



Curriculum vitae

Prof. Dr. Hamed El- Sayed Abou-Aly



*Professor of Agricultural Microbiology
Benha University*

Name: Hamed El-Sayed Abou-Aly
Department: Agric. Botany (Microbiology)
College: Fac. of Agric., Benha Univ., Egypt.
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Academic Record:

Degree	Date/Year	Place
Ph.D.(Agric. Microbiology)	July, 1996	Zagazig Univ., Benha branch
M. Sc.(Agric. Microbiology)	July, 1992	Zagazig Univ., Benha branch
B. Sc. (Food Science)	June, 1987	Zagazig Univ., Benha branch

Professions

	Date From - to	Organization	Country	Position	Department
1	25/9/1987 – 15/8/1992	Fac. Agric., Zagazig Univ., Benha branch	Egypt	Demonstrator	Agricultural Microbiology
2	15/8/1992- 20/8/1996	Fac. Agric., Zagazig Univ., Benha branch	Egypt	Associate lecturer	Agricultural Microbiology
3	20/8/1996 – 23/12/2003	Fac. Agric., Zagazig Univ., Benha branch	Egypt	Lecturer	Agricultural Microbiology
4	23/12/2003 – 30/7/2009	Fac. Agric., Zagazig Univ., Benha branch	Egypt	Associate Professor	Agricultural Microbiology
5	30/7/2009 up to now	Fac. Agric., Benha Univ.	Egypt	Professor	Agricultural Microbiology

Member of: - Egyptian Society of Applied Microbiology
- Agricultural Chemistry & Environment Protection Society
- Egyptian Society of Botany

Areas of research

- Bio-treatment of wastes by using microbial enzymes
- Biodegradation of pesticides
- Biofertilization
- Biological control
- Industrial fermentation
- Food safety

Language skills

Language	Reading	Speaking	Writing
Arabic	Excellent	Excellent	Excellent
English	Excellent	Very Good	Very Good

Experience:

1- Teaching:

- Teaching many of courses at undergraduate level.
- Teaching more than twenty course at postgraduate level

2-Research:

- Published 40 papers in many conferences, Symposiums and journals.
- Approved 12 Ph D/ M Sc. theses in agric. microbiology.
- Supervisor on 25 Ph D/ M Sc. theses in agric. microbiology.

3-Conferences:

- Conference of Egyptian Society of Toxicology. Fac. Agric., Moshtohor, Egypt, March 15-16, 1995.
- The Ninth Conference of Microbiology. Cairo, Egypt, March, 1997.
- International Symposium on Biological Nitrogen Fixation and Crop Production. Cairo, Egypt, May 11-13, 1999.
- The First Conference of Statistical Applications in Agriculture. Moshtohor, Egypt, November, 2000.
- The fifth Arabian Horticulture Conference, Ismailia, Egypt, March 24-28, 2001
- International Conference on Microbiology and Biotechnology in Favour of Man and Environment in Africa and Arab Region and Exhibition. Mansoura, April 27-29, 2004.
- The First Scientific Conference of the Agriculture Chemistry and Environment Society. "Clean Environment and Safe Food". Cairo, Egypt, December 5-7, 2006.

- The Twelfth Conference of Microbiology. Cairo, Egypt, March 18-20, 2007.
- 4th Scientific Conference of the Agricultural & Biological Research Division. National Research Centre, Cairo, Egypt, May 5-6, 2008.
- 1st International conference on biotechnology applications in agriculture, Benha University, Moshtohor-Hurghada, 18-22 February 2012, Egypt.
- 2nd Minia International Conference “Agriculture and Irrigation in Nil Basin Countries” 23-25 March, 2015, Minia, Egypt.

4-Other experience:

- Passing through many language sessions.
- Passing through "Word Processing" prepared by Central Unit of IT Training (Supreme Council of Universities).
- Passing through "Using Computers and Managing Files" prepared by Central Unit of IT Training (Supreme Council of Universities).
- Passing through "Presentations" prepared by Central Unit of IT Training (Supreme Council of Universities).
- Passing through 6 sessions for faculty and leadership development project.
- Participle in establishment of course specification and course program.
- Passing through “Strategic Planning for Higher Education” from 11-13/7/2010.
- Passing through “National Academic Reference Standards” from 18-20/7/2010.
- Passing through “Accreditation References for Higher Education” from 24-26/10/2010.

5-Activities:

- Member of resource development committee, Fac, Agric., Benha Univ. 2012
- Member of the board of directors of central lab., Fac. Agric., Benha Univ.
- Member of the search team for production of microbial pesticides 2010-2013.
- Coordinator of development of student’s assessment systems project (DSASP), Benha Univ.2011-2012
- Member of Quality Assurance Unit, Fac. Agric., Benha Univ. 2012
- Member of strategic planning unit, Fac. Agric., Benha Univ.
- Coordinator of seminar meeting in Agric. Botany Dept.2007-2010
- Coordinator of master program of agricultural microbiology,2011-2014.
- Member of Agricultural Fertilizers Unit, Agric. Analyses & Consultations Center, Fac, Agric., Benha Univ.
- Manager of microbial biotechnology and fermentation research lab. 2015

6-PhD/MSc Supervision and Approved

Title	PhD/ MSc	Year completed/ in progress
1-Citric acid production by microorganisms	M.Sc.	2004
2-Proteinase enzyme production by microorganisms	M.Sc.	2004
3-Microbiological studies on microbial spoilage control of some foods	Ph.D.	2004
4-Effect of biofertilizers on the productivity of <i>Nigella sativa</i> cultivated in desert sandy soils and efficiency of produced seeds against some pathogenic microorganisms	Ph.D.	2006
5- Biofertilization and micro-elements spraying efficiency on growth and yield of lupine plants	M.Sc.	2009
06) Microbial enzymes for the degradation of lignocelluloses	Ph.D.	2010
07) Microbiological studies on water pollution in Dakahlia governorate	Ph.D.	2010
08) Microbiological studies on the contamination of certain cosmetic products by microorganisms.	M.Sc.	2012
09) Effectiveness of inoculation with thermophilic microorganisms on compost maturity acceleration.	Ph.D.	2012
10) Increasing effectiveness of growth promoting microorganisms to improve vegetable crops quality under saline stress.	Ph.D.	2012
11) Evaluation of some yeast strains for single cell protein production	M.Sc.	2013
12) Biocides production for using in quality improvement of some vegetable crops.	M.Sc.	2013
13) Microbiological studies on chitosan production by microorganisms.	M.Sc.	2013
14) Microbial safety and risk factors of street-vended dairy products and ready-to eat foods.	Ph.D.	2013
15) Biochemical studies on municipal solid wastes to produce biogas and organic manure.	M.Sc.	2014
16) Improving faba bean productivity using biofertilizers under stress conditions	Ph.D.	in progress
17-Application of biofertilization and foliar feeding in pea production	M.Sc.	2015
18) Using of biofertilization and biological control for cowpea productivity	Ph.D.	in progress
19) Using of probiotics to improve properties of some personal care products.	Ph.D.	in progress

20) Application of endophytes as a biofertilizers for growth and quality improving of some vegetable crops (sep. 2013)	Ph.D.	in progress
21) Biochemical studies on anaerobic fermentation of some agricultural wastes	Ph.D.	in progress
22) Evaluation of some microorganisms as potential heavy metals bioremoval agents	M.Sc.	in progress
23) Microbiological studies on post-harvest diseases in citrus	M.Sc.	in progress
24) Enhancement of some vegetable plants productivity by using PGPR under organic agriculture	Ph.D.	in progress
25) Potential probiotic characteristics of some lactic acid bacteria	M.Sc.	in progress
26) Biosynthesis of nan-particles by microorganisms and study their efficiency as biocontrol agents	M.Sc.	in progress
27)		

7-PhD/MSc Approved

Title	PhD/ MSc	Year	Univ.
Biodegradation of some pesticides by soil microorganisms	M.Sc.	2004	Zagazig
The application of biofertilization and biological control for tomato production	M.Sc.	2005	Zagazig
Microbiological studies on the bacterial and fungal contamination under strawberry tissue culture conditions	M.Sc.	2007	Benha
Studies on microbial production of pullulan	M.Sc.	2008	Mansoura
Bio-organic farming efficiency on yield and quality of some medicinal plants	Ph.D.	2009	Benha
Occurrence and behavior of <i>Klebsiella</i> in market milk	M.Sc.	2010	Mansoura
A study on the relations between different nitrogen fixing consortia and their effects on growth and yield of rice	Ph.D.	2012	Mansoura
Studies on inulinase production bacteria	M.Sc.	2013	Mansoura
Studies on some therapeutic bacteria	Ph.D.	2014	Mansoura
Engineering and environmental parameters for biofertilizers production and other products	Ph.D.	2014	Benha

Fungal decontamination of Ras chees during storage by using some natural substances	M.Sc.	2014	Damietta
Microbiological studies on some covered cake samples in local market	M.Sc.	2015	Damietta

8-Teaching

8.1. Courses at under graduate level

01-	Agric. Microbiology
02-	Principles of Agric. Microbiology (for Agric. Engineering)
03-	Soil Microbiology
04-	Microbial enzymes
05-	Biotechnology of microorganisms
06-	Applied Microbiology

8.2. Courses at post graduate level

01-	Bacterial physiology
02-	Biofertilization
03-	Biological treatment
04-	Microbial enzymes
05-	Microbial relations
06-	Microbiology of environmental habitant (soil) advanced
07-	Microbiology of environmental habitant (food) advanced
08-	Microbiology of environment pollution
09-	Microbiology of fermentation
10.	Microbiology of sewage and water
11.	Pathogenic bacteria
12.	Production of biological substances
13.	Recycling and reusing of wastes
14.	Viruses of bacteria
15.	Taxonomy of bacteria
16.	Yeasts

9.List of Publications

- 01-Neweigy, N.A.; **Abou-Aly, H.E.**; Azza, Ismail, A.; Tewfike, T.A. and Nayl,A.A. (2003) Production and purification of protease from *Bacillus subtilis* and *Bacillus coagulans* and using the enzyme for improvement and accelerating Domiati cheese ripening. Annals of Agric. Sci., Moshtohor, 41(3): 1089-1102.
- 02- Neweigy, N. A. and **Abou-Aly, H.E.** (2003).Degumming of silk fibers by protease from *Bacillus subtilis*. J. Agric. Sci., Mansoura Univ., 28 (6): 5031-5041.
- 03- **Abou-Aly, H.E.** (2001). Co-inoculation effect with *Rhizobium* and *Azospirillum* on growth, nodulation and yield of guar plant (*Cyamopsis tetragonoloba L.*). Annals of Agric. Sci., Moshtohor, 39(4):2171-2181
- 04- Tewfike, T.A. and **Abou-Aly, H.E.** (2000). Biofertilization influence of tomato seeds and seedlings by non-symbiotic N₂-fixers on tomato plant growth and *Fusarium* disease severity. J. Agric. Sci., Mansoura Univ., 25(11): 7107-7120
- 05- **Abou-Aly, H.E.** and Tewfike, T.A. (2001). Maximizing gibberellic acid productivity by *Fusarium moniliforme* and its effect on *Saccaromyces* growth. Annals of Agric. Sci., Moshtohor, 39(1):185-195
- 06- Zaghloul, R.A. and **Abou-Aly, H.E.** (2002). Influence of biofertilization with *Bradyrhizobium* and phosphate solubilizing bacteria and micronutrients application on growth and yield of soybean. Annals of Agric. Sci., Moshtohor, 40(2):885-905
- 07-**Abou-Aly, H.E.** and Gomaa, A.O. (2002). Influence of combined inoculation with diazotrophs and phosphate solubilizers on growth, yield and volatile oil content of coriander plants (*Coriandrum sativumL.*). Bull. Fac. Agric., Cairo Univ., 53:93-114
- 08-Gomaa, A.O. and **Abou-Aly, H.E.** (2001). Efficiency of biofertilization in the presence of both inorganic and organic fertilizers on growth, yield and chemical constituents of anise plant (*Pimpinella anisum L.*). The fifth Arabian Horticulture conference, Ismailia, Egypt, March 24-28, 11:49-62
- 09-**Abou-Aly, H.E.** (2005).Stimulatory effect of some yeast applications on response of tomato plants to inoculation with biofertilizers. Annals of Agric. Sc., Moshtohor, 43(2): 595-609.
- 10-**Abou-Aly, H.E.**; M.A. Mady and S.A.M. Moussa. (2006). Interaction effect between phosphate dissolving microorganisms and boron on growth, endogenous phytohormones and yield of squash (*Cucurbita pepo L.*). The First Scientific Conference of the Agriculture Chemistry and Environment Society. Cairo, Egypt, December 5-7
- 11- Abou El- Yazeid A., H.E. Abou-Aly, M.A. Mady and S.A.M. Moussa. (2007). Enhancing Growth, Productivity and Quality of Squash Plants Using Phosphate Dissolving Microorganisms (Bio phos-phor®) Combined with Boron Foliar Spray. Research Journal of Agriculture and Biological Sciences, 3(4): 274-286.

- 12- **Abou-Aly, H.E.**, R.A. Zaghoul, N.A. Neweigy, M.R.A. Gad and G.A. Ghonaimy. (2007). Microbial and chemical quality of retailed sausage and antimicrobial effect of essential oils or lactic acid bacteria against foodborne pathogens. The Twelfth Conference of Microbiology. Cairo, Egypt, March 18-20
- 13- **Abou-Aly, H.E.**, N.A. Neweigy, R.A. Zaghoul, M.R.A. Gad and G.A. Ghonaimy. (2007). Elevating control of pathogenic bacteria in fermented and non-fermented sausage using lactic acid bacteria or essential oils. The Twelfth Conference of Microbiology. Cairo, Egypt, March 18-20
- 14- **Abou-Aly, H.E.** (2008). Evaluation of some rhizobacteria as potent biological control agents *in vitro*. Annals of Agric. Sci., Moshtohor, 46(4) :81-90
- 15- **Abou-Aly, H.E.** and M.A. Mady. (2009). Complemented effect of humic acid and biofertilizers on wheat (*Triticum aestivum* L.) productivity. Annals of Agric. Sci., Moshtohor, 47(1) :1-12
- 16- **Abou-Aly, H.E.** (2009). Impact of inoculation with effective strains of plant growth-promoting rhizobacteria on Fusarium wilt of pepper. Annals of Agric. Sci., Moshtohor, 47(1):13-22
- 17- **Abou-Aly, H.E.** and I.N. Nasr. (2009). Acceleration of fenamiphos pesticide degradation in liquid culture and soil by some microorganisms. Egypt. J. Appl. Agric Res. (NRC), 2(1):111-123
- 18- Neweigy N. A.; **Abou-Aly, H. E.** and Jihan, A. Shaaban. (2009). Mutation of *Aspergillus niger* with gamma radiation for improving citric acid production. J. Agric. Sci., Mansoura Univ., 34(5): 4281-4293
- 19- Neweigy, N.A.; M.M.A. El-Sawah; **H.E. Abou-Aly**; R.A. Zaghoul and M.A. El-Hosainey. (2010). Classical and new microbial indicators of drinking water in dakahlia governorate. J. Agric. Chemistry and Biotechnology, Mansoura Univ., 1(5): 275-286
- 20- Neweigy, N.A.; T.M. El-Housseiny; **H.E. Abou-Aly**, H. Zorn and A.A.Salem. (2010). Production and characterization of endoglucanase from *Chaetomium globosum* and its effect on lignocelluloses degradation. Annals of Agric. Sci., Moshtohor, 48(1):
- 21- Rahal, A. GH.; Ehsan A. Hanafy; R. A. Zaghoul; **H. E. Abou-Aly** and Rasha, M. El-Meihy. (2011). Assessment of plant growth promoting rhizobacteria activity under saline stress. Annals of Agric. Sci., Moshtohor, 49(2).
- 22- Abdelnabby, H.M.; H.A.Mohamed and **H. A. Abou-Aly** (2011). Nematode-antagonistic compounds from certain bacterial species. Egyptian Journal of Biological Pest Control, 21(2):209-217
23. Abou El-Yazeid, A and **H.E. Abou-Aly** (2011). Enhancing Growth, Productivity and Quality of Tomato Plants Using Phosphate Solubilizing Microorganisms. Australian Journal of Basic and Applied Sciences, 5(7): 371-379.
- 24- Ehsan, A. Hanafy; R. A. Zaghoul; H. E. Abou-Aly; Alshaymaa, E. Ahmed (2011). Isolation and identification of cellulases producing thermophilic bacteria and their ability to produce xylanases. Annals of Agric. Sci., Moshtohor, 49(4):455-461.

- 25- Zaghoul, R. A.; Ehsan A. Hanafy; **H.E. Abou-Aly**; A.Gh. Rahal and Rasha M. El-Meihy (2012). Using plant growth promoting rhizobacteria for improving tomato growth under saline stress. 1st International conference on biotechnology applications in agriculture, Benha University, Moshtohor-Hurghada, 18-22 February 2012, Egypt.
- 26- **Abou-Aly, H. E.**, R.A. Zaghoul, Ehsan A. Hanafy, A.Gh. Rahal and Rasha M. El-Meihy (2012). Colonization of pepper roots with salt-tolerant PGPR as inducer for saline stress. The eleventh conference of agricultural development researches, 27-30 March, 2012 . Faculty of Agric., Ain Shams Univ., Egypt.
- 27- Ehsan A. Hanafy, R.A. Zaghoul, **H. E. Abou-Aly**, A.Gh. Rahal and Rasha M. El-Meihy (2012). Effect of salt-tolerant PGPR on some microbial and oxidative enzymes activity under saline stress. The eleventh conference of agricultural development researches, 27-30 March, 2012 . Faculty of Agric., Ain Shams Univ., Egypt.
- 28- El-Shenawy, M. A., R.A. Zaghoul; N. A. Neweigy; **H. E. Abou-Aly**; R. K. Eldairouty; W.I. El-Kholy; M. T. Fouad; J. M. Soriano; and J. Mañes (2013). Evaluation of the microbiological quality of street-vended juices sold in Cairo. *J. Food Industries & Nutr. Sci.*, 3(1):69-80.
- 29- Zaghoul, R. A., M. A. El-Shenawy; N. A. Neweigy; **H. E. Abou-Aly**; R. K. Eldairouty; W.I. El-Kholy; M. T. Fouad; J. M. Soriano; J. Mañes and Lydia Micó (2014). *Listeria* spp. and Enterobacteriaceae group in sandwiches of meat and meat products. *British Microbiology Research Journal*, 4(4):360-368.
- 30- **Abou-Aly, H.E.** and M.A. Mady (2014). Complemented effect of glycine betaine and biofertilizers on growth and productivity of sweet pepper (*Capsicum annum* L.) plant under high temperature condition. *J. Plant Production, Mansoura Univ.*, 5(3):505-526.
- 31- Zaghoul R.A.; A.Gh. Rahal; **H. E. Abou-Aly**, Ehsan A. Hanafy, and Rasha M. El-Meihy (2014). Effect of biofertilization and organic manuring on growth performance and chemical composition of tomato under saline stress. 12th Conf. Agric. Dev. Res., Fac. Agric. Ain Shams Univ., Cairo, Egypt, March, 2014. *Annals of Agric. Sci., Sp. Issue*, 59(2): 289- 298.
- 32- **Abou-Aly, H.E.**; R.A. Zaghoul; T.M El-Housseini; G.A.Ghonaimy; Noha M. Ashry (2014) Maximization of chitosan production by *Aspergillus niger* on different culture conditions. 12th Conf. Agric. Dev. Res., Fac. Agric. Ain Shams Univ., Cairo, Egypt, March, 2014. *Annals of Agric. Sci., Sp. Issue*, 59(2): 299- 307.
- 33- Zaghoul R.A.; **H. E. Abou-Aly**; T.M El-Housseni; GH. A. Ghonaimy and Noha M. Ashry (2014). Enhancement of culture conditions for chitosan production by *Rhizopus nigricans*. 12th Conf. Agric. Dev. Res., Fac. Agric. Ain Shams Univ., Cairo, Egypt, March, 2014. *Annals of Agric. Sci., Sp. Issue*, 59(2):309-318.
- 34- Zaghoul, R.A., Neweigy N.A., **Abou-Aly H.E.**, El-Sayed S.A. and Bahloul A.M. (2015). Nematicidal Activity of Some Biocontrol Agents against Root-Knot Nematodes *In-Vitro*. *Research Journal of Pharmaceutical, Biological and Chemical Sciences*, 6(1): 429-438.

- 35- **Abou-Aly, H.E.**, Neweigy N.A., Zaghoul R.A., El-Sayed S.A. and Bahloul A.M. (2015). Evaluation of Some Biocontrol Agents against Soil Pathogenic Fungi. *Research Journal of Pharmaceutical, Biological and Chemical Sciences*, 6(1):439-448.
- 36 -Zaghoul, R.A., **Abou-Aly H.E.**, Neweigy N.A., El-Sayed S.A. and Bahloul A.M. (2015). Antagonistic activity of *Bacillus subtilis* B38 and *Pseudomonas fluorescens* B103 against root-rot and wilting fungi in tomato. 2nd Minia International Conference "Agriculture and Irrigation in Nil Basin Countries" 23-25 March, 2015, Minia, Egypt.
- 37- **Abou-Aly H.E.**, Zaghoul, R.A., Neweigy N.A., El-Sayed S.A. and Bahloul A.M. (2015). Suppression of root-knot nematode (*Meloidogyne incognita*) activity in tomato using biocontrol agent. 2nd Minia International Conference "Agriculture and Irrigation in Nil Basin Countries" 23-25 March, 2015, Minia, Egypt.
- 38- Zaghoul R.A.; **H.E. Abou-Aly**, Rasha M. El-Meihy, Mohamed.Talat. El-Saadony (2015). Improvement of Growth and Yield of Pea Plants Using Integrated Fertilization Management. *Universal Journal of Agricultural Research* 3(4): 135-143.
- 39- Abou-Aly, H. E., M. A. Mady and T. A. Tewfike (2015). Impact of integration between phosphate-solubilizing microorganisms and yeast extract on wheat (*Triticum aestivum* L.) productivity. *Journal of Pure and Applied Microbiology*, 9 (4): 3407-3416.
- 40- Zaghoul, R. A.; **H.E. Abou-Aly**; Ehsan A. Hanafy and M. A. Emam (2015). Microbial contamination of some cosmetics and personal care items in Egypt. *Egypt. J.of Appl. Sci.*, 30(11):424-433.
- 41- **Abou-Aly, H.E**; Zaghoul, R. A.; Ehsan A. Hanafy and M. A. Emam (2015). Effect of some essential oils on microbiological quality of cosmetics products. *Egypt. J.of Appl. Sci.*, 30(11):434-452.
- 42- Zaghoul, R. A.; **H.E. Abou-Aly**; T.M El-Housseni; GH. A. Ghonaimy and Noha M. Ashry (2015). Antibacterial activity of fungal chitosan and some preservatives against some foodborne pathogenic bacteria. *Egypt. J. of Microbiol.*, 50: 31-42.