

CURRICULUM VITAE

DOAA ELAZAB



PROFILE:

Associate Professor in Horticulture Dept., Assiut University, Egypt. Expert in plant tissue culture and management of greenhouses, with 20 years of experience in laboratories management, and presently leader for scientific teamwork in Assiut University. She had important work experiences in many countries and different biology, biotechnology, agronomy and tissue culture laboratories: McGill University, Canada, in tissue culture lab and fruit physiological analysis; University of Bologna, Italy, Department of Agricultural and Food Sciences in plant tissue culture and molecular biology on apple; CNR-IBE Italy, CNR-IBE on a project for the cryopreservation of olive.

CARRIER LADDER:

1. **Associate Professor:** in Horticulture Department (pomology), Assiut University, Egypt. 2017- till now.
2. **Assistant Professor:** in Horticulture Department (pomology), Assiut University, Egypt. 2009 to 2017
3. **Adjunct Lecturer:** Horticulture Department (Pomology), Faculty of Agriculture, Assiut University, Egypt, from 2002 to 2009
4. **Practical Demonstrator:** Horticulture Department (Pomology), Faculty of Agriculture, Assiut University, Egypt, from 1997 to 2001.

SCIENTIFIC PROFESSIONAL EXPERIENCE:

- 2024 PRIN SO-LIVE research programs.
- 2021 Grant from Ferrero company
- 2019 post-doctoral fellowship
- 2017 Research grant

- **2014 Post-doctoral fellowship**
- **2009 Ph.D. (Philosophy Doctor in Pomology):** Horticulture Department (Pomology), Faculty of Agriculture, Assiut University.
- **2001 M.Sc. (master's degree in Pomology):** Horticulture Department (Pomology), Faculty of Agriculture, Assiut University.
- **1997 Agriculture Diploma:** Faculty of Agriculture, Assiut University, Assiut, Egypt, Very Good final grade.

PROFESSIONA SKILLS:

- Laboratory and greenhouse management.
- Biotechnological applications of tissue culture (synthetic seeds, organogenesis, biotic and abiotic stress, micrografting).
- Plant propagation (micropropagation, grafting, cutting propagation)
- Plant pathogen and plant protection.
- Plant nutrition and evaluation of physiological characteristics in the field.
- Cryopreservation of plant biodiversity.

TEACHING EXPERIENCES:

I have a diverse range of experience with dissemination of my science and teaching at different levels, from oral presentations for different types of students, and from practical exercises to lectures at university, from undergraduate to postgraduate students. My teaching experience is listed below.

PhD courses:

- Genetics and genetic improvement of drought resistance in crop plants, Egypt, 2015. 2 participants, in English. Role: Part of the organizing committee, lecturer, supervision of group work.
- Genetic improvement in Fig. Egypt, 2014. 1 participant, in English. Role: Part of the organizing committee, lecturer, supervision of group work.

Master courses:

- Plant tissue culture, Egypt, 2010, 3 students, in English, role: 6 lectures.
- Synthetic or Artificial seeds, technique and utilization, Egypt, 2012, 1 student, in English, role: The main of the organizing committee, lecturer, supervision of group work.
- Plant physiology under stress conditions, Egypt, 2013, 3 students, in English, role: Part of the organizing committee, lecturer, supervision of group work.

Bachelor courses:

- Plant nutrition, Egypt, 2010,2011,2012,2013,2015.15 students, in Arabic with English expressions, role: lecturer and supervisor in practical exercises.
- Basics for plant tissue culture, Egypt, 2012,2013,2016. 15 students, in English, role: lecturer and supervisor in practical exercises.
- Physiology of horticulture plants, Egypt, 2013,2016,2017.15 students, in Arabic with English expressions, role: lecturer and supervisor in practical exercises.
- Horticulture crops, yield quality and production, Egypt, 2018, 22 students, in Arabic with English expression, role: 4 lectures in conjunction with another departments, and supervisor in practical exercises.

LANGUAGES:

- Arabic: native language
- English: fluent
- Italian: Medium

CERTIFICATES AND WORKSHOPS:

- Training School on Dormant Bud Cryopreservation, Faenza, Italy, 2024.
- Basic concepts of gas chromatography and mass spectrometry, IBE/Institute of BioEconomy, National Research Council (CNR), 50019 Sesto Fiorentino, Florence, Italy.
- Biosafety and lab rules, Bologna University, Italy, 2019.
- International course on “Market Access for Food Security Towards Inclusive Market Development” at Wageningen University, The Netherlands, 2018.
- Workplace Hazardous Materials Information System (W.H.M.I.S.) certificate at McGill University, Canada, 2017.
- EndNote essentials workshop at McGill University, Canada, 2017.
- Prepping for your Lit Review: Organizing, Summarizing, and Critiquing Studies workshop at McGill University, Canada, 2017.
- Safe Use of Biological Safety Cabinets certificate at McGill University, Canada, 2017.
- My Research at McGill Library, 2014.
- Teaching with Technology Certificate, Assiut University, Egypt, 2012.
- Ethics and Morals in Work Certificate, Assiut University, Egypt, 2011.
- The short course on Plant Tissue Culture & Transformation certificate. Assiut University, Egypt, 2010.
- Workshop on Laboratory Biosafety and Its Levels, Assiut University, 2009.

- Workshop on Applications of Biotechnology, Assiut University, 2007.

PUBLICATIONS:

- **2025**, Marwa T. El-Mahdy, Dalia A. Abdel-Wahab and **Doaa S. Elazab**. Fourier-transform infrared spectroscopy detects changes in macromolecules of banana (*Musa spp.*) in vitro under cadmium toxicity, modulated by iron and zinc application. *Acta Physiologiae Plantarum*. <https://doi.org/10.1007/s11738-025-03796-3> (IF:2.8)
- **2024**, **Doaa Elazab**, Giancarlo Fascella, Claudia Ruta, Andrea Vitale and Maurizio Lambardi. Micropropagation of *Robinia pseudoacacia* L. Genotypes, Selected for Late Flowering Characteristics. *Horticulturae*, <https://doi.org/10.3390/horticulturae10121317>. (IF:3.1)
- **2024**, **Doaa Elazab**, Claudia Ruta, Maurizio Lambardi. In vitro conservation of *Zizyphus spina-christi* L. germplasm by using abscisic acid. Proceeding of the 2nd conference in Cost Action COPYTREE, 22-24 April 2024, Latvia.
- **2023**, **Doaa Elazab**, Maurizio Lambardi and Maurizio Capuana. In Vitro Culture Studies for the Mitigation of Heavy Metal Stress in Plants. *Plants*, 12, 3387. <https://doi.org/10.3390> (IF:4.5)
- **2023**, Elif Aylin Ozudogru , Elif Karlik, **Doaa Elazab**, Maurizio Lambardi. Establishment of an Efficient Somatic Embryogenesis Protocol for Giant Reed (*Arundo donax* L.) and Multiplication of Obtained Shoots via Semi-Solid or Liquid Culture. *Horticulturae*, DOI:10.3390/horticulturae9070735 (IF:3.1)
- **2023**, **Doaa S. Elazab**, M. Capuana, E.A. Ozudogru, M. Anichini, M. Lambardi. Use of Liquid Culture with the ElecTIS Bioreactor for Faster Recovery of Blackberry (*Rubus fruticosus* L.) Shoots from Conservation at 4 °C. *Horticulturae*, 9(6), 680; <https://doi.org/10.3390/horticulturae9060680>. (IF:3.1)
- **2023**, **Doaa S. Elazab**, M.T. El-Mahdy, M. Youssef, M.A. Eissa, A. Amro, M. Lambardi. Assessment of Salicylic Acid as a Pre-treatment on Alleviating Cadmium Toxicity on in vitro Banana Shoots. *Journal of Plant Growth Regulation*. <https://doi.org/10.1007/s00344-023-10951-y> (IF:4.8)
- **2023**, Elif Aylin Ozudogru , Elif Karlik, **Doaa Elazab**, Maurizio Lambardi. Establishment of Direct Organogenesis Protocol for *Arachis hypogaea* cv. Virginia in Liquid Medium by Temporary Immersion System (TIS). *Horticulturae* (8) 1129. <https://doi.org/10.3390/horticulturae8121129> (IF:3.1)
- **2022**, Claudio Todeschini, Giuliano Dradi, Romano Roncasaglia, Massimiliano Meneghini, Fabiano Gattabria, Alice Patella, **Doaa Elazab** and Maurizio Lambardi. Micropropagation of selected *Corylus colurna* clonal rootstocks. 10th International Congress on Hazelnut. Corvallis, OR (United States of America), 5-9 SEP.

- **2022, Doaa Elazab**, Claudio Depaoli, Tommaso Falciani, Maurizio Capuana, Elif Aylin Ozudogru, Maurizio Lambardi. Recovery from storage at 4°C of blackberries (*Rubus fruticosus*) by liquid culture in temporary immersion in an ElecTIS bioreactor. 4th National Conference on Micropropagation: A Meeting Between Sector and Research Operators. Bari, 12-14 OCT.
- **2022**, Marwa T. El-Mahdy, Muhammad Youssef and **Doaa S. Elazab**. In vitro screening for salinity tolerance in pomegranate (*Punica granatum L.*) by morphological and molecular characterization. *Acta Physiologiae Plantarum*, <https://doi.org/10.1007/s11738-022-03361-2> **(IF:2.6)**
- **2021, Doaa S. Elazab**, Dalia A. Abdel-Wahab and Marwa T. El-Mahdy. Iron and zinc supplies mitigate cadmium toxicity in micropropagated banana (*Musa spp.*) *Plant Cell, Tissue and Organ Culture (PCTOC)*, 1-11. DOI: 10.1007/s11240-021-02013-6. **(IF:3.0)**
- **2020, Doaa S. Elazab**, Mohamed Ahmed Ibrahim Ahmed, Marwa T. El-Mahdy and Ahmed Amro. Citrus Leafminer Management: Jasmonic Acid versus Efficient Pesticides. *Journal of Plant Growth Regulation*. <https://doi.org/10.1007/s00344-020-10147-8> **(IF:4.8)**
- **2020**, M. Elmahdy and **Doaa S. Elazab**. Impact of Zinc Oxide Nanoparticles on Pomegranate Growth under In Vitro Conditions. *Russian Journal of Plant Physiology*, 67(1), 162-167. **(IF:1.4)**
- **2017, Doaa S. Elazab** and Youesef M. In vitro Response of Some Banana Cultivars to Salicylic Acid Treatment Under Salinity Stress. *AJAS*. 48 (4): 168-184. ISSN:1110-0486.
- **2016, Doaa S. Elazab**, El-Agamy S. Z., A. M. A. El-Sese, H. A. Abdel-Galil and S. S. Abdel-Rahman. Protocol for synthetic seeds production in Napq (*Ziziphus spina-christi L.*). *Proceeding of 2nd Global Summit on Plant Science. Journal of Plant Physiology & Pathology*. 4(4): 39. ISSN: 2329-955X.
- **2016, Doaa Elazab** and Aida M. Elzawahry. Effect of Salicylic Acid on Enhancing Growth, Some Nutrients Concentration and Carbohydrates Metabolism on Pomegranate Seedlings infected with *Meloidogyne javanica*. *AJAS*. 47 (3): 61-77.
- **2016, Doaa S. Elazab**. Extended Antioxidants Induced Effects on Mandarine Seedlings (*Citrus reticulata L.*) Growth and Physiological Parameters Under Saline Irrigation Conditions. *American-Eurasian J. Agric. & Environ. Sci.*, 16 (2): 362-373.
- **2015**, Mostafa, F. M. A.; M. M. Shaaban; **Doaa S. Elazab** and Marwa T. Kamel. In Vitro Propagation of Four Grapes Cultivars. *Assiut J. Agric. Sci.*, 46 (4): 65-76.
- **2015**, M. Youssef and **Elazab D. Sh.** Molecular Analysis of *Ziziphus spp.* Cultivars in Egypt. *Proc. III IS on Molecular Markers in Horticulture, Trento, Italy (Ed. R. Velasco)*. *Acta Hort.* 1100: 37-44.
- **2009**, El-Agamy, S.Z., El-Mahdy, T K., **El-Kasas, D.Sh.** In Vitro Propagation of *Zizyphus spina-christi L.* *Proceedings of the First International Symposium on Biotechnology of Fruit Species, London, UK. Acta Hort.* 839: 133-140.
- **2009, Ph.D.** In vitro Conservation of Nabq (*Zizyphus spina-christi L.*) Germplasm. Horticulture Department (Pomology), Faculty of Agriculture, Assiut University, Assiut.

- **2001, M.Sc.** Thesis in *Zizyphus spina_Christi* in vitro Micropropagation, and Salinity tolerance & Drought tolerance. Horticulture Department (Pomology), Faculty of Agriculture, Assiut University, Assiut.