Curriculum Vitae Dr. Mohamed Samir Mohamed Gadelkarim Youssef

CONTACT DATA



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PERSONAL DATA

Sex	: Male
Date of Birth	: 15-05-1978
Place of Birth	: Gharbiya, Egypt
Citizenship	: Egyptian
Marital Status	: Married with two children

EMPLOYMENT HISTORY

2019 – till now 2019 – till now	: Visiting professor at the University of Manitoba, Canada. Associate professor of Molecular Genetics at the Botany Department, Faculty of Science, Kafrelsheikh University, Egypt.
2016 - till now	: Director of Quality Assurance Unit in the Faculty of Science Kafrelsheikh University, Egypt.
2013-2019	: Assistant professor of Genetics at the Botany Department, Faculty of Science, Kafrelsheikh University, Egypt.
2011-2013	: Assigned to teach Genetic and Taxonomy of Flowering Plants courses at the Botany Department, Faculty of Science, Kafrelsheikh University, Egypt.
2010-2011	: Assigned to supervise the practical Botany and teaching Genetic courses in the Botany Department, Faculty of Science, Damanhour University, Egypt.
2005-2008	: Ph.D. fellow in Botany Department, Faculty of Science, Tanta University. Egypt. And teaching practical botany to undergraduate students'.
2000-2004	: Assistant researcher in Biological and Geological Sciences Department, Faculty of Education, Kafrelsheikh University. Egypt.

EDUCATION DATA

A- Academic History:

- 2010 : Ph.D. Degree in Botany (Genetics) from Tanta University. Egypt.
- 2004 : M.Sc. Degree in Botany (Genetics) from Tanta University. Egypt.
- 1999 : B.Sc. Degree in Botany, Botany Department, Faculty of Science Tanta University, Egypt.

Professional Experience

1- Ph.D. program (2005-2010):

Thesis title: Studies on propagation and somatic hybridization of Citrullus L.

2- M.Sc. Program (2000-2004):

Thesis title: Cytological and genetical variations among *Ipomoea carnea* Jacq. population in Nile Delta region.

Vocational/Technical Training

- 1. Collecting botanical samples from their natural habitats and making herbarium sheets.
- 2. Extracting and Separating seed storage proteins, seedling proteins and isozymes using polyacrylamide gel electrophoresis (PAGE) technique, scoring data, data analysis, explanation and discussion.
- 3. Extraction of DNA from young leaves and seeds of plants, separating DNA using Agarose gel electrophoresis technique and amplification of DNA in vitro using polymerase chain reaction technique.
- 4. Evaluating the genetic diversity using biochemical and molecular markers as Isozymes, Seed storage protein, RAPD & ISSR-PCR techniques.
- 5. RNA Extraction Using Triazole or RNA extraction kits, separating RNA using Agarose gel electrophoresis technique.
- 6. Measuring quantity and purity of nucleic acids using Nanodrop spectrophotometer.
- 7. Gene expression studies using Quantitative Real Time PCR.
- 8. Constructing RNA libraries from laser-micro dissected tissues using laser microdissection microscope.
- 9. Preparing cytological slides, examining it under a computer aided microscope with digital camera, chromosome counting, photographic printing, and karyotyping.
- 10.Studying the cytotoxic and genotoxic effects of plant extracts as well as chemicals, Nano-materials and ecological pollutants using Mitotic index, chromosomal aberration and micronuclei tests.
- 11.Photosynthetic pigment estimation.
- 12.Measuring the photosynthetic rate, stomatal conductivity, internal CO2 level, transpiration rate and water use efficiency using a gas exchange infrared gas analyzer (IRGA; LI-6400, LI-COR, Inc., Lincoln, NE, USA).
- 13.ROS localization on leaves using nitroblue tetrazolium (NBT) and diaminobenzidine (DAB) to stain O- and H2O2, respectively.
- 14.Plant tissue culture, protoplast isolation & fusion.

B- Current Specialization

Botany, Molecular genetics, Taxonomy of flowering plants, Biodiversity, Molecular biology, Population genetics, Plant Tissue culture & Biotechnology.

D- Professional and Organization Memberships

- 1. Egyptian Botanical Society (EBS).
- 2. Egyptian Society for Experimental Biology (ESEB).

TEACHING EXPERIENCE

- * Teaching lectures of Population Genetics, Molecular Phylogeny, Plant tissue culture and Biotechnology courses for Postgraduate students in Botany Department, Faculty of Science, Kafrelsheikh University, Egypt.
 - * Teaching lectures and practices of Genetics, Taxonomy of Flowering Plants, Molecular taxonomy and ecosystem, Plant Ecology and Plant anatomy courses for undergraduate B.
 Sc, B. Sc - Edu. And Pharmacy Students in Botany Department, Faculty of Science, Kafrelsheikh University, Egypt.
 - * **Computer skills:** Successfully passed all modules required for the granting of the International Computer Deriving License (**ICDL**) version 4.0.
 - * Language skills 2014: IELTS; International English Language Testing System-Band Score 6.5

PARTICIPATION IN CONFERENCES

- 1- The 8th International Conference "Plant and Microbial Biotechnology". 3-4 October 2018. Kafrelsheikh University, Egypt.
- 2-Modern Applications in Biological Sciences, 23 April 2018. Academy of Scientific Research & Technology, Cairo, Egypt.
- 3- JSPS-AvH Alumni Joint Conference under the theme "Science & Science Management for Sustainable Development". 24-26. October 2017. Cairo – Egypt.
- 4- The 7th International Conference "Plant and Microbial Biotechnology and their role in the development of the Society". 19-20 April 2017. Tanta University, Egypt.
- 5-1st Castle Conference of Advanced Sciences. 5st March 2017. Kafrelsheikh, Egypt.
- 6- The 1st International Conference on "Biodiversity and Sustainable Development". 15-16 October 2016. Helwan University, Egypt.
- 7- The 7th Annual International Conference of The Egyptian Society of the Experimental Biology. 2-6 April 2011. Egypt.
- 8- The Sixth International Conference on Biological Sciences. 10-11 November 2010. Egypt.
- 9- The 1st Scientific Conference of The Egyptian Society of the Experimental Biology. 26 November 2005. Egypt.

PARTICIPATION IN WORKSHOPS

- 1- **Metagenomics workshop**. (the department of microbiology and Immunology and the center for genome and microbiome research at the Faculty of Pharmacy- Cairo University). During the period 19- 20 December /2018.
- 2- Education Programs and Courses Specifications and Evaluation of Learning Outcomes for H.E. Institutes. (By the National Authority for Quality Assurance and Accreditation of Education, Egypt). During the period 4/2- 6/2/2017.
- 3- **The Modern Knowledge Cycle**. Conducted on 5st March 2017 by ELSEVIER at Kafrelsheikh University, Egypt.
- 4- Self-Evaluation for Higher Education Institutes. (National Authority for Quality Assurance and Accreditation of Education. During the period 01/03-03/03/2016).
 - 5- Prospects of Nano Crystals Basics and Application. (Faculty of Science- Kafrelsheikh University. Egypt. 25-24 November 2014).
 - 6- Practical Applications of Electrophoresis Techniques in Different Biological Fields. (Faculty of Science- Kafrelsheikh University. Egypt. 15-17 September 2014).
 - 7- University Management. (International Faculty and Leadership Development Center. 10-11 August 2014).
 - 8- **Developing a personality of leadership.** (DAAD Kairo Akademie, at the Premises of DAAD Cairo, Egypt. On 4 December 2013).
- 9- **Research Management.** (DAAD Kairo Akademie, at the Premises of DAAD Cairo, Egypt. On 12 November 2013).
- 10- **Proposal Writing Post Docs.** (DAAD Kairo Akademie, at the Premises of DAAD Cairo, Egypt. On 10 November 2013).
- 11- Introduction to Bioinformatics, Programming & Molecular biology. (Nematology and Biotechnology Unit, Faculty of Agriculture, Fayoum University, in cooperation with the Egyptian center of Bioinformatics and Genomics (ECBAG), Zagazig University. Egypt. 6-8 November 2013).
- 12- **Practical Application of Real Time PCR in Different Fields.** (Faculty of Veterinarian medicine Kafrelsheikh University. Egypt. 15-17 June 2013).
- 13- **DNA Isolation and RAPD PCR Protocols.** (Faculty of Science- Tanta University. Egypt. 19-21 July 2011).
- 14- **Multivariate Analysis and its Biological Applications**. (Faculty of Science- Tanta University. Egypt. 11 November 2010).

PARTICIPATION IN ONLINE COURSES AND WEBINARS

1- Research Writing in the Sciences, writing a Grant Proposal and Communicating Research Outside Academia. 4 September to 29 October 2018 (8 weeks). Course moderator: Andy Nobes, Programme Coordinator, INASP. INASP is a registered UK charity No.1106349. Website: www.inasp.info

2- Research paper rejection: How to deal with? Conducted on 8th April 2017 by Reseapro Scientific Services Pvt.Ltd.

3- Plagiarism: what is and how to avoid it? Conducted on 1st April 2017 by Reseapro Scientific Services Pvt.Ltd.

4- Rejection of Manuscript: Its possible reasons and solutions. Conducted on 28th January 2017 by Reseapro Scientific Services Pvt.Ltd.

5- How to write a research proposal. Conducted on 21th January 2017 by Reseapro Scientific Services Pvt.Ltd.

6- How to write a research paper. Conducted on 14th January 2017 by Reseapro Scientific Services Pvt.Ltd.

projects:

Executive Director of Support and Development of Educational Effectiveness in Higher Education institutions **Project** in faculty of Science, Kafrelsheikh University, Egypt 2016-2018.

Grants:

Postdoc Fellow for 6 months in University of Manitoba \cdot Department of Plant Science Canada \cdot Winnipeg (9th of March 2015- 8th of September 2015).

Awards and certificates:

- 1- Award of Excellence in International Scientific Publication 2019. Awarding institution is Kafrelsheikh University.
- 2- Award of Excellence in International Scientific Publication 2017. Awarding institution is Kafrelsheikh University.
- 3- Award of Excellence in International Scientific Publication 2016. Awarding institution is Kafrelsheikh University.
- 4- Certificate of PCT Distance Learning Course; INTRODUCTION TO THE PATENT COOPERATION TREATY. 13th December 2016. Awarding institution is World Intellectual Property Organization (WIPO).

LIST OF PUBLICATIONS

- <u>Youssef M. S</u>.; Mira M.M.; Millar J.L.; Becker M.G.; Belmonte M.F.; Hill R.D.; Stasolla C. (2019). Spatial identification of transcripts and biological processes in laser micro-dissected sub-regions of waterlogged corn roots with altered expression of phytoglobin. *Plant Physiology and Biochemistry*. 139: 350–365. <u>https://doi.org/10.1016/j.plaphy.</u> 2019.03.036
 IF: 3.404
- 2- Eid E.M., Shaltout K. H.; Moghanm F.S.; Youssef M.S.; El-Mohsnawy E.; Haroun S.A (2019). Bioaccumulation and translocation of nine heavy metals by *Eichhornia crassipes* in Nile Delta, Egypt: perspectives for phytoremediation. International Journal of Phytoremediation. https://doi.org/10.1080/15226514.2019.1566885
- 3- <u>Youssef M.S.</u>; Elamawi R.M. (2018). Evaluation of Phytotoxicity, Cytotoxicity and Genotoxicity of ZnO nanoparticles in *Vicia faba*. *Environmental Science and Pollution Research*. https://doi.org/10.1007/s11356-018-3250-1
 IF: 2.914
- 4- Khatab, I.A.; <u>Youssef M.S.</u> (2018). Micropropagation and Assessment of Genetic Stability of Musa sp. cv. Williams using RAPD and SRAP Markers. *Egyptian Journal of Botany*. 53(3): 371-380. DOI: 10.21608/ejbo.2018.3199.1161
- 5- Saad-Allah, KM, <u>Youssef, M.S.</u> (2018). Phytochemical and genetic characterization of five quinoa (Chenopodium quinoa Wild.) genotypes introduced to Egypt. *Physiology and Molecular Biology of Plants*. 24(4), 617-629. IF: 1.539

- 6- Bakr EA, Al-Hefnawy GB, Awad MK, Abd-Elatty HH, <u>Youssef MS</u>, (2018). New Ni(II), Pd(II) and Pt(II) complexes coordinated to azo pyrazolone ligand with a potent anti-tumor activity: Synthesis, characterization, DFT and DNA cleavage studies. *Applied Organometallic Chemistry*.32(2), e4104. DOI: 10.1002/aoc.4104 IF: 3.58
- 7- Youssef, M. S.; Haroun A. S. and El-Shanshoury R.A. (2017). Studies on micropropagation and somatic hybridization of Citrullus L. Germany: Noor publishing, 2017. Web. 23 Jan. 2017. https://www.morebooks.de/store/gb/book/studies-onmicropropagation-and-somatic-hybridization-of-citrullus-l/isbn/978-3-330-80374-9>.
- 8- <u>Youssef M. S</u>.; Mira M.M.; Renault S.; Hill R.D.; Stasolla C. (2016). Phytoglobin expression influences soil flooding response of corn plants. Ann. Bot .118: 919-931. doi: 10.1093/aob/mcw146.
 IF: 4.041
- 9- Eid E.M.; <u>Youssef M. S.G</u>.; Shaltout K. H. (2016). Population characteristics of giant reed (*Arundo donax* L.) in cultivated and naturalized habitats. Aquatic Botany 129: 1–8. http://dx.doi.org/10.1016/j.aquabot.2015.11.001. IF: 1.78
- 10- El-Kholy A.S.; <u>Youssef M.S</u>.; Eid E.M. (2015). Genetic Diversity of *Lemna gibba* L. & *L. minor* L. Populations in Nile Delta Based on Biochemical and ISSR Markers. Egypt. J. Exp. Biol. (Bot.), 11(1): 11 19.
- 11- Haroun, S.A.; <u>Gad El-Karim, M. S</u>.; Hamoud, M. A.; El-Shanshoury A. R.; Al-Sodany, Y. M. (2011): Impact of Benzyladinine and naphthalene acetic acid on molecular changes during shoot organogenesis of *Citrullus colocynthis* (L). The 7th Annual International Conference of The Egyptian Society of the Experimental Biology. Egypt (2-6 April 2011).
- Hamoud, M. A.; El-Shanshoury, A. R.; Al-Sodany, Y. M.; <u>Gad El-Karim, M. S.</u> (2005): Genetic diversity among *Ipomoea carnea* Jacq. populations from different habitat types in Nile-Delta region of Egypt. *Egypt. J. EXP. Biol.* (Bot.), 1: 1 10.