CURRICULUM VITAE

PERSONAL INFORMATION:

NAME **:** Essam Mohamed Abd El-Aziz Hoballah

NATIONALITY **:** Egyptian

BIRTH DATE **:** 17 April 1961, Cairo, Egypt.

MARITAL STATUS: Married

MAILING ADRESS:

1- Agricultural Microbiology Dept. National Research Centre, Dokki, Giza, Egypt (Phone / 00202- 33335956).
2- Home, D 3 El-Ekhaa Extension, Tourah, Maadi Nile Resort, Cairo Egypt, [Tel- (0202) 27634240 / 27009455 – Mobile 0202-01112818177].

PRESENT POSITION:

Associate Professor at Agricultural Microbiology Dept., National Research Centre, Dokki, Cairo, Egypt

PROFESSIONAL WORK EXPERIENCE:

Assistant Researcher NRC, 1990-1999.
Research Assistant NRC, 2000- 2006.
Researcher NRC, 2006 – 2012.
Associate Professor NRC, 2012 up to now.

HIGHER EDUCATION:

1- B.Sc. in Agricultural Science (Soil Science), Faculty of Agriculture, Giza, Egypt, June 1983, Cairo University Egypt.
2- M. Sc. in Agricultural Science (Agricultural Microbiology) 1999, Faculty of Agriculture in Giza, Cairo University, Egypt, titled

"**The Biological Effects of Some Medicinal Plants on Soil Microflora**"

3- Ph. D. in Agricultural Science (Agricultural Microbiology) 2006, Faculty of Agriculture in Faiyum, Cairo University, Egypt, titled "**Antimicrobial Compounds in Some Local Medicinal Plants**"

AREAS OF PROFICIENCY:

- Environmental Microbiology
- Molecular Biology
- Microbial Ecology
- Bioremediation
- Nano-biotechnology

LANGUAGES:

Arabic, English.

PRIZES:

1- Certificate of **Scientific Exceeding** in Agricultural Soil Science from Faculty of Agriculture, Cairo University, 1982.

2- Prize of the **Best Ph. D. Thesis of the 2006-Year** in Agricultural Science, at the National Research Centre, Giza-Egypt.

ACTIVITIES:

RESEARCH PROJECTS:

1- Member of the research team in the **native project** of "The use of filter mud as organic Fertilizer." from 1990 to 1993, NRC, Cairo, Egypt.

2- Member of the research team in the **native project** of "A Comparison of Safety and Efficacy of Nasal Herbal Drops and Oral Herbs with Each of the Components in the Treatment of Patients with Chronic Hepatitis C" from 1995 to 1998, NRC, Cairo, Egypt.

3- Member of the research team in the **native project** of "Efficacy and Safety of Medicinal Herbs in Chronic Hepatitis C" start date 1995 to 1998, NRC, Cairo, Egypt.

4- Member of the research team in the **native project** of "Modulation of plant-bacteria interactions to enhance tolerance to water deficit for grain legumes in the Mediterranean dry lands" SWERI-ARC, P8, start date 2007 to 2009, NRC, Cairo, Egypt.

5- Member of the research team in the **native project** of "Bio-removal of dyes from textile wastewater for reuse in irrigation", code number 9060301, start date 2010 to 2013, NRC, Cairo, Egypt.
6- Member of the research team in the **native project** of "Bioremediation of Sewaged Soils" project number 1425 – STDF, start date 11/7/2010 to 11/7/2012, NRC, Cairo, Egypt.
7- Member of the research team in the **international project** of "Sustainable Management of Adverse Impact on Farming and Soil Ecosystem Associated With long Term Use of Low Quality Irrigation Water" project number 3033 – STDF, start date 11/9/2011 to 10/9/2013, NRC, Cairo, Egypt.
8- Member of the research team in the **native project** of Strategies for Enhancement of wheat and Barley production under biotic and abiotic stress in Sinai. National Research Centre (from 2013-2016).
9- **Vice president** for specialized unit for production and marketing of medicinal plants and their extracts, NRC, Cairo, Egypt.
10- **Vice president** of production of biofungicides for controlling plant diseases unit (2012-Until now).

PROFESSIONAL TRAINING:

- Training In Envenomations and Toxic Fish (NECTR) The National Egyptian Center for Clinical and Environmental Toxicology Research, Faculty of Medicine, Cairo university, Egypt (23, 24 Arial, 2008).
- Training course on Genetic Fingerprint at Protein and DNA levels. NRC, Cairo, Egypt (May, 2008).
- Training course on Isolation of Protein using Electrophoresis Method, NRC, Cairo, Egypt (May, 2008).
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TEACHING EXPERIENCE:

- Teaching in training courses in **Environmental Microbiology, Microbial Ecology and Natural Products Extraction** for undergraduates from Ain Shams, Cairo University and Al Azhar Univ. (Egypt) **2006 to 2010**.
- Delivered a comprehensive talk on the training workshop on **Field and Laboratory Determinations of Soil, Plant and Irrigating Water (Physical, Chemical and Biological)** sponsored by NRC Training Center, **23-27 January and 6-10 February 2011**.
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SCIENTIFIC CONFERANCES AND VISITS

1- Workshop on Biodiesel Fuel: An Emerging Renewable Source of Energy, held at National Research Center**,** Cairo, Egypt, **March, 24, 2008.**
2- The 4rd **International Conference** of Environmental Research Division under the theme of Environmental Science and Technology. NRC, **Cairo,** Egypt, **April 1-3, 2008.**
3- The **EUROSOIL 2008** Congress, **August 25 - 29, 2008**, in **Vienna, Austria.**
4- The 3rd **International Conference** of Environmental Science and Technology. NRC, **Cairo,** Egypt, **December 14-16, 2010.**

HONORARY MEMBERSHIPS:

1- Member of the Egyptian Society of Applied Microbiology (since, 1990).
2- Member of the Egyptian Society of Soil Sciences (since, 1989).

SUPERVISION

Supervision on Master of Science theses entitled:

- Studies on the Generation of Bio-ethanol from Agricultural Residues and food Processing Wastes, Department of Plant and Microbiology, Faculty of Science, Cairo University, 2011.
- Treatment and Conditioning of Hazardous and Radioactive Wastes, Department of Analytical Chemistry, Faculty of Science, Cairo University, 2011.
- Antimicrobial Activity of Commiphora myrrha Oleo-gum Resin Different Nano- emulsion Extracts Against Some Vaginal Pathogens in Vitro, High Institute of Public Health, Alexandria University, 2012.
- Effect of Nanoparticles and Bio-agents to Induce Resistance in Wheat Plants Against Some Fungal Foliar Diseases, Faculty of Agriculture, Ain Shams University, 2013.
- Screening for some Antimicrobial activity of Some Microalgae in Freshwater and Soil, Faculty of Science, Helwan University, 2013.

Supervision on PhD theses entitled:

- Studies on bioremediation of Potential Toxic Elements in Some Soil and Aquatic Ecosystems, Faculty of Science, Ain Shams University, 2013.

LIST OF INVENTIONS

1- **Shalaby, S.I.A. and HobAllah, E.M.A (2005).** Compositions and treatment methods. United States Patent 6, 841, 174.

2- **HobAllah, E.M.A and Shalaby, S.I.A. (2007).** Method for treating hepatitis C with evaporates of Ecballium elaterium extract. United States Patent 7,282,227.
3- **HobAllah, E.M.A and Shalaby, S.I.A. (2007).** Evaporate of *Ecballium elaterium* fruit extract for treating viral symptoms. United States Patent 7,297,350.
4- **HobAllah, E.M.A. (2009).** *Ecballium elaterium* extract for treating viral symptoms. United States Application Number: 12493237, Confirmation Number: 8978, Receipt Date: 28-JUN-2009.
5- Saber, M.; Zaghloul, A.; Abouziena, H. F. and **Hobballa, E. M. (2013).** Novel Biotechnology for the Decontamination of Sewaged Soils. Egyptian patent (Extracted from STDF project /1425 – STDF), Application Number: 363/2013, Receipt Number: 477960, Date: 28-JUN-2009.

Recorded in Gene Bank: 3 new genes (authors: Attallah, A.G. and HobAllah, E.)

1 HM559221	Microcystis sp. CMI 1 genomic sequence.
2 HM559222	Oscillatoria sp. COS 2 genomic sequence.
3 HM559223	Spirulina sp. CSP 3 genomic sequence.

International Reviewer: Imhotep

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Workshops:

Organized of International Workshop

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Participated

National Workshop

- **Low coast biological nano-preparations used in bioremediation of swaged soils. National research Centre, 2013.**

Events

Invention and Innovation Exhibition

Participated

1. **International Events**

2. **National Events**

In houses

Awarded:

1. Korea Cyber International Genius Fair (CIGIF), **2012**. Gold Prize; Award for the patent titled: Evaporates of *Ecballium elaterium* fruit extract for treating viral symptoms.

2. Korea Cyber International Genius Fair (CIGIF), **2012**. Silver Prize; Award for the patent titled: Methods for treating hepatitis C with evaporates of *Ecballium elaterium* extract.

3. Prize of European Exhibition of Creativity and Innovation (Euroinvent®), Lasi- Romania, May **2013**; Gold medal, Award for the patent titled: Methods for treating hepatitis C with evaporates of *Ecballium elaterium* extract.

4. Prize of European Exhibition of Creativity and Innovation (Euroinvent®), Lasi- Romania, May **2013**; Silver medal Award for the patent titled: Evaporates of Ecballium *elaterium* fruit extract for treating viral symptoms (Nano-emulsion).

LIST OF PUBLICATIONS:

1- Shalaby, S.I.A. and **HobAllah, E.M.A** (1998). Follow-up study of hepatic patients suffering from HCV infection after withdrawal of herbal therapy. Egypt. J. Appl. Sci; 13 (12) 360-365.

2- El-Assiuty, E. M., Fahmy- Zeinab, M., Bekheet-Fawziya, M., Ismael, A. M. and **Hob-Allah, E. M.** (2006). Effect of some medicinal and indigenous plant extracts on some plant pathogens and mycotoxin production *in vitro*. Egypt. J. Agric. Res., 84 (5) 1345-1358.

3- Hoballah, E.; L. Zohdy; M. Saber and I. Hosny (2006**).** Antimicrobial Agents of Some Egyptian Medicinal Plant Hexane Extracts. N. Egypt. J. of Microbiol. 13:131-145.

4- Hoballah, E.; L. Zohdy; M. Saber and I. Hosny (2010). Antimicrobial Potency of Ethanolic Extracts of Some Medicinal Plants. Egypt. J. of Appl. Sci., 25 (6 A) 173-186.

5- El-Sayed, A. B.; Abdel-Maguid, A. A. and **Hoballah, E.M.** (2011). Growth response of *Chlorella vulgaris* to acetate carbon and nitrogen forms. Nature and Science, 9(9): 53-58.

6- Eskander, S. B., Nour El-dien, F.A. , **Hoballa, E.M.** and Hamdy, Kh. (2011). Capability of *lemna gibba* to biosorb cesium-137 and cobalt-60 from simulated hazardous radioactive waste solutions. Journal of Microbiology, Biotechnology and Food Sciences, 1*(2) 148-163*.

7- Saber, M.; **Hoballah, E.**; Azza, Sh. Turky and Doaa, I. Ali (2011). Microbial Decontamination of Enteric Pathogens in Sewaged Soils. Australian Journal of Basic and Applied Science, 5(11): 1312-1320.

8- Saber M.; **Hoballah E.**; Fatma H. Abd-El-Zaher and Eman I. Al-Mowafy (2011). Decontamination of Enteric Pathogens in Sewaged Soils by Certain Organic Amendments. Journal of Biotechnology Research, 11: 1-15.

9- Abouziena, H. H.; Zaghloul, A.; El-Ashry, S.; **Hoballa, E. M.** and Saber, M. (2012). Phytoremediation of Potential Toxic Elements in Contaminated Sewaged Soils by Canola (*Brassica napus*) or Indian mustard (*Brassica juncea* Czern.) Plants in Association with Mycorrhiza. Journal of Applied Sciences Research, 8(4): 2286-2300.

10- El-Sayed, A.B; **Hoballah, E.M.** and Khalafallah, M.A. (2012). Utilization of Citrate Wastes by *Scenedesmus* sp. I- Enhancement of Vegetative Growth. Journal of Applied Sciences Research, 8(2): 739-745.

11- Hoballah, E.; Attallah, A.G. and Abd-El-Aal, S. Kh. (2012). Genetic diversity of some new local strains of cyanobacteria isolated from Wadi El -Natrun, Egypt. International Journal of Academic Research, 4 (2) 314-326.

12- Hoballah, E.; Saber, M.; Azza, Turky Sh. and Hoda, Kabary (2012). Microbial Decontamination of Persistent Organic Pollutants in Sewaged Soils. International Journal of Basic and Applied Science, 1(1): 77-84.

13- Saber, M.; **Hoballah, E.**; Azza, Sh. Turky; El-Ashery, S. and Zaghloul, A. (2012). Microbial Decontamination of Potential Toxic Elements in Sewaged Soils. International Journal of Basic and Applied Science, 1 (1): 85-92.

14- Saber, M.; **Hoballah, E.**; El-Ashery, S. and Alaa Mohamed and Zaghloul, A. (2012). Decontamination of potential toxic elements in sewaged soils by inorganic amendments. J. of Agric. Sci. and Technol. A 2, 1232-1244.

15- Saber, M.; **Hoballah**, E.; El-Ashery, S. and Zaghloul, A.M. (2012). Decontamination of potential toxic elements in sewaged soils by inorganic amendments. J. of Agric. Scie. and Technol. A 2, 1232-1244.

16- El-housseiny, Lamia; **Hoballah, Essam** (2012). Restoring AMs-HDAC1 expression in allergic asthma mice model by novel medicinal plant extract (nano-emulsion). Abstract book of International Severe Asthma Forum (ISAF2012), Gothenburg, Sweden, 11-13 October, 2012.

17- Abouziena, H. F., Zaghloul, A., El-Ashry, S., **Hobballa, E. M.** and Saber, M. (2013). Some chemical and biological additives with hyperaccumulator plants for amendment the sandy soil contaminated for long term by sewage water. 5th International Conference on Water Resources and Arid Environments (ICWRAE 5): 414-424.

18- Abouziena, H. F.; Saber, M.; **Hoballah, E.;** El-Ashry, S. and Zaghloul, A. M. (2013). Yield attributes and oil safety in the hyperaccumulator canola plant grown in a bioremediated sewaged soil. Journal of Agricultural Science and Technology A 3 1010-1016.

19- Abouziena, H. F. A.; Zaghloul, A.; El-Ashry, S.; **Hobballa, E.** and Saber, M.(2013). Some chemical and biological additives with hyperaccumulator plants for amendment the sandy soil contaminated for long term by sewage water. International Journal of Water Resources and Arid Environments 3(1): 15-25.

20- Abdelraouf, R.E., El-Habbasha, S.F., Hozayn, M., **Hoballah, E.** (2013). Water stress mitigation on growth, yield and quality traits of wheat (*Triticum aestivum* L.) using biofertilizer inoculation. Journal of Applied Sciences Research, 9(3): 2135-2145.

21- **Hoballah E**, Saber M, Matter I, and Zaghloul A (2014). Bioremediation of aliphatic hydrocarbons in a sewaged soil by certain remediative amendments followed by phytoremediation. Res. J. of Pharma. Biological and Chem. Scie. 5(1) 769-788.

22- Saber M, **Hoballah E**, Matter I, and Zaghloul A. (2014). Bioremediation of chlorinated hydrocarbons in a sewaged soil by certain remediative amendments followed by phytoremediation. Res. J. of Pharma. Biological and Chem. Scie. 5(2) 83-90.

23- **Hoballah E**, Saber M, Matter I and Zaghloul A. (2014). Bioremediation of polychlorinated biphenyl (pcbs) in a sewaged soil by certain remediative amendments followed by phytoremediation. Res. J. of Pharma. Biological and Chem. Scie. 5(2) 91-103.

24- Haggag, W. and **Hoballa, E.** (2014). Food, agriculture and microbes. Internat. J. of Agric. Innov. and Res., 2(4) 2319-1473.

25- Abdelraouf, R. E.; **Hoballah, E.** and Horia, M. A. (2014). Reuse of drainage water of fish ponds in soybean cultivation under sprinkler irrigation system. *Internat. J. of Plant & Soil Sci., 3(6): 644-658.*

26- Wafaa-Haggag, W., Abd El Kreem, F., and **Hoballa, E.** (2014). Marine Streptomycetes: Characteristics and Their Antifungal Activities. Research J. of Pharmaceutical, Biological and Chemical Sciences, 5(5): 651-656.

27- Nawal- Hassanain, A., Hassanain, M. A., Fatma -Abd-El-Zaher, H., Azza-Turkey, Sh., **Hobballa, E. A.**, and Saber, M. S. M. (2014). Decontamination of Enteric Pathogens in Sewage Irrigated Soil by Solarization and Desiccation. American-Eurasian J. Agric. & Environ. Sci., 14 (9): 894-898.

28- Hassanain, M. A., Nawal-Hassanain, A., **Hobballa, E. A.**, Fatma - Abd- El Zaher, H. and Saber, M. S. M. (2014). Existence and Decontamination of HVC, Infectious Enteric Bacteria and Parasites in Sewaged Soils. J. of Advances in Agriculture, 3(1): 150-158.

29- Frag, A., Abouziena, H. F., Saber, M., **Hoballah, E. M.**, Fatma-Abd-El-Zaher and Zaghloul, A.M. (2014). Economic Feasibility Study on the Use of Certain Amendments in the Bioremediation of Sewaged Soil. Int. J. of Plant & Soil Sci., 3(10): 1182-1199.