



DR. Ahmed Nazmy Abdelhamid Abdelghany

Assistant Professor, Faculty of Agriculture, Ain Shams University

Personal Information

- **Date of Birth:** November 19, 1988
- **Place of Birth:** Cairo
- **Marital Status:** Married with 3 children
- **Nationality:** Egyptian

Contact Information

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Academic Information and Occupational field

- **Occupation or position held:** Assistant Professor, Horticulture Department
- **Main activities and responsibilities:** Teaching and research activity
- **Name and address of employer:** Faculty of Agriculture, Ain-shams university, 68 Hadiak Shoubra St, Box. 11241, Cairo, Egypt.
- **Type of business or sector:** Education and research.

Career

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| 2020 : until now | Assistant Professor at the Department of Horticulture, Faculty of Agriculture, Ain Shams University. |
| 2015 : 2020 | Lecturer at the Department of Horticulture, Faculty of Agriculture, Ain Shams University. |
| 2012 : 2015 | Assistant lecturer at the Department of Horticulture, Faculty of Agriculture, Ain Shams University. |
| 2010 : 2012 | Demonstrator at the Department of Horticulture, Faculty of Agriculture, Ain Shams University. |

Academic Qualifications

1. Bachelor of Agricultural Sciences (Horticulture) – June 2009, Faculty of Agriculture, Ain Shams University.
2. Master's Degree in Agricultural Sciences (Horticulture – Ornamental and Medicinal Plants) – December 2012, Faculty of Agriculture, Ain Shams University.
Thesis: "Impact of Biofertilization on Growth, Volatile Oil Content, and Chemical Composition of Thyme (*Thymus vulgaris* L.)."
3. Ph.D. in Agricultural Sciences (Horticulture – Ornamental and Medicinal Plants) August 2015, Faculty of Agriculture, Ain Shams University.
Thesis: "Effect of Planting Distance and Mineral Fertilization on Growth, Yield, and Active Ingredients of Moringa Plant."
4. Promotion to Assistant Professor in Ornamental, Medicinal, and Aromatic Plants – November 2020.

Language Skills

- Arabic: Native speaker.
- English: Very good spoken and written.

IT Skills

- Microsoft Word, Excel and Power Point.
- SPSS Program (statistical package for social sciences).
- Internet navigation and browsing skills.

Scientific Supervision

Supervised multiple Master's and Ph.D. theses for graduate students and faculty associates in the Faculty of Agriculture, Ain Shams University, including:

1. Fardous Mohamed Tawfik – Ph.D. Candidate
Thesis Title: "Study of Certain Agricultural Practices and Extraction Methods to Improve Productivity and Quality of Moringa Oleifera Oil."
Status: Completed.
2. Doaa Suleiman Mohamed – Master's Candidate
Thesis Title: "Effect of Foliar Spraying with Methylo-trophic Bacteria as a Bio-Stimulant on Growth and Internal Chemical Components of Rosemary."
Status: Completed.

3. Omnia Mohsen Mahmoud – Master’s Candidate

Thesis Title: "Effect of Biofertilization on Growth, Yield, Active Ingredients, and Chemical Composition of Fennel."

Status: Completed.

4. Hesham Said Abdel Halim – Master’s Candidate

Thesis Title: "Impact of Irrigation Water Quantity and Salinity Level on Growth of Moringa Oleifera."

Status: Completed.

5. Abrar Ahmed Saad – Master’s Candidate

Thesis Title: "Role of Agricultural Extension in Post-Harvest Management of Horticultural Crops."

Status: Completed.

6. Omnia Mohsen Mahmoud – Ph.D. Candidate

Topic : Mitigation of Adverse Effects of Levels of Water Salinity Using Melatonin and a Mixture of Bio-stimulants on Calendula (Calendula officinalis L.) Plant

7. Mai Hosni Mohamed Rabie – Master’s Candidate

Thesis Title: "Effect of Foliar Spraying with Growth Stimulants on the Productivity and Active Ingredients of Basil."

Status: In progress.

8. Marwa Osman – Ph.D. Candidate

Topic: Researching advanced agricultural techniques for medicinal and aromatic plants.

Additionally, supervised numerous Master’s and Ph.D. theses for postgraduate students at the Institute of Environmental Studies and Research, including:

1. Ahmed Mohamed Ahmed Basal – Master’s Candidate

Thesis Title: "Environmental Studies on the Use of Nitrogen Fertilizers and Their Effect on Growth, Yield, and Active Content of Thyme."

Status: Completed.

2. Shaimaa Hassan Ghanem Mahmoud – Ph.D. Candidate

Thesis Title: "Impact of Eco-Friendly Treatments on the Flowering, Productivity, and Internal Composition of Chrysanthemum."

Status: In progress.

Teaching Activities

Undergraduate Courses

Medicinal and Aromatic Plants (209) – Covers basic knowledge of medicinal and aromatic plants, including their uses and cultivation techniques.

Production Techniques for Ornamental, Medicinal, and Aromatic Plants (408) – Focuses on advanced techniques for growing and managing ornamental, medicinal, and aromatic plants.

Ornamental and Medicinal Plant Crops (316) – Studies various crops within the ornamental and medicinal plant categories and their agricultural requirements.

Technology of Preparation, Storage, and Export of Horticultural Crops (212) – Teaches methods of preparing, storing, and exporting horticultural crops.

Physiology of Ornamental, Medicinal, and Aromatic Plants (308) – Examines the physiological processes in ornamental and medicinal plants.

Basics of Horticulture – Introduces fundamental horticultural practices.

Basics of Organic Plant Production (205 - English Program) – Focuses on organic agriculture principles and practices.

Medicinal and Aromatic Plants (English Program) – A comprehensive study of medicinal and aromatic plants for English program students.

Organic Production of Aromatic Herbs (English Program) – Covers organic cultivation of aromatic herbs within the English program.

Nursery Management, Seedling Production, and Tissue Culture (English Program) – Focuses on nursery operations, seedling production, and tissue culture techniques.

Postgraduate Courses:

Advanced Ornamental Plants (501) – In-depth study of ornamental plants, including their biology, growth requirements, and uses.

Landscaping (509) – Examines landscape design and its applications using ornamental plants.

Classification of Medicinal and Aromatic Plants and Active Ingredients (517) – Studies the classification systems for medicinal plants and their active ingredients.

Production of Medicinal and Aromatic Trees and Shrubs (523) – Covers production techniques specific to medicinal and aromatic trees and shrubs.

Weed Control in Medicinal Plants (529) – Focuses on managing weeds in medicinal plant cultivation.

Use of Tissue Culture Techniques in Production of Pharmaceutical Products (531) – Teaches the application of tissue culture in producing pharmaceutical compounds from plants.

Production of Ornamental Plants under Protected Conditions (514) – Studies the techniques for cultivating ornamental plants in controlled environments.

Floral Design (516) – Covers principles and techniques of floral arrangement and design.

Production of Spices, Condiments, and Beverages (522) – Discusses the production of plants used in spices, condiments, and beverages.

Organic Production of Aromatic Plants – Studies organic methods for cultivating aromatic plants.

Post-Harvest Treatment of Medicinal and Aromatic Plants (530) – Focuses on post-harvest techniques for preserving the quality of medicinal and aromatic plants.

Seed Production of Medicinal and Aromatic Plants (532) – Covers methods for producing and maintaining seeds of medicinal and aromatic plants.

- **Participation in teaching practical lessons for horticulture courses at the Higher Institute of Agricultural Cooperation from 2009 to the present, which include:**
- **Plant Physiology... Second Year**
- **Basics of Horticulture... Second Year**
- **Vegetable and Fruit Production... Third Year**
- **Post-Harvest Treatments... Fourth Year**
- **Supervising the scientific materials for horticulture subjects (preparing scientific material, creating practical exams, selecting instructors for practical lessons) from 2009 to the present.**
- **Participating in summer training and scientific trips for students of the Higher Institute of Agricultural Cooperation.**
- **Participating in external scientific and training visits to some model and advisory farms, as well as horticultural harvesting preparation and packaging stations.**
- **Participating in organizing several field days for researchers and postgraduate students (through research projects).**
- **Participating in summer training and visiting farms for ornamental, medicinal, and aromatic plant production at the Faculty of Agriculture, Ain Shams University.**

Research Activities

- 1. Impact of Amino Acids Complex Foliar Application on Vegetative Growth, Flowering Traits and Chemical Constituents of Marigold (*Calendula officinalis* L.) plants A.Nazmy and F. Arafa**
- 2. Evaluation of Spraying Amino Acids on Growth, Flowering and Chemical Constituents of Monte Casino Aster A.Nazmy and F. Arafa**
- 3. Effect of Selenium and Seaweed Extract Foliar Spraying on the Growth, Chemical Constituents and Mineral Composition of Rosemary and Moringa Plants A.Nazmy**
- 4. ENVIRONMENTAL STUDIES ON DIFFERENT NITROGEN FERTILIZERS ON GROWTH YIELD AND VOLATILE OIL OF THYME PLANT Basal A.M, M. H. Elsherif, Hemmat A.Ibrahim and A. Nazmy A. Hamid**

5. **Effect of Benzyl Adenine, Indole Acetic Acid and Gibberellic Acid on Vegetative Growth, Chemical Constituents and Volatile Oil Attributes of Sweet Basil Plants**
A. Nazmy Abdel-Hamid
6. **Impact of PINK PIGMENTED FACULTATIVE METHYLOTROPHIC BACTERIA AS A BIO-STIMULANT ON GROWTH, HERB YIELD AND VOLATILE OIL attributes OF ROSEMARY (*Rosmarinus officinalis* L.) plant** Doaa Soliman, Hosni A.M., Abdelhamid A.N. and Mona Arafa Mohammed
7. **Alleviation of salinity stress through magnetic water and nano zinc and magnesium Treatment of lemongrass plant (*Cymbopogon citratus* L.)** AdAbdelhamid A.N
8. **EFFECTIVENESS OF SOME AROMATIC OILS TREATMENTS ON QUALITY CONSERVATION OF PEPPERMINT FRESH CUT HERB UNDER COLD STORAGE** bdAbdelhamid A.N
9. **Response of Lemongrass plants to Magnesium Nanoparticles Loaded on Chitosan under Sandy Soil Conditions.** Hanan A.E.A. Hashem; Mohamed S. Mokhtar; A. Nazmy
10. **Changes in post-harvest quality of menthe and sage fresh cut herbs treated with citric acid, salicylic acid and chitosan under cold storage** Nazmy Abdel-Hamid
- 11- **Modulating the Rhizosphere Medium and Indole – 3–butyric Acid Supply Influence Rooting, Nutrients and Biochemical Constituents and Histological Features of *Pedilanthus tithymaloids***
- 12- **Silicon: A Powerful Aid for Medicinal and Aromatic Plants against Abiotic and Biotic Stresses for Sustainable Agriculture**
- 13- **Melatonin as a Key Factor for Regulating and Relieving Abiotic Stresses in Harmony with Phytohormones in Horticultural Plants – a Review**
- 14- **Exogenous Application of Humic Acid Mitigates Salinity Stress on *Pittosporum* (*Pittosporum tobira*) Plant by Adjusting the Osmolytes and Nutrient Homeostasis**
- 15- **Chemical characteristics of *Moringa oleifera* oil as affected by harvest- dates and extraction methods**
- 16- **Potentiating Biosynthesis of Alkaloids and Polyphenolic Substances in *Catharanthus roseus* Plant Using κ -Carrageenan**
- 17- **Effect of irrigation water quantity and salinity level on growth and internal chemical contents of *Moringa* plants**
- 18- **Exogenous Paclobutrazol Reinforces the Antioxidant and Antimicrobial Properties of Lavender (*Lavandula officinalis* L.) Oil through Modulating Its Composition of Oxygenated Terpenes**
- 19- **Effect of Zinc and Boron foliar application on leaf chemical composition of *Moringa oleifera* and on yield and characters of its seed oil**
- 20- **Effect of irrigation water quantity and salinity level on growth and internal chemical contents of *Moringa* plants**

Membership in Local and International Committees and Associations

1. Member of the Egyptian Moringa Scientific Association.
2. Member of the Agricultural Chemistry and Environmental Protection Association.
3. Member of the Scientific Association for Flowers and Ornamental Plants.
4. Member of the Exporters Union at the Ministry of Agriculture.

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Active Participation and Attendance at Conferences and Seminars

- **Time Management and Meetings Course – Training and Development Center – Ain Shams University from 21/8 to 22/8/2016**
- **International Publishing of Scientific Research Course – Training and Development Center – Ain Shams University from 4/10 to 5/10/2016**
- **University Administration Course – Training and Development Center – Ain Shams University from 14/2 to 15/2/2017**
- **Professional Ethics and Behavior Course – Training and Development Center – Ain Shams University from 5/11 to 6/11/2017**
- **Effective Presentation Course – Training and Development Center – Ain Shams University from 4/7 to 5/7/2017**
- **Trainer Preparation Course (T.O.T.) – Adult Education Center – Ain Shams University, November 2017**
- **International Publishing of Scientific Research Course – Training and Development Center – Ain Shams University from 5/11 to 6/11/2017**
- **Blended Learning Hunting a Scholarship Course – Training and Development Center – Ain Shams University on 26/12/2019**
- **Problem Solving and Decision Making Online Course – Training and Development Center – Ain Shams University on 29/4/2020**
- **Strategic Planning Course – Adult Education Center – Ain Shams University from 19/7 to 22/7/2020**
- **Legal Aspects in University Work for Faculty Members Course in October 2023**
- **Constructive Assessment for Learning Course in December 2023**
- **E-Learning Using ASU2Learn (Advanced Level) Course in April 2024**
- **Sustainable Development Course in August 2024**

Participation in Quality Assurance

- **Coordinator for the Financial Resources Standard in the Plant Production Program**
- **Active participation in the curriculum description for the Ornamental Plants branch in the Horticulture Department**
- **Attendance at courses related to the accreditation and quality authority (International Publishing Course and Curriculum Description Course)**
- **Executive member for the internal review of the Plant Production Program**
- **Attendance at internal quality committees' meetings in the Horticulture Department (Plant Production)**
- **Participation in developing the department's research plan and new regulations**

Community Activities

- 1. Participation in various community activities of the Horticulture Department and the Faculty**
- 2. Participation with the Adult Education Center at the university in the national literacy project through the Beheira Literacy Caravan on 29/2/2020**
- 3. Participation in developmental caravans for the environmental sector of the university, both in Cairo and other governorates**

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4. Participation in organizing community forums at the university related to the cultural season
5. Participation in summer student training at the faculty's nursery and in educating and guiding farmers in medicinal and aromatic plants
6. Participation in the development project for garden irrigation at the university

Training Courses, Workshops, and Conferences

1. Attended a training course titled [Human Resource Management (RHM)] as part of the Master Class Leadership Program in collaboration with the Egyptian Human Resource Management Association (EHRMA), the Egyptian-British Business Council (EBBC), and the Industrial Modernization Program (IMC) at the Ministry of Agriculture, Egypt, in 2013.
2. Attended a lecture by invitation from the Horticulture Department titled "Using Nanotechnology in Egyptian Agriculture" by Dr. Tahrir Salah, Agricultural Research Center, April 2013.
3. Attended a lecture by invitation from the Horticulture Department titled "Using Silicon in Horticulture" by Mr. Suleiman Abu Ghanima representing the private sector, March 2013.
4. Attended the Fifth Scientific Conference of the Agricultural Chemistry and Environmental Protection Association titled "Applied Research for Agricultural Development and Environmental Protection," held at the Hospitality House, Ain Shams University, 2012.
5. Attended the Eleventh Conference on Agricultural Development Research held at the Faculty of Agriculture, Ain Shams University, 2012.
6. Attended the Second International Cairo Conference on [Packaging Development], held at the Cairo International Conference Center, Cairo, Egypt, 2011.
7. Attended a workshop titled "Challenges of Agricultural Production and Environment in the Future" at the Conference Hall of the Faculty of Agriculture, Ain Shams University, 2013.
8. Attended the Annual Forum "Total Quality Management of Medicinal and Aromatic Plants and Their Products – Packaging System for Export Development" at the External Relations Building of the Ministry of Agriculture, Giza, 2011.
9. Attended the Second Scientific Conference of the Scientific Association for Flowers and Ornamental Plants in 2016.
10. Attended various training courses for faculty members at Ain Shams University from 2010 to the present.
11. Attended a workshop on Moringa Plant at the National Research Center.
12. Attended a workshop on the Role of Aromatic Plants in Treating Chronic Diseases at the Regional Center for Food and Feed in November 2024.
13. Attended a workshop on the most important horticultural applications in the context of climate change, held at Al-Azhar University in Cairo at November 2024 .

Scientific and Practical Expertise That Can Be Contributed

1. Field of technology for preparing, storing, handling, and exporting horticultural crops.
2. Designing specialized training courses for various production, fertilization, and post-harvest treatments for horticultural crops.
3. Managing and planning specialized agricultural educational programs.
4. Working in the field of garden landscaping and ornamental plants.
5. Extracting oils from medicinal and aromatic plants.