

Curriculum Vitae

Name : Dr. Mohsen Abdel-Tawwab Ibrahiem Abdel-Tawwab
Date of Birth : 19 December 1965.
Place of Birth : Shiebah, Zagazig, Sharqia, Egypt.
Sex : Male
Nationality : Egyptian
Marital Status : Married and have 4 kids.
Address : 46 Mubarak st., Shiebah, Zaqaziq, Sharqia, Egypt.
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Languages : Arabic (mother tongue) with good spoken and written English.



Educational Status:

Ph.D. Botany (Phycology) in Faculty of Science, Cairo University, 1998.

Title of Ph.D. Thesis: Ecophysiological studies on *Azolla* plant in relation to phytoplankton and pond fish production.

M.Sc. Botany (Phycology) in Faculty of Science, Zaqaziq University, 1994.

Title of M.Sc. Thesis: Physiological studies on the effect of using chemical fertilizers on some freshwater algae and their effects on fish growth.

B.Sc. Botany in Faculty of Science, Zaqaziq University, 1986 (very good).

Secondary education in Zaqaziq secondary school, 1982.

Present Employment: Prof. Senior Researcher, Department of Fish Biology and Ecology, Central Laboratory for Aquaculture Research (CLAR), Agriculture Research Center.

Address of Work: Central Laboratory for Aquaculture Research, Abbassa, Abu-Hammad, Sharqia, Egypt.

Occupation and work:

Temporary worker in Department of Fish Biology and Ecology and Biology, CLAR, 1988-92;

Research Ass., Department of Fish Biology and Ecology and Biology, CLAR, 1992-1994;

Ass. Researcher, Department of Fish Biology and Ecology and Biology, CLAR, 1994-1998;

Researcher, Department of Fish Biology and Ecology and Biology, CLAR, 1998-2004,

Ass. Prof., Department of Fish Biology and Ecology and Biology, CLAR, 2004-2009,

Prof. Senior Researcher, Department of Fish Biology and Ecology and Biology, CLAR, 13 April 2009 until now.

Scientific Experiences:

- * Water quality management in fishponds.
- * Phytoplankton identification and enumeration in fishpond.
- * Analysis of stomach contents of different freshwater fishes.
- * Chemical proximate analysis of different diets and fish tissues.
- * Design of chemical fertilizers regime for fish production in earthen ponds.
- * Evaluating some aquatic weeds as fodder for tilapia and carp.
- * Evaluating plant-fish culture systems in ponds and its balance with the ecosystem in fishponds.

- * Evaluating the use of medicinal plants in increasing fish growth, innate immunity, and their resistance against some heavy metals.
- * Teaching some courses in fish biology and ecosystem for aquaculture training participants in CLAR, Abbassa, Abo-Hammad, Sharqia, Egypt.
- * Computer experience for data analysis and biostatistics using SPSS software.
- * This author is also used as a reviewer in many peer reviewed international journals such as *Aquaculture*, *Journal of Applied Aquaculture*, and *Journal of the World Aquaculture Society...etc.*

Training courses:

- 1- English language organized by American College University (Cairo) for advanced level of TOEFL in April 1993.
- 2- Freshwater Aquaculture organized by Central Lab. for Aquaculture Research, from 16 June to 30 Jun. 1993.
- 3- Algal biomass culture for mariculture, Maryut Fish Farm, Alexandria, 1994.
- 4- General Aquaculture organized by JICA in Kanagawa International Fisheries Training Center, Japan, from 14 Jan. to 29 June 1997.
- 5- Intensive tilapia culture organized by CLAR, from 8-18 Feb. 1998.

Traveling: Traveling to Japan from 14 /1/ 97 to 29/6/97 in **General Aquaculture Training Course**, Kanagawa International Fisheries Training Center, 5-25-5 Nagai, Yukoska, Kanagawa Prefecture, Japan.

Associations:

1. Member of Egyptian Society of Phycology
2. Member of Egyptian Society for the Development of Fisheries Resources and Human Health.
3. Member of Egyptian Society of Applied Sciences.
4. Member of Egyptian Society of water, aquaculture and environment.

Conferences and Meetings:

Author attended several local and international conferences and meetings dealing with issues of fish farming, future prospective of aquaculture, rural agriculture development and the development of civil society.

Publications:

1. **Abdel-Tawwab, M. (2015).** The use of American Ginseng (*Panax quinquefolium*) in practical diets for Nile tilapia (*Oreochromis niloticus*): resistance to waterborne copper toxicity. *Aquaculture Research*, 46, 1001–1006.
2. **Abdel-Tawwab, M. (2015).** Incorporating roasted coffee bean into Nile tilapia diets does not improve growth performance. *Journal of Applied Aquaculture*, 27:1, 87-93.
3. **Abdel-Tawwab, M.**, A.E. Hagra, Heba Allah M. Elbaghdady, M.N. Monier (2015). Effects of dissolved oxygen and fish size on Nile tilapia, *Oreochromis niloticus* (L.): growth performance, whole body composition, and innate immunity. *Aquaculture International* 23: 1261–1274.
4. **Abdel-Tawwab, M.**, K.M. Sharafeldin, M.N.M. Mousaad, and Nahla EM Ismaiel (2015). Coffee bean in common carp, *Cyprinus carpio* L. diets: Effect on growth performance, biochemical status, and resistance to waterborne zinc toxicity.

Aquaculture 448: 207 –213.

5. **Abdel-Tawwab, M.**, A.E. Hagrass, Heba Allah M. Elbaghdady, M.N. Monier (2014). Dissolved oxygen level and stocking density effects on growth, feed utilization and physiology of juvenile Nile tilapia, *Oreochromis niloticus* (L.). Journal of Applied Aquaculture (in press).
6. **Abdel-Tawwab, M.** (2014). The use of American Ginseng (*Panax quinquefolium*) in practical diets for Nile tilapia (*Oreochromis niloticus*): resistance to waterborne copper toxicity. Aquaculture Research (in press).
7. **Abdel-Tawwab, M.**, M.N.M. Mousaad, K.M. Sharafeldin and Nahla EM Ismaiel (2013). Changes in growth and biochemical status of common carp, *Cyprinus carpio* L. exposed to water-born zinc toxicity for different periods. Internat. Aquatic Research, 5:11, 1-9.
8. **Abdel-Tawwab, M.** (2012). The use of American ginseng (*Panax quinquefolium*) in practical diet for Nile tilapia (*Oreochromis niloticus*): Growth performance and challenge with *Aeromonas hydrophila*. Journal of Applied Aquaculture, 24(4): 366-376.
9. **Abdel-Tawwab, M.** (2012). Interactive effects of dietary protein and live bakery yeast, *Saccharomyces cerevisiae* on growth performance of Nile tilapia, *Oreochromis niloticus* (L.) fry and their challenge against *Aeromonas hydrophila* infection. Aquaculture International, 20:317–331.
10. **Abdel-Tawwab, M.** (2012). Effects of dietary protein levels and rearing density on growth performance and stress response of Nile tilapia, *Oreochromis niloticus* (L.). International Aquatic Research, 4:3, 1-13. DOI:10.1186/2008-6970-4-3
11. **Abdel-Tawwab, M.** (2012). Chronic effect after acute exposure to commercial petroleum fuels on physiological status of Nile tilapia, *Oreochromis niloticus* (L.). International Aquatic Research, 4:11, 1-9. DOI:10.1186/2008-6970-4-11
12. **Abdel-Tawwab, M., G.O. El-Sayed, and S.H. Shady** (2012). Effects of dietary protein levels and environmental zinc exposure on the growth, feed utilization, and biochemical variables of Nile tilapia, *Oreochromis niloticus* (L.). Toxicological and Environmental Chemistry, 94(7): 1368 - 1382.
13. **Abdel-Tawwab, M.** (2011). Natural food selectivity changes with weights of Nile tilapia, *Oreochromis niloticus* (Linnaeus), reared in fertilized earthen ponds. Journal of Applied Aquaculture, 23(1): 58 — 66.
14. **Ahmad, M.A. and M. Abdel-Tawwab** (2011). The use of caraway seeds meal as a feed additive in fish diets: growth performance, feed utilization, and whole-body composition of Nile tilapia, *Oreochromis niloticus* (L.) fingerlings. Aquaculture, 314: 110 – 114.
15. **Abdel-Tawwab, M., G.O. El-Sayed, and S.H. Shady** (2011a). Acute toxicity of water-born zinc in Nile tilapia, *Oreochromis niloticus* (L.) fingerlings. Proceedings of the ninth International Symposium on Tilapia in Aquaculture, Liu Liping and Kevin Fitzsimmons (Editors), Shanghai Ocean University, Shanghai, China 22-24 April 2011, pp 39-44.
16. **Abdel-Tawwab, M., G.O. El-Sayed, and S.H.H.H. Shady** (2011 b). Effect of Water-Born Zinc and Exposure Period on the Growth and Zinc Bioaccumulation in Nile tilapia, *Oreochromis niloticus* (L.). Egyptian Journal of Applied Sciences, 26(3): 109-123.

17. **Abdel-Tawwab, M., M. H. Ahmad, S. M. F. Sakr, and M. E. A. Seden (2010).** Use of green tea, *Camellia sinensis* L. in practical diets for growth and protection of Nile tilapia, *Oreochromis niloticus* (L.) against *Aeromonas hydrophila* infection. Journal of the World Aquaculture Society, 41(2): 203-213.
18. **Abdel-Tawwab, M., M.A.A. Mousa and M. A. Mohammed (2010):** Effect of yeast supplement on the growth and resistance of Galilee tilapia, *Sarotherodon galilaeus* (L.) to environmental copper toxicity. Journal of the World Aquaculture Society, 41(2): 214-223.
19. **Abdel-Tawwab, M. and M. Wafeek (2010):** Response of Nile tilapia, *Oreochromis niloticus* (L.) fed dietary organic selenium to environmental cadmium toxicity. Journal of the World Aquaculture Society 41(1): 106-114.
20. **Abdel-Tawwab, M., M.H. Ahmad, Y.A.E. Khattab, and A.M.E. Shalaby (2010):** Effect of dietary protein level, initial body weight, and their interaction on the growth, feed utilization, and physiological alterations of Nile tilapia, *Oreochromis niloticus* (L.). Aquaculture, 298: 267–274.
21. **Abdel-Tawwab, M. and M.H. Ahmad (2009):** Live Spirulina (*Arthrospira platensis*) as a growth and immunity promoter for Nile tilapia, *Oreochromis niloticus* (L.) challenged with pathogenic *Aeromonas hydrophila*. Aquaculture Research, 40: 1037-1046.
22. **Abdel-Tawwab, M. and M.H. Ahmad (2009):** Effect of dietary protein regime during the growing period on growth performance, feed utilization, and whole body composition of Nile tilapia, *Oreochromis niloticus* (L.). Aquaculture Research 40: 1532 – 1537.
23. **Abdel-Tawwab, M., A.M. Abdel-Rahman, and N.E.M. Ismael (2008).** Evaluation of commercial live bakers' yeast, *Saccharomyces cerevisiae* as a growth and immunity promoter for fry Nile tilapia, *Oreochromis niloticus* (L.) challenged *in situ* with *Aeromonas hydrophila*. Aquaculture, 280: 185-189.
24. **Abdel-Tawwab, M. (2008):** The Preference of the omnivorous-macrophagous, *Tilapia zillii* (Gervais) to consume a natural free-floating plant, *Azolla pinnata*. Journal of the World Aquaculture Society. 39(1): 104-112.
25. **Abdel-Tawwab, M., M.A.A. Mousa and F.E. Abbass (2007):** Growth performance and physiological response of African catfish, *Clarias gariepinus* (B.) fed organic selenium prior to the exposure to environmental copper toxicity. Aquaculture, 272(1-4): 335-345.
26. **Abdel-Tawwab, M., A.E. Abdelghany and M.H. Ahmad (2007):** Effect of feed supplementation on water properties, phytoplankton community structure and the growth of Nile tilapia, *Oreochromis niloticus* (L.), common carp, *Cyprinus carpio* L., and silver carp, *Hypophthalmichthys molitrix* V. polycultured in fertilized earthen ponds. Journal of Applied Aquaculture, 19(1): 1- 24.
27. **Ahmad, M.H., M. Abdel-Tawwab and Y.A.E. Khattab (2007):** Growth response of silver carp, *Hypophthalmichthys molitrix* Val. to feed supplementation in earthen fish ponds. Journal of Applied Aquaculture, 19(1): 25 - 38.
28. **Abdel-Tawwab, M., M.A.A. Mousa, M.H. Ahmad and S.F. Sakr (2007):** The Use of calcium pre-exposure as a protective agent against environmental copper toxicity for juvenile Nile tilapia, *Oreochromis niloticus* (L.). Aquaculture, 264(1-4): 236-

29. **Abdel-Tawwab, M. (2006):** Effect of free-floating macrophyte *Azolla pinnata* on water physico-chemistry, primary productivity and the production of Nile tilapia (*Oreochromis niloticus*) and common carp (*Cyprinus carpio*) in fertilized earthen ponds. *Journal of Applied Aquaculture*, 18(1): 21-41.
30. **Abdel-Tawwab, M., Y.A.E. Khattab, M.H. Ahmad and A.M.E. Shalaby (2006):** Compensatory growth, feed utilization, whole body composition and hematological changes in starved juvenile Nile tilapia, *Oreochromis niloticus* (L.). *Journal of Applied Aquaculture*, 18(3): 17-36.
31. **Abdel-Tawwab, M., H.I. El-Marakby and M.H. Ahmad (2006):** Cannibalism in Nile tilapia, *Oreochromis niloticus* (L.): effect of stocking density, feed quality and submerged macrophytes. *Indian Journal of Fisheries*, 53: 124-131.
32. **Ahmad, M.H., H.I. El-Marakby, M.E.A. Seden, M. Abdel-Tawwab and M.E. Abou-El-Atta (2006):** The use of organic selenium (Sel-Plex[®]) in practical diets for Nile tilapia, *Oreochromis niloticus* (L.): Effect on growth performance, feed utilization, whole-body composition and entropathogenic *Aeromonas hydrophila*-challenge. In: W. Contreras and K. Fitzsimmons (eds.), *Seventh International Symposium on Tilapia in Aquaculture*, 6-8 September 2006, Boca del Rio, Veracruz, Mexico, pp 95-107.
33. **Abdel-Tawwab, M. (2005):** The effect of artificial vegetation density on growth and growth related parameters of Nile tilapia, *Oreochromis niloticus* (L.) fry. *Turkish Journal of Fisheries and Aquatic Sciences*, 5: 63-68.
34. **Abdel-Tawwab, M. (2005):** Predation efficiency of Nile catfish, *Clarias gariepinus* (Burchell, 1822) on fry Nile tilapia, *Oreochromis niloticus* (Linnaeus, 1758) : Effect of prey density, predator size, feed supplementation and submerged vegetation. *Turkish Journal of Fisheries and Aquatic Sciences*, 5: 69-74.
35. **Abdel-Tawwab, M., A.-H. M. Eid, A.E. Abdelghany and H.I. El-Marakby (2005):** The assessment of water quality and primary productivity in earthen fishponds stocked with striped mullet (*Mugil cephalus*) and subjected to different feeding regimes. *Turkish Journal of Fisheries and Aquatic Sciences* 5: 1-10.
36. **Abdel-Tawwab, M. and M.A.A. Mousa (2005):** Effect of calcium pre-exposure on acute copper toxicity to juvenile Nile tilapia, *Oreochromis niloticus* (L.). *Zagazig Veterinary Journal*, 33(1): 80-87.
37. **Abdel-Tawwab, M., M.A.A. Mousa, S.M. Sharaf and M.H. Ahmad (2005):** Effect of crowding stress on some physiological functions of Nile tilapia, *Oreochromis niloticus* (L.) at different dietary protein levels. *International Journal of Zoological Research*, 1 (1): 41-47.
38. **Abdel-Tawwab, M. (2004):** Comparative growth performance and feed utilization of four local strains of Nile tilapia (*Oreochromis niloticus* L.) collected from different locations in Egypt. In: R. Bolivar; G. Mair and K. Fitzsimmons (eds.), *Sixth International Symposium on Tilapia in Aquaculture*, 14-16 September 2004, Manila, Philippines, pp. 510-517.
39. **Abdel-Tawwab, M. and H.I. El-Marakby (2004):** Length-weight relationship, natural food and feeding selectivity of Nile tilapia; *Oreochromis niloticus* (L.) in fertilized earthen ponds. In: R. Bolivar; G. Mair and K. Fitzsimmons (eds.), *Sixth International Symposium on Tilapia in Aquaculture*, 14-16 September 2004, Manila,

Philippines, pp. 500-509.

40. **Abdel-Tawwab, M.; A.M.E. Shalaby; Y.A.E. Khattab and M.H. Ahmad (2004):** Effect of dietary vitamin C (ascorbic acid) used for mercury intoxication on different biochemical parameters, growth and survival rate of Nile tilapia; *Oreochromis niloticus*. In: R. Bolivar; G. Mair and K. Fitzsimmons (eds.), Sixth International Symposium on Tilapia in Aquaculture, 14-16 September 2004, Manila, Philippines, pp. 159-171.
41. **Ahmad, M.A., M. Abdel-Tawwab and Y.A.E. Khattab (2004):** Effect of dietary protein levels on growth performance and protein utilization in Nile tilapia (*Oreochromis niloticus* L.) with different initial body weights. In: R. Bolivar; G. Mair and K. Fitzsimmons (eds.), Sixth International Symposium on Tilapia in Aquaculture, 14-16 September 2004, Manila, Philippines, pp. 249-263.
42. **Khattab, Y.A.E., M. Abdel-Tawwab and M. H. Ahmad (2004):** Effect of protein level and stocking density on growth performance, survival rate, feed utilization and body composition of Nile tilapia fry (*Oreochromis niloticus* L.). In: R. Bolivar; G. Mair and K. Fitzsimmons (eds.), Sixth International Symposium on Tilapia in Aquaculture, 14-16 September 2004, Manila, Philippines, pp. 264-276.
43. **Abdel-Tawwab, M. (2003):** Occurrence of phytoplankton in stomach content and its selectivity by Nile tilapia (*Oreochromis niloticus* L.) cultured in fertilized earthen ponds. Qatar University Science Journal, 23: 153-166.
44. **Ahmad, M.H., M. Abdel-Tawwab, A.M.E. Shalaby, and Y.A.E. Khattab (2002):** Effects of 17 α -methyltestosterone on growth performance and some physiological changes of Nile tilapia fingerlings (*Oreochromis niloticus* L.). Egyptian Journal of Aquatic Biology and Fisheries, 4(4): 295-311.
45. **Abdel-Tawwab, M., A. E. Abdelghany, Y.M. El-Ayouty, A. A. El-Essawy (2002a):** Effect of inorganic fertilizers with different N/P/K ratios on water quality, primary productivity and production of Nile tilapia (*Oreochromis niloticus* L.) in earthen ponds. Egyptian Journal of Agricultural Research, 80(4): 1909-1923.
46. **Abdel-Tawwab, M., A. E. Abdelghany, Y.M. El-Ayouty, A. A. El-Essawy (2002b):** Effect of different doses of inorganic fertilizers on water quality, primary productivity and production of Nile tilapia (*Oreochromis niloticus* L.) in earthen ponds. Egyptian Journal of Agricultural Research, 80(4): 1891-1907.
47. **Abdel-Rahman, M.H.M., S.M.M. Shanab, E.F. Shabana, S.N. Shaalan and M. Abdel-Tawwab (2002):** *Azolla* performance and the effect of its natural cover on water quality and phytoplankton abundance in Abbassa area, Sharkia Governorate (Egypt). Egyptian Journal of Biotechnology, 11: 365-383.
48. **Abdel-Rahman, M.H.M., S.M.M. Shanab, E.F. Shabana, S.N. Shaalan and M. Abdel-Tawwab (2001):** The effect of different nitrogen and phosphorus concentrations on growth of *Azolla pinnata* during different incubation periods. Egyptian Journal of Biomedical Sciences, 8: 79-95.
49. **Ahmad, M.H.; A.E. Abdelghany and M. Abdel-Tawwab (2001):** Phytoplankton dynamics in fertilized earthen ponds received supplemental feed at different timing for different periods. Egyptian Journal of Botany, 41(1): 79-98.
50. **Abdel-Tawwab, M. (2000):** Food and feeding habits of *Oreochromis niloticus* under the effect of inorganic fertilizer with different N:P:K ratios in Abbassa fishponds. Egyptian Journal of Agricultural Research, 78(1): 437-448.

51. **Abdel-Halim, A.M.M., S.M.M. Shanab and M. Abdel-Tawwab (1998):** Evaluation of *Azolla pinnata* meal as an ingredient in diets for *Tilapia zillii* fry. Egyptian Journal of Agricultural Research, 76(3): 1307-1316.
52. **El-Ayouty, Y.M., A.A. El-Essawy, A.E. Abdelghany and M. Abdel-Tawwab (1994):** Effect of different N/P/K ratios on physico-chemical changes and phytoplankton standing crop in fishpond. Bulletin of Faculty of Science, Zagazig University, 16 (1)c: 216-239.