

CURRICULUM VITAE



PERSONAL DATA:

Name : Ahmed Sayed Fouad Abdel-Aziz

Born : July 16, 1975, in Giza, Egypt

Marital status : Married to Dr. Rehab M Hafez, with one daughter: Nourhan (24 - 8 - 2002).

Profession : Associate Professor, Genetics Division, Botany and Microbiology Department - Faculty of Science - Cairo University.

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LANGUAGES:

- **Arabic** (Mother Tongue)
- **English** (Excellent spoken & written, National TOEFL in 2001)

COMPUTER SKILLS:

- Very Good experience in computer common programs: Microsoft Office (Word, Excel and Power Point) and Photoshop.
- Good experience in many computer programs for statistical analysis (eg: SPSS, Minitab and Statistica).
- Good experience in establishment of scientific courses on internet (e-learning).

OCCUPATIONS HISTORY:

Demonstrator (1/1997- 11/2007) - Botany and Microbiology Department - Faculty of Science - Cairo University.

Assistant Lecturer (11/2007 -10/2013) - Botany and Microbiology Department - Faculty of Science - Cairo University.

Lecturer (10/2013 – 1 / 2020) - Botany and Microbiology Department - Faculty of Science - Cairo University.

Associate Professor (1/2020 till now) - Botany and Microbiology Department - Faculty of Science - Cairo University.

EDUCATIONAL BACKGROUND:

B.Sc. Botany (1996) Botany Department - Faculty of Science-Cairo University – very good.

M.Sc. Botany; Cytology and Genetics (2007) Botany Department - Faculty of Science-Cairo University.

Thesis title A study on somaclonal variation in tissue cultures of potato (*Solanum tuberosum* L.) as influenced by some mutagenic factors.

Ph.D. Botany; Cytology and Genetics (2013) Botany Department-Faculty of Science-Cairo University.

Thesis title Genetic improvement of salt tolerance in canola (*Brassica napus* L.).

SCIENTIFIC TRAINING COURSES

December 2012 Workshop in Gene Transformation in Plant and Bacteria. Held in Genetic Engineering and Biotechnology Research Institute (GEBRI) - Menofia University -Sadat City In Co- operation With Tokyo University

February 2014 Workshop in Molecular Genetics Approaches: Principles & Applications. Held in Molecular Biology Lab – Cairo University Research Park (CURP)

September 2014 Workshop in Gene Expression Analysis on Large Scale Using Microarray and Real-Time PCR Techniques. Held in Molecular Biology Lab – Cairo University Research Park (CURP)

October 2014 Workshop in Bioinformatics. Held in Molecular Biology Lab – Cairo University Research Park (CURP)

April 2017 Workshop of Basics of Bioinformatics & Biostatistics and Their Role in Biological Sciences. Held in Botany Department, Faculty of Science, Tanta University

July 2019 Workshop of Applications of Bioinformatics to Support Plant Biotechnology Research in Desert Environment. Held in Desert Research Center.

August 2019 Workshop of Metabolomic Engineering for Primary and Secondary Compounds Production from Medicinal, Aromatic and Economical Plants. Held in Desert Research Center.

WORKSHOPS in FACULTY and LEADERSHIP DEVELOPMENT CENTER (FLDC):

July	2008	International Scientific Publications
June	2009	Effective Communication Skills in different education patterns
July	2010	Competitive Research Projects
December	2011	Quality Standards in Teaching
January	2012	Strategic Planning
May	2012	Use of Technology in Teaching
September	2012	Effective Presentation Skills
January	2013	Credit Hour Systems
August	2013	E- Learning
September	2013	University Code of Ethics
September	2013	Legal and Financial Aspects in University Environment
September	2013	Exams and Students Evaluation Systems
May	2014	Research Ethics
August	2017	Creative Thinking
October	2017	Change Management
March	2018	Crisis Management
May	2018	Stress Management
September	2018	Conference Organization
June	2020	Critical Thinking

WORKSHOPS in Cairo University Centre for QUALITY ASSURANCE of EDUCATION:

December	2016	Leadership and governance and organizational structure
December	2016	Students and graduates

December	2016	Post graduates and scientific research
March	2017	Preparation of strategic plan for high education foundations
March	2017	Preparation of research plan for faculties and institutes
March	2017	Plan of faculties and institutes for society support

WORKSHOPS in ISO CERTIFICATIONS

November	2015	Workshop in Strategic Planning and Operational Planning held by Arab Company for Engineering and Systems Consultations in Faculty of Science - Cairo University.
November	2015	Workshop in Statistical Tools held by Arab Company for Engineering and Systems Consultations in Faculty of Science - Cairo University.
February	2016	Workshop in Principals of ISO 9001:2008 Certification held by Arab Company for Engineering and Systems Consultations in Faculty of Science - Cairo University.
April	2016	Workshop in Principals of ISO 9001:2015 Certification held by Arab Company for Engineering and Systems Consultations in Faculty of Science - Cairo University.
March	2016	Workshop in Internal Auditing for Quality Management Systems According to Requirements of ISO 9001:2015 and ISO 19011:2011 Certifications held by Arab Company for Engineering and Systems Consultations in Faculty of Science - Cairo University
September	2016	Workshop in Requirements of ISO 17025 Certifications held by National Institute of Standards

FIELDS OF INTERST:

Genetics, Cytology, Plant Tissue Culture, Transformation, Molecular Biology, Bioinformatics and Bio-Nanotechnology

TEACHING EXPERIENCE:

1. Teaching Theoretical and Practical Courses in:

- Genetics
- Plant Hormones and Tissue Culture
- Plant Genetic Engineering
- Plant Biotechnology

2. Teaching Practical Courses in:

- **Botany Courses** (Anatomy, Morphology, Physiology, Systematic, Ecology, Cell Biology and Phycology).
- **Microbiology courses** (General Microbiology, Environmental Microbiology, Food Microbiology, Waste Water Microbiology, Virology, Biological Control and Plant Pathology).
- **Molecular Biology**
- **Protein Purification**

PUBLICATIONS:

1. **Fouad, A.S. and Hafez, R.M. (2018)** Effect of silver ions and silver nanoparticles on cell division and cdc2 kinase gene expression in *Allium cepa* root tips. *Biologia Plantarum*, 62: 166.
2. **Shanab, S.M.M.; Hafez, R.M.; Fouad, A.S. (2018)** A review on algae and plants as potential source of Arachidonic acid. *Journal of Advanced Research*, 11: 3.
3. **Fouad, A.S. and Hafez, R.M. (2018)** Effect of cobalt nanoparticles and cobalt ions on alkaloids production and expression of CrMPK3 gene in *Catharanthus roseus* suspension cultures. *Cellular and Molecular Biology*, 64 (12): 62-69.
4. **Fouad, A.S., Hafez, R.M. and Hamdy, R. (2019)** Authentication of *Cordia dentata* Poir. growing in Egypt using ISSR and DNA barcoding. *Bioscience Research*, 16(2): 1474-1484.
5. **Fouad, A.S. and Hafez, R.M. (2019)** *In silico* characterization of CDKB1 and its coding gene in some *Oryza* species. *Bioscience Research*, 16(2): 1679-1690.
6. **Shamso, E.M. and Fouad, A.S. (2019)** *Dicliptera aegyptiaca* (Acanthaceae), a new species from Egypt supported by morphological characters and rbcL-based DNA barcoding. *Egyptian Journal of Botany*, 59(2): 475-482.
7. **Fouad, A.S., Hafez, R.M. and Hosni, H.A. (2019)** Authentication of Three Endemic Species of the Caryophyllaceae from Sinai Peninsula Using DNA Barcoding. *Egyptian Journal of Botany*, 59(2): 483-491.
8. **Fouad, A.S. and Hafez, R.M. (2019)** Molecular modeling and *in silico* characterization of a pathogenesis-related protein-10 (PR10) and its coding genes in some *Oryza* species. *Baghdad Science Journal*, 16(4) Supplement: 993-1002.
9. **Hafez, R.M. and Fouad, A.S. (2020)** Mitigation of Genotoxic and Cytotoxic Effects of Silver Nanoparticles on Onion Root Tips using some Antioxidant Scavengers. *Egyptian Journal of Botany*, 60(1): 133-145.
10. **Fouad, A.S. and AlSobeai, S.M. (2020)** *In silico* characterization of a cyclin dependent kinase -A (CDKA) and its coding gene in some *Oryza* species. *Baghdad Science Journal*, 17(3): 760-771.

11. Fouad, A.S., El-Naggar H.A., Hashim, S.S., Abu-Bakr, S.M., Rezk, B.M., Mohamed, N. A. and Hsamza, H.M. (2019) Enhancement of alkaloids biosynthesis in *Catharanthus roseus* callus using silver nanoparticles. Published as an abstract in 9th International Conference of Plant Science and Microbial Biotechnology (ICPMB) held on 6-7th November 2019 at the premises of Botany and Microbiology Department - Faculty of Science - Sohag University.

Submissions to Gene Bank:

KU947956.1	KU947957.1	KU947958.1	KU947959.1	KU947960.1	KU947961.1
MG100616.1	MH028051.1	MG199043.1	MF568529.1	MH234120.1	MH234121.1
MH234122.1	MK055336.1	MK040533.1	MK487999.1	MK488000.1	MH899447.1
MH899448.1	MH899449.1	MH899450.1	MH899451.1	MH899452.1	MH899453.1
MH899454.1	MF582459.1	MH234123.1	MT645201.1	MT645202.1	MT645203.1
MT645204.1	MT645205.1	MT645206.1	MT645207.1	MT645208.1	MT645209.1
MT645210.1	MT645211.1	MT645212.1	MT645213.1	MT645214.1	MT645215.1
MT645216.1	MT645217.1	MT645218.1	MT645219.1	MT645220.1	

SUPERVISION:

PhD Thesis (since 2014) Genetical and Biotechnological Studies on Microtuberization of potato (*Solanum Tuberosum* L). Botany and Microbiology Department, Faculty of science, Cairo University.

MSc Theses (since 2018) Physiological Studies for Mitigation of Adverse Effects of Salinity Stress on *Vicia faba*. Botany and Microbiology Department, Faculty of science, Cairo University.

MSc Theses (since 2018) DNA Barcoding Utility To Identify Members of Taxonomically Complex Plant Groups in Egypt. Chemistry Department, Faculty of science, Cairo University.

Graduation Project (2016-2017) for students of Biotechnology and Biomolecular Chemistry Program.

MEMBERSHIP OF SCIENTIFIC SOCIETIES:

1. Member in the Egyptian Botanical Society, Egypt
2. Member in the Egyptian Society of Experimental Biology, Egypt.

CONFERENCES' ATTENDANCE:

April	2011	The Seventh Annual International Conference of The Egyptian Society of Experimental Biology
February	2012	The eighth Annual International Conference of The Egyptian Society of Experimental Biology
April	2016	The First International Conference of Genetic Engineering and Biotechnology held in Sharm El Sheikh by Genetic Engineering and biotechnology Research Institute (GEBRI) - Sadat University

- October 2016** The First International Conference on Biodiversity and its Role in Sustainable Development held in Faculty of Science, Helwan University
- November 2019** 9th International Conference of Plant Science and Microbial Biotechnology (ICPMB) held on 6-7th November 2019 at the premises of Botany and Microbiology Department, - Faculty of Science - Sohag University.

OTHER ACTIVITIES:

1. Participation in several Committees in Botany and Microbiology Department (eg: Tables, Libraries, Students Affairs, Chemicals,...etc).
2. Head of the Committee of buildings in Botany and Microbiology Department from Sept 2014 - 2017.
3. Course specifications and course reports for undergraduate courses from 2014 **till now**.
4. Participation in the standard of organizational structure in Quality Assurance Unit - Faculty of Science, Cairo University from 2015 till 2016.
5. Participation in the standard of leadership and governance and organizational structure in Quality Assurance Unit - Faculty of Science, Cairo University from 2016 **till now**.
6. Responsible for Requirements of ISO 9001:2015 Certificate in Botany and Microbiology Department from May 2015 - 2017.
7. Internal auditing in Faculty of science, Cairo University for requirements of ISO 9001:2015 Certificate from May 2016 **till now**.
8. Internal auditing in Cairo University for requirements of ISO 9001:2015 Certificate in May 2016.
9. Coordinator of Biotechnology and Biomolecular Chemistry Program in Faculty of science, Cairo University from September 2017 till September 2019.

Reviewing for Scientific Journals

1. The Egyptian Journal of Experimental Biology (Botany).
2. Baghdad Science Journal.
3. The Journal of Water, Air and Soil Pollution.

Reviewing for B.Sc. Students' Projects

1. Reviewing of Graduation Projects for Students of Biotechnology and Biomolecular Chemistry Program in Faculty of science, Cairo University from 2016 till 2019.
2. Reviewing of Graduation Projects in The 4th Medical Integrated Students' Research (MISR) Conference Held in Faculty of Medicine – Ain Shams University in February 2019.

AWARDS

- 2010:** Award in The Graduate Research Challenge Fund– Faculty of Science – Cairo University for the proposal Genetic Improvement of Salt Tolerance in Canola (*Brassica napus* L.) Using Tissue Culture and Genetic Engineering.

- 2011:** A Certificate of Appreciation for outstanding performance from the Botany Department, Faculty of Science, Cairo University
- 2015:** A Certificate of Appreciation from the Egyptian Ministry of Education for Contribution in the Evaluation of Projects in Giza Symposium for Science and Engineering supported by Intel Semiconductor Manufacturing Company in December.
- 2016:** A Certificate of Appreciation from Faculty of Science - Cairo University for outstanding efforts during Graduation Ceremony.
- 2016:** A Certificate of Appreciation from the Egyptian Ministry of Education for Contribution in the Evaluation of Projects in Cairo Symposium for Science and Engineering supported by Intel Semiconductor Manufacturing Company.
- 2019:** A Certificate of Appreciation from Cairo University for International Publications.