

Assiut University
Faculty of Science
Botany and Microbiology Department



CURRICULUM VITAE

A- Personal information

Name : Prof. Dr. Abdel-Raouf Mahmoud Ahmed Khallil.

Present Job : Head of Botany and Microbiology Department.

Academic position: Professor of Microbiology (Mycology).

Nationality : Egyptian.

Marital status : Married - Three children.

General speciality: Microbiology.

Fine speciality: Mycology (Aquatic fungi)

Research interest: Biodiversity and Eco-physiology of Aquatic fungi.

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Homepages:- - <http://scholar.google.com/citations?user=rrgd4YYAAAAJ&hl=en>

- http://www.aun.edu.eg/arabic/membercv.php?M_ID=247

- https://www.researchgate.net/profile/Abdel-Raouf_Khallil



B- Academic qualifications

a- B.Sc. (Botany), June, 1979; Faculty of Science, Assiut University, Assiut, Egypt.

b- M.Sc.(Botany, Microbiology); June, 1984; Assiut University, Egypt.

The title is "Studies on aquatic fungi in El-Ibrahimia canal, Upper Egypt".

c- Ph. D. (Microbiology, water fungi); July, 1987; Assiut University, Egypt.

The title is " Field and laboratory studies on aquatic phycomycetes in Delta region".

C- Academic positions

- a- Sept., 2001 – till now: Professor of Mycology , Botany Dept., Faculty of Science, Assiut University, Egypt.
- b- Oct., 1995 - Sept., 2001: Assistant professor, Botany Dept., Faculty of Science, Assiut University, Egypt.
- c- Sept., 1987- Oct., 1995 : Lecturer, Botany Dept., Faculty of Science, Assiut University, Assiut, Egypt.
- d- July, 1984 - August, 1987 : Assistant lecturer, Botany Dept., Faculty of Science, Assiut University.
- e- Oct., 1979 - July, 1984: Instructor, Botany Dept., Faculty of Science, Assiut University.

D- Scientific experience

1- Research experience:

I am mycologist with particular interest in the biodiversity, taxonomy, ecophysiology and conservation of fungi, and my special interest is water-inhabiting fungi (either Zoosporic or Hyphomycetes) and Terrestrial fungi. My publication list include more than sixty papers which appeared in international and national journals and symposiums. These papers concerned mainly with the biodiversity and ecophysiology of water-inhabiting fungi with special attention to aquatic fungi (zoosporic and aquatic Hyphomycetes) and terrestrial fungi. Association and interrelationship between these fungi and other water organisms (particularly fish, leeches, macro-invertebrates, aquatic plants...etc) as well as the effects of various water pollutants on these fungi were also undertaken. The antimicrobial activities of some algal extracts and some synthesized organic compounds were also investigated.

The outline of these papers can be summarized in the following points:

- a- Isolation, identification, Biodiversity, occurrence and seasonal fluctuations of zoosporic and terrestrial fungi as well as aquatic hyphomycetes inhabiting several water areas (Freshwater, brackish and saline water, accumulated rain, wells, hot springs), submerged mud, soil (cultivated, desert and salt marshes) and deciduous leaves in water streams. The relationships of fungal abundance and diversity with some physico-chemical characters were also considered.
- b- Association and relationships of these fungi with some other water-inhabiting organisms (Fishes and fish diseases, leeches, macro-invertebrates, Aquatic plants) in addition to effect of some zoosporic fungal metabolites on some algal species.
- d- Occurrence and distribution of zoosporic and terrestrial fungi in mangroves.

- e- Occurrence, distribution and population of zoosporic and terrestrial fungi in various water and soil habitats exposed to some pollutants (e.g. sewage, slaughterhouse effluents, some industrial effluents such as superphosphate, cement and sugar cane factories).
- f- Occurrence and distribution of aquatic and terrestrial fungi in some historical, and pharonic ancient region in upper Egypt.
- g- Some physiological studies concerned with the effects of salinity, temperature, pH, some heavy metals and biocides (e.g. herbicides, fungicides, insecticides, molluscicides), some hydrocarbon compounds (Petroleum derivatives), phenolic compounds, some plant extracts on spores germinability, vegetative growth, morphological aspects, sexual and asexual sporulation, extracellular enzymes, some metabolites (carbohydrates, proteins, amino acids, fatty acids) on several fungal species belonging zoosporic and terrestrial fungi. In addition, the pathogenicity and ability of some zoosporic fungi in microbiological transformation of some economic important compounds.
- h- Control of soft rot in citrus fruits and aflatoxin production in juices.
- g- Test the antifungal and antibacterial activity of several synthesized chemical compounds *in vitro*.
- h- Antifungal potential in crude extracts of some marine macro-algae.

2- Reviewer of the Botany Permanent Committee for Promotion Supreme Council of Egyptian Universities.

3-Editorial board Journal of Microscopic Creatures:

(<http://www.annepublishers.com/journals/journal-of-microscopic-creatures/editorial-board.php>)

4- Supervising many successful M. Sc. (10) and Ph. D. (3) Thesis at Assiut, Sohag and Aswan (Egypt), and Misurata (Libya) Universities.

5- External and Internal Examiner of several M. Sc. and Ph. D. Thesis in some Egyptian and Libyan Universities.

6- Evaluation and reviewing several scientific papers in national and international journals (e. g. European J. of Plant Pathology, Netherlands).

6-Teaching Experience: Teaching several courses for the undergraduate and postgraduate students at Assiut, Al-Azhar and South valley (Egypt), Misuarata, EL-Khoms and Al-Jabal Al-Gharby (Libya) Universities.

a- Postgraduate courses are:-

Advanced Mycology, Applied Microbiology, Microbial physiology, Microbial Ecology, Soil Microbiology, Microbial pollution, and Aquatic Microbiology.

b-The undergraduate courses are:-

Mycology, Medical Microbiology, Aquatic fungi, Biology of Aquatic fungi, General Microbiology, Systematic Botany, Archegoniates, Phycology, Plant Morphology, Plant Anatomy, Economic Botany, Cytology, Plant Physiology and General Botany, Phytoplankton, Plant pathology for the students of Faculties of Science, Agriculture, Veterinary medicine and Education as well as for the Pre-Pharmacy, Pre-medicine and Pre-Dentistry students at Assiut, Al-Azhar and South valley (Egypt), El-Khoms, Misuarata, El-Jabal and Al-Gharby (Libya) Universities.

7- Teaching in several workshops which were organized by Assiut University Mycological Center (AUMC) for participants from Egyptian Universities and research centers and Saudi Arabian, Yemeni, and Libyan Universities. Some foreign scientists from Netherlands, South Africa, and Spain were also participated.

8- Conferences and workshops:

More than thirty-five international and local conferences and workshops have been attended.

E- Visiting Professor and Secondments:

- a- Misurata and Naser universities, Libya (1993 – 1999).
- b- Division of Fish diseases, Nippon University, Tokyo, Japan (1/8 – 31/10/2005).
- c- University of Al-Jabal Al-Gharby (Libya), Sept., 2007.

F-Membership:

- a- The Pan African Medical Mycology Society.
- b- The Academic committee of Assiut University Mycological Center (AUMC).
- c- The Egyptian Society of Microbiology.
- d- The Egyptian Society of Botany.
- e- Quality Assurance accreditation Project (Faculty of Science, Assiut University).
- f- Member of College council.
- g- Member of Botany Department council.
- h- Member of several committees either in Botany Dept. or Faculty of Science, Assiut University.

G- Projects and some other activities:

- a- Preparing and submitting a project entitled " Development and Elaboration of Microbiology Teaching Program for the Bachelor Degree of Science" for HEEPF as principle manager (PM) at Feb., 2005, but not financed.
- b- Preparing and submitting a research project entitled" Evaluation and control of microbial fish pathogens for enhancing food security and alleviating poverty in Egypt" for STDF as a principle investigator at June, 2011 (ID: 4256), but not financed.
- c- Preparing and submitting a research project entitled" Utilization of Mycobiota For Biodiesel Production" for STDF as a principle investigator at June, 2011 (ID: 4672), but not financed.
- d- An assistant coordinator for B. Sc. Teaching Programs (Microbiology& Chemistry and Botany&Chemistry), at July, 2005.
- e- Preparing some university notes for undergraduate or postgraduate students in Egyptian and Libyan Universities (e.g. An Introduction in Aquatic fungi, Biology of aquatic fungi, An Introduction in Mycology and Phycology, Microbial pollution, Microbial Physiology, Medical Microbiology, Plant Pathology, General Botany).
- f- Contributing in foundation and establishment of Aquatic Mycological Lab in Botany and Microbiology Department.

List of Publication

- 1- **Khallil, A. M.** ; Daghman, I. M. and Abdel-Jallel F. A. (2015): Antifungal Potential in Crude Extracts of Five Selected Brown Seaweeds Collected From the Western Libya Coast. *Journal of Microscopic Creatures*, 1 (1): 103 - 111.
- 2- Daghman. I. M.; **Khallil, A.M.** and Fady, A.A (2015): Potency of some marine macro-algal extracts against three Species of *Candida*. *Al-Satil J., Misurata University, Libya*. 12 (2): 43 -53.
- 3- Hasan, A. H. and **Khallil, A. M.** (2006): Control of Soft Rot in *Citrus* Fruits and Aflatoxin Production in Juices. *Assuit Univ. J. of Botany* 35(2): 149 - 161.
- 4- Aboul-Fadl, T. and **Khallil, A. M.** (2003): Synthesis, degradation kinetics and *in-vitro* antimicrobial activity of tetrahydro-2H-1,3,5-thiadiazine-2-thion derivatives of some B-

amino acids. *Arzneim. Forsch. Drug Res.* 53 (7): 526 – 531.

- 5- El-Soull, M. M.; **Khallil, A. M.** and El-Meheeshy, F. M. (2002): Effect of some heavy metals on soil-borne zoosporic and terrestrial fungi at Misaurata region (Libya). 8th Symposium on Aquatic Microbial, 25-30 October, 2002, Taormina, Messina, Italy .
- 6- Aboul-Fadl, T.; Hussein, M. A.; El-Shorbagi, A. and **Khallil, A. M.** (2002): New 2-H-tetrahydro-1,3,5-thiadiazine-2-thiones incorporating glycine and glycineamide as potential antifungal agents. *Arch. Pharm. Pharm. Med. Chem.* 9 (335): 438 – 442.
- 7- Nassar, M. S.; **Khallil, A. M.**; El-Hissy Farida, T. and Abdel-Motaal Fatma F. (2002): Terrestrial fungi from water and submerged mud polluted by the industrial effluents (Aswan, Egypt). *Online J. Biol. Sciences* 2 (2): 124 – 129.
- 8- **Khallil, A. M.**; Nassar, M. S.; El-Hissy, F. T. and Abdel-Motaal, F. F.(2002): Zoosporic fungi recovered from water and submerged mud polluted with industrial effluents of Kom Ombo sugar cane factory (Upper Egypt). *Proc. 2nd international Conf. Biol. Sci., Fac. Sci., Tanta Univ.* 27-28 April, 2002, Egypt, 2: 341 – 355.
- 9- El-Hissy, F.T.; El-Nagdy, M.A.; **Khallil, A. M.** and Ali, E. H. (2002): Effect of some pesticides on growth, morphological aspects and reproduction of thre zoosporic fungi. *Proc. 3rd International Conf. On Biopesticides* 257- 266, 22 – 26 April, 2002, Kuala Lumpur, Malaysia.
- 10- Hussein, M.A.; El-Shorbagi, A. and **Khallil, A. M.** (2001): Synthesis and antifungal activity of 3,3'- ethylenebis (5-alkyl-1,3,5- thiadiazine-2-thiones). *Arch. Pharm. Pharm. Med. Chem.* 334: 305- 308.
- 11- El-Hissy, F. T.; Nassar, M. S.; **Khallil, A. M.** and Abdel-Motaal, F. F. (2001): Aquatic fungi recovered from water and submerged mud polluted with industrial effluents. *Online J. of Biological Science*, 1(9): 854 – 858.
- 12- **Khallil, A. M.** and Abdel-Sater, M. A. (2001): Growth and some metabolic activities of two terrestrial fungi as affected some heavy metal salts. *Bull. Fac. Sci., Assiut Univ.*, 30 (1-D): 135-145.
- 13- **Khallil, A. M.** (2001): Impact of some phenolic compounds on biodiversity, growth and morphological aspects of some water inhabiting fungi. *El-Minia Sci. Bull., El-Minia Univ.*, 13(2) & 14 (1): 99 – 112.
- 14- **Khallil, A. M.** (2001): Ingoldian and other filamentous fungi of hot springs. *Bull. Fac. Sci., Assiut Univ.*, 30 (1-D): 21- 31.
- 15- **Khallil, A. M.** (2001): Phytofungitoxic properties in aqueous extracts of some plants . *Pakistan J. of Biol. Science*, 4 (4): 392 - 394.

- 16- Khallil, A. M. (2001):** Response of two zoosporic fungi to various levels of salinization. El-Minia Sci. Bull., El-Minia Univ., 13(2) & 14 (1): 85 – 98.
- 17 - Khallil, A. M. (2000):** Potency of uccmaluscide (Molluscicide) on some water inhabiting fungi. 7th European Marine Microbiology Symposium organised jointly with the 7th International workshop on the Measurement of Microbial Activities in the Carbon Cycle in Aquatic Environments, 17 - 22 Sept., 2000, Netherlands. Bull. Fac. Sci., Assiut Univ., 29 (2-D): 107 – 118.
- 18- Khallil, A. M.;** Salama, F.M. and El-Zidany, R.(2000): Incidence of microfungi in some water bodies at Misurata region(Libya). Bull.Fac. Sci., Assiut Univ., 29(1-D): 189-198.
- 19- Khallil, A. M.;** El-Soll, M. M. and El-Meheeshy,F. .M.(2000): Diversity of soil-borne zoosporic and terrestrial fungi at Misaurata region (Libya). Bull. Fac. Sci., Assiut Univ., 29 (2-D): 303 - 312.
- 20- Khallil, A. M.;** El-Nagdy, M. A. and Ali, E.H.(2000): Some metabolic activities of three zoosporic fungi as affected by Vitavax 300 (fungicide). Bull. Fac.Sci., Assiut Univ., 29 (2-D): 27 - 37.
- 21- El-Nagdy, M.A.;** **Khallil, A. M.** and Ali, E. H.(2000): Influence of Roundup (herbicide) on three zoosporic fungi.Bull.Fac. Sci., Assiut Univ., 29 (2-D): 39-46.
- 22- Khallil, A.M.** and Adam, M. S.(1998): Responses of *Chlorella fusca* to products released by two zoosporic fungi. Bull., Fac. Sci. Assiut Univ., 27 (2-D):1-11.
- 23- El-Hissy, F.T.;** El-Zayat, S. A.;
- Khallil, A.M.** and Massoud, M.S.(1997): Aquatic fungi from the submerged mud of Aswan High Dam Lake. Microbiol. Res. 152:27-32.
- 24- Khallil, A. M.** and Moustafa, M. Eman (1996): Microbiological transformation of progesterone by some zoosporic fungi. J. Basic Microbiol. 36 (4): 255-259.
- 25- Khallil, A. M.;** El-Hissy, F. T. and Ali, E. H (1995): Seasonal fluctuations of aquatic fungi recovered from Egyptian Soil (Delta region). 1. Basic Microbiol. 35 (2): 93-102.
- 26- Omar, S. A.;** Abdel-Sater, M. A.;
- Khallil, A. M.** and Abd-Alla, M. H. (1994): Growth and enzyme activities of fungi and bacteria in soil salinized with sodium chloride. Folia Microbiol. 39 (1): 23-28.
- 27- El-Hissy, F. T.;** **Khallil, A. M.** and Ali, E. H. (1994): Aquatic phycomycetes from Egyptian soil (Delta region). Microbiol. Res. 149: 27 1 -282.
- 28- Khallil, A. M.** and Ammar, M. M. (1994): Water and terrestnal fungal flora in Misurata (Libya). Bull. Fac. Sci., Assiut Univ., 23 (2-D): 39-65.
- 29- Khallil, A. M. (1994):** Effect of four heavy metals on some metabolic activities of three zoosporic fungi. Bull. Fac. Sci., Assiut Univ., 23 (2-D): 67-86.

- 30- Hemida, S. K., Bagy, M. K. and **Khallil, A. M.** (1993): Fungal flora of cement polluted soils in Egypt. *Zentralbl. Mikrobiol.* 148: 148-157.
- 31- El-Hissy, F. T.; **Khallil, A. M.** and Abdel-Raheem; A. (1993): Effect of some heavy metals on the mycelial growth of *Achlya racemosa* and *Alatospora acuminata*. *Zentralbl. Mikrobiol.* 148: 535-542.
- 32- **Khallil, A. M.** and Omar, S. A.(1993):Influence of the insecticide Dimethoate on some metabolic activities of five zoosporic fungi. *J. Basic Microbiol.* 33 (6): 405-411.
- 33- Abdel-Sater, M. A.; **Khallil, A. M.**; Ismail, M. A. and Ahmed, S. A., (1993): Effect of paraquat and Amytryne on soil, root and leaf-surfaces fungi of *Solanum tuberosum L.* *Zentralbl. Mikrobiol.* 148: 558-569.
- 34- Hemida; S. K.; Bagy, M. K. and **Khallil, A. M.** (1993): Utilization of hydrocarbons by fungi. *Cryptogamie-Mycologie.* 14 (3): 207-213.
- 35- **Khallil, A. M.**; El-Hissy, F. T. and Abdel-Raheem, A. (1993): Monthly variations of Oomycetes (Zoosporic Fungi) and aquatic Hyphomycetes at Sohag (Upper Egypt). *Acta Societatis Botanicorum Poloniae,* 62: 67-73.
- 36- El-Nagdy, M. A.; Abdel-Hafez, S. 1. and **Khallil, A. M.**(1992):The incidence of zoosporic and terrestrial fungi in the accumulated rainfall water and mud in Saudi Arabia. *Bull. Fac. of Science, Assiut Univ.,* 21 (2-D): 75-91.
- 37- El-Hissy, Farida T.; **Khallil, A. M.** and Abdel-Raheem, A. (1992): Occurrence and distribution of zoosporic fungi and aquatic hyphomycetes in Upper Egypt. *J. Islamic Acad. Sci.,* 5 (3): 173- 179.
- 38- El-Nagdy, M. A.; **Khallil, A. M.** and Hemida, S. K. (1992): Fungi inhabiting soil and water in lower Egypt. *Bull. Fac. Sci. Assiut. Univ.,* 21 (1-D): 165-181.
- 39- Abdel-Hafez, A. I. and **Khallil, A. M.** (1992): Occurrence of zoosporic and other moulds in water and mud from slaughterhouse and tanyard at Assiut (Egypt). *Zentralbl. Mikrobiol.,* 147: 513-528.
- 40- **Khallil, A. M.** and Abdel-Sater, M. A. (1992): Fungi from Water, Soil and Air Polluted by the Industrial Effluents of Manquabad Superphosphate Factory (Assiut, Egypt). *International Biodeterioration and Biodegradation,* 30: 363-386.
- 41- El-Hissy, F. T.; **Khallil, A. M.** and El-Nagdy, M. A. (1991): Mycoflora of water pools in the vicinity of some ancient pharonic temples in Upper Egypt. *J. Islam. Acad. Sci.* 4: 293 – 296.
- 42- Bagy, M. M.; **Khallil, A. M.** and Obuid-Allah, A. H. (1991): Fungi inhabiting some aquatic macro-invertebrates of the Nile at Egypt. *Zentralbl. Mikrobiol.,* 147 (7): 459-475.

- 43- **Khallil, A. M.**; El-Hissy F. T. and Bagy, M. K. (1991): Mycoflora of mangrove of Red Sea in Egypt. *Folia Microbiol.*, 36 (5): 456- 464.
- 44- **Khallil A. M.** and Abdel-Sater, M. A. (1991): Zoosporic and terrestrial fungi in soils of mangrove at Egyptian Red Sea Coast. *Bull. Fac. Sci., Assiut Univ.*, 20 (2D): 113- 121.
- 45- Ahmed, S. M. and **Khallil, A. M.** (1991): Some investigations on saprolegniasis in *Tilapia* species at Assiut. *Assiut Vet. Med.* 25 (50): 125- 131.
- 46- **Khallil, A. M.**; Bagy M K and El- Shimy N. A. (1991): Mycoflora associated with five species of freshwater leeches. *J. Basic Microbiol.*, 31 (6): 437- 446.
- 47- El- Nagdy, M. A and **Khallil, A. M.** (1991): Aquatic fungi recovered from sewage effluents (Assiut, Egypt). *Zentralbl Mikrobiol.*, 146(3): 237- 243.
- 48- El- Hissy, F. T. and **Khallil, A. M.** (1991): Distribution and seasonal occurrence of aquatic phycomycetes in water and submerged mud in El-Ibrahimia canal (upper Egypt). *J. Islam. Acad. Sci.* 4:311- 316.
- 49- El- Hissy, F.T.; **Khallil, A. M.** and El-Nagdy, M. A. (1990): Fungi associated with some aquatic plants collected from freshwater areas at Assiut (Egypt). *J. Islam. Acad. Sci.*, 3: 298- 304.
- 50- **Khallil, A. M.**; Ahmed S. M. and Ahmed, L. S. (1990): A microbiological study on two species of Nile fishes (Egypt). *Assiut Vet. Med. J.*, 23 (46): 88- 96.
- 51- **Khallil, A. M.** (1990): Mycoflora associated with some freshwater plants collected from Delta region (Egypt). *J. Basic Microbiol.*, 30 (9): 664- 674.
- 52- El- Hissy, F.T. and **Khallil, A. M.** (1989): Studies on aquatic fungi in Delta region (Egypt). *Zentralbl. Mikrobiol.*, 144: 421- 432.
- 53- El- Hissy, F.T. and **Khallil, A. M.** (1989): Combined effects of salinity and temperature on some morphological aspects of four zoosporic fungi. *J. Basic Microbiol.*, 29 (5): 281- 289.
- 54- El- Hissy, F.T.; **Khallil, A. M.** and El-Nagdy, M. A. (1989): Aquatic fungi associated with seven species of Nile fishes (Egypt). *Zentralbl. Mikrobiol.*, 144: 305-314.

Papers were submitted to the Third and Fourth Sci. Conf. on Environ. and Natural Resources, Taiz Univ. (Yemen), accepted for presentation but not published and it is intended to re-submit for publication:-

- 55- Farida. T. El-Hissy; El-Nagdy, M. A.; **Khallil, A. M.** and Abdulla, Q. Y. (2007): Zoosporic fungi inhabiting surface water and submerged mud at Assiut (Egypt) and Sana'a (Yemen). *The Fourth Sci. Conf. on Environ. and Natural Resources, Taiz Univ.*

(Yemen), 14 – 16 May 2007.

- 56-** El-Hissy, F. T.; **Khallil, A. M.**, El-Nagdy, M. A. and Abdulla, Q. Y. (2007): Biodiversity, some morphological aspects and metabolic activities of three zoosporic fungal species isolated from Sana'a (Yemen) and Assiut (Egypt) as affected by two molluscicides. The Fourth Sci. Conf. on Environ. and Natural Resources, Taiz Univ. (Yemen), 14 – 16 May 2007.
- 57-** Bagy, M. M.; **Khallil, A. M.**; El-Enany, A. E. and Osman, R. A. (2007): Seasonal variations of zoosporic and terrestrial fungi inhabiting sewage at Assiut (Upper Egypt). The Fourth Sci. Conf. on Environ. and Natural Resources, Taiz Univ. (Yemen), 14 – 16 May 2007.
- 58-** **Khallil, A. M.**; Bagy, M. M.; El-Enany, A. E. and Osman, R. A. (2005): Monthly fluctuations of zoosporic and terrestrial fungi inhabiting sewage at Assiut (Upper Egypt). The Third Sci. Conf. on Environ. And Natural Resources, Taiz Univ. (Yemen), 3 – 5 May 2005.

Papers under preparation for submission:-

- 59-** El-Enany, A. E.; **Khallil, A. M.**; Bagy, M. M. and Osman, R. A.: Response of some fungal species to various levels of Cadmium. Submitted for publication.
- 60- Khallil A. M:** Air-borne Fungal Biodiversity in Outdoor and Indoor of Some Hospital Environments at Misurata (Libya).