

Curriculum Vitae

Personal Information:

Name: Mohamed Mahmoud Mohamed Aboamer

Date of Birth: 22/9/1986.

Place of Birth: Tala city, Menufiya province, Egypt.

Gender: Male.

Marital Status: Married

Military Status: Exempted.

Work position: Manager of Microbiological laboratory at Central Lab in Menufiya Holding Company of water and waste water (Central laboratory researcher).

Contact Information:

Address: Abo seada St, Tala City, Menufiya, Egypt.

Telephone: 048-3794014.

Cell Phone (Mobile): 01004179305.

Email: Mohamed_aboamer2003@yahoo.com

Education:

1) B.SC of "Chemistry & Zoology", Menufiya university (2007)

Percentage: 82.03 % **Grade:** "Very good"

2) Diploma in "Analytical Biological Biochemistry", Menufiya University (2008)

Percentage: 86.17%

Grade: "Excellent"

3) Master Preliminary study in:

“Water Immunoparasitology “(2011)

Percentage: 87.5%

Grade: "Excellent"

In 4) Having Master Degree:

“Water Immunoparasitology “at May 2014

Title of thesis: “Studies on some waterborne parasitic protozoa in water treatment plants in Menufiya governorate, Egypt “

5) Now I have Ph.D degree study at faculty of science, Menufiya University, Department of Zoology, at (Water Biology & Water Ecology)

Since 18-1-2015 until now

6) List of publication:

A) ** my first research of Master's degree was published for well-known scientific journal in the United States (Journal of Materials Science and Engineering, Elsevier & David publishing with Impact factor 3.32) under the title:

"Influence of Solar Energy on Encysted Parasitic Protozoa *Giardia* and *Entamoeba* spp in Water-Treatment Plants, Egypt"

B) ** my second research was published in Journal of Egyptian Academic Society for environmental Development ISSN1110-8770 Vol.16 Number 1 (2015) under the title of:

"Evaluation of the relationships of certain ecological parameters and prevalence of *Giardia* and *Entamoeba* cysts at two water treatment plants at El-Menoufiya province, Egypt"

*** Personal Skills:**

1) Computer:

ICDL License, Microsoft Office & Internet

2) Languages:

- * Arabic as mother tongue
- * English “very good talking & writing”
- * “Local TOEFL” License (690 degree)
- * Now, I will having a training course in German language (Deutsch) at Goitte Institute

*** Training Courses:**

- 1) TOT (Training of The Trainer) course .
- 2) Water biology training course in NRC (National Research Center) and Water biology “Phytoplankton “training course in central lab by Dr. Gamila Hassan
- 3) Water sampling training course in Reference lab. (HCWW)
- 4) Water microbiology training course in Alexandria central laboratory. (HCWW)
- 5) Water biology “Phytoplankton “Basic, Intermediate and advanced training courses in Reference lab. (HCWW)
- 6) Water biology “Protozoa “Basic, Intermediate and advanced training courses in Reference lab. (HCWW)
- 7) Water biology “Phytoplankton “training course in Cairo company training center and Cairo central lab.
- 8) Water chemistry and water Ecology training courses in Reference lab. (HCWW)

*** Training Courses: (As A Trainer)**

I was classified as qualified Class (A) trainer in the holding company of water and waste water (HCWW) at laboratories sector.

I've trained many training courses for team work and all staff members of biological laboratories in Menufiya Holding Company of water and waste water as following:

- 1) Water biology “Phytoplankton “training course in Shebin Elkom training centers for all the staff members of biology of all labs of Menufiya Holding Company of water and waste water.**
- 2) Water biology “Protozoa “training course in Quessna and Shebin Elkom training centers for all the staff members of biology of all labs of Menufiya Holding Company of water and waste water.**
- 3) Water Ecology training course in Shebin Elkom training centers for all the staff members of Menufiya Holding Company of water and waste water.**
- 4) Water chemistry training course in Shebin Elkom training centers for all the staff members of Menufiya Holding Company of water and waste water.**

*** Scientific Activities :**

- 1) Preparation of Standard Operating Procedure (S.O.P) for biological examination of drinking water.**
- 2) Training the staff members of biology at the Experimental biological and Ecological examination of drinking water.**

3) Participation at Water Africa and Middle East expo conference at Cairo, from 17-19 October 2017

4) Participation at Nanotechnology GC Code of Ethics, Safety and Security workshop at the British university in Egypt and the American chemical Society "BUE, 12- April 2017

5) Participation at (SEPA) conference of water treatment and water disinfection in Germany "Munchen" from 17-19 September 2012.

6) Participation at (DAAD & GIZ) conference of water treatment and water disinfection in Cairo University.

7) Participation at (SUSW aTECh) conference of water treatment and water disinfection at the Conference facilities of Cairo University from 18-20 February 2013

8) Participation at (Smaller scientist GIZ) conference of water disinfection at Berlin from 26-29 April 2013

9) participation at 3rd IWaTec Winter School in El Gouna; The IWaTec consortium in cooperation with TU Berlin Campus El Gouna ,the third winter school on Sustainable Use of Resources: Water and Energy for Egypt from February 21st till March 1st, 2015.

10) Participation at Third Arab Water Forum in Cairo, Egypt from 9-12 December 2014.

11) Participation at Eu-Egypt water talks (Expanding the horizon for innovative strategies in water and wastewater sector), this event is funded under the water sector programme "WSRP" at Conrad hotel on 28-29 April 2014.

12) Participation at SWIM-Sustain Water MED: Network of demonstration activities for sustainable integrated waste water treatment and reuse in Mediterranean, under title of:(Sustainable Integrated Waste water Treatment & Reuse in the Mediterranean) Regional conference that hold in Cairo, Egypt from 1-2 December, 2014 .

13) participation at 2nd Trinex WEF Nexus Winter School in Sekem guest house under supervision and cooperation of AUC , Achen university in Germany ;the 2nd Trinex WEF Nexus winter school on Sustainable Use of Resources: Water , Energy and food for Egypt and middle east from 3 March 2018 till 19 March 2018 .

14) Participation at Cairo water week in Egypt for water development and sustainability all over the world that hold in Cairo, Egypt from 14 to 18 October , 2018 .

Influence of Solar Energy on Encysted Parasitic Protozoa *Giardia* and *Entamoeba* spp in Water-Treatment Plants, Egypt

Abstract:

Polluted water with parasitic protozoa (*Giardia lamblia* and *Entamoeba histolytica*) causes many serious health problems like diarrhea and gastrointestinal diseases. The present study investigated the applicability of solar energy for disinfection of parasitic protozoa in polluted water. One-side blackened bottles of two liters volume each were continuously exposed to direct sun light for about seven hours which maintained water temperature in the range of 50 - 60 °C that was enough for destroying most of the encysted parasitic protozoa. Complete destruction of the encysted protozoa was achieved in both bottles facing south and those vertically in position at 60 °C with an ambient temperature of 40 °C. The influence of water temperature against the viability of these two cysts was found to be highly significant ($P < 0.001$) in both cases particularly those of *Giardia* where its regression coefficient equal -1.5 compared to that of *Entamoeba* (-1.27). The low cost and operational simplicity of this study make it affordable and usable. It is more useful in rural areas where other sources of energy like electricity and gas are not easily available. And it leads to achieve sustainable development at these areas .

