

CURRICULUM VITAE



NAME: Ebtessam Abd El-Hamid Ibrahim El-Bestawy.
DATE OF BIRTH: 2/1/62, Alexandria
SEX: Female
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PRESENT POST:

Professor of Environmental Microbiology & Biotechnology, Department of Environmental Studies, Institute of Graduate Studies and Research, Alexandria University, Egypt (21/6/2016-Now)

PREVIOUSPOSTS:

1. **Professor of Environmental Microbiology & Biotechnology**, Department of Life Sciences, Faculty of Science, King Abdul Aziz University, Jeddah, Kingdom of Saudi Arabia (18/10/2008-20/6/2016).
2. **Professor of Environmental Microbiology & Biotechnology**, Department of Environmental Studies, Institute of Graduate Studies and Research, Alexandria University, Egypt (28/5/2006- 15/10/2008)
3. **Associate Professor of Environmental Sciences**, Department of Environmental Studies, Institute of Graduate Studies and Research, Alexandria University, Egypt.
4. **Lecturer** of Environmental Microbiology, Department of Environmental Studies, Institute of Graduate Studies and Research, Alexandria University, Egypt

5. **Associate Lecturer** of Environmental Microbiology, Department of Environmental Studies, Institute of Graduate Studies and Research, Alexandria University, Egypt

QUALIFICATIONS:

- ❖ B.Sc. Geology, 1984, Faculty of Science, Alexandria University, Alexandria, Egypt.
- ❖ M.Sc. Environmental Microbiology, 1989, Dept. of Environmental Studies, Institute of Graduate Studies and Research, Alexandria University, Alexandria, Egypt.
Thesis title: "Studies on Pollutant from Sewage Disposal in the Coastal Area of Alexandria: Bacteria"
- ❖ Transfer Report, Environmental Microbiology, Dept. of Environmental Biology, 1990, Manchester University, Manchester, U.K.
Thesis title: "Studies on the Occurrence and Cycling of Pollutant Metals in Freshwater Phytoplankton and Bacteria, with Special Reference to Lake Mariut, Alexandria, Egypt"
- ❖ Ph.D. Environmental Microbiology, 1993, Dept. of Environmental Biology, Faculty of Science, Manchester University, Manchester, U.K.
Thesis title: "Studies on the Occurrence and Distribution of Pollutant Metals in Freshwater Phytoplankton and Bacteria in Lake Mariut, Alexandria, Egypt"

EXPERIENCES:

- ❖ Chemical and biological treatment of wastewater.
- ❖ Determination and specification of organic and inorganic water pollutants using:
 - Atomic absorption spectrophotometry.
 - Electron microscopy (SEM & TEM).
 - Auto-analyzer.
 - Gas chromatography
- ❖ X-Ray microanalytical techniques for metal determination in microbiological samples (bacteria & algae) as well as soil samples.
- ❖ Environmental impact of industrial and municipal wastewater on receiving water.
- ❖ Isolation and identification of environmental microorganisms (bacteria & algae) using traditional & modern classification techniques.
- ❖ Manipulation of microorganisms (bacteria-algae) in the biocontrol of different toxic environmental pollutants either in water or soil.

TRAINING COURSES:

Attended and Contributed in the Following Training Courses:

1. Development of Executive Leadership Skills (Dec. 2017), Alexandria University.
2. Leadership and Strategic Thoughts (Dec. 2017), Alexandria University.
3. University Financial Aspects (29 & 30 Nov. 2017), Alexandria University.
4. University Laws and Regulations (22 & 23 Nov. 2017), Alexandria University.
5. Innovation in Solving Problems and Decision Making (15 & 16 Nov. 2017), Alexandria University.
6. Elements of Quality in Teaching (2014), Faculty of Science, King Abdulaziz University.
7. Scientific Publication (Oct. 2013), Faculty of Science, King Abdulaziz University.
8. Endnote (2013), Faculty of Science, King Abdulaziz University.
9. Intensive Course on Bioremediation of Pesticide-Contaminated soils (17 July- 31 August 2010), Institute of Graduate Studies & Research (IGSR), Alexandria University.
10. Industrial Wastewater Treatment Technologies (Mars 2008), Ins.
11. Domestic Wastewater Treatment Methods & Technologies (April 2008), IGSR, Alexandria University.
12. & 13. Occupational Health & Safety (April 2006 & 2007) IGSR, Alexandria University.
14. Credit Hour System (Starting Date 25/02/2006) IGSR, Alexandria University.
15. Managerial Skills (Starting Date 13/08/2005) IGSR, Alexandria University.
16. Carrier Ethics and Manners (Starting Date 25/06/2005) IGSR, Alexandria University.
16. Modern Approaches in Teaching (Starting Date 9/04/2005) IGSR, Alexandria University.
17. Decision Making & Problems Solution (Starting Date 9/04/2005) IGSR, Alexandria University.
18. Priority Management & Work Stress (Start Date 26/3/2005) IGSR, Alexandria University.
19. Risk Assessment and Control of Environmental Pollutants (April 1997) IGSR, Alexandria University.
20. Wastewater Treatment. Basic Science and Practical Solutions (2-5 December 1996) IGSR, Alexandria University.
21. Soil Pollution (Oct - 1995) IGSR, Alexandria University.
22. Training Course on Domestic Waste and Sanitation (April-May 1995) IGSR, Alexandria University.
23. Air Pollution Training Course (April-May 1995) IGSR, Alexandria University.
24. Biotechnological Recycling of Environmental Waste (Sept. 1994) IGSR, Alexandria University.
25. Instruments used in Environmental Biotechnology (April- May 1994) IGSR, Alexandria University.
26. Industrial Waste Management (June, 1993) IGSR, Alexandria University.
27. Biodegradation of Crude Oil (June, 1993) IGSR, Alexandria University.

CONFERENCES & SYMPOSIUMS (Attachments)

21. Participation in the 6th International Conference on Sustainable Solid Waste Management, 13-16 June 2018, Naxos Island, Greece, www.naxos2018.uest with two posters titled:

1. Efficiency of Immobilized Cyanobacteria in Heavy Metals Removal from Industrial Effluents
2. Stimulatory And/ Or Inhibitory Effects of Heavy Metals-Contaminated Effluents on Biochemical Characteristics of Some Selected Cyanobacteria

20. Participation in the 13th International Water Association (IWA) Specialized Conference on Small Water and Wastewater Systems (SWWS) together with the 5th IWA Specialized Conference on Resources-Oriented Sanitation (ROS) held on September 14-16, 2016 in Athens, Greece with two posters titled:

1. "Efficiency of *Pseudomonas stutzeri* Strain M15-10-3 in the Treatment of Leather Tanning Industrial Wastewater Using Gravel Biofilm System"
2. "Enhanced Treatment of Contaminated Domestic Wastewater Using Bacterial Consortium Biofilm"

19. Participation in the World Congress and Expo on "Applied Microbiology" held on August 18-20, 2015 in Frankfurt, Germany with poster titled:

"Residue Analysis and Biodegradation of Atrazine in Open Field and Indoor Cultures"

18. Participation in the 5th World Congress on Biotechnology" held on June 25-27, 2014 in Valencia Conference Centre, Valencia, Spain with 4 posters titled:

1. Bioremediation of the recalcitrant atrazine - contaminated soil using some bacterial strains
2. "Inhibitory effect and biodegradation of Chlorinated hydrocarbons by selected freshwater bacteria"
3. "Decontamination of Domestic Wastewater Using Suspended Individual and Mixed Bacteria in Batch System"
4. "Efficiency of Heavy Metals Bioaccumulation Using Free-Living Cyanobacteria"
5. "Bioremediation of the Recalcitrant Atrazine-Contaminated Soil Using Some Bacterial Strains"

17. Participation in the 14th International Biotechnology Symposium and Exhibition "Biotechnology for the Sustainability of Human Society", Palacongressi, Rimini – Italy, 14-18 September 2010 with a poster titled:

"Bioremediation of Heavy Metals from Sewage Sludge Using Isolated Indigenous Bacteria"

16. Participation in the 19th International Conference on "Environment Protection is a Life Must", Alexandria, 16-18 May 2009 with a paper titled:

"A Study on the Quality Improvement of the Sanitary Primary-Treated Effluent at the Eastern Wastewater Treatment Plant in Alexandria Using a Bench- Scale Activated Sludge Unit"

15. Participation in the 2nd International Conference on Environmental, Industrial and Applied Microbiology, Seville, Spain, 28 November - 1 December 2007 with two papers titled:

1. **"Pollution Control in Pulp and Paper Industrial Effluents Using Integrated Chemical-Biological Treatment Sequences"**
2. **"Treatment of Mixed Domestic-Industrial Wastewater Using Cyanobacteria"**

14. Participation in the Training Program on "The Remediation of Contaminated Sites", Alexandria, 12-16 August 2007.

13. Participation in the 17th International Conference on "Environment Protection is a Life Must", Alexandria, 12-14 May 2007 with a paper titled:

"A Modified Trickling Filter for Treating Primary Effluent at WWTP in Alexandria"

12. Participation in the 1st International Conference on Environmental, Industrial and Applied Microbiology, Badajoz, Spain, 15-18 March 2005 with two papers titled:

1. **"Beneficial Use of Environmental Species of Cyanobacteria for Remediation of Lindane-Contaminated Effluents"**
2. **"Effect of Nutrient Amendments and Sterilization on Mineralization and/or Biodegradation of ¹⁴C-Labeled MCPP by Soil Bacteria under Aerobic Conditions"**

11. Participation in the 7th Arab International Conference on Material Science: Recycling and Reuse of Materials, Alexandria, 17-20 March 2002 with two papers titled:

1. "Characterization and Biological Treatment of Fiber-Rich Effluent from Pulp and Paper Industry in Alexandria"
- 2." Bioremediation of Oil from Polluted Wastewater Using Sand Biofilm System"
10. Participation in Ain Shams University First Conference on Biotechnology, 22nd -24th December 2001 with a paper titled:
"Inhibitory Effect & Biodegradation of Chlorinated Hydrocarbons by Selected Fresh Water Bacteria"
9. Participation in the Eighth Symposium on the Chemistry and Fate of Modern Pesticides, August 21-24, 2001 Copenhagen, Denmark with a poster titled:
"Toxicity and Biodegradation of Fluometuron by Selected Members of Cyanobacteria"
8. Participation in the Six International Water Technology Conference (IWTC), 23-25 March (2001), Alexandria, Egypt with a paper titled:
"Biological Treatment of Chromium Contaminated–Tannery Effluents"
7. Participation in "The British Water Seminar Programme", UK-Egypt Partnership Seminar, September (2000), Alexandria, Egypt.
6. Participation in the 3rd International Conference on the Role of Engineering towards a Better Environment (RETBE), vol. 1: Environmental Integration for a New Millennium, 18-20 Nov. (2000), Alexandria, Egypt with a paper titled:
"Chemical Treatment of Chromium in the Industrial Effluent around Alexandria"
5. Participation in the "International Conference on Environmental Management, Health and Sustainable Development", 22-25 March, 1999, Alexandria with 5 Papers titled:
 1. Bioaccumulation of Heavy Metals by Selected Bacteria Isolated from Brackish Water
 2. Removing Chromium from Tannery Wastewater Effluent Using a Bench Sand Biofilm
 3. Selective Bioaccumulation of a Combination of Heavy Metals by a Range of Brackish Water Bacteria
 4. Biodegradation of Selected Chlorinated Pesticides from Lake Mariut Ecosystem

5. "X-ray Microanalytical Study on *Cyclotella meneghiniana* (Bacillariophyceae) as an Indicator for Metal Pollution in Marine and Fresh water Environments"

4. Participation in the "Workshop on the Rehabilitation of Lake Mariut", 13-14 March 1999 organized by The University of Alexandria & The University of London in cooperation with Alexandria British Council & AGOSD with a paper titled:

"Pollution in Lake Mariut"

3. Participation in the "Biological X-ray Microanalysis Meeting", Cardiff University, Cardiff, UK, March 1992 with a poster titled:

"X-ray Microanalytical Studies on Phytoplankton and Suspended Matter in a Polluted Freshwater Environment: Lake Mariut, Egypt"

2. Participation in the First Anglo-Egyptian Conference on Bioscience and Technology, held at the Institute of Graduate Studies and Research, Alexandria University during the period 10-15 November, 1990 with a paper titled:

"The Potential Use of *Spirulina* from Lake Mariut, Alexandria as a Food Resource"

1. Participation in the "First Symposium on Environmental Sciences" held at the Institute of Graduate Studies & Research, Alexandria University, during the period 6-7 April 1988 with a paper titled:

"Studies on Pollutants from Sewage Disposal in the Coastal Area of Alexandria: Bacteria"

POST DOC. AWARDS (Attachment No. 5):

1. Oct.-Dec. 1994, U.K., Dept. of Environmental Biology and Cell & Structural Biology: Studies on aquatic microbiology (bacteria- algae), particularly their ability to absorb and accumulate heavy metal pollutants was carried out.
2. Feb.-May 1998, U.K., Department of Cell and Structural Biology. During the course of this visit studies on molecular characterization of fresh water blue-green algae were carried out. The work concentrated on strain variation within species of the major bloom-forming algae *Anabaena* and *Microcystis*. This involved:
 - i) The preparation of DNA from axenic culture of four different strains of the single colony *Microcystis auroginosa* and three different species of *Anabaena* (*cylindrica*, *flosaquea*, and *spiroides*).

- ii) PCR amplification of variable regions between highly conserved gene pairs. Future protocol designed for the sequencing of the amplification products, with strain differentiation in terms of the DNA sequence. This will be followed by characterization of genetically distinct strains in terms of their growth and toxin production (using HPLC) and their occurrence in naturally occurring blooms.
3. Sep. 1999, U. K., School of Biological Sciences, Manchester University, Continuation of research in the field of environmental microbiology & biotechnology.
 4. Nine months award (9 Dec. 2000 – 26 August 2001) in the Dept. of Environmental Sciences and Engineering, Technical University of Denmark carrying out “Detailed Studies on Biodegradation of Pesticides”.
 5. Scientific visit to Oak Ridge National Laboratory (ORNL), Tennessee, USA under the Egyptian- American Science & Technology Program (13 June – 1 July 2004).

Teaching Activities

1. Institute of Graduate Studies & Research, Alexandria University

Basic Courses

A. MSc Courses

- Applied Ecology
- Effect of Pollution on Plants & Animals
- Applied Microbiology
- Environmental Biotechnology

PhD Courses

- Control of Hazardous Wastes
- Industrial Pollution Control

Special and Elective Courses

- Special and Elective Courses related to research points of postgraduate students at Environmental Studies and Biotechnology Departments.

مقررات بحثية واختيارية (Special and Elective Courses) مرتبطة بالنقاط البحثية لطلاب السنة الثانية ماجستير تحت إشرافى العلمى بقسمى الدراسات البيئية والتكنولوجيا الحيوية.

2. Faculty of Science, King Abdulaziz University, Saudi Arabia

Special and Elective Courses for the Under and Postgraduate Students at department of Biological Sciences, Faculty of Science, King Abdulaziz University, Saudi Arabia (Attached)

- مقررات اساسية واختيارية لطالبات البكالوريوس والدراسات العليا بقسم علوم الاحياء- كلية العلوم- جامعة الملك عبد العزيز بالمملكة العربية السعودية (مرفق)

SUPERVISION on POSTGRADUATES (Attachments)

Supervised and still supervising many of the scientific theses in the departments of Environmental Studies and Biotechnology at the Institute of Graduate Studies & Research as well as Faculty of Science. Of these theses, **10 PhD(s), 25 MSc(s) and 30 Diploma** are already approved by Alexandria and King Abdul-Aziz Universities while **24 MSc(s) and one PhD** are still under my supervision (Attachment).

Editing Activity at International Journals (Attachments 6-8)

1. Editorial Member and Reviewer at the World Journal of Microbiology and Biotechnology (Attachment No 7).
2. Reviewer at the International Journal of Environmental Science & Technology (Attachment No 8).
3. Reviewer at the Journal of Applied Water Sciences.
4. Reviewer at the Journal of Hazardous Materials.
5. Reviewer at the Journal Applied Phycology.
6. Reviewer at the Int. J. Phytoremediation.
7. Reviewer at the Journal of 3 Biotech.
8. Reviewer at the Egyptian Journal of Botany (Academy of Scientific Research and Technology).
9. Journal of Natural Sciences (Al Azhar University – Gaza).
10. Participation in reviewing and editing conferences proceedings in the field of biotechnologies, bioremediation, and soil pollution.

RESEARCH PROJECTS (Attachment No. 2)

1. King Abdulaziz University General Research Project

Title: Screening Study on Marine Bacterial Strains for Decontamination of Atrazine-Polluted Water

Project Duration: 9 months starting Oct. 2017

Principal Investigator: Dr. Sanaa Ghazi Alattas, Dept. Biological Sciences, Faculty of Science, King Abdulaziz University

Role: Consultant

State: Starting

2. King Abdulaziz University Distinct Research Study

Title: Genetic Characterization of *Pseudomonas stutzeri* Strain M15-10-3, the Highly Efficient Cr Accumulator isolated from Leather Tanning Industrial Wastewater.

Project Duration: 8 months starting Oct. 2016

Principal Investigator: Dr. Alawiah Mohammad Alhebshi, Dept. Biological Sciences, Faculty of Science. King Abdulaziz University

Role: Consultant

State: In Progress

3. King Abdulaziz University Distinct Research Study

Title: Residue Analysis and Biodegradation of Atrazine in Open Field and Indoor Cultures.

Project Duration: 8 months starting Oct. 2016

Principal Investigator: Dr. Nidal Mohammed Zabermawi, Dept. Biological Sciences, Faculty of Science. King Abdulaziz University

Role: Consultant

State: Finished

Outcome:

Publication: Ebtesam EI-Bestawy and Nidal Zabermawi (2017). Residue Analysis and Biodegradation of Atrazine in Open Field and Indoor Cultures. *Merit Research Journal of Agricultural Science and Soil Science*(MRJASSS:ISSN: 2350-2274),5(7): 128-141. Online <http://meritresearchjournals.org/asss/index.htm>

4. Egyptian Swiss Development Fund (ESDF) Project for "Community Resources Development in Villages 7 & 8, Abbis.

Title:Environmental Survey Prior To the Implementation of the Sanitation Component at Abbis, Villages 7 & 8, Alexandria.

Project Duration: March- September 2007.

Principal Investigator: Prof. Hesham Zaki Ibrahim, Institute of Graduate Studies & Research, Alexandria University

+ Prof. E. EL-Bestawy contributed in the project research activities by the following:

- ❖ Environmental Monitoring of chemical and bacteriological Pollutants in the water samples collected from thirty different selected sites of the canals distributed in the Abbis, Villages 7 & 8 to characterize pollution strength at these canals which are used for irrigation as well as drainage.
- ❖ Bacteriological analysis of agricultural soil and crops at the same sites of the study area to provide baseline environmental conditions in the study area and their satellite villages, before the implementation of the sanitary sewage provision. Thirty stations distributed in the study area were selected. Air, soil, water and plants were sampled from the selected sites and quality parameters were determined for each compartment.
- ❖ Sharing in writing up and revising the Draft and Final Reports.

5. University Linkage Project (ULP) No. 417, Joint EGYPT-USA project

Title: Isolation of Cyanobacterial Strains from Lake Quaron and Analysis of Their Ability to Degrade Organic Pollutants.

Project Duration: April 2001- January 2003

Principal Investigators: Prof. Aly Zein El-Aabdin Abd El-Salam, Ain Shams University & Dr. Tanya Kurtz, Tennessee University

✚ **Prof. E. EL-Bestawy** contributed in the project research activities by the following:

- ❖ Investigated the biodegradative abilities of different cyanobacterial strains isolated and identified by Ain Shams Genetic Engineering & Biotechnology against Lindane, one of the most persistent chlorinated hydrocarbons at two elevated concentrations and different exposure times.
- ❖ Compared their biodegradation capabilities with those of other cyanobacterial members isolated and identified from L. Mariut, Alexandria, a highly pesticides-contaminated lake.
- ❖ Investigated the toxic effects of Lindane on the growth of different selected strains as chlorophyll a content.

Outcome:

1. Presenting a paper in the "1st International Conference on Environmental, Industrial and Applied Microbiology, Padajoz, Spain, 15-18 March 2005 (Accepted 15 June 2005 in the International J. of Biodeterioration & Biodegradation).
2. Publication: **Ebtasam El-Bestawy**; Ali Z. Abd El-Salam and Abd El-Rahman H. Mansy (2007). Potential Use of Environmental Cyanobacterial Species in Bioremediation of Lindane-Contaminated Effluents. *International Biodeterioration and Biodegradation*, 59 (3): 180-192. DOI:10.1016/j.ibiod.2006.12.005.

6. El-Amria Petroleum Refinery Project

Title: Modification of Production Processes and Enhancement of Handling Processes to minimize wastes at El-Amria Petroleum Refinery.

Funding: Academy of Scientific Research and Technology

Project Duration: April 1994- April 1996

Principal Investigator: Prof. Shacker Helmi El-Sayed, Institute of Graduate Studies & Research, Alexandria University

✚ **Prof. E.EL-Bestawy** contributed in the project research activities where she carried out the Environmental Monitoring of Pollutants through chemical and microbiological characterization of El-Amria Refinery Effluents taken from twelve different selected sites inside the refinery either operational or treatment units.

EVALUATION OF RESEARCH PROJECTS (Attachment No. 3)

1. Kingdom of Saudi Arabia

King Abdul Aziz City for Science & Technology (KACST)-GDRG

مدينة الملك عبدالعزيز للعلوم والتقنية- الإدارة العامة لمنح البحوث

Proposal No:08-BIO10-06 - National Science, Technology and Innovation Plan (NSTIP)

Date: Sep/2009 to Sep/2011

Project Title:

In Vitro insect cell culture protocol for Pest Control and Molecular Biology studies

2. Kingdom of Saudi Arabia

King Abdul Aziz City for Science & Technology (KACST)-GDRG

مدينة الملك عبدالعزيز للعلوم والتقنية- الإدارة العامة لمنح البحوث

Proposal No: ARP-34-417-البحوث المشتركة الكبيرة

Date: 8/ 11/2013

Project Title:

"مكافحة التصحر بالمعالجة الحيوية لمتبقيات المبيدات فى التربة الملوثة بالمملكة العربية السعودية"
"Combating desertification by Bioremediation of pesticide residues in Saudi Arabia polluted soils".

3. Kazakhstan كازاخستان

National Centre of Science and Technology Evaluation

Ministry of Education and Science

Astana, Republic of Kazakhstan

Proposal No:1426

Date: 18/ 12/ 2011

Project Title:

"Development and implementation of new home-based nanobiopreparation poligumates and various microorganisms to increase grain yields"

Proposal No:1612

Date: 18/ 12/ 2011

Project Title:

"Estimation of climate impact on spruce growth and insect outbreaks in the Zailyskiy Alatau in order to develop new bark-beetle control bioproducts"

Awards (Certificates Attached):

1. Nominated for Women Appreciation Award [2017](#) from the Academy of Scientific Research and Technology, Egypt
2. Environmental Researches Award [2015](#) from the Academy of Scientific Research and Technology, Egypt
3. KAU President's for Creativity [2014](#) (Technical Creativity Category)
4. Alexandria University Award for Excellent Scientific Publication of one Research [2013](#).
5. Alexandria University Award for Excellent Scientific Publication of one Research [2011](#).
6. King Abdul Aziz University Award for Excellent Scientific Publication [1430-1431\(2009-2010\)](#).
7. Alexandria University Award for Excellent Scientific Publication of Eight Researches [2010](#).
8. Academy of Scientific Research and Technology Award for Environmental Researches [2009](#)
9. King Abdul Aziz University Award for Excellent Scientific Publication [1429-1430\(2008-2009\)](#).
10. Arab Woman Award in Science & Technology for Development [2008](#) in the field of Environmental Sciences.
11. Alexandria University Award for Excellent Scientific Publication of two Researches [2008](#).
12. Alexandria University Award for having Mostafa Kamal Tolba Award [2006](#).
13. Prof. Mostafa Kamal Tolba Award in Environmental Sciences [2005](#).
14. University Award for Scientific Encouragement in the Modern & Advanced Sciences (Biotechnology) [2004](#).

Appreciation, Acknowledgment & Congratulation (Certificates & Letters Attached):

1. Dean's Congratulation Letter for the achievement of University Scientific Encouragement Award in the Modern & Advanced Sciences (Biotechnology) [2004](#).
2. University' President's Congratulation Letter for the achievement of University Scientific Encouragement Award in the Modern & Advanced Sciences (Biotechnology) [2004](#).
3. Congratulation Letter from the President of the Academy of Scientific Research & Technology for the achievement of Prof. Mostafa Kamal Tolba Award in Environmental Sciences [2005](#).
4. Congratulation Letter from the Minister of High Education & Scientific Research for the achievement of Prof. Mostafa Kamal Tolba Award in Environmental Sciences [2005](#).
5. University' President's Congratulation Letter for the achievement of Arab Women Organization Award [2008](#).
6. Arab Women Organization General Director Congratulation Letter for the achievement of Arab Women Organization Award [2008](#).

7. Congratulation Letter from the Dean of Scientific Research, KAU for the achievement of for Excellent Scientific Publication Award [1429-1430 \(2008-2009\)](#).
8. Congratulation Letter from the Minister of High Education & Scientific Research for the achievement of Environmental Researches Award [2009](#).
9. Congratulation Letter from the President of the Academy of Scientific Research & Technology for the achievement of Environmental Researches Award [2009](#).
10. University' President's Congratulation Letter for the achievement of Environmental Researches Award [2009](#).
11. Appreciation Certificate from Faculty of Science, KAU for Contribution in the Second Scientific Postgraduates Meeting, [2010](#).
12. Appreciation Certificate from Faculty of Science, KAU for Contribution in the Third Scientific Students Meeting, [2011](#).
13. Appreciation Certificate from Faculty of Science, KAU for Contribution in the Fourth Scientific Students Meeting, [2012](#).
14. Appreciation Certificate from Faculty of Science, KAU for Contribution in the Fifth Scientific Students Meeting, [2013](#).
15. Appreciation & Acknowledgement Letter from Director of Research and Innovation Unit [2013](#).
16. Appreciation letter from the Head of Biological Sciences Dept. for the achievement of KAU President's for Creativity Award [2014](#).
17. Congratulation Letter from the President of the Academy of Scientific Research & Technology for the achievement of Environmental Researches Award [2015](#).
18. Excellence Certificate in Scientific Research from Faculty of Science, KAU.
19. Appreciation Certificate from Faculty of Science, KAU for Contribution in the Scientific Faculties Meetings- Basic & Natural Sciences, [2015](#).
20. Appreciation Certificate from Faculty of Science, KAU for Supervision of one of the submitted researches in the Scientific Faculties Meetings- Basic & Natural Sciences, [2015](#).
21. Acknowledgment & Appreciation letter from the Head of Biological Sciences Dept. [2016](#).

LIST OF PUBLICATIONS:

1. [EI-Bestawy Ebtasam](#); Saber Jamal; Amer Ranya and Aljdibi Lama (2018). Treatability of Pharmaceuticals Effluent Using Free Living Bacteria in a Batch Mode. *Desalination & Water Treatment (In Press)*.
2. [EI-Bestawy Ebtasam](#)(2018). Efficiency off Immobilized Cyanobacteria in Heavy Metals Removal from Industrial Effluents. *Desalination & Water Treatment(Accepted)*.

3. **EI-Bestawy Ebtesam (2018)**. Stimulatory And/ Or Inhibitory Effects of Heavy Metals--Contaminated Effluents on Biochemical Characteristics of Some Selected Cyanobacteria. (In Press).
4. **EI-Bestawy Ebtesam** and Aburokba Reham (2017). Efficiency of *Pseudomonas stutzeri* Strain M15-10-3 in the Treatment of Leather Tanning Industrial Wastewater Using Gravel Biofilm System. *Desalination & Water Treatment* 91: 175–184. DOI: 10.5004/dwt.2017.21209.
5. **EI-Bestawy Ebtesam** and Kashmeri Rzaz (2017). Enhanced Treatment of Contaminated Domestic Wastewater Using Bacterial Consortium Biofilm. *Desalination & Water Treatment* 91:64–73. DOI: 10.5004/dwt.2017.21369.
6. **Ebtesam EI-Bestawy** and Nidal Zaber mawi(2017). Residue Analysis and Biodegradation of Atrazine in Open Field and Indoor Cultures. *Merit Research Journal of Agricultural Science and Soil Science*(MRJASSS:ISSN: 2350-2274),5(7): 128-141. Online <http://meritresearchjournals.org/asss/index.htm>
7. Mohamed Elfeki, **Ebtesam Elbestawy**, Emil Tkadlec (2017). Bioconversion of Egypt's Agricultural Wastes into Biogas and Compost, A Review. *Pol. J. Environ. Stud.* 26(6): 1-10. DOI: 10.15244/pjoes/69938.
8. **Ebtesam A. EI.Bestawy**; Youssery M. Gohar and Sahar M. Wefky(2017). Antimicrobial Phenolic Compounds from *Enterococcus fascism* S29 (EU 158188): Characterization and Production Optimization. *International J. Environmental Science & Technology*, 14: 497–508. DOI 10.1007/s13762-016-1161-6.
9. **Ebtesam EI-Bestawy**; Mohamed A. Rashad; Mohamed M. Yacoutt and Elsayed E. Hafez (2017). Arsenate Resistance Genes in Egyptian Rice Cultivars as Pollution Sensors. *Environ. Poll. Health*(Accepted).
10. **Ebtesam EI.Bestawy**; Jamal Sabir; Abd El-Rhman Mansy and Nidal Zaber mawi(2014). Comparison among the efficiency of different bioremediation technologies of Atrazine–contaminated soils. *Journal of Bioremediation & Biodegradation*(ISSN: 2155-6199 JBRBD), 5(3),<http://dx.doi.org/10.4172/2155-6199.1000237>.
11. **Ebtesam EI.Bestawy**; Abd El-Rhman Hassan Mansy, Ahmed Morsy Attia and Hoda Zahran (2014). Biodegradation of persistent chlorinated hydrocarbons using selected freshwater bacteria. *Journal of Bioremediation*

&Biodegradation(ISSN: 2155-6199 JBRBD),5(4),<http://dx.doi.org/10.4172/2155-6199.1000226>.

12. **Ebtesam El Bestawy**,Ahmed AL-Hejin, Ranya Amer and Rzaz Abdulrazaq Kashmeri(2014).Decontamination of Domestic Wastewater Using Suspended Individual and Mixed Bacteria in Batch System. *Journal of Bioremediation &Biodegradation*(ISSN: 2155-6199 JBRBD),5(5),<http://dx.doi.org/10.4172/2155-6199.1000231>.
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