

Mona Fathi Abd Elmowla Dawood

Associate Professor in Plant Physiology
Botany & Microbiology Department
Faculty of Science
Assiut University (71516), Egypt



PERSONAL PROFILE

Gender: Female

Date of Birth: 24th October 1987

Place of Birth: Assiut - Egypt

Marital Status: Married

Nationality: Egyptian

Postal code: 71516

Fax No.: 002-088-2080209

Mobile: +81-070-1615-4149

E-mail: mona.fathi.abdelmowla.dawood.fn@tut.jp, Mo_fa87@aun.edu.eg,
Mo_fa87@yahoo.com, Monabotany@gmail.com,

RESEARCH INFORMATION

- **WOS Researcher ID:** <https://www.webofscience.com/wos/author/record/AAC-9264-2020>

○ WOS H-index = 15



- **Scopus Author ID:** [Scopus Author ID: 57204608092](https://scopus.com/authorid/57204608092)

○ Scopus H-index = 17



- **Google Scholar:** <https://scholar.google.com/citations?user=Xj1-03MAAAAJ&hl=en>

○ Google Scholar H-index = 19



- **ORCID:** <https://orcid.org/0000-0003-1387-6135>



ACADEMIC QUALIFICATIONS

- **B. Sc. Degree** in Botany science with grade “ excellent with honor” from Assiut University, Egypt. **July 2008**
- **Diploma** of high studies in Plant Physiology with excellent grade from Faculty of Science – Assiut University – Egypt. **November 2010**
- **Master's Degree** in Plant Physiology “**Interactive effect of NaCl salinity and Indole acetic acid or Salicylic acid of three broad bean genotypes**” Faculty of Science – Assiut University – Egypt. **September, 2012**
- **Doctoral Degree** in Plant Physiology “**Influence of Titanium Dioxide Nanoparticles, Selenium and Silicon on Some Wheat Cultivars under Drought Stress**” Faculty of Science – Assiut University – Assiut – Egypt. **April, 2016.**
- **Associate Professor (with science excellence)** in Plant Physiology – Faculty of Science – Assiut University – Egypt. **July, 2021.**
- **Post-doctoral in Toyohashi University of Technology (TUT), Toyohashi, Aichiae, Japan.**

EMPLOYMENT HISTORY

- **February 2009 - September 2012: Demonstrator** at Botany and Microbiology Department, Faculty of Science, Assiut University, Egypt.
- **September 2012 - May 2016: Assistant lecturer** at Botany and Microbiology Department, Faculty of Science, Assiut University, Assiut, Egypt.
- **May 2016 – July, 2021: Assistant Professor** in Botany and Microbiology Department, Faculty of Science, Assiut University, Assiut, Egypt.

- **July, 2021 – October, 2022: Associate Professor** in Botany and Microbiology Department, Faculty of Science, Assiut University, Assiut, Egypt.
- **October, 2022 – until now: Post-doctoral Researcher in Toyohasi University of Technology, Toyohashi, Aichi, Japan.**

PUBLISHED ARTICLES

- 1- Mohamed S. Sheteiwy, Farwa Basit, Ali El-Keblawy, Izabela Joškod, Saghir Abbasb, Haishui Yang, Shereen Magdy Korany, Emad A. Alsherif, **Mona F. A. Dawood**, Hamada AbdElgawad (2023). Elevated CO₂ differentially attenuates beryllium-induced oxidative stress in oat and alfalfa. *Physiologia Plantarum* (IF= **6.3**)
- 2- Abdelrazek S. Abdelrhim, Yasmin M.R. Abdellatif, Mohammad A. Hossain, Saud Alamri, Mohammad Pessaraki, Amna M.N. Lessy, and **Mona F. A. Dawood** (2023). Comparative Study of Three Biological Control Agents and Two Conventional Fungicides against Coriander Damping-off and Root Rot Caused by *Rhizoctonia solani*. *Plants* 2023. <https://doi.org/10.3390/xxxxx>.
- 3- Huwida A. A. Abdel-Kader, Naeima Yousef, Mohammad Anwar Hossain, and **Mona F. A. Dawood** (2023). Lipid Production, Oxidative Status, Antioxidant Enzymes and Photosynthetic efficiency of *Coccomyxa chodatii* SAG 216-2 in Response to Calcium Oxide Nanoparticles. Accepted, *Phyton-International Journal of Experimental Botany*. DOI: 10.32604/phyton.2023.028583. (IF= **1.79**)
- 4- Nabil A. Younes, Touhidur Rahman Anik, Md. Mezanur Rahman, Ahmed A. Wardany, **Mona F.A. Dawood**, Lam-Son Phan Tran, Arafat Abdel Hamed Abdel Latef, Mohammad Golam Mostofab (2023). Effects of microbial biostimulants (*Trichoderma album* and *Bacillus megaterium*) on growth, quality attributes and yield of onion under field conditions. *Heliyon* (IF= **3.776**).
- 5- **Mona FA Dawood**, Sofy, M. R., Mohamed, H. I., Sofy, A. R., & Abdel-Kader, H. A. (2022). N-or/and P-deprived *Coccomyxa chodatii* SAG 216–2 extracts instigated mercury tolerance of germinated wheat seedlings. *Plant and Soil*, 1-29. (IF= **4.99**).
- 6- Ahmed, A. A., **Mona FA Dawood**, Elfarash, A., Mohamed, E. A., Hussein, M. Y., Börner, A., & Sallam, A. Genetic and morpho-physiological analyses of the

- tolerance and recovery mechanisms in seedling stage spring wheat under drought stress. *Frontiers in Genetics*, 2724. **(IF= 4.772)**.
- 7- Mohamed Sheteiwy, Zaid Ulhassan, Weicong Qi, Haiying Lu, Hamada AbdElgawad, Tatiana Minkina, Svetlana Sushkova, Vishnu D. Rajput, Ali El-Keblawy, Izabela Josko, Saad Sulieman, Mohamed A. El-Esawi, Khaled A. El-Tarabily, Synan AbuQamar and **Mona FA Dawood** (2022). Association of jasmonic acid priming with multiple defense mechanisms in wheat plants under high salt stress. *Frontiers in Plant Science*, Accepted. **(IF= 6.627)**.
- 8- **Mona F. A. Dawood**, Sofy, M. R., Mohamed, H. I., Sofy, A. R., & Abdel-kader, H. A. (2022). Hydrogen Sulfide Modulates Salinity Stress in Common Bean Plants by Maintaining Osmolytes and Regulating Nitric Oxide Levels and the Expression of Antioxidant Enzyme Expression. *Journal of Soil Science and Plant Nutrition*, 1-19. **(IF= 3.6)**.
- 9- Ragaey, M. M., Sadak, M. S., **Mona F. A. Dawood**, Mousa, N. H., Hanafy, R. S., & Latef, A. A. H. A. (2022). Role of Signaling Molecules Sodium Nitroprusside and Arginine in Alleviating Salt-Induced Oxidative Stress in Wheat. *Plants*, 11(14), 1786. **(IF= 4.6)**.
- 10- **Mona F. A. Dawood**, Md. Tahjib-Ul-Arif, Abdullah Al Mamun Sohag, Arafat Abdel Hamed Abdel Latef (2022). Fluoride mitigates aluminum-toxicity in barley: morpho-physiological responses and biochemical mechanisms. *BMC Plant Biology*, 22:287. **(IF= 4.9)**.
- 11- Abdelrhim, A. S., Mazrou, Y. S., Nehela, Y., Atallah, O. O., El-Ashmony, R. M., & **Mona F. A. Dawood** (2021). Silicon Dioxide Nanoparticles Induce Innate Immune Responses and Activate Antioxidant Machinery in Wheat Against *Rhizoctonia solani*. *Plants*, 10(12), 2758. **(IF= 4.6)**.
- 12- **Mona F. A. Dawood**, Abu-Elsaoud, A. M., Sofy, M. R., Mohamed, H. I., & Soliman, M. H. (2022). Appraisal of kinetin spraying strategy to alleviate the harmful effects of UVC stress on tomato plants. *Environmental Science and Pollution Research*, 1-21. **(IF= 4.223)**.
- 13- **Mona F. A. Dawood**, Hussein, N. A., Ismail, M. A., El-Khatib, A. A., & Ragaey, M. M. (2022). Improvement of Germination, Phosphate Efficiency, Antioxidants, Metabolic Products, and Yield of Wheat Plants by *Aspergillus niger* and *Penicillium chrysogenum*. *Egyptian Journal of Botany*.
- 14- Marwa M. Ragaey, Nemmat A. Hussein, Mady A. Ismail, Arwa A. M. El Khatib, **Mona F. A. Dawood** (2022). Impact of phosphate solubilizing fungi on soil properties and physiological parameters of pepper plants. *Egypt. J. Exp. Biol. (Bot.)*, 18(1): 95 – 121
- 15- Abdelrhim, A. S., **Mona F. A. Dawood**, & Galal, A. A. (2021). Hydrogen peroxide-mixed compounds and/or microwave radiation as alternative control

- means against onion seed associated pathogens, *Aspergillus niger* and *Fusarium oxysporum*. *Journal of Plant Pathology*, 1-15. **(IF= 2.1)**.
- 16- Mourad, A. M., Amin, A. E. E. A. Z., & **Mona F. A. Dawood** (2021). Genetic variation in kernel traits under lead and tin stresses in spring wheat diverse collection. *Environmental and Experimental Botany*, 192, 104646. **(IF= 6.547)**.
- 17- Sofy, M., Mohamed, H., **Mona F. A. Dawood**, Abu-Elsaoud, A., & Soliman, M. (2021). Integrated usage of arbuscular mycorrhizal and biochar to ameliorate salt stress on spinach plants. *Archives of Agronomy and Soil Science*. **(IF= 3.2)**.
- 18- **Mona F. A. Dawood**, Zaid, A., & Latef, A. A. H. A. (2021). Salicylic Acid Spraying-Induced Resilience Strategies Against the Damaging Impacts of Drought and/or Salinity Stress in Two Varieties of *Vicia faba* L. Seedlings. *Journal of Plant Growth Regulation*, 1-24 **(IF= 2.672)**.
- 19- Younes, N.A.; Rahman, M.; Wardany, A.A.; **Mona F. A. Dawood**; Mostofa, M.G.; Keya, S.S.; Latef, A.A.H.A. Antioxidants and Bioactive Compounds in Licorice Root Extract Potentially Contribute to Improving Growth, Bulb Quality and Yield of Onion (*Allium cepa*). *Molecules* 2021, 26, x. <https://doi.org/10.3390/xxxxx> **(IF= 3.2)**.
- 20- Nashwa Sallam, Heba-Alla AbdElfatah, **Mona F. A. Dawood**, Elhagag Hassan & Mohamed Mohamed, Hadeel Bagy (2021). Physiological and histopathological assessments of the susceptibility of different tomato (*Solanum lycopersicum*) cultivars to early blight disease. *European Journal of Plant Pathology*. 10.1007/s10658-021-02275-y. **(IF= 1.72)**
- 21- **Mona F.A. Dawood**, Abdullah A. Sohag, Md. Tahjib-Ul-Arif, Arafat A. Abdel Latef (2021). Hydrogen sulfide priming can enhance the tolerance of artichoke seedlings to individual and combined saline-alkaline and aniline stresses. *Plant Physiology and Biochemistry*, 159: 347–362 **(IF= 3.72)**
- 22- **Mona F.A. Dawood**; Tahjib-Ul-Arif, M.; Sohag, A.A.M.; Abdel Latef, A.A.H.; Ragaey, M.M. (2021). Mechanistic insight of allantoin in protecting tomato plants against ultraviolet C stress. *Plants* 2021, 10, 11. **(IF: 2.752)**.
- 23- Yasser S. Moursi, Samar G. Thabet, Ahmed Amro, **Mona F. A. Dawood**, P. Stephen Baenziger, Ahmed Sallam (2020): Detailed Genetic Analysis for Identifying QTLs Associated with Drought Tolerance at Seed Germination and Seedling Stages in Barley. *Plants-Basel*, 9(11): 1425. **(IF: 2.752)**
- 24- **Mona F. A. Dawood**, Yasser S. Moursi, Ahmed Amro, P. Stephen Baenziger, Ahmed Sallam (2020). Investigation of heat-induced changes in the grain yield and

- grains metabolites, with molecular insights on the candidate genes in barley. *Agronomy*, 10, 1730. **(IF: 2.6)**
- 25- **Mona F.A. Dawood**, Mohamed M. Azooz (2020). Insights into the oxidative status and antioxidative responses of germinating broccoli (*Brassica oleracea* var. *italica* L.) seeds in tungstate contaminated water. *Chemosphere*, 261 : 127585. **(IF: 5.77)**.
- 26- Latef, A.A.H.A., **Mona FA Dawood**, Hassanpour, H., Rezayian, M., & Younes, N. A. (2020). Impact of the Static Magnetic Field on Growth, Pigments, Osmolytes, Nitric Oxide, Hydrogen Sulfide Phenylalanine Ammonia-Lyase Activity, Antioxidant Defense System, and Yield in Lettuce. *Biology*, 9(7), 172. **(IF: 3.57)**.
- 27- **Mona F.A. Dawood** and Abeed A.H.A. (2020). Spermine-priming restrained water relations and biochemical deteriorations prompted by water deficit on two soybean cultivars. *Heliyon* 6 (2020) e04038. **(IF: 3.7)**
- 28- Bashandy, S. R., Abd-Alla, M. H., & **Mona F.A. Dawood** (2020). Alleviation of the toxicity of oily wastewater to canola plants by the N₂-fixing, aromatic hydrocarbon biodegrading bacterium *Stenotrophomonas maltophilia*-SR1. *Applied Soil Ecology*, 154, 103654. **(IF: 3.72)**
- 29- Nabil A. Younes, **Mona F.A. Dawood** & Ahmed A. Wardany (2020). The phyto-impact of fluazinam fungicide on cellular structure, agro-physiological, and yield traits of pepper and eggplant crops. *Science and Pollution Research* (In press). **(IF=2.92)**
- 30- N.A. Younes, H. Shokry Hassan, Marwa F. Elkady, A.M. Hamed, **Mona F.A. Dawood** (2020). Impact of synthesized metal oxide nanomaterials on seedlings production of three Solanaceae crops. *Heliyon* 6 (2020) e03188. **(Citescore: 1.66)**
- 31- Hussein, N.A.-G., Ismail, M.A., Ragaey, M.M., **Mona F.A. Dawood** & El-Khatib, A.A.-A.M. (2020). Estimation of the phosphatesolubilizing potentiality of rhizosphere fungi isolated from New Valley Governorate, Egypt under in vitro conditions, and molecular identification of the potent strains. *J. Multidiscip. Sci.* 2(1), 1-11.
- 32- Abeed A.H.A. and **Mona F.A. Dawood** (2020). Comparative impact of different iso-osmotic solutions on osmotic adjustment in *Gossypium barbadense*. *Global NEST Journal*, Vol 22, No 1, pp 75-84. **(IF=0.895)**.
- 33- **Mona F.A. Dawood** & Mohamed M. Azooz (2019). Concentration-dependent effects of tungstate on germination, growth, lignification-related enzymes, antioxidants, and reactive oxygen species in broccoli (*Brassica oleracea* var. *italica* L.). *Environmental Science and Pollution Research* 26:36441–36457. **(IF=2.92)**

- 34- Nabil A. Younes & **Mona F.A. Dawood** & Ahmed A. Wardany (2019). Biosafety assessment of graphene nanosheets GNS on leaf ultrastructure, physiological and yield traits of (*Capsicum annuum* L.) and (*Solanum melongena* L.). *Chemosphere*. (IF=5.34)
- 35- Hadel Magdy Mohamed Khalil, Elhagag Ahmed Hassan, Nivien Allam Nafady, **Mona F.A. Dawood** (2019). Efficacy of arbuscular mycorrhizal fungi and endophytic strain *Epicoccum nigrum* ASU11 as biocontrol agents against blackleg disease of potato caused by bacterial strain *Pectobacterium carotovora* subsp. *atrosepticum* PHY7, *Biological Control* (2019), doi: <https://doi.org/10.1016/j.biocontrol.2019.03.005>. (ISI: IF=2.85).
- 36- Aldaby, E.S.E, Dief, N., **Mona F.A. Dawood.**, Zidan, M.A.A. (2019). Primary and Secondary metabolites of *Vici faba* plants cultivated under the interactive effect of drought and nitric oxide. *Egyptian Journal of Botany*.
- 37- Sallam, Ahmed, Ahmed Amro, EL-Akhdar Ammar, **Mona F.A. Dawood**, Toshihiro Kumamaru, and P. Stephen Baenziger (2018). Genetic diversity and genetic variation in morpho-physiological traits to improve heat tolerance in spring barley. *Molecular biology reports* 45(6): 2441-2453. (IF=2.1)
- 38- **Mona F.A. Dawood**, Amany H.A. Abeed, Eman E. S. Aldaby 2019. Titanium dioxide nanoparticles model growth kinetic traits of some wheat cultivars under different water regimes. *Plant Physiology Reports.*, 1-12. (SJR=0.257)
- 39- Sallam, Ahmed, Ahmed Amro, EL-Akhdar Ammar, **Mona F.A. Dawood**, Yasser Morsi, and P. Stephen Baenziger (2019). Marker-trait association for grain weight of spring barley in well-watered and drought environments. *Molecular Biology Reports*. (IF=2.1)
- 40- Dief, N., Aldaby, E.S.E, **Mona F.A. Dawood.**, Zidan, M.A.A. (2019). Nitric oxide-mediated drought stresses tolerance via improvement crop yield, antioxidants, membrane integrity and reducing the oxidative stress of two faba bean cultivars. *J. Multidiscip. Sci.*1(2),1-11.
- 41- Abdel-Gawad, K.M., **Mona F.A. Dawood** Abdel-Azeez, A., Rashwan, M.A.A. (2019). Production of enzymes by five *Pleurotus* spp. developed in solid and liquid state fermentation using three agricultural wastes. *J. Multidiscip. Sci.*1 (2), 1-14.
- 42- Khayria M. Abdel-Gawad, Attef Abdel- Aziz Hassan, **Mona F.A. Dawood** and Mahmoud A.A. Rashwan (2019). Influence of different cellulosic substrates on biological efficiency and growth of different oyster mushrooms. *Assiut Univ. J. of Botany and Microbiology* 49(1), pp34-39.
- 43- Nahla Dief, Eman S. E. Aldaby, **Mona F.A. Dawood** and Mohamed A. Zidan (2018). Nitric oxide alleviated the negative impact of the water deficit and

- hypoxia in three crop plant. Assiut Univ. J. of Botany and Microbiology 48(1), pp54-75.
- 44- A. Shafea, **Mona F.A. Dawood**, Mohamed A. Zidan (2017): Wheat seedlings traits as affected by soaking at titanium dioxide nanoparticles. Environment, Earth and Ecology Vol. 1 No. 1 (2017), 102-111.
- 45- **Mona F.A. Dawood**; Shaddad, M. A. K.; Adel, A. A. and Zidan, M. A.; (2015). Augmentation of drought stress tolerance of two wheat cultivars through exogenous spraying of silicon. J. Adv. Bio., 8(1):1433:1449.
- 46- **Mona F.A. Dawood**; Shaddad, M. A. K.; Zidan, M. A. and Adel, A. A. (2014). Role of genotypic diversity of six wheat cultivars in drought tolerance and their response to selenium and silicon foliar application. Minia Sci. Bul., 25 (2):19-48.

CONFERENCE PAPERS

- 1- Asmaa A.M. Ahmed, **Mona F.A. Dawood**, Elsayed A. Mohamed, Mohamed Y. Hussein, P.Stephen Baenziger, Andreas Börner, and Ahmed Sallam (2023) Genetic variation in important physiological responses and their effects to alleviate drought stress in wheat seedlings. Conference: EUCARPIA CEREALS SECTION CONFERENCE "Cereal Breeding-Challenges and Opportunities for Global Improvement, 15-20 May, Szeged, Hungary.
- 2- Asmaa A.M. Ahmed, **Mona F.A. Dawood**, Elsayed A. Mohamed, Mohamed Y. Hussein, P.Stephen Baenziger, Andreas Börner, and Ahmed Sallam (2023). Genome-wide scanning for drought tolerance in spring wheat at the seedling stage using genotyping-by-sequencing (GBS) and 25 K Infinium iSelect array. Cairo Science Forum February 2023, Science and Research Diplomacy for Climate Action and Sustainable Future in the Pandemic and Post Pandemic Era, National Research Centre (NRC), Cairo, Egypt, 07-09 February 2023.
- 3- Asmaa Ali, **Mona Dawood**, Elsayed A Mohamed, Mohamed Y. Hussein, P.Stephen Baenziger, Ahmed Sallam (2023). Identification of SNP alleles and candidate genes controlling morpho-physiological traits in seedlings spring wheat under drought stress using GWAS. Conference: Cereal Molecular Breeding and Genetics- International Symposium, 2022, Assiut University, November 2022. DOI: 10.13140/RG.2.2.23953.71529
- 4- Mostafa A. H. Hashem, Mohamed M El-defrawy, **Mona F. A. Dawood**, Andreas Börner, Saleh M Ismail, Ahmed Sallam (2022). Genetic variation in peduncle traits and their association with spike traits under normal and drought conditions in spring wheat.. Cereal Molecular Breeding and Genetics-International Symposium, November 2022, DOI: 10.13140/RG.2.2.23711.23205.

- 5- **Mona F. A. Dawood**, Ahmed Sallam, Ahmed Amro (2019). Insights into the molecular responses, grain yield and reserved-grains metabolites of barely genotypes under pre-anthesis thermal stress. International Plant Genetics & Genomics Symposium – IPGG. October, 2019.
- 6- Aldaby, E.S.E, Dief, N., **Mona F.A. Dawood.**, Zidan, M.A.A. (2019). Primary and Secondary metabolites of *Vicia faba* plants cultivated under the interactive effect of drought and nitric oxide. 9th ICPMB-Sohag. September 2019.
- 7- Amany H.A. Abeed and **Mona F.A. Dawood** (2018). Comparative effect of different iso-osmotic solutions on osmotic adjustment in *Gossypium barbadense*. The second International Conference on Multidisciplinary Research (ICMR). 14-2-2018.
- 8- Nahla Dief, Eman S. E. Aldaby, **Mona F. Dawood**, and Mohamed A. Zidan (2018). Nitric oxide alleviated the negative impact of the water deficit and hypoxia in three crop plant
- 9- Ahmed Sallam, Ahmed Amro, **Mona F.A. Dawood**, Ammar EL-Akhdar, P Stephen Baenziger. (2017). Assessing genetic variation for heat tolerance and genetic diversity in spring barley (*Hordeum vulgare* L.). Plant Breeding Symposium conference. 14.03.2017. University of Nebraska-Lincoln. USA.
- 10- **Mona F.A. Dawood**; M. A. Shaddad and A. A. Shafea (2011): The interactive effect of salinity and phytohormones (IAA or Salicylic acid) on growth criteria, leaf area and pigmentation of *Vicia faba* L. cv. wardy. The 3rd Scientific conference of young researchers (Basic science and technology). Faculty of science, Assiut University, April (19-20).

PUBLISHED REVIEW ARTICLES

- 1- Ahmed Sallam, Ahmad M. Alqudah, **Mona F.A. Dawood**, P. Stephen Baenziger, and Andreas Börner (2019). Drought Stress Tolerance in Wheat and Barley: Advances in Physiology, Breeding and Genetics Research. Int. J. Mol. Sci. 2019, 20, 31-37. **(IF=4.183)**
- 2- Daa Abd El-Moneim, **Mona F. A. Dawood**, Yasser S. Moursi, Ahmed A. Farghaly, Mohamed Afifi, Ahmed Sallam (2021). Positive and negative effects of nanoparticles on agricultural crops. Nanotechnology for Environmental Engineering (2021) 6:21.
- 3- Md. Abir Ul Islam, Juthy Abedin Nupur, Charles T. Hunter, Abdullah Al Mamun Sohag, Ashaduzzaman Sagar, Md. Sazzad Hossain, **Mona F. A. Dawood**, Arafat Abdel Hamed Abdel Latef, Marián Brestič, and Md. Tahjib-UI-Arif (2022). Crop Improvement and Abiotic Stress Tolerance Promoted by Moringa Leaf Extract. Phyton-International Journal of experimental Botany. **(IF= 1.339)**.

- 4- Hridoy Ul Awall Rezvi, Md. Tahjib-Ul-Arif, Md. Abdul Azim, Toufica Ahmed Tumpa, Mohammad Monirul Hasan Tipu, Farhana Najnine, **Mona F. A. Dawood**, Milan Skalicky, and Marián Brestič (2022). Rice and Food Security: Climate Change Implications and the Future Prospects for Nutritional Security. *Food and Energy Security*, (2022): e430. **(IF= 4.667)**.
- 5- Omar A. Hewedy, Nabil I. Elsheery, Ali M. Karkour, Neveen Elhamouly, Ramadan A. Arafa, Ghada Abd-Elmonsef Mahmoud, **Mona F.-A. Dawood**, Walaa E. Hussein, Abdelaziz Mansour, Dina H. Amin, Suleyman I. Allakhverdiev, Marek Zivcak, Marian Brestic (2023). Jasmonic acid regulates plant development and orchestrates stress response during tough times. *Environmental and Experimental Botany*. **(IF= 6.028)**.

PUBLISHED BOOK CHAPTERS

- 1- **Mona FA Dawood (2022)**. Melatonin: an elicitor of plant tolerance under prevailing environmental stresses. In *Emerging Plant Growth Regulators in Agriculture* (pp. 245-286). Academic Press.
- 2- Moursi, Yasser S., **Mona FA Dawood**, Ahmed Sallam, Samar G. Thabet, and Ahmad M. Alqudah. "Antioxidant Enzymes and Their Genetic Mechanism in Alleviating Drought Stress in Plants." In *Organic Solutes, Oxidative Stress, and Antioxidant Enzymes Under Abiotic Stressors*, pp. 233-262. CRC Press, 2021.
- 3- **Mona FA Dawood**, Amira MI Mourad, Dalia Z. Alomari, and Arafat Abdel Hamed Abdel Latef. "Insights into the Enzymatic Antioxidants and Their Genetic Expressions Responses of Plants to Heavy Metals." In *Organic Solutes, Oxidative Stress, and Antioxidant Enzymes Under Abiotic Stressors*, pp. 285-320. CRC Press, 2021.
- 4- Gomaa, Mohamed, and **Mona FA Dawood**. "Ecotoxicological Impacts of Arsenic on Plants and Its Remediation Approaches." *Heavy Metal Toxicity in Plants: Physiological and Molecular Adaptations* (2021): 207.
- 5- **Mona FA Dawood** and Arafat Abdel Hamed Abdel Latef (2022). Cereals and Phytohormones under Mineral Deficiency Stress (Chapter 16). In *Sustainable remedies for abiotic stress in cereals*. Springer Nature Singapore Pte Ltd. (Under Production)
- 6- **Mona FA Dawood** and Arafat Abdel Hamed Abdel Latef (2022). Use of Biostimulants to Improve UV Tolerance in Cereals (Chapter 23). In *Sustainable remedies for abiotic stress in cereals*. Edited by: Prof. Dr. Arafat Abdel Hamed Abdel Latef. Springer Nature Singapore Pte Ltd. (Under Production)

- 7- **Mona FA Dawood** and Arafat Abdel Hamed Abdel Latef (2022). *Allium cepa* under stressful conditions (Chapter 1). In *Medicinal Plants Responses to Environmental Conditions*. Taylor & Francis Group, LLC.
- 8- **Mona F.A. Dawood**, Yasser S. Moursi, Abdelrazek S. Abdelrhim, Amany A. Hassan (2023). Investigation of Ecology, Molecular, and Host-Pathogen Interactions of Rice Blast Pathogens and Management Approaches (Chapter 3). In *Fungal Diseases of Rice and Their Management* (Edited by Deepti Srivastava, Md. Shamim, Malik Mobeen Ahmad, R. S. Upadhyay). CRC Press, Taylor & Francis Group. February, 2023.
- 9- **Mona F.A. Dawood**, Yasser S. Moursi, Abdelrazek S. Abdelrhim, Amany A. Hassan (2023). An overview of the biology of rice bacterial blight pathogen and prospects of conventional methods for its management (Chapter 3). In *Bacterial Diseases of Rice and Their Management* (Edited by Deepti Srivastava, Md. Shamim, Malik M. Ahmad, K. N. Singh). CRC Press, January 2023, Taylor & Francis Group.

Conferences and Workshops

- 1- The First International Conference of Biological Science, Assiut University, Egypt. **March 2009**
- 2- Workshop on Principles of Biotechnology at Biotechnology laboratory, Genetic department, Faculty of Agriculture, Assiut University, Egypt. **October 2010.**
- 3- The 3rd Scientific conference of young researchers (Basic science and technology). Faculty of science, Assiut University, Egypt. **April 2011**
- 4- The third international conference for young researchers, Assiut University, Egypt. **April 2014**
- 5- International Plant Genetics & Genomics Symposium – IPGG. **October, 2019**
- 6- The 9th International Conference of Plant Science and Microbial Biotechnology (ICPMB). Held in Department of Botany and Microbiology, Faculty of Science, Sohag University (9th ICPMB). 6-7 **November, 2019.**

- 7- Second International Plant Genetics & Genomics Symposium – IPGG. **October, 2020.**
- 8- The 9th International Conference for Development and the Environment in the Arab World. Held in Assiut University. **November, 2020.**
- 9- The 11th International Conference for Development and the Environment in the Arab World. Held in Assiut University. **Februry, 2022.**
- 10- **Several Zoom meetings-related workshops during COVID pandemic (2020-2023)**
- 11- (Body Language and the Rules of Success, Scientific Thought, Curricula and Concepts, The Basics of Research on the Scopus and Data Analysis, The Digital Divide & ways of digital transformation, Quality of Education, Conspiracy Theory from the Perspective of Scientific Research, A critical look at investigative methods, Measuring academic readiness in the light of response theory, Educational communication methods, Introduction to Statistical Analysis-SPSS Program, Research methodology and manifestations of contemporary Arab thought, Writing and publishing scientific articles skills, International scientific publishing in reputable journals, Digital tools of the scientific researcher, Scientific research and the knowledge revolution, Research performance H-index, Innovation in Scientific Research, Speaking Arts: Lecture, Presentation and Recitation, Educational communication methods).
- 12- **Attendance of academic workshops**

Academic workshops	Held place	Duration
Academic Lecturer Preparation	Faculty of Education, Assiut University	2014
Scientific Publication	FLDC, Assiut University	2009
How to write a competitive research project	FLDC, Assiut University	2011
E-Learning	FLDC, Assiut University	2011

Organizing scientific conferences	FLDC, Assiut University	2011
Time and meeting management	FLDC, Assiut University	2012
Research team management	FLDC, Assiut University	2012
Quality standards in the teaching process	FLDC, Assiut University	2013
Financial and legal aspects of university business,	FLDC, Assiut University	2014
Exam systems and student assessment,	FLDC, Assiut University	2014
Quality standards in the teaching process	FLDC, Assiut University	2014
Communication skills in different styles of education	FLDC, Assiut University	2015
Strategic Planning	FLDC, Assiut University	2015
Publishing research in international journals	FLDC, Assiut University	2020
Analytical and creative thinking in teaching	FLDC, Assiut University	2020
Professional Behaviors	FLDC, Assiut University	2020
Crisis Management	FLDC, Assiut University	2021
Digital transformation courses (Mobil Applications)	FLDC, Assiut University	2020
Digital transformation courses (Presentation)	FLDC, Assiut University	2021
Digital transformation courses (Word)	FLDC, Assiut University	2021

Thesis Supervision

- 1- Nahla Abd El-Rahman Osman, Doctoral Thesis, Assiut University, Department of Botany and Microbiology, 2016. **(Finished)**
- 2- Mahmoud Ahmed Rashwan. Doctoral Thesis, Assiut University, Department of Botany and Microbiology, 2016. **(Finished)**

- 3- Arwa Elkhatib, New Valley University, Department of Botany and Microbiology, 2019. **(Finished)**
- 4- Mostafa AbdElrhaman. Master Thesis, Assiut University, Faculty of Agriculture, 2020. **(Ongoing)**
- 5- Mahmoud Samir. Doctoral Thesis, **Egypt Japan University Of Science and Technology**, 2022. **(Ongoing)**

Academic Accounts

- 1- Google Scholar account
<https://scholar.google.com/citations?user=Xj1-o3MAAAAJ&hl=en>
- 2- Scopus account **(Scopus ID:57204608092)**
<https://www.scopus.com/authid/detail.uri?authorId=57204608092>
- 3- Web of Science **(Web of Science ResearchID: AAC-9264-2020)**
<https://www.webofscience.com/wos/author/record/AAC-9264-2020>
- 4- Research Gate Account
https://www.researchgate.net/profile/Mona_Dawood3
- 5- ORCID
<https://orcid.org/0000-0003-1387-6135>
- 6- Frontiers loop
<https://loop.frontiersin.org/people/1309006/publications>
- 7- Scite
<https://scite.ai/users/mona-fa-dawood-KKVe/articles?page=2>

Journal Reviewing

I participate in reviewing of more than 152 manuscript for various publishers and WOS recognized journal, as seen by the following link
<https://www.webofscience.com/wos/author/record/AAC-9264-2020>

- Biological control Journal
- Environmental Science and Pollution Research
- Notulae Botanicae Horti Agrobotanici Cluj-
- IET Nanobiotechnology
- Economics
- Sustainability

- Napoca
- Plant Cell Biotechnology and Molecular Biology
 - Environmental and Experimental Botany
 - Exotoxicology and Environmental Safety
 - Science of The Total Environment
 - Plant Physiology and Biochemistry
 - Journal of King Saud University – Science
 - Internatioal Journal of Molecular Science
 - Current Journal of Applied Science and Technology
 - IET Nanbiotechnology
 - Scientific Reports
 - BMC Plant Biology
 - Plants-Basel
 - Journal of Soil Science and Plant nutrition
 - Genes-Basel
 - Journal Of Food Measurement And Characterization
 - Environmental Pollution
 - Tropical plant biology
 - Frontiers in Plant Science
 - Vegetos
 - Rhizosphere
 - Gesunde Pflanzen
 - Phyton
 - Method X
 - Agriculture-Basel
 - Agronomy-Basel
 - All life
 - Foods-Basel
 - Sustainability-Basel
 - Bioengineering-Basel
 - Heliyon

Projects

Foundation

Title of project

**Science and Technology
Development Fund (STDF)
Project ID: 39444**

Molecular genetic dissection to understand and improve drought tolerance at different growth stages in spring wheat

Academic Experience

- Plant cultivation under natural and different stresses.
- Ecological factors affecting plant growth.
- Extraction and isolation of plant metabolites.
- Extraction and isolation of plant enzymes.

- Extraction and isolation of secondary metabolites from plants and microorganisms.
- Application of nanotechnology on plants.
- Plant tissue culture.

Fields and Research of Interest

- Applications of nanotechnology on plants.
- Plant nutrition and hormosis.
- Plant environmental stresses.
- Energy production from wates.
- Compost application on plants.
- Biochar application.
- Plant Biotechnology and tissue culture.
- Bioremediation of heavy metals
- Emergent plant pollutants

Studied Courses

➤ Undergraduate Courses

Plant Kingdom- Plant physiology- Morphology and anatomy of plant- plant physiology- Animal physiology- Embryology- invertebrates- Plant ecology- plant taxonomy- Advanced plant anatomy – Vertebrates- Entomology- Phycology- Plant geography- Mineral nutrition- Basics of Bacteriology- Mycology- Physiology of fungi- Industrial microbiology- Plant communities- Flora of Egypt- Plant diseases- Biochemistry- Enzymology- Plant hormones- physiology of algae- Archegoniate- Advanced plant taxonomy- Mendelian genetics- Plant Cell- Inorganic chemistry- Organic chemistry- Thermodynamics- Physics- Statistics-

Physical chemistry- Biophysics.

➤ **Post- Graduate Courses**

Plant hormones- Mineral nutrition- plant Enzymes – Biochemical principles of genetics- Plant physiology and biochemistry- special course (DNA and protein isolation).

Teaching Experiences

Course	Target students	Faculty	Duration
Plant Hormones	Master degree	Science	2016-2022
Practical tissue culture	Doctoral degree	Science	
Practical plant nutrition	Master degree	Science	
Stress Physiology	Doctoral degree	Science	
Essay	Botany 4 th year	Science	
Plant Physiology	Biology 4 th year	Education	
Plant physiology	Biology 1 st year	Education	
Plant physiology	Biology 3 th year	Education	
Enzymes and Hormones	Biology 2 nd year	Science	
Plant Morphology	Botany 2 nd year	Science	
Morphology and Anatomy	Botany-Biology	Science-Education -Agriculture	
General Botany	Botany 1 st year	Science	2009-2016
Practical Plant stress	Botany 4 th year	Science	
Practical Secondary Metabolites	Botany 4 th year	Science	
Practical Plant Nutrition	Botany-Biology	Science	
Practical Plant Biochemistry.	Botany 4 th year	Science	
Practical Enzymology	Botany 2 nd - 4 th year	Science	
Practical hormones	Botany 4 th year	Science	
Practical secondary metabolites.	Botany 4 th year	Science	
Practical Physiology	Botany-Biology	Science-Education-Pharmacy	
Practice plant tissue culture	Botany 4 th year	Science	
Practical Biotechnical Analysis	Botany 2 nd , 3 rd , 4 th year	Science	
Practical Cell Biology	Botany 3 rd year	Science	
Practical Algae	Botany –Biology	Science	

Physiology and ecology of algae	Botany 3rd year	Science	
Practical Microbial metabolites	Botany 4 th year	Science	
Practical advanced anatomy	Botany 2nd year	Science	
Practical plant Taxonomy	Botany –Biology	Science	
Practical plant community	Botany 3rd year	Science	
Practical plant ecology	Botany –Biology	Science-Education	
Practical plant kingdom	Botany –Biology	Science-Education-Agriculture	
Practical Morphology and anatomy	Botany –Biology	Science-Education	
Practical general botany	Botany –Biology	Science-Veterinary-Pharmacy	

Editorial contribution

1. Review Editor in the journal of Frontiers in Plant Science sections:
 - a) Review Editor in Plant Nutrition
 - b) Review Editor in Plant Abiotic Stress
 - c) Review Editor in Plant Biotechnology
2. Guest editor of polymers journal-MDPI. Guest Editor of Special Issue "Polymer-Based Composites/Nanocomposites for Agriculture, Industry, Environmental and Medical".

ORGANIZATIONS MEMBERSHIP

Member of the Egyptian Society of Applied Botanical Sciences registered No. 2373, Benha, Egypt.

AWARDS

1. Listed as Top 2% Scientists based on Stanford University of the year 2023.
2. One of the first quarter and part 10% of Springer Nature reviewers who reviewed 5 or more times from January through March, 2020.
3. Excellence in reviewing for journal current Journal of Applied and Science and Technology.

SKILLS

- Professional Microsoft Office processing
- Statistical analysis (SPSS)
- Mendely Desktop
- Graphprism
- LaTeX
- R-programming

REFERENCES

1. Prof. Dr. Mohamed Azooz

Botany and Microbiology Department, Faculty of Science, South Valley University,
Qena, 83523, Egypt
e-mail: azzozm@yahoo.com

2. Prof. Dr. Arafat Abdelatif

Botany and Microbiology Department, Faculty of Science, South Valley University,
Qena, 83523, Egypt
e-mail: moawad76@gmail.com

3. Prof. Dr. Mahmoud Sofy

Botany and Microbiology Department, Faculty of Science, Al-Azhar University, Nasr
City, 11884, Cairo, Egypt
e-mail: mahmoud_sofy@azhar.edu.eg

4. Prof. Dr. Heba Mohamed

Biological and Geological Science Department, Faculty of Education, Ain Shams
University, Cairo, Egypt
e-mail: hebaibrahim79@gmail.com