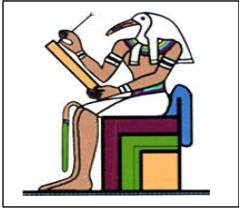


CURRICULUM VITAE

Nermeen Moustafa Mohamed Moustafa Abu-Elala



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Cairo University, Egypt
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King Salman International University (KSIU)
South Sinai, Egypt
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PERSONAL INFORMATION

Name: Nermeen Moustafa Mohamed Moustafa Abu-Elala
Nationality: Egyptian
Birth date: July 22, 1982
Marital status: Married

ONLINE RECORDS

Scopus Author URL: <https://www.scopus.com/authid/detail.uri?authorId=56073088900>
Google Scholar URL: <https://scholar.google.com/eg/citations?user=GUFow4AAAAJ&hl=en>
ORCID ID: 0000-0002-4785-245X

EDUCATION

| | |
|---|---------------|
| Ph.D., Faculty of Veterinary Medicine, Cairo University, Egypt | NOVEMBER 2011 |
| B. Veterinary Medicine, Faculty of Veterinary Medicine, Cairo University, Egypt | May 2004 |
| Diploma in Biochemistry & Molecular Biology, Faculty of Vet. Med., Cairo University | 2023 |

PROFESSIONAL EXPERIENCE

Professor 2021-present
Department of Animal Medicine, Field of Veterinary Medicine, King Salman International University (KSIU), South Sinai, Egypt.
Teaching courses: 1) Aquatic Physiology, 2) Marine Aquaculture, 3) Aquatic Animal Medicine, 4) Biochemistry & metabolism, 5) New Trends in Vaccines Production and Facilities, 6) Aquatic larval feeding (design the course portfolio, course specification, intended learning outcomes (ILOS), Exam matrix and blueprint).

Professor 2021- present

Department of Animal Production, Field of Desert Agriculture, KSIU, South Saini, Egypt.

Teaching courses: 1) **Integrated Agri-Aquaculture System (IAAS)**, 2) **Aquatic physiology**, 3) **Marine aquaculture**, 4) **General microbiology**, 5) **Aquatic larval feeding** (Design the course portfolio, course blueprint, course specification, intended learning outcomes (ILOS), Exam matrix).

Associate Professor 2016-2021

Department of Aquatic Animal Medicine & Management, Faculty of Veterinary Medicine, Cairo University, Egypt.

Assistant Professor 2011-2016

Department of Aquatic Animal Medicine & Management, Faculty of Veterinary Medicine, Cairo University, Egypt.

Teaching assistant 2007-2011

Department of Aquatic Animal Medicine & Management, Faculty of Veterinary Medicine, Cairo University, Egypt.

Demonstrator 2005-2007

Department of Aquatic Animal Medicine & Management, Faculty of Veterinary Medicine, Cairo University, Egypt.

ADDITIONAL EXPERIENCE & PROFESSIONAL MEMBERSHIPS

Students Training Coordinator 2022 –Present

Faculty of Veterinary Medicine, King Salman International University

As Students Training Coordinator, I have successfully organized and coordinated a range of practical training programs to enhance students' field competencies and industry insights. These programs, held in partnership with esteemed institutions such as the Egyptian Veterinary Military Hospital, the Middle East for Vaccine, EVA Pharma, the Desert Agriculture Research Center, and the Animal Health Institute, have provided hands-on experience in veterinary practice, research, and animal health. These partnerships enable students to develop critical skills and gain exposure to real-world challenges, preparing them for impactful careers in veterinary medicine.

Executive Manager of 2017-2021

Students' skills development unit, Faculty of Veterinary Medicine, Cairo University, Egypt.

Doctor in charge for 2018-2021

The Leadership & Governance Criteria compliance, Quality Assurance Unit, Faculty of Veterinary Medicine, Cairo University.

Research & Development Manager of 2019-present.

Bacterial vaccines, Middle East for vaccine (MEVAC, Egypt)

Research & Development Manager of 2017-present.

Aqua vaccines, Middle East for vaccine (MEVAC, Egypt)

Scientific consultant of 2016-2021

ICC, Brazil, Feed additives for the Aquaculture sector

Participated as a reviewer in numerous peer-reviewed journals.

Fish & Shellfish Immunology, Journal of Advanced Research, Aquaculture reports, Aquaculture International, Applied ichthyology, chemosphere, Aquaculture Research, International Journal of Veterinary Science & medicine, Turkish Journal of Fisheries and Aquatic Sciences.

Participated as a reviewer in Cairo University & Egyptian Science & Technology Development Fund (STDF) research projects.

Member of the Institutional Animal Care and Use Committee (IACUC), Cairo University, 2018-2020

Fellow of

Academic research and development, Council of Animal Research and Fish Wealth 2015-2018

Fellow of

Academic research & development, National Committee of Marine & Fisheries Sciences. 2018-2023.

Fellow of

European Association of Fish Pathologists.

2019-present

Member of the Technical Committee for Developing Education Regulations & Programs of the National Projects Committee for the Establishment of Universities & Educational & Research Institutions “Ministry of Higher Education.” **2018-2020.** Participating in writing of the faculty of Veterinary Medicine bylaws, KSIU, South Sinai.

Member of The Egyptian Society for Bacteriology and Immunology, Faculty of Veterinary Medicine, Cairo University, Egypt.

Member of the Egyptian Society for the development of fisheries Resources and human health (NARSS), Faculty of Ain-shams University, Egypt.

Member of the Egyptian Society for Animal Management (ESAM), Faculty of Veterinary Medicine, Cairo University, Egypt.

HONORS & AWARDS

- ❖ **The State Incentive Award in the field of Agriculture Science 2020.**
- ❖ **Cairo University incentive award in the field of Agriculture Science 2018.**
- ❖ **Annual Cairo University awards for international publications** 2013-present

INTERNATIONAL COLLABORATIONS:

Bilateral Seminar on Fish Disease Prevention: Insights from China and Egypt, December 5th, 2024

Academic visit 2024: An invitation from the Ministry of Agriculture & Animal Resources, Burkina Faso, to deliver three lectures on Fish diseases in tropical countries, how to collect the correct samples, and

biosecurity measures in fish farms, focusing more on vaccine application.

<https://www.facebook.com/share/1BBQNGBf7o/>

Academic visit 2023: Huazhong Agriculture University, College of Fisheries, invitation to deliver two seminars.

- Vaccinology in the field of aquaculture production <https://cf.hzau.edu.cn/info/1041/12481.htm>.
- Functional feed additives in aquaculture nutrition <https://cf.hzau.edu.cn/info/1041/12491.htm>

Scientific collaborations with the ICC company, Brazil, 2018.

ICC held a technical seminar for aquaculture feed producers in Taiwan in 2018.

<https://www.efeedlink.com/contents/05-15-2018/281a0e3e-2e17-4d02-a19f-9644bc3c0cc0-0016.html>

An Invitation from ICTYODEV company, Research and Development department, France 2018

RESEARCH PROJECTS & FUNDING RECEIVED

National catastrophe due to marine fish mortality: possible causes and proposed control strategies 2021-2023, funded by Cairo University.

Efficacy of yeast cell wall extracts on the production and health of broodstock in the hatchery (Funded by ICC, Brazil 2019-2021) (PI)

Roadmap “Development of Marine aquaculture and Egyptian lakes” (Funded by Academy of Scientific Research & Technology) 2016-2017.

Roadmap “Developing poultry production sector in rural area in Egypt” (Funded by Academy of Scientific Research & Technology) 2016-2017.

Efficacy of yeast cell wall extracts produced by ICC Brazil on fish growth, immunity, and resistance against diseases (funded by ICC, Brazil) (2017-2018).

Development and Production of Nano-adjuvanted Fish Vaccines funded by ME-VAC Company.

- 1) Prepare a nano-particulate-based vaccine against Streptococcosis in fish (2016- 2018).
- 2) Prepare a nano-particulate-based vaccine against Vibriosis in marine fish (2018- 2021).

Antimicrobial peptide gene expression in Fish 2008-2010 (funded by STDF) National Research Center project (Department of Genetic and Molecular Genetics).

PEER-REVIEWED PUBLICATIONS

Xiong, C., Liu, K., Wu, Y., Ai, Y., Yu, Y., Mabrok, M., ... & Wu, R. (2025). Decreased pathogenicity of the triple-mutant of *Aeromonas hydrophila* flgK, flgL, flgE suggests its potential as a live attenuated vaccine for *Carassius auratus*. *Fish & Shellfish Immunology*, 165, 110486.

- Gamil, M. R., **Abu-Elala, N. M.**, & Abo-Al-Ela, H. G. (2025). Toxicity of 6PPD-quinone in European seabass (*Dicentrarchus labrax*) under baseline and *Vibrio alginolyticus* challenge conditions: Protective insights from astaxanthin mitigation. *Science of The Total Environment*, 987, 179821.
- Teiba, I. I., Mazrou, Y. S., Makhoulouf, A. H., Elsheery, N. I., Hekal, S. H. A., **Abu-Elala, N. M.**, ... & Shehata, A. I. (2025). Effects of Liposomal Vitamin C, Coenzyme Q10, and Bee Venom Supplementation on Bacterial Communities and Performance in Nile Tilapia (*Oreochromis niloticus*). *Biology*, 14(3), 309.
- El Basuini, M. F., Hussein, A. T., El-Hais, A. M., Elhetawy, A. I., Soliman, A. A., Gabr, S. A., ... & Shehata, A. I. (2025). Corrigendum to "Impacts of dietary Ajwain (*Trachyspermum ammi* L.) on growth, antioxidative capacity, immune responses, and intestinal histology of grey mullet (*Liza ramada*)"[Aquaculture, Volume 595, Part 2, 30 January 2025, 741706]. *Aquaculture*, 599, 742215.
- El Basuini, M. F., Hussein, A. T., El-Hais, A. M., Elhetawy, A. I., Soliman, A. A., Gabr, S. A., ... & Shehata, A. I. (2025). Impacts of dietary Ajwain (*Trachyspermum ammi* L.) on growth, antioxidative capacity, immune responses, and intestinal histology of grey mullet (*Liza ramada*). *Aquaculture*, 595, 741706.
- Teiba, I. I., El-Bilawy, E. H., Abouelsaad, I. A., Shehata, A. I., Alhoshy, M., Habib, Y. J., ... & Hussain, W. A. (2024). The role of marine bacteria in modulating the environmental impact of heavy metals, microplastics, and pesticides: a comprehensive review. *Environmental Science and Pollution Research*, 1-34.
- Hopo, M. G., Mabrok, M., **Abu-Elala, N.**, & Yu, Y. (2024). Navigating Fish Immunity: Focus on Mucosal Immunity and the Evolving Landscape of Mucosal Vaccines. *Biology*, 13(12), 980.
- Liu, L. L., Song, C. C., **Abu-Elala, N.**, Tan, X. Y., Zhao, T., Zheng, H., ... & Luo, Z. (2024). Transcriptional regulation of Znt family members znt4, znt5 and znt10 and their function in zinc transport in yellow catfish (*Pelteobagrus fulvidraco*). *Biochimica et Biophysica Acta (BBA)-Gene Regulatory Mechanisms*, 195041.
- Xu, X. W., Yang, H., Wei, X. L., **Abu-Elala, N.**, & Luo, Z. (2024). Influences of dietary Cu levels on growth performance, muscle development, antioxidant capacity, and inflammatory response of juvenile yellow catfish (*Pelteobagrus fulvidraco*). *Aquaculture Reports*, 36, 102080.
- Hossam-Elden, N., **Abu-Elala, N. M.**, AbuBakr, H. O., Luo, Z., Aljuaydi, S. H., Khattab, M., ... & Teiba, I. I. (2024). Dietary Chitosan Nanoparticles Enhance Growth, Antioxidant Defenses, Immunity, and *Aeromonas veronii* biovar *sobria* Resistance in Nile tilapia *Oreochromis niloticus*. *Fishes*, 9(10), 388.
- El Basuini, M. F., Shaban, M. M., El-Hais, A. M., Soliman, A. A., **Abu-Elala, N. M.**, Teiba, I. I., ... & Shehata, A. I. (2024). Exploring the Dual Benefits of Fermented and Non-fermented Garlic on Growth, Antioxidative Capacity, Immune Responses, and Histology in Grey Mullet (*Liza ramada*).
- Hossam-Elden, N., **Abu-Elala, N.**, Ali, S. E., Khattab, M. S., & Marzouk, M. S. (2024). Dietary Immune Nutritive Effect of Chitosan/Chitosan Nanoparticles on the Nile Tilapia: Short-term Exposure. *Egyptian Journal of Aquatic Biology & Fisheries*, 28(1).
- Abu-Elala, N. M.**, Khattab, M. S., AbuBakr, H. O., Helmy, S., Hesham, A., Younis, N. A., ... & El Basuini, M. F. (2023). Neem leaf powder (*Azadirachta indica*) mitigates oxidative stress and pathological alterations triggered by lead toxicity in Nile tilapia (*Oreochromis niloticus*). *Scientific Reports*, 13(1), 9170.
- Algammal, A. M., Ibrahim, R. A., Alfifi, K. J., Ghabban, H., Alghamdi, S., Kabrah, A., ... & El-Tarabili, R. M. (2022). A first report of molecular typing, virulence traits, and phenotypic and genotypic resistance patterns of newly emerging XDR and MDR *Aeromonas veronii* in Mugil seheli. *Pathogens*, 11(11), 1262.

Abbas, H. H., Soliman, W. S., Elgendy, M. Y., Youins, N. A., **Abu-Elala, N. M.**, & Marzouk, M. S. (2022). Insight on the potential microbial causes of summer mortality syndrome in the cultured Nile tilapia (*Oreochromis niloticus*). *Egyptian Journal of Aquatic Biology & Fisheries*, 26(2).

Basuony, M. E., Hussien, H. A., Bakhtiet, E. K., Kilany, W. H., **Abu-Elala, N. M.**, & Ali, A. (2022). In-vivo characterization of multidrug-resistant *Salmonella enterica* Serovar Enteritidis (SE) recovered from fertile eggs and baby chicks.

Dawood, Mahmoud AO, Mohammed F. El Basuini, Amr I. Zaineldin, Sevdan Yilmaz, Md Tawheed Hasan, Ehsan Ahmadifar, Amel M. El Asely et al. "Antiparasitic and antibacterial functionality of essential oils: An alternative approach for sustainable aquaculture." *Pathogens* 10, no. 2 (2021): 185.

Abu-Elala, Nermeen M., Tamer El-Sayed Ali, Naela M. Ragaa, Sara E. Ali, Reham M. Abd-Elsalam, Nehal A. Younis, Dalia A. Abdel-Moneam, Aya H. Hamdien, Melina Bonato, and Mahmoud AO Dawood. "Analysis of the productivity, immunity, and health performance of Nile tilapia (*Oreochromis niloticus*) broodstock-fed dietary fermented extracts sourced from *Saccharomyces cerevisiae* (Hilyses): a field trial." *Animals* 11, no. 3 (2021): 815.

Abu-Elala, Nermeen M., Mohamed Shaalan, Sara E. Ali, and Nehal A. Younis. "Immune responses and protective efficacy of diet supplementation with selenium nanoparticles against cadmium toxicity in *Oreochromis niloticus*." *Aquaculture Research* 52, no. 8 (2021): 3677-3686.

Abu-Elala, Nermeen M., Marwa M. Attia, Reham M. Abd-Elsalam, Abdelrhman Gamal, and Nehal A. Younis. "Peracetic acid treatment of *Ichthyophthirius multifiliis* (Ciliophora: Ichthyophthiriidae) and *Trichodina* spp. reduces the infection by *Aeromonas hydrophila* and improves survival in Nile tilapia (*Oreochromis niloticus*)." *Aquaculture* 538 (2021): 736591.

Eissa, Alaa E., Ashraf M. Abu-Seida, Mona M. Ismail, **Nermeen M. Abu-Elala**, and Mohamed Abdelsalam. "A comprehensive overview of the most common skeletal deformities in fish." *Aquaculture Research* 52, no. 6 (2021): 2391-2402.

Khafagy, Ahmed, Gehan Abou-Elela, **Nermeen Abu-Elala**, Reham Ibrahim, and Reham El-Tarabili. "Phenotypic Antibiotic Resistance Pattern and Prevalence of *Aeromonas* Species Isolated from Fish in Suez Governorate." *Suez Canal Veterinary Medical Journal. SCVMJ* 26, no. 2 (2021): 395-410.

Abu-Elala, Nermeen M., Reham M. Abd-Elsalam, and Nehal A. Younis. "Streptococcosis, Lactococcosis, and Enterococcosis are potential threats facing cultured Nile tilapia (*Oreochromis niloticus*) production." *Aquaculture research* 51, no. 10 (2020): 4183-4195.

Abu-Elala, Nermeen M., Nehal A. Younis, Huda O. AbuBakr, Naela M. Ragaa, Liliana L. Borges, and Melina A. Bonato. "Influence of dietary fermented *Saccharomyces cerevisiae* on growth performance, oxidative stress parameters, and immune response of cultured *Oreochromis niloticus*." *Fish physiology and biochemistry* 46 (2020): 533-545.

Abu-Elala, Nermeen M., Ahmed Samir, Momtaz Wasfy, and Magdy Elsayed. "Efficacy of injectable and immersion polyvalent vaccine against streptococcal infections in broodstock and offspring of Nile tilapia (*Oreochromis niloticus*)." *Fish & shellfish immunology* 88 (2019): 293-300.

Abu-Elala, Nermeen M., Nehal A. Younis, Huda O. AbuBakr, Naela M. Ragaa, Liliana L. Borges, and Melina A. Bonato. "Efficacy of dietary yeast cell wall supplementation on the nutrition and immune response of Nile tilapia." *The Egyptian Journal of Aquatic Research* 44, no. 4 (2018): 333-341.

Abu-Elala, Nermeen M., Marwa M. Attia, and Reham M. Abd-Elsalam. "Chitosan-silver nanocomposites in goldfish aquaria: A new perspective in *Lernaea cyprinacea* control." *International journal of biological macromolecules* 111 (2018): 614-622.

Abu-Elala, Nermeen M., Huda O. AbuBakr, Marwa S. Khattab, Samah H. Mohamed, Maha A. El-Hady, Rehab A. Ghandour, and Rania E. Morsi. "Aquatic environmental risk assessment of chitosan/silver, copper and carbon nanotube nanocomposites as antimicrobial agents." *International journal of biological macromolecules* 113 (2018): 1105-1115.

Abdelaziz, Mohamed, Mai D. Ibrahim, Marwa A. Ibrahim, **Nermeen M. Abu-Elala**, and Dalia A. Abdelmoneam. "Monitoring of different vibrio species affecting marine fishes in Lake Qarun and Gulf of Suez: Phenotypic and molecular characterization." *The Egyptian Journal of Aquatic Research* 43, no. 2 (2017): 141-146.

Naela, M., Ragaa, **N. M., Abu Elala**, A. M., & Kamel, N. F. (2017). Effect of a serine-protease on performance parameters and protein digestibility of cultured *Oreochromis niloticus* fed diets with different protein levels. *Pakistan Journal of Nutrition*, 16, 148-154.

Abu-Elala, Nermeen M., Reham M. Abd-Elsalam, Sherif Marouf, Mohamed Abdelaziz, and Mohamed Moustafa. "Eutrophication, ammonia intoxication, and infectious diseases: interdisciplinary factors of mass mortalities in cultured Nile tilapia." *Journal of Aquatic Animal Health* 28, no. 3 (2016): 187-198.

Abu-Elala, N. M., M. K. Galal, R. M. Abd-Elsalam, O. Mohey-Elsaeed, and N. M. Ragaa. "Effects of dietary supplementation of *Spirulina platensis* and garlic on the growth performance and expression levels of immune-related genes in Nile tilapia (*Oreochromis niloticus*)." *Journal of Aquaculture Research and Development* 7, no. 7 (2016): 433-442.

Abu-Elala, Nermeen M., Reham M. Abd-Elsalam, and Mohamed S. Marzouk. "Molecular and immunohistochemical diagnosis of *Photobacterium damsela* subspecies *piscicida* during naturally occurring disease in Egypt." *Journal of the World Aquaculture Society* 46, no. 6 (2015): 583-595.

Abu-Elala, Nermeen M., and Naela M. Ragaa. "Eubiotic effect of a dietary acidifier (potassium diformate) on the health status of cultured *Oreochromis niloticus*." *Journal of Advanced Research* 6, no. 4 (2015): 621-629.

Abu-Elala, N., M. Abdelsalam, Sh. Marouf, and A. Setta. "Comparative analysis of virulence genes, antibiotic resistance and gyrB-based phylogeny of motile *Aeromonas* species isolates from Nile tilapia and domestic fowl." *Letters in Applied Microbiology* 61, no. 5 (2015): 429-436.

Abu-Elala, Nermeen M., Samah H. Mohamed, Manal M. Zaki, and Alaa Eldin Eissa. "Assessment of the immune-modulatory and antimicrobial effects of dietary chitosan on Nile tilapia (*Oreochromis niloticus*) with special emphasis to its bio-remediating impacts." *Fish & shellfish immunology* 46, no. 2 (2015): 678-685.

Abdelaziz, M., Ibrahim, M. D., Abdelsalam, M., **Abu-Elala, N.**, & Yotunis, N. (2015). Assessment of using carp pituitary extract on clinico-histopathological and immunological status of common carp (*Cyprinus carpio*) Broodstocks. *Global Veterinaria*, 15, 156-162.

Abu-Elala, Nermeen, Mohamed Marzouk, and Mohamed Moustafa. "Use of different *Saccharomyces cerevisiae* biotic forms as immune-modulator and growth promoter for *Oreochromis niloticus* challenged with some fish pathogens." *International Journal of Veterinary Science and Medicine* 1, no. 1 (2013): 21-29.

Marzouk, M. S., **Moustafa, M. M.**, & Mohamed, N. (2008). The influence of some probiotics on the growth performance and intestinal microbial flora of *O. niloticus*. In *Proceeding of the 8th International Symposium on Tilapia in Aquaculture* (pp. 1059-1071).

Marzouk, M. S., **Moustafa, M. M.**, & Mohamed, N. M. (2008). Evaluation of immunomodulatory effects of some probiotics on cultured *Oreochromis niloticus*. In *8th International Symposium on tilapia in aquaculture* (Vol. 1043).

Eman, KH Abdelhay, H Mamdoh, **ABU Elala Nermeen** "BACTERICIDAL EFFECTIVENESS OF SOME COMMERCIAL DISINFECTANTS AGAINST AEROMONAS HYDROPHILA AND VIBRIO VULNIFICUS" *Ewemen Journal of Microbial Research* 1 (1), 9-15.

CONFERANCES & WEBINARS

-International webinar on food science and food chemistry held in June 2021. (One paper for oral presentation)

-Online symposium of World Aquatic Veterinary Medical Association (WAVMA) "Mitigation and Management practices in shrimp diseases". 25-June 2021.

-Davis-Thompson Foundation for completing 1.5 hours of continuing education at the following symposium "Aquatic Animal Diseases" 25-June 2021.

Second International Conference of Animal Research Institute "Livestock development, challenges, and solutions" 27th Nov. 2019 in Cairo & Hurghada- Egypt.

Asian-Pacific Aquaculture 2018, Taipei, Taiwan, from April 23-26 (two papers for oral presentation).

Novel Insights into Cancer Biology: New Targets and Therapeutic Approaches, The 3rd Symposium of Al-Tawasul Project 25- 26th November 2015.

Marzouk MS, Moustafa MM, Nermeen MM (2008) The influence of some probiotics on the growth performance and intestinal microbial flora of *O. niloticus*. 8th International Symposium on Tilapia in Aquaculture, ISTA conference

Marzouk MS, Moustafa MM, Nermeen MM (2008) Evaluation of Immunomodulatory effects of some

probiotics on cultured *Oreochromis niloticus*. 8th International Symposium on Tilapia in Aquaculture, ISTA conference.

WORKSHOPS & COURSES

She attended the following workshops

- Identification of micro-organisms using the MALDI-TOF-MS device - NWAHAH Scientific Research Center (20-22/10/2020).
- Practical Synthesis of nanoemulsions & Nanosuspension (9 July 2019), Naqaa Foundation for Scientific Research, Giza, Egypt.
- Practical preparation of silver nanoparticles and chitosan nanoparticles January 30, 2017, Naqa Foundation for Scientific Research - Giza – Egypt.
- Practical preparation of selenium nanoparticles 2019 Naqa Foundation for Scientific Research - Giza – Egypt.
- Principle and application of polymerase chain reaction National Research Center. (Genetic department).
- Molecular diagnosis and genetic engineering workshop- National Research Center. (Genetic department).
- Bioinformatics workshop (CURP, Faculty of Agriculture, Cairo University, Egypt).
- Gene expression analysis on a large scale using Microarray-real real-time PCR techniques (CURP, Faculty of Agriculture, Cairo University, Egypt).
- Western blotting as a real molecular diagnostic that shadows gene expression (Biotechnology Lab., Faculty of Veterinary Medicine, Cairo University, Egypt).
- SPSS training program (Statistics Institute, Cairo University).

She Participated in the World Fish Center/FAO training program: (Aquaculture principles and practices).

She Participated in the workshop entitled “Water Quality Methods of Diagnosis and Treatment of Fish Diseases and Basics of Applied and Clinical Nutrition in Aquaculture” (17-20/5/2015) Faculty of Veterinary Medicine, Cairo University, Egypt.

- Nanotechnology, concept, basics, and application (Faculty of Veterinary Medicine, Cairo University, Egypt) (2015).
- Nanotechnology in medical research: preparation and characterization of Nanoparticles (2016).
- Molecular Phylogenetics: HCV genotyping and subtyping (2016).

"Bioinformatics Software Workshop: Tools for Genome Annotation and Protein Function Prediction" March 2016, Center for Biotechnology Research & Services (CBRS), Faculty of Veterinary Medicine, Cairo University.

She participated in organizing the workshop entitled “Road Map for Development of Marine Aquaculture and the Egyptian Lakes” as a member of the Animal Research & Fish Wealth Council (Academy of Scientific Research and Technology

She participated in organizing the workshop entitled “Problems and Solutions Facing the Development Plan of Sinai” as a member of the Animal Research & Fish Wealth Council (Academy of Scientific Research and Technology.

She Participated in the workshop entitled “Fish Hatcheries: construction and Problems” (8-10 May 2012) organized by the League of Arab States, an Arab organization for agricultural development.

Member of the team responsible for preparing & submitting the file for obtaining the Government Excellence Award

Training Courses Presented by Cairo University Center for Quality Assurance of Education:

- Preparing the self-study and annual report of an educational institution within the framework of the new standards.
- Course Description
- Measurement and evaluation systems and the preparation of the test item
- Preparing an electronic course
- Preparing the course file
- Course and program report
- Financial resources and material facilities that support the educational process.
- Leadership, Governance, Organizational Structure, and Administrative Apparatus
- Community Participation and Environmental Development
- Crisis and crisis management.
- Quality management and development
- Students and alumni
- Postgraduate studies, scientific research, and educational activities.
- Academic advising considering the accreditation of educational institutions.
- Credit Hours System

Faculty Leaders Development Courses (FLDC)

1. Organization of scientific conferences
2. Blended Learning Basics
3. Positive thinking.
4. Methods of preventing and combating administrative corruption
5. Critical thinking
6. Exam systems and student assessment
7. Modern trends in teaching
8. Ethics of scientific research
9. Research team management
10. Creative thinking
11. Quality standards in the teaching process

12. Credit Hour Systems
13. International Publishing of Scientific Research
14. Preparing competitive projects to finance research.
15. Ethics and conduct of the university profession.
16. Use of technology in teaching.
17. Effective presentation.
18. Financial and legal aspects.
19. Strategic Planning
20. Crisis management
21. Statistical analysis in biological experiments
22. Work Stress Management
23. The Egyptian Knowledge Bank and the search for sources
24. Time and meeting management

THESIS UNDER MY SUPERVISION

Ph.D., “Laboratory and Field Studies for Evaluation of Disinfectants and Chemicals Used in Different Fish Farms,” Faculty of Vet. Medicine Cairo University (Discussed 2016).

Ph.D., “The impacts of Carp pituitary extract on the health status of common Carp (*Cyprinus carpio*) broodstock”. (Discussed 2016).

Ph.D., “Molecular studies of Vibrio Species affecting marine water fish”. (Discussed 2017)

M.Sc. “Influence of dietary fermented yeast on productivity & health of Nile tilapia broodstock”. (Discussed 2020)

Ph.D., “Molecular and Immunological evaluation of *Aeromonas hydrophila* vaccine in the fish farm”. (Discussed 2022).

Ph.D., “Insight on the potential microbial causes of summer mortality syndrome in cultured Nile tilapia (*Oreochromis niloticus*)” (Discussed 2022).

Ph.D., “Bacteriological Studies on Sea Turtles in Suez Governorate”. (Discussed 2023).

M. Sc., “Efficacy of chitosan & chitosan nanoparticles on the health status of *Oreochromis niloticus*”. (Discussed 2024).

M.Sc., “Immunological and pathogen resistance alterations after bacterial challenge in Seabass exposed to environmental xenobiotics” (under supervision)

BOOKS & REPORTS

<https://www.routledge.com/Bacillus-Probiotics-for-Sustainable-Aquaculture/Soltani-Elumalai-Ghosh-Ringo/p/book/9781032822730> Book Chapter 10 (2024)

<https://www.agri2day.com/2018/09/11/%D8%AF%D9%86%D9%8A%D8%B1%D9%85%D9%8A%D9%86%D8%A3%D8%A8%D9%88%D8%A7%D9%84%D8%B9%D9%84%D8%A7%D8%AA%D9%83%D8%AA%D8%A8>

[%D8%AE%D8%A7%D8%B1%D8%B7%D8%A9%D8%B7%D8%B1%D9%8A%D9%82%D9%85%D9%88%D8%A7/?fbclid=IwAR3HP7uBiB4KgdB4fAi-QsJPLXGG2W1itPCGrrN6RW3ljs0ZwNa42wtN80o](#)

she participated in the scientific writing of the “Fish Diseases and Management FDM-406” textbook for undergraduate students in the Department of Aquatic Animal Medicine & Management, Faculty of Veterinary Medicine, Cairo University, Egypt.

Roadmap “**Developing poultry production sector at rural area in Egypt.**”

Roadmap “**Development of Marine aquaculture and the Egyptian lakes**”

COMPUTER AND LANGUAGE SKILLS

Microsoft Office (Word - Excel - PowerPoint - Access) 2004-2005 in Central agency for mobilization and statistics

-ICDL Cairo University 2007

-Speak English Fluently

-Soft skills in bioinformatics program for gene analysis

- Word, Operating Research, Network 2021

All certificates are available upon your request.