PERSONAL INFORMATION

Name: **Aziza Nagah Moustafa Sayed Ahmed**

Date of birth: 8/4/1976

Nationality: Egyptian

Gender: Female

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Address: Faculty of Science, Benha university, Benha, Egypt, Postal Code 13518

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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 C_3 Plant Grown Under Heavy Metals Stress.

2004 **M. SC.,** Ecology, Taxonomy and Flora, Department of Botany, & Microbiology, Benha University, Kalyobia government, (Egypt).

1998 **Research topic**: Physiological Studies On *Ficus carica* L. Plant.

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

CAREER HISTORY

1- RESEARCH and TEACHING EXPERIENCE: 26 YEARS (1998-202)4)

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 PROGRAMMES	Good user of Costat Program ,Good user of SPSS Program
ADMINISTRATIVE POSITION	**Sharing member** at the Academic Control Of the second year (2019 -2021) **Member of the Plans and Schedules Committee** At Botany Department (2020 -Till now) **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 Chracterization" on 3-4/Febrauary, 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, Mashael 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," accepted 28-2-2024**.**

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

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

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

4- Muhammad Zayed, Associate Professor of Plant Physiology, Botany and Microbiology Department, Faculty of Science Menoufia University, mhdatefzayed@gmail.com---- mhdzayed@science.menofia.edu.eg

قائم باعمال عميد الكلية **رئيس مجلس القسم**

أ.د. نهاد البرقي **أ.د/ محمد عثمان عبد المنعم**