

CURRICULUM VITAE



PERSONAL DATA

NAME: Mohammed Tawfik Abbas
DATE OF BIRTH: September 12, 1967
PLACE OF BIRTH: El -Mansoura, El-Dakahlia, Egypt
CITIZENSHIP: Egyptian
MILITARY SERVICE: Completed on 1/3/1991
MARITAL STATUS: Married with 4 children
TITLE: Associate Professor of Agricultural Microbiology
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Department of Agricultural Microbiology,
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EDUCATIONAL BACKGROUND

- **B. Sc., (Soil Science), 1989,**
Faculty of Agriculture, Cairo University.

- **M. Sc., (Agricultural Microbiology), 1995,**
Faculty of Agriculture, Cairo University.
Integration of biological N₂-fixing systems to build up biological fertility of desert soils.**M. Sc. Thesis, Environmental Studies and Research Unit, Department of Agricultural Microbiology,**
Faculty of Agriculture, Cairo University, Giza, Egypt.

- **Ph. D., (Agricultural Microbiology), 2000,**
Faculty of Agriculture, Cairo University.
Use of agrotechnologies based on biological N₂-fixation for the benefit of agriculture and environment of Sinai.
Ph. D. Thesis, Environmental Studies and Research Unit, Department of Agricultural Microbiology,
Faculty of Agriculture, Cairo University, Giza, Egypt.

TRAINING COURSES

- The TOEFL Institutional Testing Program, AUC (1993)
- Workshop on Electrophoreses Techniques of DNA, Faculty of Agriculture, Cairo University (1994)
- Workshop on Use of Molecular Biology Techniques in Biological Nitrogen Fixation Research, AGERI, June 18-22, 1995.
- Workshop on Chromatography Analyses using HPLC & GC Instruments, MUST, September 6-11, 2003
- دورة قيم العمل واخلاقيات المهنة وإدارة الوقت فى الفترة من 26-27 ابريل 2011 بكلية الزراعة جامعة القاهرة.
- Workshop on “Your future in Science: Writing and Publishing a scientific paper” on 23 April 2013, Cairo University.
- دورة أخلاقيات البحث العلمى فى الفترة من 25/10 الى 27/10 / 2014 بمركز تنمية قدرات أعضاء هيئة التدريس والقيادات بجامعة أسوان
- دورة النشر العلمى الدولى فى الفترة من 1/11 الى 3/11 / 2014 بمركز تنمية قدرات أعضاء هيئة التدريس والقيادات بجامعة أسوان
- دورة إستخدام التكنولوجيا فى التدريس فى الفترة من 29/12 الى 31/12 / 2014 بمركز تنمية قدرات أعضاء هيئة التدريس والقيادات بجامعة أسوان
- دورة متخصصة فى برنامج التحليلات الأحصائية SPSS فى الفترة من 30/11 الى 3/12/2014 بكلية الزراعة والموارد الطبيعية بأسوان
- دورة توصيف البرامج والمقررات وتقويم نواتج التعلم لمؤسسات التعليم العالى فى الفترة من 28-30 ابريل 2015 -الهيئة القومية لضمان جودة التعليم والأعتماد – جامعة أسوان.
- The first edition of Egyptian Biotech Juniors on 29th October 2015, National Research Center, Giza, Egypt.
- The first edition of The Egyptian Biotechnology Era Seminars on 15th March 2016, National Research Center, Giza, Egypt.
- دورة تدريبية عن: مواصفات الورقة الأمتحانية الجيدة وفقاً للمعايير الأكاديمية 2015-2016- مركز ضمان جودة التعليم - جامعة أسوان
- دورة تدريبية عن: تقويم البرامج الدراسية 2015-2016 - مركز ضمان جودة التعليم - جامعة أسوان
- دورة تدريبية عن: استراتيجيات التعليم والتعلم 2015-2016 -مركز ضمان جودة التعليم - جامعة أسوان

- دورة تدريبية عن: الخطة الاستراتيجية للجامعة والكليات 2015-2016 - مركز ضمان جودة التعليم - جامعة أسوان
- المعرض الدولي الثانى للزراعة والتصدير والأستصلاح (أجرى بيزنيس) فى الفترة من 27-29 ابريل 2016 – مركز المؤتمرات بمدينة نصر
- دورة تدريبية عن: كيفية اعداد الدراسة الذاتية 2015-2016 - مركز ضمان جودة التعليم - جامعة أسوان
- Workshop on Career Success with the New Horizons, US Embassy, December 2016 at the premises of Aswan University.
- Workshop on Microbial Biotechnology Techniques, Faculty of Agriculture, Ain Shams University, September 11-14, 2017.
- Workshop on Research Management of the further domain “Institutional Capacity Building” with the DAAD Kairo Akademie on 9th October 2017 at the premises of Aswan University.
- Workshop on International Networking of the further domain “soft skills for academics” with the DAAD Kairo Akademie on 10th October 2017 at the premises of Aswan University.
- دورة تدريبية عن: نظم الإمتحانات والتقويم وإدارة الكنترولات في 8 نوفمبر 2017 - مركز ضمان جودة التعليم - جامعة أسوان
- ندوة الزراعات اللاارضية وتحديات الغذاء في 21 نوفمبر 2017 -أكاديمية البحث العلمى والتكنولوجيا.
- دورة نظم الأمتحانات وتقويم الطلاب فى الفترة من 1/10 الى 1/11 / 2019 بمركز تنمية قدرات أعضاء هيئة التدريس والقيادات بجامعة أسوان
- دورة أعداد المشروعات التنافسية فى الفترة من 2-3 ابريل 2019 بمركز تنمية قدرات أعضاء هيئة التدريس والقيادات بجامعة أسوان.
- دورة إدارة الوقت والأجتماعات فى الفترة من 27-28 يونيو 2019 بمركز تنمية قدرات أعضاء هيئة التدريس والقيادات بجامعة أسوان.
- دورة تدريبية عن: كتابة المفردة الاختبارية في 28 يوليو 2019 – مركز القياس والتقويم وجامعة اسوان.
- دورة تدريبية عن: إعداد جدول المواصفات في 29 يوليو 2019 – مركز القياس والتقويم وجامعة اسوان.
- دورة تدريبية عن: إعداد بنوك الأسئلة في 30-31 يوليو 2019 – مركز القياس والتقويم وجامعة اسوان.
- دورة تدريبية 2010 Spreadsheets فى 24 أكتوبر 2019- مركز التدريب وتكنولوجيا المعلومات – جامعة اسوان.

- دورة تدريبية Information and communication فى 24 أكتوبر 2019- مركز التدريب وتكنولوجيا المعلومات – جامعة اسوان.
- دورة تدريبية Concepts of IT 2010 فى 24 أكتوبر 2019- مركز التدريب وتكنولوجيا المعلومات – جامعة اسوان.
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CAREER HISTORY

Fac. Agric. & Natural Resources, Aswan University	Associate Professors	2019-Now
Fac. Agric. & Natural Resources, Aswan University	Lecturer	2014-2019
Fac. Agric., Cairo University	Agricultural Specialist	2005-2014
Soil, water & Environment Research Institute, ARC	Agricultural Specialist	2002-2005
Fac. Agric., Cairo University	Agricultural Specialist	1994-2002
Fac. Agric., Cairo University	Research Student	1991-1994

PARTICIPATION IN CONFERENCES AND SEMINARS

I actively participated in several national & international meetings on Environment, Microbiology, and plant-soil-microbe interactions:

- ❑ Sixth International Symposium on Nitrogen Fixation with Non-Legumes, Ismailia, Egypt, 6-10 September, **1993**.
- ❑ The National Symposium on Nitrogen-Fixing Leucaena Trees, El-Arish, North Sinai, Egypt, 15-16 December, **1996**.
- ❑ The Regional Symposium on Agro-Technologies Based On Biological Nitrogen Fixation For Desert Agriculture, El-Arish, North Sinai, Egypt, 14-16 April, **1998**.
- ❑ Third Symposium on Biological Nitrogen Fixation In Mediterranean Basin (FABAMED), El-Arish, North Sinai, Egypt, 21-25 April, **1999**.
- ❑ El-Salam canal Symposium, El-Arish, North Sinai, June 30 – July 3, **2001**.
- ❑ A Clean Glass of Water Conference, Cairo, Egypt, 21-22 Oct., **2008**.
- ❑ The 4th Conference on Recent Technologies in Agriculture "Challenges of Agriculture Modernization", Giza, Egypt, 3-5 Nov., **2009**.
- ❑ The 2nd Minia International Conference for Agriculture and Irrigation in the Nile Basin Countries, 23rd-25th March **2015**, Minia, Egypt.
- ❑ The 4th International Conference of Genetic Engineering & Its Application, Sharm El-Sheikh City, South Sinai, Egypt, 5-8 October, **2016**.
- ❑ The 1st International Conference of Biodiversity and Sustainable Development, Helwan University, Egypt, 15-16 October, **2016**.
- ❑ International Conference on “Advanced Technologies and their Applications in Agriculture”, 27-29 March, **2017**, NRC, Cairo, Egypt.
- ❑ International Symposium The Plant Microbiome: Exploration of Plant-Microbe Interactions For Improving Agricultural Productivity, 18-22 November **2018**, Hurghada, Egypt.

PROJECTS AND DEVELOPMENT WORK EXPERIENCE

Since April 1991, I am engaged in a number of environmental projects as a M. Sc., Ph. D. student & a member staff.

- ❑ Agrotechnologies based on organic farming and biofertilization for the development of vegetable & fruit crops for export (2007-2012).
- ❑ Agro-Biotechnologies Based on Biofertilization and Organic-Farming for the Development of Sinai Agriculture (2002-2006).

- *Rhizobium* Technology to Support Acacia Programmed in South Sinai Protectorates (2001-2002).
- Agrotechnologies based on biological nitrogen fixation for the development of agriculture in Sinai (1995-2001). This project concerning with introduction of environmentally-safe agrotechnologies based on biofertilizers, biological activities and Nitrogen Fixing Trees (leucaena and acacia).
- National Agricultural Research Project (NARP) on development of desert communities and agriculture (1990-1994). Major objectives were extensive use of biofertilizers (symbiotic rhizobia and associated diazotrophs), rational use of chemical fertilizers and pesticides, enhancement soil biofertility, efficient soil management and conservation. This is towards the future production of healthy food. The project was sponsored by the Egyptian Ministry of Agriculture (MOA) and USAID. I heavily enrolled in various field trials in sandy soils at Ismailia & North Sinai. Very positive results are conducted in International Symposium on biological nitrogen fixation (BNF) with non-legumes (Ismailia-Egypt, 1993).

COMPUTER & INTERNET SKILLS

I do use PC for all of my writing and editing rather access to the Internet.

- Very good experience in various soft wares:
 - MS word for word processing, MS Power point for presentation, HG for graphics, Excel for spreadsheet, Mstat for statistical analyses.

PUBLICATIONS

About 23 publications appeared in national & international journals.

LIST OF PUBLICATIONS

Abbas M T, Monib M, Ghanem E H, Eid M A M, Emara M F Z and Hegazi N A (1994):
Response of wheat grown in sandy soils of Ismailia and Sinai to inoculation with
associative diazotrophs.
**In: Abstracts, Egyptian-French Seminar on Biological Nitrogen Fixation
Associated with cereal crops, Sept. 26-28.**
Ministry of Agriculture and Land Reclamation, Giza, Egypt.

Abbas M T, Rammah A, Monib M, Ghanem E H, Eid M A M, Emara M F Z and Hegazi N
A (1994):
Wheat cultivation in sandy soils as affected by N-fertilization and composite
inoculation with associative diazotrophs.
**In: Hegazi N A, Fayez M and Monib M, eds. 6th International Symposium on
Nitrogen Fixation with Non-Legumes,
Ismailia, Egypt, 6-10 September 1993**
The American University In Cairo Press, pp. 485-487.

Youssef H Hanan, Helmy A Amal, Abbas M T, Fayez M, Higazi A, El-Khawas H, Eid M,
Sedik M Z, Hanna I A, Rammah A, Monib M and Hegazi N A (1994):
Performance of associative diazotrophs introduced to pure and mixed stands of
legume and non-legume crops grown in sandy soils of Ismailia and Sinai. **In: Hegazi
N A, Fayez M and Monib M, eds. 6th International Symposium on Nitrogen
Fixation with Non-Legumes, Ismailia, Egypt, 6-10 September 1993**
The American University In Cairo Press, pp. 423-429.

Abbas M T (1995):
Integration of biological N₂-fixing systems to build up biological fertility of
desert soils.
**M. Sc. Thesis, Environmental Studies and Research Unit, Department of
Agricultural Microbiology,**
Faculty of Agriculture, Cairo University, Giza, Egypt.

Abbas M T, Rammah A, Hanna I A, Monib M, Fayez M and Hegazi N A (1998):
Sustainability of *Leucaena* and *Sesbania* mixed with Rhodes grass grown in
sandy soils and inoculated with diazotrophs. **In: Fayez M and Hegazi N A,
eds. The National Symposium on Nitrogen-Fixing Leucaena Trees, El-Arish,
North Sinai, Egypt, 15-16 December 1996,**
Printshop of the Ministry of Agriculture and Land Reclamation,
Giza, Egypt. pp. 129-146.

Fayez M, Abbas M T and Hegazi N A (1998): Agro-economic and environmental importance
of nitrogen-fixing trees: *Leucaena*, the magnificent tree, a study case. **In: Fayez M
and Hegazi N A, eds. The National Symposium on Nitrogen-Fixing Leucaena
Trees, El-Arish, North Sinai, Egypt, 15-16 December 1996.**
Printshop of the Ministry of Agriculture and Land Reclamation,
Giza, Egypt. pp. 75-87.

Hegazi N A, Fayez M, Amin G, Hamza M A, Abbas M T, Youssef Hanan and Monib M (1998):
Diazotrophs associated with non-legumes grown in sandy soils.
In: Malik Kauser A, Mirza M Sajjad and Ladha J K, eds. 7th International Symposium on Nitrogen Fixation with Non-Legumes, 16-21 October 1996, Faisalabad, Pakistan.
Kluwer Academic Publishers, Dordrecht, pp. 209-222.

Abbas M T, Rammah A, Hanna I A, Monib M, Fayez M and Hegazi N A (1999):
Leucaena intercropped with elephant grass in Sinai desert farms.
In: Abstracts, 3rd Symposium on Biological Nitrogen Fixation in Mediterranean Basin (FABAMED), Towards Biofertilizer Application and Sustainable Agriculture, El-Arish, North Sinai, November 21-25, p. 56.
Faculty of Agriculture, Cairo University, Giza, Egypt.

Abbas M T (2000):
Use of agrotechnologies based on biological N₂-fixation for the benefit of agriculture and environment of Sinai.
Ph. D. Thesis, Environmental Studies and Research Unit, Department of Agricultural Microbiology,
Faculty of Agriculture, Cairo University, Giza, Egypt.

Abbas M, Monib M, Rammah A, Fayez M and Hegazi N (2001)
Intercropping of sesbania (*Sesbania sesban*) and leucaena (*Leucaena leucocephala*) with five annual grasses under semi-arid conditions as affected by inoculation with specific rhizobia and associative diazotrophs.
Agronomie, 21, 517-525.

Hamed Eman, Hamza Mervat, Abbas M, Tahan M, Fayez M, Monib M and Hegazi N (2007)
Plant juices are proper culture media for growth and biomass production of rhizospheric microorganisms.
In: (Abstract) Rhizosphere 2 International Conference, Montpellier, France, 26-31 August 2007, p.82.

Hanna Amera, Youssef Hanan, Hamza Mervat, Amer Wafaa, Abbas M, Monib M, Hegazi N A and Fayez M (2007)
Gluconacetobacter diazotrophicus is reported among the rich endophytic bacterial population of north Sinia desert plants.
In: (Abstract) Rhizosphere 2 International Conference, Montpellier, France, 26-31 August 2007, p.100.

Abbas M T, Hamza Mervat A, Youssef Hanan H, Fayez M, Monib M and Hegazi N A (2009)
Diazotroph strain-behaviour reflects on sweet pepper development and yield in north Sinai desert. **In: Proceedings of the 4th Conference on Recent Technologies in Agriculture "Challenges in Agricultural Modernization", Faculty of Agriculture, Cairo University, Nov., 3-5, Giza, Egypt, pp. 624-630.**

- Fayez M, Hamza Mervat A, Abbas M T, Youssef Hanan H, Monib M and Hegazi N A (2009)
 Innovative bio-preparates for vegetable crop production in north Sinai desert. **In: Proceedings of the 4th Conference on Recent Technologies in Agriculture "Challenges in Agricultural Modernization"**, Faculty of Agriculture, Cairo University, Nov., 3-5, Giza, Egypt, pp. 946-951.
- Fayez M, Youssef Hanan H, Mounier Basant, Shaltout Abir M, El-Sherif Ebtessam M, Hamza Mervat A, Abbas M T, Monib M and Hegazi N A (2009)
 Biomanagement of vegetable fungal diseases by multifunctional rhizobacteria. **In: Proceedings of the 4th Conference on Recent Technologies in Agriculture "Challenges in Agricultural Modernization"**, Faculty of Agriculture, Cairo University, Nov., 3-5, Giza, Egypt, pp. 934-945.
- Abbas M T, Hamza A Mervat, Youssef H Hanan, Youssef H Gehan, Fayez M, Monib M and Hegazi N A (2014)
 Bio-preparates support the productivity of potato plants grown under desert farming conditions of north Sinai: Five years of field trials.
J Adv Res, 5, 41-48.
- Ali Sayeda M, Nasr Hoda S and Abbas M T (2015)
 Using diazotrophic bacteria for biomass production of microalgae
EJER, 3, 41-52
- Amal A. Othman, Sayeda M. Ali and Abbas M T (2016)
 Microbial Water Quality and Diazotrophic Bacteria Community in Lake Nasser Khors, Egypt.
Res. J. Environ. Toxicol, 12 (2), 100-108.
- Sayeda M. Ali, Amal A. Othman and Abbas M T (2016)
 Bacteriological monitoring for the Northern khors of Lake Nasser, Egypt.
Res. J. Microbiol, 11 (2-3), 80-92.
- Mohamed Y. Saleh, Mohamed S. Sarhan, Elhussein F. Mourad, Mervat A. Hamza, Mohamed T. Abbas, Amal A. Othman, Hanan Youssef, Ahmed T. Morsi, Gehan H. Youssef, Mahmoud El-Tahan, Wafaa A. Amer, Mohamed Fayez, Silke Ruppel, Nabil A. Hegazi (2017)
 A novel plant-based-sea water culture media for *in vitro* cultivation and *in situ* recovery of the halophyte microbiome
Journal of Advanced Research 8, 577-590
- Awadalla AO, Mohammed T Abbas (2017)
 Peanut (*Arachis hypogaea* L.) yield and its components as affected by N-fertilization and diazotroph inoculation in Toshka desert soil-South Valley-Egypt
Environmental Risk Assessment and Remediation 1 (3), 49-55.

Elhussein F Mourad, Mohamed S Sarhan, Hassan-Sibroe A Daanaa, Mennatullah Abdou, Ahmed T Morsi, Mohamed R Abdelfadeel, Hend Elsayey, Rahma Nemr, Mahmoud El-Tahan, Mervat A Hamza, Mohamed Abbas, Hanan H Youssef, Abdelhadi A Abdelhadi, Wafaa M Amer, Mohamed Fayez, Silke Ruppel, and Nabil A Hegazi (2018)
Plant Materials are Sustainable Substrates Supporting New Technologies of Plant-Only-Based Culture Media for in vitro Culturing of the Plant Microbiota
Microbes Environ. Vol. 33, No. 1, 40-49.

Mohamed S Sarhan, Mervat A Hamza, Hanan H Youssef, Sascha Patz, Matthias Becker, Hend ElSawey, Rahma Nemr, Hassan-Sibroe A Daanaa, Elhussein F Mourad, Ahmed T Morsi, Mohamed R Abdelfadeel, Mohamed T Abbas, Mohamed Fayez, Silke Ruppel, Nabil Abraham Hegazi (2019)
Culturomics of the plant prokaryotic microbiome and the dawn of plant-based culture media - A review
Journal of Advanced Research 19, 15-27.

Rahma A. Nemr, Mohab Khalil, Mohamed S. Sarhan, Mohamed Abbas, Hend Elsayey, Hanan H. Youssef, Mervat A. Hamza, Ahmed T. Morsi, Mahmoud El-Tahan, Mohamed Fayez, Sascha Patz, Katja Witzel, Silke Ruppel, Kassem F. El-Sahhar and Nabil A. Hegazi (2020)
“In situ similis” Culturing of Plant Microbiota: A Novel Simulated Environmental Method Based on Plant Leaf Blades as Nutritional Pads
Frontiers in Microbiology 11,454.