MOHAMED MOHSEN

PhD in Marine Ecology

Mohamed Mohsen has long been engaged with breeding aquatic animals at different life stages and in different breeding systems. During his master study, he carried research on the ability of the Red Tilapia and the Nile Tilapia to tolerate salinity (2016). During his Ph.D. study, he investigated the effect of microplastics on the sea cucumber (2020). He published more than 14 SCI papers in reputed journals, such as Environmental Pollution and Journal of Hazardous Materials. His research interest lies in the following areas: ecotoxicology, aquaculture ecology, and physiology and behavior of aquatic organisms.

CONTACT

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EDUCATION

PhD || Marine and aquaculture Ecology
Chinese academy of sciences || China
2017-2020

MSc || Marine Ecology
Al-Azhar University || Egypt
2013-2016

SKILLS

- Creativity
- Team working
- Problem Solving
- Continuous learning
- Statistical and graphical data analysis
- Time management
- Dependability
- Funding application and project management

WORK EXPERIENCE

POSTDOCTORAL RESEARCHER

Chinese academy of sciences || China|| July 2020 – Present
Evaluating the effect of microplastics/nanoplastics on the sea cucumber *Apostichopus japonicsu*.

PH.D. CANDIDATE

Chinese academy of sciences || China|| 2017 – 2020
Thesis title "Microplastic ingestion by the sea cucumber *Apostichopus japonicus*: characteristics and physiological responses"

ASSISTANT LECTURER

Al-Azhar University || Egypt || 2016 – 2021

- Teaching animal care, and genetics basics.

TEACHING ASSISTANT

Al-Azhar university || Egypt || 2014 – 2016

- Teaching animal care, and genetics basics.

MSc Study

Al-Azhar university || Egypt|| 2013 – 2016

PROJECT MANAGER FOR BIO-TREATMENT OF FRESHWATER

Mansouriah || Egypt || 2013

- Manager of a project for biological purification of the canal Manouriah, Egypt, using the silver carp fish.

SITE MANAGER FOR FISH FARMING

Morgan International company || Egypt || 2012

- Site manager for farming the Nile Tilapia at the recirculating aquaculture system.

SUMMER WORK IN FISH FARMING

Ayman Fahmy's farm || Alexandria || 2011

- Breeding marine fish.

MOHAMED MOHSEN

SKILLS

Microplastic extraction and analysis

μ-FT-IR

Microsoft office Suite

Adobe Photoshop

R

Latex

SPSS

Procreate

Fluorescent microscopy

Ethovision Animal behavior

Microscopy

LC-MS

SUMMER WORK IN FISH FARMING

Ayman Fahmy's farm || Alexandria || 2010

- Breeding marine fish.

SUMMER WORK IN FISH FARMING

Ayman Fahmy's farm || Alexandria || 2009

- Breeding marine fish.

OBTAINED FUNDS

National Natural Science Foundation of China No. 32150410376

PUBLICATIONS

Books

- **Mohsen, M.,** and Yang, H. 2021. Sea cucumbers: Aquaculture, Biology and Ecology. Academic Press.

Chapters in Books

- **Mohsen, M.,** Lin, C., 2022. Sea cucumbers response to microplastic pollution in: World of sea cucumbers. Academic Press-Elsevier, *Under press*.
- **Mohsen, M.,** Yang, H., 2021. Introduction to sea cucumbers, in: Sea Cucumbers. Academic Press-Elsevier, pp. 1–18. https://doi.org/10.1016/B978-0-12-824377-0.00002-5.
- **Mohsen, M.,** Yang, H., 2021. Sea cucumbers processing and cooking, in: Sea Cucumbers. Academic Press-Elsevier, pp. 157–171. https://doi.org/10.1016/B978-0-12-824377-0.00011-6.
- **Mohsen, M.,** Yang, H., 2021. Sea cucumbers mariculture, in: Sea Cucumbers. Academic Press-Elsevier, pp. 127–156. https://doi.org/10.1016/B978-0-12-824377-0.00009-8.
- Mohsen, M., Yang, H., 2021. Sea cucumbers research in the Persian Gulf, in: Sea Cucumbers. Academic Press-Elsevier, pp. 103–125. https://doi.org/10.1016/B978-0-12-824377-0.00010-4.
- **Mohsen, M.,** Yang, H., 2021. Sea cucumbers research in the Mediterranean and the Red Seas, in: Sea Cucumbers. Academic Press-Elsevier, pp. 61–101. https://doi.org/10.1016/B978-0-12-824377-0.00001-3.
- **Mohsen, M.,** Yang, H., 2021. Behaviour and ecology, in: Sea Cucumbers. Academic Press-Elsevier, pp. 37–60. https://doi.org/10.1016/B978-0-12-824377-0.00004-9.
- **Mohsen, M.,** Yang, H., 2021. Anatomic structure and function, in: Sea Cucumbers. Academic Press-Elsevier, pp. 19–36. https://doi.org/10.1016/B978-0-12-824377-0.00006-2.
- **Mohsen, M.,** Yang, H., 2021. Developing sea cucumbers aquaculture in the Middle East: a perspective, in: Sea Cucumbers. Academic Press-Elsevier, pp. 173–183. https://doi.org/10.1016/B978-0-12-824377-0.00003-7.

Reviews

- Tawfik, A., **Mohsen, M.**, Ismail, S., Alhajeri, N.S., Osman, A.I. and Rooney, D.W., 2022. Methods to alleviate the inhibition of sludge anaerobic digestion by emerging contaminants: a review. Environmental Chemistry Letters, pp.1-26.

MOHAMED MOHSEN

AWARDS

Best PhD UCAS student
Chinese academy of sciences || 2019

Best PhD UCAS graduate
Chinese academy of sciences || 2020

BEST STUDENT OF THE YEAR
Al-Azhar University || 2011, 2012

EXCELLENT GRADUATE
Agricultural Professions Syndicate || 2012

LANGUAGES

Arabic (native)
English (fluent)
Chinese (Standard Mandarian)

HOPPIES

- Reading
- Workout
- Football
- Video Gaming

Articles

Published articles:

- **Mohsen, M.,** Wang, Q., Zhang, L., Sun, L., Lin, C., & Yang, H. (2019). Microplastic ingestion by the farmed sea cucumber *Apostichopus japonicus* in China. **Environmental pollution**, 245, 1071-1078.
- **Mohsen, M.,** Wang, Q., Zhang, L., Sun, L., Lin, C., & Yang, H. (2019). Heavy metals in sediment, microplastic and sea cucumber *Apostichopus japonicus* from farms in China. **Marine pollution bulletin**, 143, 42-49.
- **Mohsen, M.,** Zhang, L., Sun, L., Lin, C., Wang, Q., & Yang, H. (2020). Microplastic fibers transfer from the water to the internal fluid of the sea cucumber *Apostichopus japonicus*. **Environmental Pollution**, 113606.
- Megahed, M.E.... **Mohsen, M**. (2016). Biochemical genetic analysis for four stocks of Red Tilapia collected from different locations in Egypt. **Mediterranean Aquaculture journal**, 8, pp. 133-142.
- **Mohsen, M.,** Wang, Q., Zhang, L., Sun, L., Lin, C., & Yang, H. (2021). Effect of chronic exposure to microplastic fibres ingestion in the sea cucumber *Apostichopus japonicus*. **Ecotoxicology and Environmental Safety**, 209, p.111794.
- **Mohsen, M.,** Wang, Q., Zhang, L., Sun, L., Lin, C., & Yang, H. (2020). A deposit-feeder sea cucumber also ingests suspended particles through the mouth. **Journal of Experimental Biology**, 223 (24).
- **Mohsen, M.,** Wang, Q., Zhang, L., Sun, L., Lin, C., & Yang, H. (2021). Mechanism underlying the toxicity of microplastic fibre transfer in the sea cucumber *Apostichopus japonicus*. **Journal of hazardous materials**. p.125858.
- Sui Yanming, Wang Senyang, **Mohsen Mohamed**, Zhang Longsheng, Shen Mengyan, Liu Zhiquan, Nguyen Haidang, Zhang Shengmao, Li Kaixing, Lv Linlan, Dong Xuexing. The combined effect of plastic particles size and concentration on rotifers' (*Brachionus plicatilis*) performance. **Journal of ocean university of China**.
- **Mohsen, M.,** Lin, C., Tu, C., Zhang, C., Xu, S. and Yang, H., 2022. Association of heavy metals with plastics used in aquaculture. **Marine Pollution Bulletin**, 174, p.113312.
- Sultan Al Nahian, Md. Refat Jahan Rakib, Sayeed Mahmood Belal Haider, Rakesh Kumar, **Mohamed Mohsen**, Prabhakar Sharma, Mayeen Uddin Khandaker, 2022. Occurrence, spatial distribution, and risk assessment of microplastics in surface water and sediments of Saint Martin Island in the Bay of Bengal, **Marine Pollution Bulletin**, 179, 113720.
- **Mohsen, M**., Lin, C., Hamouda, H.I., Mao, X., Al-Zayat, A.M. and Yang, H., Plastic-associated microbial communities in aquaculture areas**. Frontiers in Marine Science**, p.928.
- Sui, Y., Zhang, T., Yao, X., Yan, M., Yang, L., **Mohsen, M.,** Nguyen, H., Zhang, S., Jiang, H., Lv, L. and Zheng, L., 2022. Synthesized effects of medium-term exposure to seawater acidification and microplastics on the physiology and energy budget of the thick shell mussel Mytilus coruscus. ***Environmental Pollution***, *308*, p.119598.
- Sui, Y., Zheng, L., Chen, Y., Xue, Z., Cao, Y., **Mohsen, M.,** Nguyen, H., Zhang, S., Lv, L. and Wang, C., 2022. Combined effects of short term exposure to seawater acidification and microplastics on the early development of the oyster Crassostrea rivularis. ***Aquaculture***, *549*, p.737746.
- **Mohsen, M**., Lin, C., and Yang, H., Fate of microplastic fibres in the coelomic fluid of the sea cucumber *Apostichopus japonicus***. Environmental toxicology and chemistry.** Just accepted.

Under-review articles:

- **Mohsen, M.**, Lin, C., and Yang, H., Microplastics in canned, salt-dried, and ready to eat sea cucumbers sold for human consumption. Under review.

REVIEWER SUMMARY

For manuscripts reviewed from date range October 2017 - October 2022

(3) Fishes	(3) Frontiers in Marine Science
(2) Frontiers in Environmental Science	(2) Aquaculture Research
(1) Marine Pollution Bulletin	

11 REVIEWS OF 9 MANUSCRIPTS

From date range October 2017 - October 2022