

## Curriculum vitae



### **Mohamed Ahmed Mohamed Nagaty Osman, Ph.D.**

Dean of Faculty of Environmental Agricultural Sciences (FEAS)

Arish University (AU), Arish, North Sinai, Egypt.

Professor of Pomology and Biotechnology

Plant production department

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### **Personal:**

Birth Date: Feb. 05, 1972

Birth Place: Cairo (Egypt)

Nationality: Egyptian

Marital Status: Married

### **Education and Qualifications:**

08/2020: **Professor** of Pomology and Biotechnology, Department of plant production, Faculty of Environmental Agricultural Sciences (FEAS), Arish University (AU), Arish, North Sinai, Egypt.

03/2014 - 08/2020: **Associate Professor** of Pomology and Biotechnology, Department of plant production, Faculty of Environmental Agricultural Sciences (FEAS), Arish University (AU), Arish, North Sinai, Egypt.

11/2015 - 11/2016: **Postdoctoral Research Grant (Fulbright Visiting Scholar)**, Department of Horticulture, Michigan State University (MSU), USA.

09/2005: **Ph.D.** in Environmental Agricultural Sciences, Fruit plant Biotechnology, Suez Canal University, Egypt.

09/1999: **M.Sc.** in Environmental Agricultural Sciences, Pomology, Suez Canal University, Egypt.

06/1993: **B.Sc.** in Environmental Agricultural Sciences, **Excellent with honor degree**, Suez Canal University, Egypt.

## Employment history:

02/2023 - Current: Dean of Faculty of Environmental Agricultural Sciences (FEAS), Arish University (AU), Arish, North Sinai, Egypt.

09/2022 - 02/2023: Acting president of Plant Production Department, Faculty of Environmental Agricultural Sciences (FEAS), Arish University (AU), Arish, North Sinai, Egypt.

2022 - Current: Member of the jury committee, Standing Scientific Committee for the Promotion of Professors and Associate Professors, fourteenth session 2022-2025, Plant Production Committee, Higher University Council, Ministry of Higher Education and Scientific Research.

12/2020 - 09/2022: Acting Dean of Faculty of Environmental Agricultural Sciences (FEAS), Arish University (AU), Arish, North Sinai, Egypt.

Member of Committee of the Agricultural Studies Sector, Supreme Council of Universities.

08/2018 - 12/2020: Deputy dean of Education and Student affairs, Faculty of Environmental Agricultural Sciences (FEAS), Arish University (AU), Arish, North Sinai, Egypt.

08/2020: Professor of Pomology and Biotechnology, Department of plant production, Faculty of Environmental Agricultural Sciences (FEAS), Arish University (AU), Arish, North Sinai, Egypt.

03/2014 - 25/8/2020: Associate Professor of Pomology and Biotechnology, Department of plant production, Faculty of Environmental Agricultural Sciences (FEAS), Arish University (AU), Arish, North Sinai, Egypt.

11/2015 - 11/2016: **Postdoctoral Research Grant (Fulbright Visiting Scholar)**, Department of Horticulture, **Michigan State University, East Lansing, MI, USA**. This postdoctoral research aims to: evaluate of standard protocol for regeneration and transformation system of stone fruit (Sweet cherry and Peach).

03/2014 - 04/2016: Associate Professor of Pomology and Biotechnology, Department of plant production, Faculty of Environmental Agricultural Sciences (FEAS), Suez Canal University (SCU), Arish, North Sinai, Egypt.

09/2013 - 03/2014: Assistant Professor of Pomology and Biotechnology, Department of plant production, Faculty of Environmental Agricultural Sciences (FEAS), Suez Canal University (SCU), Arish, North Sinai, Egypt.

09/2006 - 09/2013: Assistant Professor of Pomology and Biotechnology, **Biotechnology Department, Faculty of Science, Taif University (TU), Taif, Saudi Arabia. (Sabbatical Leave).**

09/1999 - 09/2005: Assistant lecturer of Pomology, Department of plant production, Faculty of Environmental Agricultural Sciences (FEAS), Suez Canal University (SCU), Arish, North Sinai, Egypt.

03/1996 - 09/1999: Demonstrator of Pomology, Department of plant production, Faculty of Environmental Agricultural Sciences (FEAS), Suez Canal University (SCU), Arish, North Sinai, Egypt.

### **University Administrative Roles:**

- Member in the Arish University (AU) Council, El-Arish, North Sinai, Egypt.
- Editor in chief of Sinai Journal of Applied Sciences, Arish University.
- Director of Agriculture Services Center (ASC), Faculty of Environmental Agricultural Sciences (FEAS), Arish University (AU), El-Arish, North Sinai, Egypt.
- Member of the Ethics of Scientific Research Committee, Arish University (AU) Council, El-Arish, North Sinai, Egypt.
- Chairman of the International Classification Committee at Arish University for the University year 2022/2023.
- University representative to the University classification committee, Ministry of Higher Education and Scientific Research and the Egyptian Knowledge Bank.
- Member in the Arish University (AU) center for Blended Learning, El-Arish, North Sinai, Egypt.
- Coordinator in the committee of the Procurement of Scientific Devices.
- Dean of Faculty of Environmental Agricultural Sciences (FEAS), Arish University (AU), El-Arish, North Sinai, Egypt.
- Member of Measurement & Assessment Center (MAC), Arish University (AU), El-Arish, North Sinai, Egypt.

- Dean of Measurement & Assessment Unit (MAU), Faculty of Environmental Agricultural Sciences (FEAS), Arish University (AU), El-Arish, North Sinai, Egypt.
- Chairman of the Committee for Preparing the File of Presentation in the Egyptian Government Excellence Award.
- Chairman of the Faculty Council, Faculty of Environmental Agricultural Sciences (FEAS), Arish University (AU), El-Arish, North Sinai, Egypt.
- Director of Human Resources Unit (HRU), Faculty of Environmental Agricultural Sciences (FEAS), Arish University (AU), El-Arish, North Sinai, Egypt.
- Senior of Plant Biotechnology Lab. (PBL), Faculty of Environmental Agricultural Sciences (FEAS), Arish University (AU), El-Arish, North Sinai, Egypt.
- Member in the Plant Production Department, Faculty of Environmental Agricultural Sciences (FEAS), Arish University (AU), El-Arish, North Sinai, Egypt.

### **Research areas of interest:**

My Research areas of interest is focusing on Pomology and Biotechnology including:

- Regeneration and Genetic engineering to develop new traits in relevant crops.
- Expression of some genes Related to Regeneration process.
- Genetic diversity studies of plant germplasm.
- Genome editing (CRISPR/Cas9) technique to target specific DNA sequences for mutagenesis in the genomes of microbes and plants for elucidating mechanisms of protection from plant viruses, plant disease resistance, drought and salinity stress tolerance and gene functions in basic and applied research.
- Identifying candidate genes controlling fruit ripening, tolerance to drought and salinity, resistance to diseases and pests, and/or other traits of interest.

### **Molecular biology & Biotechnology Technical Skills:**

- Plant cell and tissue culture.
- Embryogenic culture development.
- *Agrobacterium* & Biolistic mediated transformation.
- Plant tissue transformed selection and regeneration.
- Bacterial transformation.
- Plasmid isolation and DNA cloning techniques.

- Transgenic plant analysis including: reporter gene expression (GUS), Northern, Southern, Western blotting and PCR.
- Genomic DNA, RNA and Protein isolation and purification.
- DNA and RNA analysis including: quantification, sequencing, and electrophoresis.
- PCR, RT-PCR and qRT-PCR (SYBRgreen).

## **Desirable Skills:**

Desirable skills and experience include; ability to design and execute physiological and genetic experiments in lab, greenhouse, and field.

## **Awards:**

- The prize of excellence and quality publishing, Biotechnology Department, Faculty of Science, Taif University, KSA, 2012 .
- First place, Large Project category in the third session of National Initiative for Smart Green Projects, North Sinai Governorate, 2024.

**Title Project:** Reviving Date palm cultivation in North Sinai “towards Sustainable Agricultural development”.

## **Scholarships:**

- **Postdoctoral Research Grant (Fulbright Visiting Scholar)**, Department of Horticulture, Michigan State University (MSU), East Lansing, Michigan, USA. From November, 2015 to November, 2016. My project was on evaluation of standard protocol for regeneration and genetic transformation system of stone fruit (Sweet cherry and Peach).
- "Plant Adaptation Responses towards Abiotic Stress", ICGEB, New Delhi, India: November 21 - December 2, 2011.
- "Transgenic crops: Production, Evaluation and Application" ICGEB, New Delhi, India: November 7-18, 2005.

- "Introduction to Molecular Biology Techniques" Agriculture Genetic Engineering Research institute (AGERI), Agriculture Research Center (ARC), Giza, Egypt: January 29 - February 9, 2005.
- "RNA Structure and Function" ICGEB), Trieste, Italy: March 29 -April 1, 2004.

### **Published Scientific Books with Arabic language:**

- Introduction to Bioinformatics, 2015.
- Techniques & Applications of Plant Tissue Culture, 2014.

### **Journal Editor:**

Editor in chief of Sinai Journal of Applied Sciences, Arish University

### **Journal Reviewers:**

- Horticultural Plant Journal.
- Fruit Research Journal.

### **Research Projects Grants:**

- "Evaluation of standard protocol for regeneration and genetic transformation system of stone fruit (Sweet cherry and Peach)", 2015 - 2016, Horticulture Department, Michigan State University (MSU), MI, USA. Funded by cooperation between Fulbright Commission in Egypt and Michigan State University (MSU), MI, USA.
- "Storage studies on clusters of Taify table Grape", 2013. Funded by Taif University, Saudi Arabia. Co-Principal Investigator (Co-PI).
- "Marker assisted selection for fungal disease resistance in Taif grapes", 2014. Funded by Taif University, Saudi Arabia. (Co-PI).
- "Gene expression profiling and fruit quality during ripening stages of prickly pears (*Opuntia ficus-indica*) in Taif", 2012. Funded by Taif University, Saudi Arabia. (Co-PI)
- "Establishment of Regeneration system of Taif peach (*Prunus persica* L. Batsch) cultivar (Balady cultivar) in Taif", 2011. Funded by Taif University, Saudi Arabia. Principal Investigator (PI).

- "Screening and evaluation of Al-Taif grape varieties for nutrition values and antioxidant activity", 2011. Funded by Taif University, Saudi Arabia. (Co-PI).
- "Genetic diversity among Taif local grape cultivars (*Vitis vinifera* L.) Using molecular markers". February - November 2009, funded by Taif University, Saudi Arabia. (PI).
- "Biological and Molecular Characterization of local Peach (*Prunus persica* L. Batsch) cultivars in Taif". February to November 2008, funded by Taif University, Saudi Arabia. (PI).
- Biotechnology-based production of high quality sweet potato for export. Agricultural Genetic Engineering Research Institute (AGERI), ARC, Giza, Egypt. Funded by AERI Institutional Linkage Project, Midwest Universities Consortium for International Activities (MUCIA), Inc. and University of Illinois, 2004 - 2006. (Staff member).
- Improving the productivity and fruit quality of peach in North Sinai. Sponsored by French side from 1997 to 1999, Faculty of Environmental and Agricultural Sciences. (Staff member).
- Enhancement of Date palm crop using tissue culture technique in North Sinai Governorate. Sponsored by Ministry of Agriculture and Ministry of International cooperation, Egypt. Feb. 2006. (Staff member).

### Teaching Activities:

- Delivered The plant tissue culture practical lab. for year 2 BMS students, Genetic course, Biomedical Science Program, **University of Science and Technology, Zewail City of Science and Technology**, April 2017.
- Attended the classroom and lab. Classes of Applied Biotechnology for Plant Breeding & Genetics course from January to April 2015 for **undergraduate students**,
- Horticulture department, Plant & Soil Science building, **Michigan State University (MSU), MI, USA**.
- Teaching the Principle of biology and Human physiology courses (theoretical & Practical) for undergraduate, Faculty of Home's Economic, Arish University.
- Teaching the Introduction to Biotechnology course, (Theoretical & Practical) for **undergraduate** (Preparatory year), College of Health Science, Taif University, Kingdom of Saudi Arabia.

- Teaching the Introduction to biotechnology, introduction to bioinformatics, cell and tissue culture, animal genetic engineering, graduate research and Food biotechnology courses (Theoretical and practical) for **undergraduate**, biotechnology department, Faculty of Science, Taif University, Kingdom of Saudi Arabia.
- Teaching the Genetic Engineering and Tissue Culture for horticulture crops, Genetic Engineering (A & B), Plant tissue culture applications, Genetic techniques, Biology & computer, Molecular biology, Genes & Proteins, Biosafety & Biotechnology, Fundamentals of genetic engineering, Applications of genetic engineering, Genetics and plant biotechnology, Equipment and biotechnology techniques, Biodiversity & genotypes conservation, using computer in horticulture and Agriculture biotechnology courses for **postgraduate**, FEAS, AU, Egypt.
- Teaching the Introduction to biotechnology, Unconventional Agriculture, Plant Physiology, Genetics, Production of Fruit Crops, Agriculture Ecosystem courses (Self education system) for **undergraduate**, FEAS, AU, Egypt.

### **E-Learning courses & conferences:**

- 1- Advanced diploma in "e-Learning techniques" (online course), from Cambridge Training College Britain Center, United Kingdom Training Association. July, 2011. Grade: Excellent.
- 2- 2nd international conference on E-Learning & Distance Learning titled" Unique Learning for next generation", from February 21 -24, 2011, Riyadh, KSA.
- 3- "Introduction to Teaching Online " course (online course), From March, 1 to April, 3, 2010, hosted through the Illinois University of USA and coordinated by King Fahd University of Petroleum and Minerals, KSA.
- 4- "E-Learning and Blended Learning: Teaching and Learning Skills for online Education " course, May, 2009. Conducted by: e-Learning Center, Deanship of Academic Development, King Fahd University of Petroleum & Minerals. Sponsored by: Ministry of Higher Education Workshop Series, Kingdom of Saudi Arabia.
- 5- "E. Learning training", October 22, 2008, National Center for E. Learning and Distance Learning, Ministry of Higher Education and Taif University, Kingdom of Saudi Arabia.



## **Computing Skills:**

- Windows office skills (Word, Excel, PowerPoint).
- Statistical analysis program (SPSS, M-STAT).
- Bioinformatics program for DNA, RNA and protein seq. analysis, alignment and primer design.
- Attended citation management workshops in the main library, Michigan State University (MSU), MI, USA, on use of some citation programs like: Endnote X7, Endnote online and Mendeley desktop and learned how to Import references from MSU's online catalog and article databases, Format citation and bibliographies in a word document and using of Endnote online and Mendeley to create groups and share references with other users.

## **Personal Professional Development (PPD):**

- " Time Management Skills ", June 22, 2020, Udemy.
- " How can you make a LinkedIn professional account ", June 22, 2020, Udemy.
- " CV "Resume" writing skills ", June 23, 2020, Udemy.
- " How can you Make, Write and Send a Formal Email ", June 22, 2020, Udemy.
- " Let's get published ", Jul,1, 2020, Emerald Publishing.
- " The ED "Green Deal" Challenges and implications with ED-Egypt ", Jul,2, 2020, ASRT EG.
- " Springer Nature Platform Training in collaboration with Egyptian Knowledge Bank ", Jun 16, 2020, SPRINGER NATURE.
- " Nano - how to accelerate your research with a Nature Research Solution (In collaboration with the Egyptian Knowledge Bank) ", Jun 16, 2020, Database Group @ SPRINGER NATURE.
- " Better Research Through Better Data Live with the Wellcome Trust ", Jun 16, 2020, SPRINGER NATURE.
- " UK EduDay - Supporting remote teaching and learning in education ", March 23, 2020, Microsoft.

- **" Successfully completing Discover the internet of things with a Raspberry Pi and a houseplant "**, June 30, 2020, Microsoft.
- **" Motivation styles workshop "**, April 14, 2018, Cultural Affairs Assistant (Alumni), Cultural Affairs, U.S. Embassy, Cairo.
- **" Personal Branding workshop "**, May 5, 2018, Cultural Affairs Assistant (Alumni), Cultural Affairs, U.S. Embassy, Cairo.
- **" The personal branding workshop "**, Feb.8, 2017, Cultural Affairs Assistant (Alumni), Cultural Affairs, U.S. Embassy, Cairo.
- **" Pathways to Scientific Teaching Course"**, Fall 2017, Department of plant biology, College of Natural Science, Michigan State University (MSU), **USA**.
- **" The secrets for success with Facebook marketing workshop "**, Feb. 5, 6 and 7 2017, Cultural Affairs Assistant (Alumni), Cultural Affairs, U.S. Embassy, Cairo.
- **" The social media strategy for entrepreneur" workshop**, Feb. 1 and 2, 2017, The Blue Room, the GrEEK Campus, Downtown Cairo, Cultural Affairs Assistant (Alumni), Cultural Affairs, U.S. Embassy, Cairo.
- **" The project planning" workshop**, November 10, 2017, Urban Station, Cairo, Cultural Affairs Assistant (Alumni), Cultural Affairs, U.S. Embassy, Cairo.
- **" The put your ideas into action (Business Canvas Model)" Workshop**, November 11, 2017, Urban Station, Cairo, Cultural Affairs Assistant (Alumni), Cultural Affairs, U.S. Embassy, Cairo.
- **" Self-Awareness - Herrmann Whole Brain Model" workshop**, December 9, 2017 Urban Station, Cairo, Cultural Affairs Assistant (Alumni), Cultural Affairs, U.S. Embassy, Cairo.
- **" Promotion and Prevention: Exploring the Nuances of Academic Integrity in the Classroom workshop"**, September 29, 2016, The Academic Advancement Network, MSU, MI, **USA**.
- **" Research on Teaching and Learning Roundtable workshop "**, October 7, 2016, The Academic Advancement Network, MSU, MI, **USA**.
- **" Creativity, Innovation and the Entrepreneurial Mindset in your Classroom workshop "**, October 12, 2016, The Academic Advancement Network, MSU, MI, **USA**.
- **" Innovation in Teaching Health Sciences: From Words to Action workshop "**, March 13-15, 2012 at College of pharmacy, Taif University, Saudi Arabia.

- " Enhancement skills of Academic staff member" courses, University Development Deanship, Taif University, Ministry of Higher Education, Kingdom of Saudi Arabia.:
  - "Strategies and methods of university teaching", February 23-25, 2007.
  - "Effective communication skills", March 3-5, 2007.
  - "Research skills in the light of informatics and technology", March 11-13, 2007.
  - "Strategies and methods of student's evaluation", March 25-27, 2007.

### University and Community Activities:

- 1- Participated in applied the Food and Agriculture Model of Food and Agriculture Organization (FAO) at Arish University.
  - 2- Chairman of a committee to develop a vision for the optimal use of agricultural research centers in North Sinai Governorate.
  - 3- Designed and Established of Plant Tissue Culture Lab., Biotechnology Department, Faculty of Science, Taif University, Kingdom of Saudi Arabia.
  - 4- Participation as a jury member in the Egypt Science and Engineering competition, Center for Technology Development, North Sinai Directorate of Education, North Sinai, Egypt.
  - 5- Participated in the establishment of Agriculture Biotechnology Lab., Faculty of Environmental Agricultural Sciences (FEAS), Arish University (AU), El-Arish, North Sinai, Egypt.
- 1- Participated in the establishment of Plant Tissue Culture Lab., Faculty of Environmental Agricultural Sciences (FEAS), Arish University (AU), El-Arish, North Sinai, Egypt.
  - 2- Principal investigator (PI) of the research project entitled "Genetic diversity among Taif local grape cultivars (*Vitis vinifera* L.) using molecular markers". February - November 2009, funded by Taif University, Kingdom of Saudi Arabia.
  - 3- Principal investigator (PI) of the research project entitled " Biological and Molecular Characterization of local Peach (*Prunus persica* L. Batsch) cultivars in Taif " February - November 2008, funded by Taif University, Kingdom of Saudi Arabia.

- 4- Participated in the "Taif Roses festival" by lecture and poster presentations entitled "Rapid Propagation of Roses *in vitro*", Faculty of Medicine, April 17, 2008, Taif University.
  - 5- Contributed in the activities of the first international conference on olive cultivation and processing, Department of plant production and protection, Faculty of Environmental Agricultural Sciences (FEAS), Arish University (AU), April 16 - 18, 2002, El-Arish, North Sinai, Egypt.
  - 6- Member of the teamwork in establishing a nursery of "Date palm" off shoot April, 2000. In the Experimental farm of the Faculty of Environmental Agricultural Sciences, Arish University (AU), El- Arish, North Sinai, Egypt.
  - 7- Participating in culturing "Olive" orchard including four cultivars (Mission, Picual, Shemlali, Kronaki). In the Experimental farm of the Faculty of Environmental Agricultural Sciences, Arish University (AU), El- Arish, North Sinai, Egypt, Feb, 1997.
  - 8- Participated with the faculty teamwork in planting of collection varieties of Olive trees in the Nekhel Farm (in the heart of middle Sinai), North Sinai, Egypt. To examine their tolerance to grow under dry conditions.
  - 9- Participated with teamwork of "The Bedouin Settlement project in North Sinai" cooperated between Arab Republic of Egypt and FAO.
  - 10- Participated with the teamwork in the Establishment of the Date Palm Propagation Unit at the Faculty of Environmental Agricultural Sciences (FEAS), Arish University (AU), El-Arish, North Sinai, Egypt.
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## **Publications:**

- 1- Yahya NA, Awad MA, Ibrahim SD and Mohamed A. Nagaty., 2025. Exploring Egyptian date palm cultivars using morphological traits and molecular markers. Asian J. Agric. Biol. 2025: 2024270. DOI: <https://doi.org/10.35495/ajab.2024.270>
- 2- Mohamed A. Nagaty and Mohamed A. Awad., 2024. EFFECT OF HARVESTING TIME ON FRUIT AND OIL CHARACTERISTICS OF SOME OLIVE CULTIVARS UNDER NORTH SINAI CONDITIONS. SINAI Journal of Applied Sciences 13 (1) 2024 029-046.
- 3- Omnia M. El-Azrak; M.A. Nagaty and M.A. Awad., 2024. PROLONGING THE STORAGE PERIOD AND SHELF LIFE OF EARLIGRANDE PEACH FRUIT USING SOME POSTHARVEST TREATMENTS. SINAI Journal of Applied Sciences 13 (3) 2024 303-326.

- 4- Mohamed Abdelsattar; Roba M. Ismail; Ghada A. Abu El-Heba; Mohamed A. Nagaty; Khaled El Mangury; AQbo Bakr Youssef and Gihan M. Hosny. 2020. Epigenetic regulation in development of *Prunus persica* during regeneration using cotyledon explant. Plant Archives, Vol.: 20, No.: 2: 8291 - 8302.
- 5- Roba M. Ismail; Rania M. Abou Ali; M. A. Natagy and M. Abdelsattar. 2020. Expression of some Epigenetic-Related Genes in Regenerated Shoots of *Prunus persica*. Journal of Agricultural Chemistry and Biotechnology, Vol. 11 (11): 331-338.
- 6- Amina A. Mohamed; Nagaty M. A.; Hagar M. M; Radwan Kh. H. R. 2019. Assessment of inter- and intra-variations in some olive (*Olea europaea*) cultivars using molecular markers (ISSR and SCoT). Arab J. Biotech., Vol. 22, No. (2): 135 - 148.
- 7- M. A. Nagaty; Sh. D A. Ibrahim; B. Hussein. 2019 Morphological and Molecular (ISSR and SCoT) characterization of some grape cultivars in the North Sinai. Arab J. Biotech., Vol. 22, No. (2) : 119 - 134.
- 8- Mahmoud M. Abdallah, Walaa S. B., M. H. Amar & M. A. Nagaty. 2019. AFLP - based Mohamed A. Nagaty evaluation for tree production of Sheikh Zewaied peach cultivar "Sinawi" (*Prunus persica* L.) in North Sinai, Egypt. Egypt. J. Genet. Cytol., Vol. 48 No.1:47-62.
- 9- Dina A. H; M. A. Nagaty; M. M. Sourour & M. D. El Deeb. 2018. Effect of Bio and Organic fertilizers on flowering, yield and fruit quality of Kalamata olive trees under North Sinai condition. J. Plant Production, Mansoura Univ., Vol.9 (11): 939 - 945.
- 10- Xiaojuan Zong, Qiuxia Chen, Mohamed A. Nagaty , Yunyan Kang, Gregory Lang & Guo-qing Song (2019) Adventitious shoot regeneration and *Agrobacterium tumefaciens*-mediated transformation of leaf explants of sweet cherry (*Prunus avium* L.), The Journal of Horticultural Science and Biotechnology, 94:2, 229-236, DOI: [10.1080/14620316.2018.1470908](https://doi.org/10.1080/14620316.2018.1470908)
- 11- Dina A. H; M. A. Nagaty; M. M. Sourour & M. D. El Deeb. 2018. Effect of Bio and Organic fertilizers on vegetative growth and leaf mineral content of Kalamata olive trees under North Sinai condition. Sinai Journal of Applied Sciences., Vol (7), Is. (3): 197 - 206.
- 12- Amina A. Mohamed, Mohamed A. Nagaty, Manal M. S. El-Baghdady and Khaled H. Radwan. 2017. Morphological and molecular characterization of some olive (*Olea*

europaea) cultivars in El-Arish, Egypt. Journal of Bioscience and Applied Research, Vol.3, No.4: 237 -251.

- 13-Samra B.N., **M. A. Nagaty**, and Abdelmegid I. Fahmi. 2014. Storage studies on clusters of Taify table Grape. Life Science Journal, 11 (3): 319 - 326.
- 14-Ahmed M. El-Shehawi, Abdelmegid I. Fahmi, **M. A. Nagaty**, Bassem. N. Samra. 2014. Marker assisted selection for fungal disease resistance in Taif grapes. Wulfenia Journal, 21 (5): 390 - 403.
- 15-El-Sayed S. Abdel-Hameed, **M. A. Nagaty**, Salman M.S., Bazaid S.A. 2014. Phytochemicals, nutritionals and antioxidant properties of two prickly pear cactus cultivars (*Opuntia ficus indica* Mill.) growing in Taif, KSA. Food Chemistry 160: 31-38.
- 16-El-Shehawi A. M., **M. A. Nagaty**, Fahmi A. I. 2013. Gene expression profiling and fruit quality during ripening stages of Prickly pear (*Opuntia ficus-indica*) in Taif. Life Science Journal, 10 (2): 1267-1278.
- 17-Fahmi Al, El-Shehawi AM, **M. A. Nagaty**, 2013. Antioxidant and antimutagenic activities of taif grape (*Vitis vinifera* L.) cultivars. American Journal of Biochemistry and Biotechnology, 9 (2): 102-117.
- 18-Abdelmegid I. Fahmi, **M. A. Nagaty**, and Ahmed M. El-Shehawi. 2012. Fruit quality of Taif grape (*Vitis vinifera* L.) cultivars. Journal of American Science, 8 (4): 590-599.
- 19-Mohamed **A. Nagaty** and Mahmoud M. Riffat. 2012. Investigation of the Genetic diversity of prickly pear (*Opuntia ficus-indica*) cultivars in Taif by using RAPD-PCR. Journal of American Science. 8 (4): 353-357.
- 20-Mohamed **A. Nagaty**. 2012. Establishment of regeneration system for Taif peach (*Prunus persica* L. Batsch) cultivar (Balady cultivar) in Taif, KSA. Journal of American Science. 8 (4): 232-239.
- 21-Nagaty. **M. A.** and S. El-Assal. 2011. Molecular, Flowering and Fruiting characterization of some peach (*Prunus persica* (L.) Batsch) cultivars grown in west region of KSA. Arab Journal of Biotechnology, 14 (1): 61-76.
- 22-Nagaty **M. A.**; S. El-Assal; and M. Rifaat. 2011. Characterization of the genetic diversity of Peach cultivars in Taif by RAPD-PCR. American Journal of Applied Sciences, 8 (7):708-715.

- 23-**Nagaty, M. A.** and S. El-Assal. 2011. Molecular characterization and genetic relationships among some grape (*Vitis vinifera* L.) cultivars as revealed by RAPD and SSR markers. European Journal of Experimental Biology, 1 (1):71-82.
- 24-**Nagaty, M. A.**; A. H. Belal; M. D. El-Deeb; M. M. Sourour.2010. *In vitro* embryo culture of late peach (*Prunus persica* L.) cultivar in North Sinai Egypt. MENS AGITAT Journal, 5 (2): 27-34. (Extracted from Ph.D. thesis).
- 25-**Nagaty, M. A.**, A. H. Belal, M. D. El-Deeb, M. M. Sourour, and E. A. Metry. 2007. Production of genetically modified peach (*Prunus persica* L. Batsch) El-Sheikh Zewaied cultivar plants. Journal of Applied Sciences Research, 3(11):1600-1608. (Extracted from Ph.D. thesis).
- 26-El-far. A. M.; **M. A. Nagaty**; E. A. Metry, and Taymour M. N. El-Din. 2006. Biotechnology-based production of high quality sweet potato for export”. Presented in BioVision Alexandria 2006 Conference, BIBLIOTHECA ALEXANDRIA, Alexandria, Egypt 26-29 April 2006. (Poster).
- 27-Nagaty, M. A. 2005. “Regeneration and transformation of peach (*Prunus persica* L. Batsch) El-Sheikh Zewaied cultivar in North Sinai”. Ph.D. thesis: Pomology, Faculty of Environmental Agricultural Sciences (FEAS), Suez Canal University.
- 28-Sourour, M. M., M. D. EL-Deeb and **M. A. Nagaty**, (1999). Effect of Magnesium fertilization on some Olive cultivars in North-Sinai. J. Agric. Sci. Mansoura Univ., 24(12): 7655-7676. (Extracted from M.Sc. thesis).
- 29-**Nagaty, M. A.** (1999). “Effect of Magnesium fertilization on some Olive cultivars in North-Sinai”. M.Sc. thesis: Pomology, Faculty of Environmental Agricultural Sciences (FEAS), Suez Canal University.

### **Thesis Supervised:**

- (1) Assessment of genetic diversity in some genotypes of peach (*Prunus persica*.L). **M.Sc. Thesis**, plant production (Genetics), by Walaa Seif Bahagat, Plant Production Department (Genetics), Faculty of Environmental Agricultural Sciences (FEAS), Arish University (AU), 2017.
- (2) "Effect of Bio and Organic fertilizers on Olive trees under drip irrigation system in North Sinai". **Ph.D. thesis**, by Dina Abdallah Hassan Khalil, Plant Production

Department (Pomology), Faculty of Environmental Agricultural Sciences (FEAS), Arish University.

### **Thesis under Supervision:**

- (1) "Genetic studies on some medicinal plants using tissue culture technique". **Ph.D. thesis**, by Shaimaa Shebl Ibrahim, Plant Production Department (Genetics), Faculty of Environmental Agricultural Sciences (FEAS), Arish University (AU), North Sinai, Egypt.
- (2) "Postharvest treatments for Peach fruits to prolong shelf life" M.Sc thesis, by Omnia Mahmoud Kamel Elazrak, Plant Production Department (Genetics), Faculty of Environmental Agricultural Sciences (FEAS), Arish University (AU), North Sinai, Egypt.

### **Thesis examined and approved:**

- (1) "Effect of Anti transpiration and Super Absorbent Polymer on Growth, Productivity and Water Use Efficiency of Peach Trees Under north Sinai Conditions". **M.Sc. thesis**, by Mohamed Ahmed Abdallah Belal, Plant Production Department (Pomology), 2017, Faculty of Environmental Agricultural Sciences (FEAS), Arish University (AU), North Sinai, Egypt.
- (2) "Physiological and Biotechnological Studies on Canola (*Brassica napus* L.) Under Stress Conditions Using Tissue Culture Techniques", **M.Sc. thesis**, by Aya Emad Eldin Ibrahim AbdElsalam, Plant Production Department (Agronomy), 2017, Faculty of Environmental Agricultural Sciences (FEAS), Arish University (AU), North Sinai, Egypt.
- (3) "Genetic Improvement for Some Peach Rootstocks Using Tissue Culture Technique", **Ph.D. thesis**, by Gehan Yousry Ramadan Khalil, Plant Production Department (Agronomy), 2015, Faculty of Environmental Agricultural Sciences (FEAS), Suez Canal University (AU), North Sinai, Egypt.
- (4) "Production of Potato Micro-Tubers Through Tissue Culture Technique", **M.Sc. thesis**, by Radwa Fathy Hassan Shehata, Plant Production Department (Genetics), 2015, Faculty of Environmental Agricultural Sciences (FEAS), Arish University (AU), North Sinai, Egypt.



## Poster and Oral presentations:

- Poster presentation, 'Adventitious shoot regeneration and *Agrobacterium tumefaciens*-mediated transient transformation of sweet cherry (*Prunus avium* L.)' 2016. World Congress on in vitro Biology, June 11-15, 2016, San Diego, California, USA.
- Poster presentation 'Gene expression profiling and fruit quality during ripening stages of Prickly pear (*Opuntia ficus-indica*) in Taif '. The Sixth International Conference, The Egyptian Society for Environmental Sciences, "Genetics, Biotechnology and sustainable Development in safe Environmental", February 2nd - 4th, 2015. Ismailia, Egypt.
- Poster presentation 'Antioxidant and antimutagenic activities of taif grape (*Vitis vinifera* L.) cultivars '. 2013, April 9-11. The 28<sup>th</sup> meeting of the Saudi Biological Society "Eco-tourism and Sustainable Development, Hail University, Hail, Saudi Arabia.
- Poster presentation 'Characterization of prickly pear (*Opuntia spp.*) from Taif by FT-IR, SEM and RAPD-PCR '. March 6-8, 2012, 27<sup>th</sup> meeting of the Saudi Biological Society, Jazan University, Saudi Arabia.
- Poster presentation 'Investigation of the Genetic diversity of prickly pear (*Opuntia ficus-indica*) from Taif '. The 5<sup>th</sup> Saudi science conference. April 16-18, 2012, Umm Al Qura University Makkah, Saudi Arabia.
- Oral presentation 'Free radical scavenging activity and total phenolic contents of prickly-pear (*Opuntia ficus indica* Mill.) Cultivars growing in Taif, KSA '. 26<sup>th</sup> Meeting of Saudi Biological Society titled: climatic change and biodiversity, 10 - 12 May, 2011, Taif University, Kingdom of Saudi Arabia.
- Poster presentation 'Fruiting and Molecular characterization of some Peach (*Prunus persica* L. Batsch) cultivars growing in Taif, KSA '. 26<sup>th</sup> Meeting of Saudi Biological Society titled: climatic change and biodiversity, 10 - 12 May, 2011, Taif University, Kingdom of Saudi Arabia.

- Oral presentation 'Cell Culture of Taif's rose ', Taif Roses festival, Faculty of Science, April 17, 2010, Taif University, Kingdom of Saudi Arabia.
- Oral presentation 'Faculty of science programs for scientific researches workshop, 29/5 - 3/ 6 / 2009, Faculty of science, Taif University, KSA.
- Oral presentation 'Rapid Propagation of Roses *in vitro* ', Taif Roses festival, Faculty of Medicine, April 17, 2008, Taif University, Kingdom of Saudi Arabia.
- Oral presentation 'Somatic embryos proliferation and shoot formation for the peach El-Sheikh Zewaied cultivar '. Third Saudi Science Conference (New Horizons in Science and their Applications), College of Science- King Saudi University, Kingdom of Saudi Arabia, 10-13 March, 2007.
- Poster presentation 'Biotechnology-based production of high quality sweet potato for export '. BioVision Alexandria 2006 Conference, BIBLIOTHECA ALEXANDRIA, Alexandria, Egypt 26-29 April 2006.
- Oral Presentation 'Regeneration and Transformation of Peach (*Prunus persica* L. Batsch) Plant ', November 7-18, 2005 (ICGEB), New Delhi, India.

### Scientific Training Courses:

- 1- "Using Nano-Particles in Tissue Culture & Biotechnology, 10 - 11 April, 2018, Horticulture Research Institute, Agriculture Research Center, Egypt.
- 2- "Basic of Bioinformatics" course, 2- 4 Sep., 2014, Science Education Academy, Faculty of Agriculture, Ain Shams University, Egypt.
- 1- **"DNA and protein sequence analysis"** course, 21 -22 November, 2014, AlKhwarizmi Center for Bioinformatics, Egypt.
- 2- **"Principles of Bioinformatics "Sequence Analysis Tools"** course, 8 - 13 February, 2014, Ain Shams Center for Genetic Engineering and Biotechnology (AGR-ACGEB), Faculty of Agriculture, Ain Shams University, Egypt.
- 3- **"Plant Adaptation Responses towards Abiotic Stress"**, November 21<sup>th</sup> - December 2<sup>nd</sup>, 2011, at ICGEB, New Delhi, India.
- 4- **"Problem Formation: A Strategic Approach to Risk Assessment of GMOs"**, 19-23 September, 2011, ICGEB, Trieste, Italy.
- 5- **"Transgenic crops: Production, Evaluation and Application"** from 7 to 18 November, 2005, at ICGEB, New Delhi, India.

- 6- **"Introduction to Molecular Biology Techniques"**, January 29<sup>th</sup> - February 9<sup>th</sup>, 2005, at Agriculture Genetic Engineering Research institute (AGERI), Agriculture Research Center (ARC), Giza, Egypt.
- 7- **"RNA Structure and Function"**, March 29 -April 1, 2004, at International Centre for Genetic Engineering and Biotechnology (ICGEB), Trieste, Italy.
- 8- **"DNA Markers Technology & its application"**, February 10 - 22, 2001, Agriculture Genetic Engineering Research institute (AGERI) ARC, Egypt.
- 9- **"Regeneration and Transformation system of plants"**, August 15 - December 20, 2002, AGERI, ARC, Giza, Egypt. and it was included:
  - Plant tissue culture and micropropagation techniques.
  - Transformation and Regeneration system in Potato plants.
  - Preparation of genomic constructs.
  - Transformation methods using:
    - 1- Agrobacterium-mediated method.
    - 2- Direct DNA transfer (Biolistic gene gun).
  - Evaluation of transformed plant:
    - 1- (PCR - Southern, Western and Northern)
    - 2- Chemical analysis (Histochemical assay)
  - Acclimatization and adaptation.

### **Scientific Societies:**

- Member in World Congress on in vitro Biology.
- Member in the Egyptian Society for Environmental Sciences.
- Member in the Saudi Biological Society.
- Senior member in the Asia-Pacific Chemical, Biological & environmental Engineering Society (APCBEEES).
- Member in the European Federation of Biotechnology (EFB).
- Member in the International Society for Biosafety Research (ISBR).
- Member in the Egyptian Magazine for Horticulture Sciences.
- Member in the Egyptian Society of Horticulture.

### **Conferences, Workshops, Symposiums and Seminars:**

- A comprehensive training program of 6 workshops on Interdisciplinary Excellence - Transforming Universities & Redesigning Higher Education, Ministry of Higher Education and Scientific Research, EKB, November 2022 - February 2023.
- Nature Research Academies workshop “Effective Academic Writing”, 11 January 2022, Egyptian knowledge Bank, Egypt.
- Nature Research Academies workshop “Communicating Science to the Public”, 5 January 2022, Egyptian knowledge Bank, Egypt.
- "BoVision Alexandria (BVA) 2018" Conference, Bibliotheca Alexandrina, 20-22 April 2018.
- "World Congress on in vitro Biology" conference, June 11-15, 2016, San Diego, California, USA (Poster presentation).
- "Baltimore's Community Awakening - the Role of Anchor Institutions and Grassroots Organizations in the Addressing the City's Health and Human Rights Issues" seminar, April 19 - 22<sup>nd</sup>, 2016, Baltimore, Maryland, USA.
- "Communicating concepts in genetic engineering to a concerned public" workshop, April 29<sup>th</sup>, 2016, Plant & Soil Science Building (PSSB), Michigan State University, MI 48824, USA.
- "Environmental and Genetic Manipulation of High-Value Crop Traits" seminar April 28<sup>th</sup>, 2016, Department of Horticulture, Michigan State University, MI 48824, USA.
- "Genomic Plasticity and Evolving Populations of Bacteria" seminar, March 24<sup>th</sup>, 2016, Department of Horticulture, Michigan State University, MI 48824, USA.
- "Designer Trees: Harnessing Molecular Genetics to Optimize Plant Form" seminar, March 31, 2016, Department of Horticulture, Michigan State University, MI 48824, USA.
- "14<sup>th</sup> annual Plant Science Graduate Student Research" symposium, March 23, 2016, Department of Horticulture, Michigan State University, MI 48824, USA.
- "Tree fruit metabolism: from roots to postharvest quality of fruit" seminar, March 22, 2016, Department of Horticulture, Michigan State University, MI 48824, USA.
- "Exploring Heterogeneity in the Evaluation of Flowering Plants" seminar. February 24, 2016, Department of Molecular Plant Sciences, Michigan State University, MI 48824, USA.

- "From Chromatin to RNA: A Systems View of Plant Responses to Nutritional Cues" seminar. February 22, 2016, Department of Molecular Plant Sciences, Michigan State University, MI 48824, USA.
- "Computational Advances towards Identifying and Quantifying in Situ Plant Traits" seminar. February 17, 2016, Department of Molecular Plant Sciences, Michigan State University, MI 48824, USA.
- "Genomics and Epigenomics of Plant Centromeres: Past, Present and Future" seminar. February 10, 2016, Department of Molecular Plant Sciences, Michigan State University, MI 48824, USA.
- "Structural Variation, Transposable Elements and the Plant Plan Genomes" seminar, February 4, 2016, Department of Horticulture, Michigan State University, MI 48824, USA.
- "Utilizing Evolutionary Innovation for Crop Improvement" seminar, Feb. 3, 2016, Department of Molecular Plant Sciences, Michigan State University, MI 48824, USA.
- "Fruit breeding: combining artisanal craft, information-driven science and global markets" seminar, January 28, 2016, Department of Horticulture, Michigan State University, MI 48824, USA.
- "At the Forefront of Plant Breeding Genetics and Biotechnology" Symposium, December 18, 2015, Interdepartmental Graduate Program in Plant Breeding, Genetics & Biotechnology, Department of Molecular Plant Sciences, Michigan State University, MI 48824, USA.
- The Sixth International Conference of the Egyptian Society for Environmental Sciences (ESES) "Genetics, Biotechnology and Sustainable Development in Safe Environment" 2<sup>nd</sup> - 4<sup>th</sup> February, 2015, Ismailia, Egypt.
- The 28<sup>th</sup> meeting of the Saudi Biological Society "Eco-tourism and Sustainable Development 9 - 11/4/2013 at Hail University, Hail, Saudi Arabia.
- The 5<sup>th</sup> Saudi science conference "a new Vision of the role of Basic Science in Development", April 16-18, 2012, Umm Al Qura University, Makkah, Saudi Arabia.
- The 27<sup>th</sup> meeting of the Saudi Biological Society, March 6-8, 2012, at Jazan University, Jazan, Saudi Arabia. (Poster presentation)

- The 26<sup>th</sup> meeting of Saudi Biological Society titled: climatic change and biodiversity, from May 10 - 12, 2011, at Taif University, Kingdom of Saudi Arabia. (Oral and poster presentations).
- Biotechnology Workshop, From July 14-15, 2010, at National Research Centre, Cairo, Egypt.

## Referees:

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