

Curriculum Vitae



Personal information

Name	Nermeen Mustafa Mohamed Mustafa Abu-Elala Nermeen M. Abu-Elala
Title	Professor of Aquatic Animal Medicine and Management, Faculty of Veterinary Medicine, Cairo University. Manager of student skills development unit (SSDU), Faculty of Veterinary Medicine, Cairo University (2017- 2021). R&D consultant in Middle East for Vaccines (MEVAC), Egypt (2017- present). Scientific consultant of ICC Brazil for feed additives (2016- present).
Date of birth	22-7-1982
Place of birth	Cairo-Egypt
Citizenship	Egyptian
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Current address	Faculty of Veterinary Medicine, Cairo University, Giza 12211 Egypt. Department of Aquatic Animal Medicine and Management
Educational qualifications	Ph. D., Faculty of Veterinary Medicine, Cairo University, 2011 M.V. Sc., Faculty of Veterinary Medicine, Cairo University, 2007 B. Sc., Faculty of Veterinary Medicine, Cairo University, 2004
Academic Positions	Professor of Aquatic Animal Medicine & Management, Faculty of Veterinary Medicine, Cairo University 2021.

	<p>Associate professor, Aquatic Animal Medicine and Management, Faculty of Veterinary Medicine, Cairo University, 2016.</p> <p>Lecturer, Aquatic Animal Medicine and Management, Faculty of Veterinary Medicine, Cairo University, 2011.</p> <p>Assistant Lecturer, Aquatic Animal Medicine and Management, Faculty of Veterinary Medicine, Cairo University, 2007.</p> <p>Instructor, Aquatic Animal Medicine and Management, Faculty of Veterinary Medicine, Cairo University, 2005</p>
Thesis titles	<p>M.V. Sc. “Studies on the effect of some probiotics on the immune response of some cultured freshwater fish”</p> <p>Ph. D. “Role of Saccharomyces yeast as a mean of biocontrol for some microbial infections in Nile tilapia”</p>
Area of experiences	<p>Clinical and laboratory diagnosis of fish diseases</p> <p>Molecular biology and bioinformatics</p> <p>Fish Immunity</p> <p>Biological feed additives and immunostimulants in aquafeed</p> <p>Nanotechnology in fish medicine</p> <p>Fish Vaccinology</p>
Awards	<ul style="list-style-type: none"> • Awards from Cairo University for International publication 2013-2020. • Cairo University Incentive Award 2018 • Government Incentive Award 2020
Quality Assurance Activities	<p>Doctor in charge for the leadership & Governance compliance (2017-2021), Quality Assurance & Accreditation unit, Faculty of Veterinary Medicine, Cairo University.</p> <p>Participation of the work team in preparing the file submitted for obtaining the Government Excellence Award</p> <p>Training Courses Presented by Cairo University Center for Quality Assurance of Education:</p> <ul style="list-style-type: none"> • 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.

	<ul style="list-style-type: none"> • 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)	<p>A total of 24 courses were attended, and they are as follows:</p> <ol style="list-style-type: none"> 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
Membership of scientific committees and societies	<ol style="list-style-type: none"> 1- European Association of Fish Pathologist (EAFP). 2- Member of the Livestock and Fisheries Research Council, Academy of Scientific Research and Technology (2015-2018). 3- Member of the National Committee for Marine Sciences and Fisheries, Academy of Scientific Research and Technology (2020-now). 4- Member of the Technical Committee for Developing Educational Regulations and Programs of the National Projects Committee for the Establishment of Universities and Educational and Research Institutions “Ministry of Higher Education”

	<p>5- Member of the Egyptian Society for Animal Welfare, registration number 1891, Giza 2003.</p> <p>6- Member of the Egyptian Society of Bacteriology and Immunology - Cairo University, Giza 2005.</p> <p>7- Member of the Egyptian Association for Fisheries Development and Human Health - Ain Shams University.</p> <p>8- Member of the Cairo University Committee for the Ethics and Care of Animal Use in Education and Scientific Research (2017-2019).</p>
Conferences and webinars	<p>-Asian-Pacific Aquaculture 2018, Taipei, Taiwan from April 23- 26 (two papers for oral presentation)</p> <p>-International webinar on food science and food chemistry held on June-2021. (One paper for oral presentation)</p> <p>-Online symposium of World Aquatic Veterinary Medical Association (WAVMA) "Mitigation and Management practices in shrimp diseases". 25-June 2021.</p> <p>-Davis-Thompson foundation for completing 1.5 hours of continuing education at the following symposium "Aquatic Animal Diseases" 25-June 2021.</p> <p>-Second International Conference of Animal Research Institute "Livestock development, challenges and solutions" 27th Nov. 2019 in Cairo & Hurghada- Egypt.</p> <p>-8th International Symposium on Tilapia in Aquaculture, ISTA conference (2008). (Two paper for oral presentation)</p> <p>-Novel insights into Cancer Biology: New Targets and Therapeutic Approaches, The 3rd symposium of Al-Tawasul project 25-26 November 2015.</p> <p>-Conference of Department of fish diseases and management- Faculty of Veterinary Medicine- Cairo University, 2015.</p> <p>-Conference of Department of Bacteriology- Faculty of Veterinary Medicine- Cairo University, 2016.</p> <p>-Conference of Department of fish diseases and management- Faculty of Veterinary Medicine- Cairo University, 2016.</p>
Scientific projects	<p>Roadmap "Development of Marine aquaculture and Egyptian lakes" (Funding by Academy of scientific Research & Technology) 2016-2017.</p> <p>Roadmap "Developing poultry production sector at rural area in Egypt" (Funding by Academy of scientific Research & Technology) 2016-2017.</p> <p>Efficacy of yeast cell wall extracts produced by ICC Brazil on fish growth, immunity, and resistance against Diseases (funded by ICC, Brazil) 2016-2018 (PI).</p>

	<p>Efficacy of yeast cell wall extracts on the production and health of broodstock in hatchery (Funded by ICC, Brazil 2019 up till now) (PI)</p> <p>Preparation of nano-particulate based vaccine against Streptococcosis in fish (2016-2018).</p> <p>Preparation of nano-particulate based vaccine against Vibriosis in marine fish (2018-present).</p> <p>National catastrophe due to marine fish mortality: possible causes and proposed control strategies (2021-present).</p>
<p>Training and workshops</p>	<p>Identification of micro-organisms using the MALDI-TOF-MS device - NWAAH Scientific Research Center (20-22/10/2020).</p> <p>Scientific research efforts to face the problems facing the Sinai Peninsula in the field of livestock and fisheries (24-5-2017) Academy of Scientific Research and Technology.</p> <p>Practical preparation of silver nanoparticles and chitosan nanoparticles January 30, 2017, Naqa Foundation for Scientific Research - Giza – Egypt.</p> <p>Practical preparation of selenium nanoparticles 2019 Naqa Foundation for Scientific Research - Giza – Egypt.</p> <p>A training course in the field of optimal nutrition and facing problems in fish farms, which was organized by the Arab Organization for Agricultural Development - the League of Arab States and implemented in the Arab Republic of Egypt in Cairo.</p> <p>Bioinformatics workshop (CURP, Faculty of Agriculture, Cairo University, Egypt).</p> <p>Gene expression analysis on large scale using Microarray-real time PCR techniques (CURP, Faculty of Agriculture, Cairo University, Egypt).</p> <p>Western blotting as a real molecular diagnostic that shadows gene expression (Biotechnology Lab., Faculty of Veterinary Medicine, Cairo University, Egypt).</p> <p>SPSS (Statistics Institute, Cairo University).</p> <p>Immuno-histochemical technique in the national cancer institute, Cairo University.</p> <p>World Fish Center/FAO training program: (Aquaculture principles and practices).</p> <p>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.</p> <p>Nanotechnology, concept, basics, and application (Faculty of Veterinary Medicine, Cairo University, Egypt) (2015).</p>

	<p>Nanotechnology in medical research: preparation and characterization of Nanoparticles (2016)</p> <p>Molecular Phylogenetics: HCV genotyping and sub typing (2016).</p> <p>Bioinformatics Software Workshop: Tools for Genome Annotation and Protein Function prediction.</p> <p>Principle and application of polymerase chain reaction National research center. (Genetic department).</p> <p>Molecular diagnosis and genetic engineering workshop- National research center. (Genetic department).</p>
<p>Computer and Language Skills</p>	<p>-Microsoft Office (Word - Excel - Power point - Access) 2004-2005 in Central agency for mobilization and statistics</p> <p>-ICDL Cairo University 2007</p> <p>-Speak English Fluently</p> <p>-Soft skills in bioinformatics program for gene analysis</p> <p>- Word, Operating Research, Network 2021</p>
<p>Publications</p>	<p><u>Abu-Elala, Nermeen M.</u>, 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 46.6 (2015): 583-595.</p> <p><u>Abu-Elala, N.</u>, Abdelsalam, M., Marouf, S., & Setta, A. (2015). 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(5), 429-436.</p> <p><u>Abu-Elala, N. M.</u>, Mohamed, S. H., Zaki, M. M., & Eissa, A. E. (2015). 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(2), 678-685.</p> <p><u>Abu-Elala, N. M.</u> & Ragaa, N. M. (2015). Eubiotic effect of a dietary acidifier (potassium diformate) on the health status of cultured Oreochromis niloticus. Journal of Advanced Research, 6(4), 621-629.</p> <p><u>Abu-Elala, N. M.</u>, Abd-Elsalam, R. M., Marouf, S., Abdelaziz, M., & Moustafa, M. (2016). Eutrophication, ammonia intoxication, and infectious diseases: interdisciplinary factors of mass mortalities in cultured Nile tilapia. Journal of aquatic animal health, 28(3), 187-198.</p> <p><u>Abu-Elala, N. M.</u>, Younis, N. A., AbuBakr, H. O., Ragaa, N. M., Borges, L. L., & Bonato, M. A. (2018). Efficacy of dietary yeast cell wall supplementation on the nutrition</p>

and immune response of Nile tilapia. The Egyptian Journal of Aquatic Research, 44(4), 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, N. M., AbuBakr, H. O., Khattab, M. S., Mohamed, S. H., El-Hady, M. A., Ghandour, R. A., & Morsi, R. E. (2018). Aquatic environmental risk assessment of chitosan/silver, copper, and carbon nanotube nanocomposites as antimicrobial agents. International journal of biological macromolecules, 113, 1105-1115.

Abu-Elala, N. M., Samir, A., Wasfy, M., & Elsayed, M. (2019). Efficacy of injectable and immersion polyvalent vaccine against streptococcal infections in broodstock and offspring of Nile Tilapia (*Oreochromis niloticus*). Fish & shellfish immunology, 88, 293-300.

Abu-Elala, N. M., Younis, N. A., AbuBakr, H. O., Ragaa, N. M., Borges, L. L., & Bonato, M. A. (2020). Influence of dietary fermented *Saccharomyces cerevisiae* on growth performance, oxidative stress parameters, and immune response of cultured *Oreochromis niloticus*. Fish physiology and biochemistry, 46(2), 533-545.

Abu-Elala, N. M., Abd-Elsalam, R. M., & Younis, N. A. (2020). Streptococcosis, Lactococcosis and Enterococcosis are potential threats facing cultured Nile tilapia (*Oreochromis niloticus*) production. Aquaculture Research, 51(10), 4183-4195.

Abu-Elala, N. M., Attia, M. M., Abd-Elsalam, R. M., Gamal, A., & Younis, N. A. (2021). 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, 736591.

Abu-Elala NM, Ali TE-S, Ragaa NM, Ali SE, Abd-Elsalam RM, Younis NA, Abdel-Moneam DA, Hamdien AH, Bonato M, Dawood MAO. 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. (2021); 11(3):815. <https://doi.org/10.3390/ani11030815>

Abu-Elala, N.M., Shaalan, M., Ali, S.E. and Younis, N.A. (2021). Immune responses and protective efficacy of diet supplementation with selenium nanoparticles against cadmium toxicity in *Oreochromis niloticus*. Aquaculture Research. <https://doi.org/10.1111/are.15212>

Eissa, A. E., Abu-Seida, A. M., Ismail, M. M., **Abu-Elala, N. M.**, & Abdelsalam, M. (2021). A comprehensive overview of the most common skeletal deformities in fish. Aquaculture Research, 52(6), 2391-2402.

Dawood, M. A., El Basuini, M. F., Zaineldin, A. I., Yilmaz, S., Hasan, M., Ahmadifar, E., ... & Sewilam, H. (2021). Antiparasitic and antibacterial functionality of essential oils: an alternative approach for sustainable aquaculture. Pathogens, 10(2), 185.

Abu-Elala, N., Marzouk, M., & Moustafa, M. (2013). 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(1), 21-29.

Abdelaziz, M., Ibrahim, M. D., Ibrahim, M. A., **Abu-Elala, N. M.**, & Abdel-moneam, D. A. (2017). 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(2), 141-146.

Abu-Elala, N. M., Galal, M. K., Abd-Elsalam, R. M., Mohey-Elsaeed, O., & Ragaa, N. M. (2016). 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(7), 433-442.

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).

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.

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.

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.

Books and reports

<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>

Sharing in scientific writing of a Textbook "Fish diseases and management FDM-406" for undergraduate students.

	<p>Roadmap “Developing poultry production sector at rural area in Egypt.”</p> <p>Roadmap “Development of Marine aquaculture and the Egyptian lakes”</p>
<p>Reviewing of projects and reviewing of research in international periodicals</p>	<p>2 projects from STDF 1 project from Cairo University</p> <p>Fish and Shellfish Immunology Aquaculture Report Journal of Advanced Research Journal of Applied Ichthyology Journal of Aquaculture International International journal of Veterinary science and Medicine Turkish journal of Fisheries and aquatic sciences Chemosphere Aquaculture Research</p>
<p>Thesis</p>	<p>Ph. D.: Laboratory and field Studies for Evaluation of Disinfectants and Chemicals Used in Different Fish Farms (thesis was discussed).</p> <p>Ph. D.: The impacts of Carp pituitary extract on the health status of common Carp (<i>Cyprinus carpio</i>) broodstock. (Thesis was discussed).</p> <p>Ph. D.: Molecular studies of Vibrio Species affecting marine water fish (Thesis was discussed)</p> <p>Ph. D.: Studies on new disease threats facing cultured tilapias in Egypt.</p> <p>Ph. D.: Molecular and Immunological evaluation of <i>Aeromonas hydrophila</i> vaccine in fish farm.</p> <p>Ph.D.: Bacterial studies on sea turtles in Suez Governorate.</p> <p>M.Sc.: Influence of dietary fermented yeast on productivity and health of Nile tilapia broodstock.</p> <p>M.Sc.: Bacteriological and Molecular studies Photobacterium species in marine water fish</p> <p>M. Sc.: Molecular characterization of <i>Aeromonas</i> isolates recovered from fish.</p> <p>M.Sc.: Studies on mycoplasma infection in fish</p> <p>M. Sc.: Role of Isopoda in bacterial diseases transmission in Egyptian cultured fish</p>

All certificates are available upon your request.