tool for Routine Linear Accelerator QA. *International Journal of Science and Research (IJSR)*, 5(9):703-708.
17. Saleh, E.E., El-Mageed, A.I.A., **El-Gamal, H.**, Hussien, M.T. 2015. Assessment of radiation hazards a result of natural radioactivity in water from Abyan delta, Yemen. *J Radioanal Nucl Chem.*, 304: 1235. <https://doi.org/10.1007/s10967-015-3932-9>
18. Saleh, E.E., El-Mageed, A.I., **El-Gamal, H.**, Hussien, M.T. 2015. Enhancement of natural radioactivity in farm surface soils from Abyan Delta in Yemen. *Int. J. Low Radiation*, 10(1):34–47.
19. **El-Gamal, H.**, Mageed, A.I.A. 2014. Natural radioactivity in water samples from Assiut city, Egypt. *Int. J. Pure Appl. Sci. Technol.*, 22(1): 44-52.
20. **El-Gamal, H.**, Farid, M.E.A. 2014. Trace elements and radioactivity levels in water near Assiut thermal power plant, Egypt. *Int.J.Sciences*, 3(9):12-15.
21. Sueltenfuss, J., **El-Gamal, H.** 2014. Infiltration of Lake Water into the Groundwater System Investigated by Tritium/Helium-3 Method: An Example from Wannsee and Lieper Bucht Area, Berlin, Germany. *Int.J.Sciences*, 3(9):16-25.
22. **El-Gamal, H.**, Farid, M.E.A., Mageed, A.I.A., Bady, M., Hasabelnaby, M., Hassanien, H.M. 2013. Monstrous hazards produced by high radioactivity levels around assiut thermal power plant. *Am. J. Environ. Sci.*, 9: 388-397.
23. **El-Gamal, H.**, Farid, M.E.A., Mageed, A.I.A., Hasabelnaby, M., Hassanien, H.M. 2013. Considerable hazards produced by heavy fuel oil in operating thermal power plant in Assiut, Egypt. *Environ. Sci. Pollut. Res.*, 20: 6331-6336. DOI: 10.1007/s11356-013-1670-5
24. **El-Gamal, H.**, Farid, M.E.A., Mageed, A.I.A., Hasabelnaby, M., Hassanien, H.M. 2013. Assessment of natural radioactivity levels in soil samples from some areas in Assiut, Egypt. *Environ. Sci. Pollut. Res.* DOI 10.1007/s11356-013-1844-1
25. **El-Gamal, H.** 2013. Tritium/Helium-3 Dating of River Infiltration: An Example from the Oderbruch Area, Berlin, Germany. *Journal of Water Resource and Protection*, 5(1): 46-53. doi: 10.4236/jwarp.2013.51006.
26. **El-Gamal, H.**, Abdel Hamid, M., Abdel Mageed, A.I., El-Attar, A. L. 2012. 226Ra, 232Th and 40K analysis in water samples from Assiut, Egypt. XI Radiation Physics & Protection Conference, 25-28 November 2012, Nasr City - Cairo, Egypt.

27. Aeschbach-Hertig, W., **El-Gamal, H.**, Wieser, M., Palcsu, L. 2008. Modeling excess air and degassing in groundwater by equilibrium partitioning with a gas phase. *Water Resour. Res.* 44, W08449, doi:10.1029/2007WR006454.
28. Aeschbach-Hertig, W., **El-Gamal, H.**, Dahab, K., Friedrich, R., Kipfer, R., Hajdas, I. 2007. Identifying and dating the origin of groundwater resources in reclamation areas of Egypt. In: *Advances in Isotope Hydrology and its Role in Sustainable Water Resources Management (HIS-2007)*, Proceedings of a Symposium, Vienna, 21-25 May 2007. IAEA, Vienna, STI/PUB/1310, Vol. 2: 395-403.
29. Luedeling, E., **El-Gamal, H.**, Aeschbach-Hertig, W., Kipfer, R., Nagieb, M., Buerkert, A. 2007. Hydrological sustainability of mountain oases in northern Oman. Acknowledgments 6 Summary 7 Deutsche Zusammenfassung 11 Chapter 1: Introduction 17 Chapter 2: Filling the voids in the SRTM elevation model—A TIN-based delta. Pages:67.
30. Aeschbach-Hertig, W., **El-Gamal, H.**, Dahab, K., Kipfer, R., Bonani, G. 2006. Environmental tracer study of groundwater recharge near the Nile Delta, Egypt. DPG-Fruehjahrstagung Heidelberg, E-Verhandl. DPG,UP1.6 DPG-Fruehjahrstagung Heidelberg.
31. Aeschbach-Hertig, W., **El-Gamal, H.**, Dahab, K., Kipfer, R., Hajdas, I. , Bonani, G. 2006. Using environmental tracers to assess groundwater resources in reclamation areas of Egypt. EGU General Assembly, Vienna. Geophys. Res. Abstr., 8, EGU06-A-05515. EGU General Assembly 2006, Vienna.
32. **El-Gamal, H.**, Dahab, K., Aeschbach-Hertig, W. 2004. A multi-tracer study of groundwater in reclamation areas south-west of the Nile Delta, Egypt. International workshop on the application of isotope Techniques in Hydrological and Environmental studies. UNESCO, Paris, France. p.99 . International Workshop on the Application of Isotope Techniques in Hydrological and Environmental Studies