

PERSONAL INFORMATION

Name: Eman Salah Esmail Mostafa Aldaby

Assistant professor at Botany & Microbiology Department, Faculty of Science, Assiut University, Assiut, Egypt.

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EDUCATION

- **Ph.D. in Plant physiology**

Botany & Microbiology Department, Faculty of Science, Assiut University, Assiut, Egypt *Dissertation title:* “**Enhancing oil and biomass yield of some green algae**”. *Committee:* **Prof. Dr. Refat Abdel-Basset Mohamed, Dr. Fatma Ali Farghaly and Dr. Manal El-Zohri.**

- **M.Sc. in Plant physiology**

Botany & Microbiology Department, Faculty of Science, Assiut University, Assiut, Egypt *Dissertation title:* “**Role of magnesium and sulfur in decreased oxygen partial pressure for hydrogenases activity in *Nostoc* sp. SAG2306**” *Committee:* **Prof. Dr. Mohamed Ali Zidan and Prof. Dr. Refat Abdel-Basset Mohamed**

- **B.Sc. in Botany**

Botany & Microbiology Department, Faculty of Science, Assiut University, Assiut, Egypt

TEACHING AND MENTORING EXPERIENCE

- ❖ **Lecturer of plant physiology**

Botany & Microbiology Department, Faculty of Science, Assiut University, Assiut, Egypt.

1. Prepared lectures and class activities focusing on plant physiology and biotechnology.
2. Created and graded course assessments to ensure students understand material and stayed on track.

3. Organized and led group discussions on scientific issues.
Recognized as List of lecturers Ranked Excellent by Their Students

❖ Assistant Lecturer

Botany & Microbiology Department, Faculty of Science, Assiut University, Assuit, Egypt

- 1- Explained and assessed many experimental courses related to plant physiology to facility the undergraduate students understanding
- 2- Integrated multimedia approaches and used instructional technology to enhance scientific approach
- 3- Guided the students in preparation and interpretation of experimental results.

❖ Demonstrator

Botany & Microbiology Department, Faculty of Science, Assiut University, Assuit, Egypt

Explained and assessed many experimental courses related to botany

RESEARCH EXPERIENCE

☒ Doctoral Researcher

Faculty of Science, Assiut University, Assuit, Egypt

- 1- Achieved and design many experiments which related to biodegradation of hazardous materials.
- 2- Prepared different types of nanomaterials such as silver from algae and applications.
- 3- Examined many literatures related to biofuel production and bioanalysis.
- 4- Achieved and design many experiments which study the effect of manufacture wastes on plant physiology

RESEARCH INTERESTS

- Biofuel production
- Biotechnology and plant
- Bioremediation and Biodegradation

SUPERVISION

- Marwa Ali Mohamed Hassanein "Studies on sulfur oxidizing bacteria isolated from polluted water and their biotechnological applications" M. Sc. 2015. Assiut University, Faculty of Science, Department of Botany and Microbiology (Naeima M.H. Yousef, **Eman S. E. Aldaby** and Asmaa M. Mawad.)
- Aya Hassan Ahmeid "Studies on production of biofuels from latex yielding plants using microorganisms" M. Sc. ٢٠١٦. Assiut University, Faculty of Science, Department of Botany and Microbiology (Ahmeid Shoriet, **Eman S. E. Aldaby**, Maysa mohmed and Asmaa M. Mawad)
- Eman Essa Ali "Isolated and characterization of cellulolytic halophylic bacteria with special reference to some applications" M. Sc. 2016. Assiut University, Faculty of Science, Department of Botany and Microbiology (Naeima M.H. Yousef and **Eman S. E. Aldaby**)
- Nahla Abd-Alrhman Osman "Effect of nitric oxide on growth, physiological and biochemical changes of some bean cultivars exposed to water deficiency and hypoxia " Ph. D. 2016. Assiut University, Faculty of Science, Department of Botany and Microbiology (Mohamed Ali Zidan, **Eman S. E. Aldaby**. and Mona Fathy Dawood).
- Aya Hassan Ahmeid (Ph. D 2023)
- Reem aladwy (M. SC. 2023)

LIST F PUBLICATIONS

1. Naeima M.H. Yousef, **Eman S.E. Aldaby** (2016): Biochemical characterization of the hydrogen photoevolution in cyanobacterium

Oscillatoria Chalybea, International Journal of Hydrogen Energy, 41, Issue 48, 22831-22836, Q1,IF 4.084.

2. Farghaly F.A., **Al-Daby S.E.**, El-Zohri M. and Abdel-Basset R. (2015): Application of sewage water for enhancing oil yield and biomass in four green algae Assiut Univ. J. of Botany. 44(2).
3. **Eman Al-Daby**, Manal El-Zohri, Fatma Ali Farghaly and R. Abdel-Basset :(2103): Enhanced lipoid and dry mass accumulation in five green algae at optimized nitrogen -malonate combinations, Assiut University journal of Botany, 42(2), 63-75.
4. **Eman S.E. Aldaby**, Manal El-Zohri, Fatma Ali Farghaly and R. Abdel-basset, (2013): Enhancement of lipoid and biomass contents by malonate interference in the metabolism of five green algae, assiut Univ. Bull. Environ. Res.16: (2)53-70.
5. **Eman Salah Esmail Aldaby** and Asmaa Mostafa Mawad (2018) Pyrene biodegradation capability of two different microalgal strains.,Global NEST J., IF 0.744,Q3, Vol 21, No 3,pp 290-295.
6. Yousef N., Mawad A., **Aldaby E.** and Hassanein M. (2018): Isolation of sulfur oxidizing bacteria from polluted water and screening for their efficiency of sulfide oxidase production, Global NEST J. IF 0.744,Q3,Vol 20, No pp 259-264.
7. Mona F. A. Dawood, Amany H. A. Abeed and **Eman E. S. Aldaby** (2019) Titanium dioxide nanoparticles model growth kinetic traits of some wheat cultivars under different water regimes, Plant physiology Reports, IF 0.8,Q3, Vol. 24(1):129-140.
8. Nahla Dief, **Eman Salah Esmail Aldaby**, Mona Fathi Abd Elmowla Dawood, Mohammed Ali Ahmed Zidan (2019) Nitric oxide-mediated drought stress tolerance via improvement crop yield, antioxidants, membrane integrity and reducing the oxidative stress of two faba bean cultivars, Journal of Multidisciplinary Sciences Vol. 1(2),1-11.

- 10-Nahla Dief, **Eman S. E. Aldaby**, Mona F. A. Dawood and Mohamed A. Zidan (2019) Nitric Oxide Alleviated the Negative Impact of the Water Deficit and Hypoxia in three Crop Plants. Assiut Univ. J. of Botany and Microbiology, 48 (1), pp54- 75.
- 11-**Eman Salah Esmail Aldaby** (2019): Improvement of Growth, Physiology and Antioxidant System of *Vicia faba* by Algal Treatments Asian Journal of Biotechnology, 2019.
- 12-**Eman Salah Esmail Aldaby** (2019): Variations in Response of Two Plants and Two Microalgal Species to the Different Concentrations of Cement Kiln Dust. Assiut Univ. J. of Botany and Microbiology , 14 NOV.2019.
- 13- **Eman Salah Esmail Aldaby**, Nahla Dief, Mona Fathi Abd Elmowla Dawood, Mohammed Ali Ahmed Zidan (2019): Primary and Secondary Metabolites of *Vicia faba* Plants cultivated under the Interactive effect of Drought and Nitric oxide, Accepted 1/9/2020.
- 14-Eman E. Ali Naeima M. H. Yousef, **Eman S. E. Aldaby**, (2020) Optimization of the cellulase enzyme production by *Brevibacterium halotolerans* isolated from wadi el-natron, Egypt. (2020),. Assiut Univ. J. of Botany and Microbiology.
- 15-AMM Mawad, M Hassanein, **ES Aldaby**, N Yousef, (2020) Desulphurisation kinetics of thiophenic compound by sulphur oxidizing *Klebsiella oxytoca* SOB-1. (2020): Journal of applied microbiology.
- 16-AH Mahmoud, HM El-Bery, MM Ali, **ES Aldaby**, AMM Mawad, AA Shoreit (2022) Latex-bearing plant (*Calotropis procera*) as a biorefinery for bioethanol production. Biomass Conversion and Biorefinery, 1-11.
- 17-**ESE Aldaby**, AHA Mahmoud, HM El-Bery, MM Ali, AA Shoreit (2023), Microalgal upgrading of the fermentative biohydrogen produced from *Bacillus coagulans* via non-pretreated plant biomass, Microbial Cell Factories 22 (1), 190.
- 18-M Gomaa, **ESE Aldaby** (2023), Macroalgal-derived alginate/wastepaper hydrogel to alleviate sunflower drought stress, Planta 257 (6), 112.

- 19-M Gomaa, GAE Mahmoud, **ESE Aldaby**. (2024), Enhancing strawberry quality and resistance to *Botrytis cinerea* using calcareous seaweed-derived Ca^{2+} /carrageenan extracts, *Algal Research*, 103558
- 20-HM Albasri, AMM Mawad, **ESE Aldaby**. (2024) Enhancing Abiotic Stress Tolerance in Fruit Trees Using Microbial Biostimulants. , *Journal of Pure & Applied Microbiology* 18 (3).
- 21-AMM Mawad, **ESE Aldaby**, MMY Madany, MFA Dawood. (2024) The application of PAHs-Degrading *Pseudomonas aeruginosa* to mitigate the phytotoxic impact of pyrene on barley (*Hordeum vulgare* L.) and broad bean (*Vicia faba* L.), plants,
- 22-**ESE Aldaby**, AW Danial, R Abdel-Basset. (2024) Photosynthesizing carbonate/nitrate into *Chlorococcum humicola* biomass for biodiesel and *Bacillus coagulans*-based biohydrogen production. *Microbial Cell Factories* 23 (1), 247.

TECHNICAL SKILLS

Microsoft office (word,excel,power point,outlook)

LANGUAGES SKILLS

- Arabic (Fluent)
- English (Proficient)

CONFERENCE PRESENTATIONS AND PARTICIPATIONS

1. 9th International conference of plant science and microbial Biotechnology" (6-7th November 2019), Faculty of Science, Sohag University. *The First International Conference on Multidisciplinary Research (ICMR)*, Assiut University, Assiut, Egypt.
2. *The Second International Conference on Multidisciplinary Research (ICMR)* 28-30 January 2018, Red Sea Egypt.

3. *The Fifth International Conference for Young Scientists In Basic And Applied Science* (1-3rd November, 2016), Faculty of Science, Assiut, Egypt.
4. *The Tenth Assiut University International Pharmaceutical Sciences Conference* (13-14th April 2016), Faculty of Pharmacy, Assiut, Egypt.
5. *4th International Conference of Young Researchers* (29-30th April 2014), Faculty of Science, Assiut, Egypt.
6. *The First International Conference of Biological Science*, (20-22nd April 2009) Faculty of Science, Assiut, Egypt.
7. *Application of Molecular Markers in Biology* (29-31st May 2016) Mol. Biology Lab., Faculty of Agriculture, Assiut University, Assiut, Egypt.
8. *From Gene to Protein* (7-8th April 2011), Molecular Biology Res. Unit at Assiut University, Assiut, Egypt
9. *Principles and Applications of DNA Sequencing & Cloning* (28-30th March 2010), Molecular Biology Res. Unit at Assiut University, Assiut, Egypt.