

PERSONAL INFORMATION

Name: Aziza Nagah Moustafa Sayed Ahmed
Date of birth: 8/4/1976
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Gender: Female
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Current job lecturer of Plant physiology

EDUCATION

2017 **Ph. D.**, Botany (Plant physiology), Department of Botany & Microbiology, Benha University, Kalyobia Government,(Egypt). .
Research topic: Physiological Effects Of Growth Regulators On Vegetative Growth And Metabolite Content Of C₃ Plant Grown Under Heavy Metals Stress.

2004 **M. SC.**, Ecology, Taxonomy and Flora, Department of Botany, & Microbiology, Benha University, Kalyobia government, (Egypt).
Research topic: Physiological Studies On *Ficus carica* L. Plant.

1998 **B. Sc.** General Botany, Botany & Microbiology Department, Benha University, Egypt.,**Grade:** Excellent with honor degree

CAREER HISTORY

1- RESEARCH and TEACHING EXPERIENCE: 26 YEARS (1998-2024)

2- PROFESSIONAL POSITION:

(From 2017 till now):

- Lecturer of Plant Physiology at Botany Dept., Faculty of Science, Benha University, Egypt.
- Assistant Lecturer of Plant Physiology at Botany Dept., Faculty of Science, Benha University, Egypt.

(From 2004-2017): •Teaching assistant (Demonstrator) of General Botany & Microbiology at Botany Department Faculty of Science, Benha University, Egypt.

(From 1998-2004):

(From 1994-1998):

Student at Botany Department, Faculty of Science, Benha University, Egypt.

TEACHING ACTIVITY

Teaching and tutoring activity at **Botany and Microbiology Department, Faculty of Science**, Benha University and at **Biology Department, Faculty of Education**, Benha University

• Courses for Faculty of Science Students:

- General Botany, for 1st level Biology students.
- Plant Physiology for 2nd level Microbiology students.
- Enzymology, for 3rd level Botany and Chemistry students.
- Mineral Nutrition, for 3rd Botany and Chemistry students.
- Hormones & growth for 4th level Botany and Chemistry students.
- Primary Metabolism for 4th level Botany and Chemistry students
- Secondary Metabolism for 4th level Botany and Chemistry students
- Molecular Biology for 2nd and 4th levels Microbiology students

2- Courses for Faculty of Education Students:

- Plant Physiology (1) for 2nd and 3rd levels students (Arabic and English)
- Plant Physiology (2) for 4th levels students (Arabic and English)
- Principals of Genetics for 4th levels students (Arabic and English)

For postgraduate students:

- Biochemistry.
- Tissue culture.
- Ecological Pollution and Vegetation
- Ecological water relation.
- Specified subjects

COMPUTER SKILLS**ELECTRONIC PLATFORMS**

ICDL, A Good user of zoom & Microsoft teams

STATISTICAL

Good user of Costat Program ,Good user of SPSS Program

PROGRAMMES**Sharing member** at the Academic Control Of the second year (2019 -2021)**ADMINISTRATIVE****Member of the Plans and Schedules Committee** At Botany Department (2020 -Till now)**POSITION****Member** in Post-Graduation Academic Control (2023)dvanced Power point**CONFERENCES, WORKSHOPS & WEBINARS**

- Attendance and participation in the 2nd Scientific Conference of Faculty of Science, Benha University, “Applied Sciences and Sustainable Development”, on 27-28/ September, 2020.
- Attendance and participation in the 4th Scientific Conference of Faculty of Science, Helwan University, “Botanical And Microbiological Changes Under The Expected Climatic Changes”, on 16-17/ May, 2022.
- Attendance and participation in on line workshop entitled “ Nano Drug Delivery Systems: Formulation And Characterization” on 3-4/February, 2021, at NAWAH SCIENTIFIC.
- Attendance and participation in on line workshop entitled “ Biotechnology And Metabolic Engineering Tools That Used For The Production Of Secondary Metabolites Using Plant Tissue Culture” on 28-29/October 2021, at Fidato Agroplus Educational Platform.
- Attendance and participation in on line workshop entitled “Bio analytical resource: data visualization and analytic Tools for multiple levels of plant biology course ” on 21-August 2021, at Fidato Agroplus Educational Platform.
- Attendance and participation in symposium entitled, “ Impact of Climatic Change On The Agriculture Sector”, September 18th /2022 At The National Research Center.

- **MEMBERSHIP OF PROFESSIONAL ASSOCIATIONS**

- 1- Member of Egyptian Botanical Society.
- 2-Member of Egyptian Phycology Society
- 3-Arab Society for plant Protection
- 4-Egyptian Society of Applied Microbiology

- **LINKS, 1-Scopus:** <https://www.scopus.com/authid/detail.uri?authorId=57226057304>
- **2- Google sc:** <https://scholar.google.com/eg/citations?hl=ar&user=kLRekPAAAAAJ>
- **3- Research gate:** <https://www.researchgate.net/profile/Aziza-Nagah>
- **4- orcid:** <https://orcid.org/0009-0003-7814-1866>
- **5- Acdemia.edu:** https://bu.edu.eg/portal/index.php?act=55&prof_id=2839

AREA OF RESEARCH

- Studying the relationship between plants and surrounding Environment.
- Manipulation of growth regulators in the alleviation of biotic & a biotic stresses.
- Studying the metabolic pathways & interpreting the phenomena in plant growth & development
- Secondary metabolites as antimicrobial and antioxidant agents.
- Bioremediation, using hyperaccumulator plant species in the polluted areas.
- Plant Molecular Physiology.
- Bio-fertilizers & Bio-controls
- Medicinal plants
- Application of Nano- technology and tissue culture technique

Research Publications (Peer reviewed)

- 1-Radwan R. Khalil; **Aziza N. Moustafa**; Fardous M. Bassuony ,Samia A. Haroun; Kinetin and/or calcium affect growth of *Phaseolus vulgaris* L. plant grown under heavy metals stress (2017). Journal of Environmental Sciences, 2017; Vol. 46, No. 2 : 103-120
- 2- Radwan Khalil , Samia Haroun , Fardous Bassyoini , **Aziza Nagah**, Mohammad Yusuf ; Salicylic acid in combination with kinetin or calcium ameliorates heavy metal stress in *Phaseolus vulgaris* plant. Journal of Agriculture and Food Research 5 (2021) 100182. <https://doi.org/10.1016/j.jafr.2021.100182>
- 3- **Aziza Nagah** and Saadia Hamed Aly (2021): Physiological Approaches to Evaluate the Antioxidant and Antimicrobial Activities of Two Wild Euphorbiaceous Species of the Egyptian Flora, *Egyptian Academic Journal of Biological Sciences*, 12(2): 191-205-
DOI:10.21608/eajbsh.2021.298891
- 4- Doaa Bahaa Eldin Darwish, Mohammed Ali , Aisha M. Abdelkawy, Muhammad Zayed, Marfat Alatawy and **Aziza Nagah** (2022): “Constitutive overexpression of GsIMaT2 gene from wild soybean enhances rhizobia interaction and increases nodulation in soybean (*Glycine max*)”, *BMC Plant Biology* 22 (1), 1-18. DOI: 10.1186/s12870-022-03811-6

5- Soha Mohammed, Mostafa M. El-Sheekh, Saadia Hamed Aly, Maha Al-Harbi, Amr Elkelish and **Aziza Nagah** (2023):, “Inductive role of the brown alga *Sargassum polycystum* on growth and biosynthesis of imperative metabolites and antioxidants of two crop plants”, *Frontiers in Plant Science*, Volume -14, 1136325. DOI: 10.3389/fpls.2023.1136325

6-**Aziza Nagah**, Mohammed Ali, Saadia Hamed Aly, Soha Mohammed (2023): “Phytochemical Screening of Bioactive Components of the Brown Seaweed *Sargassum swartzii* and its Stimulatory Effect on Seed Germination of Fenugreek and Barely”, *Egyptian Journal of Aquatic Biology & Fisheries*, Vol. 27(2): 173 – 193. DOI: 10.21608/EJABF.2023.291673

7-Ghada E. Dawwam, Manar H. Fathy, Tamer M. Emam, Mohamed O. Abdel- Monem, Radwan Khalil, **Aziza Nagah** (2023): “Production of the phytohormone Indole Acetic acid by some rhizospheric bacteria associated with the Egyptian flora,” *Journal of Basic and Environmental Sciences* 10 (2023) 85-92.

8-**Aziza Nagah**, Mostafa M. El-Sheekh, Omnia M. Arief, Mashaal Daghash Alqahtani, Basmah M. Alharbi, Ghada E. Dawwam (2024): “Endophytic *Bacillus vallismortis* and *Bacillus tequilensis* bacteria isolated from medicinal plants enhance phosphorus acquisition and fortify *Brassica napus* L. vegetative growth and metabolic content,” *Frontiers in Plant Science*, Volume:15:1324538 . DOI: 10.3389/fpls.2024.1324538

9- Ahmed Ali Abdelhameed, Mohammed Ali, Doaa Bahaa Eldin Darwish, Manal Abdullah AlShaqhaa, Dalia Abdel-Fattah H. Selim, **Aziza Nagah** and Muhammad Zayed (2024): “Induced genetic diversity through mutagenesis in wheat gene pool and significant use of SCoT markers to underpin key agronomic traits” *BMC Plant Biology* 24:673, 1-14. DOI.org/10.1186/s12870-024-05345-5

THESIS SUPERVISION (in progress)

M.Sc. titled “Risk evaluation for air pollution effects on vegetation, Kalubia Governorate, Egypt”

Ph. D Thesis titled “Physiological And Genetic Studies On Carbon Nanotubs And Their Derivatives As A Biofertilizer And Disease Control In Tomato plant”.

REFERENCES:

1-Prof. Dr. **Mostafa Mohammed El-Sheekh** : Professor of Phycology, Botany Department, Faculty of Science, Tanta University--- mostafaelsheikh@science.tanta.edu.eg

2- Prof. Dr. **Mohamed Mahgoub Azzoz**: Professor of Plant Physiology, Botany and Microbiology Department, Faculty of Science at South Valley University--- Azzozm@yahoo.com

3- Prof. Dr. **Samia Ali Haroun**: Professor of Plant Physiology, Botany Department Faculty of Science Mansoura University--- samiaharoun@yahoo.com

4- Pro. Dr., **Gehan Hussein Ali Amin**, Professor of Plant Physiology, Botany and Microbiology Department, Faculty of Science, Zagazig University--- dr.gehanameen@gmail.com

5- **Muhammad Zayed**, Lecturer of Plant Physiology, Botany and Microbiology Department, Faculty of Science Menoufia University, mhdatefzayed@gmail.com

mhdzayed@science.menofia.edu.eg

عميد الكلية

أ.د. محمد أحمد هيكل

رئيس مجلس القسم

أ.د/ محمد عثمان عبد المنعم