Nahla El-Sherif

Contact address

Mobile: +201095732070 **E-mail:** elsherif.nahla@sci.asu.edu.eg

Personal Profile

- Surname: El-Sherif
- First Name: Nahla
- Date of birth (dd/mm/yy): 06/05/1974
- Nationality: Egyptian
- Full time position: Professor of Plant Molecular Genetics
- Name of Institute: Ain Shams University, Faculty of Science, Cairo, Egypt
- Full address of Institute: Abasseya, Postal Code:11156, Cairo, Egypt
- Tel: +20244823378- Mobile phone: +201095732070
- E-mail: elsherif.nahla@gmail.com, elsherif.nahla@sci.asu.edu.eg
- Research Interest: Plant molecular stress physiology and genetics, in particular induction of antioxidant genes in response to both biotic and abiotic stress factors.

Education

- Ain Shams University, Faculty of Science, Cairo, Egypt, BSc.Botany major 1992-1996
- Ain Shams University, Faculty of Science, Botany Department, Cairo, Egypt., MSc. 1997-2000, Cytology and Genetics
- Purdue University, West Lafayette, IN, USA., PhD, 2001-2008, Plant Molecular Genetics

Work Experience

- Professor, Plant Molecular Genetics, Faculty of Science, Ain Shams University, Cairo, Egypt (current full time position)

- Director of Central Laboratory Unit, Facuty of Science, Ain Shams University (October 2024 till now)

- Associate Professor, Biology Department, Taibah University, Al Madinah Al Monawara, KSA (2013- 2021)

- Lecturer, Molecular Genetics Unit, Department of Botany, Faculty of Science, Ain Shams University; (2008- 2013)

- Instructor, Genetic Engineering, (for third year students), Faculty of information and computer sciences, bioinformatics unit, Ain Shams University; Fall semester, (2009-2011).

- Instructor, Introduction to cell molecular biology (for second year students), Faculty of information and computer sciences, Bioinformatics Unit, Ain Shams University; Fall semester, (2009-2011).

- Instructor, Advanced Cell Biology (for second year students), Faculty of information and computer sciences, bioinformatics unit, Ain Shams University; Fall semester, 2009- 2011 (lectures and Labs)

- Graduate student in the PhD program, Purdue University, Horticulture and Landscape Architecture, IN., USA (2002-2008)

- Research assistant in the Molecular Physiology lab, Purdue University, Horticulture and Landscape Architecture Dept., USA (2002-2008)

- Teaching Assistant in Purdue University, Horticulture and Landscape Architecture Dept, IN, USA (2003-2004)

- Research assistant in AGERI (Agricultural Genetic Engineering Research Institute). Giza, Egypt (1997-2001)

- Assistant lecturer, Botany Dept., Faculty of Science, Ain Shams University; (1999- 2001)

- Demonstrator, Botany Dept., Faculty of Science, Ain Shams University. (1996-1999).

Selected Publications

- Development of Transgenic Egyptian Cotton Varieties Using Bacterial Fructosyl Transferase Gene Coding for Fructan accumulation (2001). Nahla A. El-Sherif, Osama A. Momtaz and Magdy. Proceedings of the 2001 Beltwide Cotton Conferences. Jan 9-13, Anaheim, CA. p1423-1429.

- Regulation of an Arabidopsis glutathione S-transferase gene (AtGSTU19) by herbicide safeners (2008). El-Sherif, Nahla Purdue University, IN, USA PhD thesis http://docs.lib.purdue.edu/dissertations/AAI3330227/

- Comparative analysis of Arabidopsis, wheat and maize glutathione S-transferases and their contribution to herbicide detoxification (2006). Takahashi, Kana, El-Sherif, Nahla, Sakuta, Masaaki and Goldsbrough, Peter B. Poster presentation of the 2006 proceedings of American Society of Plant Biologists page P39026 p284

- Salicylic Acid is Required for Safener-Induced Expression of Glutathione S-Transferases in Arabidopsis (2007). El-Sherif Nahla and Goldsbrough S. Poster presentation of the 2007 proceedings of Botany and Plant Biology 2007 Joint Congress P36005 Abstract ID 282.

- Effect of TYLCV and salinity on growth and activity of some antioxidant enzymes in tomato plants (2012). Lamiaa F. El-Gaied and Nahla El-Sherif. Egypt. J. genet. Cytol., 41:123-135.

- Expression of aquaporin gene (OsPIP1-3) in salt-stressed rice (Oryza sativa L.) plants pre-treated with the neurotransmitter (dopamine) (2012). Amal F. Abdelkader, Sahar El-khawas, Nahla Amin Safaa El-Din El-Sherif, Raifa A. Hassanein, Manal Asem Emam, Rasha El-Sherif Hassan POJ 5(6):532-541

- Effects of ultraviolet radiation on cytological and molecular aspects of tomato (2013). Nahla A. El-Sherif, Roba Ismail and Lamiaa F. El-Gaied: Egyptian Journal of Genetics and Cytology. 42:103-126.

- Effect of growth hormones on some antioxidant parameters and gene expression in tomato (2013). Lamiaa F. El-Gaied, Ghada A. Abu El-Heba and Nahla A. El-Sherif. GM Crops and Food: Biotechnology in Agriculture and the Food Chain 4:1, 1-7.

- Genetic variation in Egyptian white lupin (*Lupinus albus* L.) genotypes based on combined data of ISSR and fluorescence-based AFLP markers (2014). Nahla A. El-Sherif, Amina A. Mohamed, M. E. Saad, Hoda Barakat and Sara Aly: Egyptian Journal of Genetics and Cytology, 43:1-23.

- Improvement of some nutritional values of tomatoes via salinity (2014). Nahla A. El-Sherif and Lamiaa F. El-Gaied: Egyptian Journal of Genetics and Cytology, 43:133-142.

- Biological and molecular characterization of a Geminivirus affecting pepper plants in Egypt (2014). El-Gaied L. F., El-Sherif N. A. and Salem R.E. Arab Journal of Biotechnology, 17(2):167-184.

- Biochemical Assessments of heat tolerance/sensitivity in some Egyptian maize hybrids (2015). M. M. Sakr, Nahla A. El-Sherif and Marwa M. Ghonaim. Egypt. J. Plant Breed. 19(6):1837-1851.

- UV-A and UV-B induced effects on tomato plants (Solanum lycopersicum L.) (2016). Mohamed M. Mohamed, Nahla A. El-Sherif, Abdelsatter, M. Sallam and El -Sayed M. El-Sayed. IJISET (International Journal of Innovative Science, Engineering and Technology, Vol. 3, Issue 6: 118-123.

- Evaluation of genetic variation, antioxidant and antibacterial activities of two sidr varieties, accepted in “Pakistan Journal of Pharmaceutical Sciences”, April 10th, 2018.

- High-throughput retrotransposon-based genetic diversity of maize germplasm assessment and analysis (2020). Marwa Ghonaim, Ruslan Kalendar, Hoda Barakat, Nahla Elsherif, Naglaa Ashry and Alan H. Schulman. Molecular Biology Reports, Vol. 47:1589–1603.

- In silico Analysis of Polyamine Rich Transgenic Tomato Fruit Transcriptome for Salicylic Acid Biosynthesis (2020). Nahla El-Sherif, Faten Y. Ellmouni and Mohamed Ibrahim. Egypt. J. Bot. Vol. 60, No. 2. pp. 487-502.

- Genetic diversity of grapevine (*Vitis vinifera* L.) cultivars in Al-Madinah Al-Munawara based on molecular markers and morphological traits (2020). Usama K Abdel-Hameed, Khawla Abdelaziz and Nahla Elsherif. Bangladesh Journal of Plant Taxonomy Vol. 27 (1):113-127.

- Genetic Diversity among Selected Medicago sativa Cultivars Using Inter-Retrotransposon-Amplified Polymorphism, Chloroplast DNA Barcodes and Morpho-Agronomic Trait Analyses (2020). Abdelfattah Badr, Nahla El-Sherif, Sara Aly, Shafik D. Ibrahim and Mohamed Ibrahim. Plants. Vol. 9 (8):995

- El-Sherif NA (2022) Salicylic acid and its crosstalk with other plant hormones under stressful environments. In: *Managing plant stress using salicylic acid: physiological and molecular aspects*, pp 304–317 https://doi.org/10.1002/9781119671107.ch16

- Pandey, P., Gupta, A., & Elsherif, N. (2023). Editorial: The interaction of biotic and abiotic stresses. *Frontiers in Plant Science,*14. https://doi.org/10.3389/fpls.2023.1332375

- Morsy A, El-Sherif N (2024) Integrating Omics approaches for abiotic stress tolerance in plants. In: Hasanuzzaman M, Nahar K (eds) Abiotic stress in crop plants-ecophysiological responses and molecular approaches. IntechOpen