

Dr. Mostafa Ahmed Aboulela Mohamed

Lecturer

Botany and microbiology Dept., Faculty of Science,

Assiut University,

ASTU Herbarium

71516, Assiut, Egypt

Fax No.: 002-088-2080209

E-mail: mostafa.aboulela@aun.edu.eg

1. Academic qualifications

- B.Sc. in Biology-Botany (**Assiut University, Egypt; 2005**);
- M.Sc. in Plant Systematics and Flora of Egypt (**Assiut University, Egypt; 2010**);
- Ph.D. in Plant Taxonomy and Development (**Tottori University, Japan; 2017**).

2. List of publications

1. Sultana M, Kumar Dutta A, Tanaka Y, **Aboulela M**, Nishimura K, Sugiura S, Niwa T, Maeo K, Goto-Yamada S, Kimura T, Ishiguro S, Mano S, Nakagawa T. Gateway binary vectors with organelle-targeted fluorescent proteins for highly sensitive reporter assay in gene expression analysis of plants. ***Journal of Biotechnology*** **297**, 19-27, Mar., 2019 . (**IF = 3.16**)
2. **Aboulela M**, Nakagawa T, Oshima A, Nishimura K, Tanaka Y. The Arabidopsis COPII components, AtSEC23A and AtSEC23D, are essential for pollen wall development and exine patterning. ***Journal of Experimental Botany*** **69**, 1615-1633, Jan., 2018. (**IF = 5.36**)
3. **Aboulela M**, Tanaka Y, Nishimura K, Mano S, Kimura T, Nakagawa T. A dual-site gateway cloning system for simultaneous cloning of two genes for plant transformation. ***Plasmid*** **92**, 1-11, May, 2017a. (**IF = 2.57**)

4. **Aboulela M**, Tanaka Y, Nishimura K, Mano S, Nishimura M, Ishiguro S, Kimura T, Nakagawa T. Development of an R4 dual-site (R4DS) gateway cloning system enabling the efficient simultaneous cloning of two desired sets of promoters and open reading frames in a binary vector for plant research. **PLOS ONE 12**, e0177889, May, 2017b. **(IF = 3.05)**
5. Hassan N, Fayed A, El- Karemy Z, **Aboulela M**. Role of pollen grain structure in the taxonomy of the family Asteraceae in Egypt. Tribe Anthemideae. **Proceedings of the sixth international Conference of Biological Science (Botany)**, 6: 1-14, Nov., 2010a.
6. Hassan N, Fayed A, El- Karemy Z, **Aboulela M**. Palynological studies on tribes Cardueae and Lactuceae (Asteraceae) in Egypt. **Assiut University Journal of Botany**, 39 (2): 93-117, Dec., 2010b.

3. Previous Position and Professional Background

- Demonstrator, Botany and microbiology department, Faculty of Science, Assiut University, Egypt, 12-2005.
- Assistant lecturer, Botany and microbiology department, Faculty of Science, Assiut University, Egypt, 10-2010.
- Lecturer, Botany and microbiology department, Faculty of Science, Assiut University, Egypt, 11-2017.

4. Teaching Experience

Teaching several courses in:

- Taxonomy of Flowering Plants I, II (Science, Education, Agriculture, and Pharmacy students).
- Flora of Egypt (Science and Education students).
- Plant Morphology (Science, Education, and Agriculture students).
- Plant Anatomy (Science, Education, and Agriculture students).
- Palynology (Science students).

- Medicinal Plants (Science students).
- Plant Cytology (Science students).
- General Botany (Science, Education, Agriculture, and Pharmacy students).

5. Research Interests

- Taxonomy of flowering plants, Genotyping, and DNA barcoding.
- Floristic studies at different geographical regions in Egypt.
- Pollen morphology and ultrastructure.
- Pollen development and exine patterning.
- Gene identification and molecular characterization.
- Gene cloning and vector construction.
- Plant transformation.

6. Scientific Skills

- Plant Herbarium techniques and plant Identification methods.
- Microtome technique and plastic sectioning.
- Tissue culture technique and plant regeneration.
- DNA extraction from plant tissues and DNA sequencing.
- RNA extraction from plant tissues and reverse transcription.
- Plant transformation and gene expression analysis.
- Primer design, PCR techniques, protein and electrophoresis techniques.
- Scanning electron microscopy, confocal microscopy and live imaging.

7. List of Conference Contributions

- October, 15-16th 2019, *International Plant Genetics and Genomics Symposium 2019*, Faculty of Agriculture, Assiut University, Egypt.

- September, 8-10th 2017, *The 81st Annual Meeting of the Botanical Society of Japan*, (Poster), Noda Campus, Tokyo University of Science, Chiba.
- September, 20-22th 2015, *The 9th International Conference on Bioinformatics and Biomedical Engineering*, (oral), Shanghai, China.
- March, 27-29th 2015, *The 2015 Annual Meeting of the Japan Society for Bioscience, Biotechnology and Agrochemistry*, (oral), Okayama, Japan.
- March, 28-30th 2014, *The 2014 Annual Meeting of Japan Society for Bioscience, Biotechnology and Agrochemistry*, (oral), Tokyo, Japan.
- September, 6-8th 2013, *The 37th Chu-Shikoko conference of Japan society for Bioscience, Biotechnology, and Agrochemistry*, (oral), Hiroshima, Japan.
- April, 19-20th 2011, *The Third Conference for Young Researchers, Basic Science & Technology*, (poster), Assiut University, Egypt
- March, 4-5th 2009, *The First International Conference of Biological Science*, Assiut University, Egypt.
- May, 5-6th 2007, *The First Conference for Young Scientists (Basic Science and Technology)*, Assiut University, Egypt.

8. Scientific Societies Joined

- The Japanese society of Bioscience, Biotechnology, and Agrochemistry.
- The Botanical Society of Japan.

9. Projects

- August 2019- till date, coordinator at a national project “The National Network for Egyptian Herbaria”.
- May, 2010, Participant in a national project “National Surveys of the Medicinal Plants Conservation in Egypt”.
- October, 2006 - 2009, Member in “Quality Assurance and Accreditation Project (QAAP)”. Faculty of Science, Assiut University.