



Gehan L Abuelenain

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Biography

Gehan L. Abuelenain is a highly accomplished scientist with significant expertise in research and education. Her extensive knowledge and expertise in Medical Parasitology and Immunology includes, but not limited to, microscopic examination of biological and histopathological samples, detection of the host antibodies/parasitic Antigen in microfluids and tissue, developing some parasitic life cycles for experimental trials, staining of parasites detected in the body fluids/tissues, and interpreting the histopathological changes associated with the parasitic diseases. One of Gahan's key areas of expertise in research is investigating the possible herbal medicinal drugs for infectious zoonotic diseases. In academia, she is an expert in teaching cellular and molecular biology, drafting, reviewing, and authorizing curricula to ensure they meet the standards set by the Commission for Academic Accreditation at the educational institutions.

Education:

Ph.D.: Immunology and Parasitology, Joint University of San Francisco/Cairo University

M.Sc.: Invertebrate and Protozoa (Medical Parasitology), Menoufia University, Egypt

Postgraduate Degree: Biological Sciences; Menoufia University, Egypt

B.Sc. *Zoology*; Biology; Faculty of Science, Menoufia University, Egypt

Professional Development

Seminar and training on Schistosomiasis Control for Developing Countries in Wuxi, China at Jiangsu Institute for Parasitic Diseases 2024 (17th -30th of Oct.)

SCIE X Summit 2024. 3-day Omics webinars and technical content (24 - 26th of Sept)

Cell Biology Virtual Event Series Labroots 2024 (Sept.18th)

Online Course: Communication and Interpersonal Skills at Work, University of Leeds, enrolled.

Online Course: Professional Resilience. Deakin University, Two Weeks, 5hrs/wk

Online Course: Genomic Technologies in Clinical Diagnostics: Next Generation Sequencing. St George's, University of London, Two weeks, 5hrs/wk

Continued Professional Development (CPD; 10 Credits) Gulf HIV Expert Summit 2021(1st -2nd of October)

European Continuing Medicine Education (ECME), ESCMID Postgraduate Technical Workshop, Application of Molecular Diagnostics in Forensic Microbiology, 2016, Leuven, Belgium (2nd - 3rd of June) 12 ECME credits.

Summer School for Leadership and Management Program 2015, at Al-Maktoum's College, Dundee, Scotland.

ECME, ESCMID Postgraduate Course on "The Infectious Diseases in the Mediterranean Sea and the Middle East: Current Challenges 2014 (21st-24th of Sept.) Izmir, Turkey.

ECME, ESCMID Postgraduate Course on "The principle of Molecular Microbiology Diagnosis". 2014 (5th-7th of March) Maastricht, Netherlands. 15 ECME Credits.

Work History:

Research Professor, Theodor Bilharz Research Institute, Egypt (2022 -till present)

Associate Professor, Theodor Bilharz Research Institute, Egypt (2016 –2022)

Researcher, Theodor Bilharz Research Institute, Egypt (1996- 2016)

Research Assistant, Theodor Bilharz Research Institute, Egypt (1991-1994)

Grants/Awards:

2022 Best Abstract Award on ‘The Fourth Emirates Cardiac Society Heart Failure Conference, EHFC2022’ for presenting “Expression profiling of epigenetics and chromatin re-modeling factors in human heart failure: A quest towards precision medicine” on 27th of January

2021 First Prize and best abstract on ‘The 41st Congress of the Société Internationale d’Urologie’ for presenting “Epigenetic-based detection of urological cancer: A road towards precision medicine”, November 10th -14th

2018 College Distinguished Teaching Award, Abu Dhabi University

2017 Research Award, Abu Dhabi University

2017 Research Grant, PI, Research Centre of Excellence on Sustainable Built Environment, ADU

2016 One-year Incentive Research Fund, PI, entitled: "e-Diagnosis of Gastrointestinal parasites by iPhone/iPad Microscopy". International Conference on Parasitology, Pennsylvania, USA

2014 Research Award, Abu Dhabi University

2013 The First Place Winner of the "4th Chancellor Innovation Award" entitled: "ID Card Attendance Scanner for ADU Classrooms."

96-01 Ph.D. Ph.D. Fellowship, Department of Zoology, Cairo University, Egypt

95-98 A WHO-Young Scientist Award 12-13-01; Sponsored by the joint U.S. and Ministry of Health in Egypt

92-94 MSc Fellowship, Department of Zoology, Menoufia University, Egypt

Selected Conferences:

2024 Infectious Diseases World Conference (IDWC2024) San Francisco, USA, Virtual Oral Presentation

2023 Ain Shams University Congress 2023, Medical Parasitology Department, Annual Conference, Speaker

2023 Theodor Bilharz Research Institute, Annual Conference, January 2023

2022 Theodor Bilharz Research Institute, Annual Conference 2022, 1st-3rd Dec 2022

2021 Virtual Saudi Conference on Emerging Infectious Diseases, Nov. 16th -17th, 2021

- 2021** Virtual Japan Health Update Conference, March 4-6, 2021, 16 CME credits accredited by European Accreditation Council for Continuing Medical Education
- 2020** Virtual TBRI Conference, 11 webinars, 10th -12th Dec 2020
- 2017** Two-day meeting with the German Society of Parasitology in Hamburg, Germany, 2017, the 18th Drug Design & Development Seminar (DDDS) of the German Society for Parasitology (DGP). Oral Presentation
- 2015** The 1st GCC General Education Conference, Abu Dhabi University, UAE, 28th-29th March 2015
The topic entitled: "Peer Review: A fundamental approach to best practices." Oral Presentation

Membership in Science Organization and Society:

American Society of parasitology, USA
American Society of Microbiology, USA
Journal of United Parasitologists (JUP)
European Society of Clinical Microbiology and Infectious Diseases (ESCMID), Switzerland

Selected Publications:

I have more than 30 peer-reviewed publications over my research and academic positions. Here are some recent selected studies:

Gehan Labib Abuelenain, Azza Fahmy, Salma Awad Mahmoud (2024). From Biosensors Towards Artificial Intelligence: A New Era in Toxoplasmosis Diagnostics and Therapeutics. In process

Salma Awad Merghani, Isabelle Bonne, Aik Yong Sim, Gehan Labib Abuelenain (2024). Runx3 Acts as Homodimeric Chromatin Binding Factor Regulating Heterochromatin-Mediated Cancerous Phenotype. BioRxiv, Preprint. doi: <https://doi.org/10.1101/2024.08.16.608297>

BH. Almurshidi, ZH. Fahmy, ..., [GL. Abuelenain](#) (2023). A multimodality therapeutic application on *Toxoplasma gondii* encephalitis utilizing Spiramycin and de Novo *Ferula asafetida* in immunodeficient mice. *Parasite Immunology*, 2023 Oct 9:e13014. doi: 10.1111/pim.13014. Epub ahead of print. PMID: 37807942.

Nadia Boutaba, [Gehan Abuelenain](#) (2023). A Preliminary Volterra Loteka Model Analysing Cancer, Intracellular Parasite, and Immune cells Interaction. *Applied Mathematics & Information Sciences*, Natural Sciences Publishing, 17 (2): 227-232.

[Gehan L. Abuelenain](#), Zeinab H. Fahmy, Amal M. Elshennawy, et al. (2022). Phenotypic changes of *Trichinella spiralis* treated by *Commiphora molmol*, *Lepidium sativum*, and Albendazole: *in vitro* Study. *Helminthologia*, 59 (1):37-45. Doi: 10.2478/helm-2022-0005

Mossalem HS, [Abuelenain GL](#), Mohamed AS, Mohamed TS, Zayed KM, Mahmoud SS (2021). Assessment of *Ocimum basilicum* Extracts on *Schistosoma mansoni*-Infected *Biomphalaria alexandrina* Snails and Mice. *Egyptian Journal of Aquatic Biology & Fisheries*. 25(5):253–270.

Azza Fahmy, [Gehan Labib Abuelenain](#), Nesma Rasheed, et al. (2021). ‘de Novo’ repurposing of Daflon as anti-intestinal parasitic drug in experimental giardiasis. *Experimental Parasitology*, Volumes 226–227, 108124. <https://doi.org/10.1016/j.exppara.2021.108124>

[Gehan L. Abuelenain](#), Zeinab H. Fahmy, Amal M. Elshennawy, et al. (2021). The Potency of *Lepidium sativum* and *Commiphora molmol* Extracts on *Trichinella spiralis* Stages and Host Interaction. *Adv. Anim. Vet. Sci.* 7(s1): ISSN (Online) 2307-8316; ISSN (Print) 2309-3331. DOI | <http://dx.doi.org/10.17582/journal.aavs/2019/7.s1>

Azza Fahmy, [Gehan Abuelenain](#), Amr Abdou et al. (2021). Efficacy of a Probiotic *Lactobacillus reuteri* on cryptosporidiosis in immunocompetent and immunocompromised models. *Adv. Anim. Vet. Sci.* 9(6): 802-810. ISSN (Online) | 2307-8316; ISSN (Print) | 2309-3331. Doi: <http://dx.doi.org/10.17582/journal.aavs/2021/9.6.802.810>;

[Gehan Abuelenain](#), Muhammad Farooq, Makhtar Sarr (2021). The Impact of Co-Curricular Activity Assessment on Male University Students' Course Performance: A Case Study of The Natural Sciences Course. *IJHE* 10 (4): 187-195. doi:10.5430/ijhe.v10n4p187

I.R. Aly, R.S. Hamad, E.H. Ibrahim, [G.L. Abu Elenain](#), et al. (2020). Graphene nanoparticles-based ELISA as a crucial new diagnostic tool for diagnosis of human filariasis (Abstract 1017). *Parasitology and parasitic infections/International Journal of Infectious Diseases* 101(S1) (2021) 419–436. <https://doi.org/10.1016/j.ijid.2020.09.1101>

Aly I, Taher E.E., [El Nain G](#), El Sayed H, et al. (2018). Advantages of bio-conjugated silica-coated nanoparticles as an innovative diagnosis for human toxoplasmosis. *Acta Tropica*, 177:19-24.