






Dr. ABD EL-FATAH ABOMOHRRA

Associate Professor

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Research Interest

- Isolation and Identification of desired microalgal species.
- Large-scale biomass production of microalgae.
- Bioenergy, valuable products production from microalgae.
- Using of microalgae in bioremediation through CO₂ sequestration and wastewater treatment.
- Fatty acid analysis in microalgae.

Employment History

02/2017 – Now : Associate Professor at School of Energy and Power Engineering, Jiangsu University, Jiangsu 212013, China

03/2015 – 02/2017: Postdoctoral fellow at Harbin Institute of Technology Shenzhen Graduate School, Shenzhen, China.

10/2013 – 04/2014: Postdoctoral researcher at Hamburg University, Germany.

11/2012 – 03/2015 : Assistant Professor of Phycology and Microbiology at Botany Department, Faculty of Science, Tanta University.

12/2007 – 11/2012 : Assistant Lecturer at Botany Department, Faculty of Science, Tanta University.

12/2001 – 12/2007 : Teaching assistant at Botany Department, Faculty of Science, Tanta University.

Education Data

02/2010 - 03/2012: Ph.D. student at Hamburg University, Germany through DAAD scholarship (Sandwich Program).

10/2008 - 10/2012: Ph.D. Degree in Botany (Phycology) from Faculty of Science, Tanta University “*Biomass and Biofuel Production from Microalgae*”.

09/2003 - 10/2007: M.Sc. degree in Botany (Microbiology) from Faculty of Science, Tanta University “*Effect of Ultraviolet Radiation on Growth, Photosynthesis and Some Metabolic Processes of Some Algal Species*”.

09/1997 - 06/2001: B.Sc. degree in Microbiology from Faculty of Science, Tanta University (Excellent, honor).

Awards and Honors

March 2015-Now: Foreign Experts Certificate from the Chinese Government.

November 2011 : Honor of effective commitment of the German youth competition “Research at Sea” from Aldebaran Marine Research, Hamburg, Germany.

April 2009 : German academic Exchange Service (DAAD) scholarship to study at Hamburg University, Germany.

Teaching Experience

A- Under Graduate Courses:

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| 1- General Botany | 4- Systematic of Algae |
| 2- Plant Anatomy | 5- Economic Uses of Algae |
| 3- Microbiology | 6- Physiology of Algae |

B- Post Graduate Courses (M. Sc. and Diploma Students):

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| 1- General Microbiology | 2- Algal physiology | 3- Phycology |
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Scientific Research Projects

April 2013: Biodiesel from Microalgae as Sustainable and Renewable Energy Source. Egyptian Science and Technology Development Fund (STDF), Project ID 4399, Egypt. April 2013 to March 2015.

April 2010: Technology for research of the resource microalgae (TERM). Federal Ministry of Economy and Technology, Germany. April 2010 to March 2012

Complete List of Publications

A. Peer-Reviewed Journals (* Corresponding author, †Shared first author, total impact factor= 49.02)

1. Ali S[†], **Abomohra A**[†], Sun J* (2017) Effective bio-pretreatment of sawdust waste with a novel microbial consortium for enhanced biomethanation. *Bioresource Technology* DOI: 10.1016/j.biortech.2017.03.187 (SCI, IF= 4.917)
2. **Abomohra A**, El-Sheekh M*, Hanelt D (2017) Screening of marine microalgae isolated from the hypersaline Bardawil lagoon for biodiesel feedstock. *Renewable Energy* DOI:10.1016/j.renene.2016.10.015 (SCI, IF= 3.404)
3. Ebaid R, Elhussainy E, El-Shourbagy S, Ali S, **Abomohra A*** (2017) Protective effect of *Arthrospira platensis* against liver injury induced by copper nanoparticles. *Oriental Pharmacy and Experimental Medicine* DOI: 10.1007/s13596-017-0264-z (Not SCI)
4. **Abomohra A**, Jin W*, Tu R, Han S, Eid M, Eladel H (2016) Microalgal biomass production as a sustainable feedstock for biodiesel: current status and perspectives. *Renewable & Sustainable Energy Reviews* DOI: 10.1016/j.rser.2016.06.056. (SCI, IF= 6.798)
5. **Abomohra A**, Jin W*, El-Sheekh M (2016) Enhancement of lipid extraction for improved biodiesel recovery from the biodiesel promising microalga *Scenedesmus obliquus*. *Energy Conversion and Management* 108:23–29. (SCI, IF= 4.801)
6. **Abomohra A***, El-Sheekh M, Hanelt D (2016) Protoplast fusion and genetic recombination between *Ochromonas danica* (Chrysophyta) and *Haematococcus pluvialis* (Chlorophyta). *Phycologia* 55(1): 65–71. (SCI, IF= 1.628)
7. **Abomohra A***, El-Shouny W, Sharaf M, Abo-Eleneen M (2016) Effect of gamma radiation on growth and production of some bioactive compounds in *Arthrospira platensis*. *Brazilian Archives of Biology and Technology* 59: e16150476 (SCI, IF= 0.468).
8. **Abomohra A***, Abo-Shady A, Abd El-Moneim A, Khairy H, Marey R (2016) Effect of different culture media on the growth and lipids of the green microalgae, *Scenedesmus obliquus* and *Micractinium reisseri* as a feedstock for biodiesel production. *Delta Journal of Science* 37: 176 -182 (Not SCI).
9. Han S, Jin W*, Tu R, **Abomohra A**, Wang Z (2016) Optimization of aeration for biodiesel production by *Scenedesmus obliquus* grown in municipal wastewater. *Bioprocess and Biosystems Engineering* 39(7): 1073-1079. (SCI, IF= 1.901)

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10. Han S, Jin W*, Chen Y, Tu R, **Abomohra A** (2016) Enhancement of lipid production of *Chlorella pyrenoidosa* cultivated in municipal wastewater by magnetic treatment. *Applied Biochemistry and Biotechnology* 180(6): 1043-1055. (SCI, IF= 1.606)
 11. **Abomohra A**, Jin W*, Tu R, Han S (2016) Outdoor Cultivation of the Biodiesel Promising Microalga *Scenedesmus obliquus* in Municipal Wastewater: A Case Study. *Renewable Energy Research* 1(1): 17-23 (Not SCI).
 12. Tu R, Jin W*, Wang M, Han S, **Abomohra A**, Wu W (2015) Improving of lipid productivity of the biodiesel promising green microalga *Chlorella pyrenoidosa* via low-energy ion implantation. *Journal of Applied Phycology* 28(4): 2159–2166. (SCI, IF= 2.372)
 13. Tu R, Jin W*, Xi T, Yang Q, Han S, **Abomohra A** (2015) Effect of static magnetic field on the oxygen production of *Scenedesmus obliquus* cultivated in municipal wastewater. *Water Research* 86:132-138. (SCI, IF= 5.991)
 14. Dawah A, Soliman A, **Abomohra A***, Battah M, Anees D (2015) Influence of alum on cyanobacterial blooms and water quality of earthen fish ponds. *Environmental Science and Pollution Research* 22:16502–16513. (SCI, IF= 2.760)
 15. Battah M, El-Ayoty Y, **Abomohra A***, Abd El-Ghany S, Esmael A (2015) Effect of Mn²⁺, Co²⁺ and H₂O₂ on biomass and lipids of the green microalga *Chlorella vulgaris* as a potential candidate for biodiesel production. *Annals of Microbiology*, 65:155–162. (SCI, IF= 1.232)
 16. El-Shouny W, Sharaf M, **Abomohra A***, Abo-Eleneen M (2015) Production enhancement of some valuable compounds of *Arthrospira platensis*. *Journal of Basic and Environmental Sciences* 2: 74–83. (Not SCI)
 17. **Abomohra A***, El-Sheekh M, Hanelt D (2014) Extracellular secretion of free fatty acids by a chrysophyte *Ochromonas danica* under different growth conditions. *World Journal of Microbiology & Biotechnology* 30:3111–3119. (SCI, IF= 1.532)
 18. **Abomohra A**, El-Sheekh M*, Hanelt D (2014) Pilot cultivation of the chlorophyte microalga *Scenedesmus obliquus* as a promising feedstock for biofuel. *Biomass & Bioenergy* 64: 237-244. (SCI, IF= 3.249)
 19. Battah M, El-Ayoty Y, **Abomohra A***, Abd El-Ghany S, Esmael A (2013) Optimization of growth and lipid production of the chlorophyte microalga *Chlorella vulgaris* as a feedstock for biodiesel production. *World Applied Sciences Journal*, 28(11): 1536-1543. (Not SCI)

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20. El-Sheekh M*, **Abomohra A**, Hanelt D (2013) Optimization of Biomass and Fatty Acid Productivity of *Scenedesmus Obliquus* as a Promising Microalga for Biodiesel Production. World Journal of Microbiology & Biotechnology, 29(5): 915-922. (SCI, IF= 1.532)
 21. **Abomohra A**, Wagner M, El-Sheekh M, Hanelt D* (2013) Lipid and total fatty acid productivity in photoautotrophic fresh water microalgae: screening studies towards biodiesel production. Journal of Applied Phycology, 25: 931-936. (SCI, IF= 2.372)
 22. Abo-Shady AM*, El-Naggar AH, El-Sheekh MM, **Abomohra A** (2008) Impact of UV-B radiation on antioxidant enzymes and protein electrophoretic pattern of the green alga *Chlorocuccum* sp. Annals of Microbiology, 58(2): 195-201. (SCI, IF= 1.232)
 23. Abo-Shady AM*, El-Sheekh MM, El-Naggar AH, **Abomohra A** (2008) Effect of UV-B radiation on growth, photosynthetic activity and metabolic activities of *Chlorocuccum* sp. Annals of Microbiology, 58(1): 21-27. (SCI, IF= 1.232)

B. Books and Book Chapters

1. **Abomohra A**, Jin W (2017) Microalgae as a New Feedstock for Biodiesel: Lab and Outdoor Studies. Lap Lambert Academic Publishing, Germany. ISBN: 978-3-330-07735-5
2. **Abomohra A** (2016) Effect of Ultraviolet Radiation on Microalgae: Response and Adaptive Strategies. Lap Lambert Academic Publishing, Germany. ISBN: 978-3-659-87938-8
3. El-Sheekh M, **Abomohra A** (2016) Biodiesel Production from Microalgae. In: Industrial Microbiology: Microbes in Action (Garg N., Aeron A, Eds). Nova Science Publishers, New York, USA.

C. Patents

1. Abomohra A, El-Sheekh M, Hanelt D, Wang Q, Chen Z (2017) A method for enhanced biomass and biodiesel yield of *Scenedesmus obliquus*. Chinese patents 201710192063.5

Selected Journals' Invited Reviewer

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|---------------------------------------|--|
| 1. Bioresource Technology | 2. Biomass and Bioenergy |
| 3. Renewable Energy | 4. Bioprocess and Biosystems Engineering |
| 5. Microbial Pathogenesis | 6. Current Science |
| 7. Annals of Aquaculture and Research | 8. World Applied Science Journal |

Journals' Editorial Board

1. SCIREA Journal of Energy
2. Renewable Energy Research
3. SCIREA Journal of Environment

Declaration

I hereby declare that all the details furnished above are true to the best of my knowledge and conscience.

Abd El-Fatah Abomohra