



**TAGEM**  
R&D AND INNOVATION

MEDITERRANEAN FISHERIES RESEARCH  
PRODUCTION AND TRAINING INSTITUTE/  
ANTALYA



## MURAT YEŞİLTAŞ, PhD

### Fisheries Engineer

#### EDUCATION

- PhD**  
2016-2021  
Ege University  
Institute of Science
  - MSc**  
2011-2013  
İstanbul University  
Institute of Science
  - Bachelor's Degree**  
2005-2009  
Ondokuz Mayıs University  
Faculty of Fisheries
- LANGUAGE** English YDS 75

#### CAREER

- 2013-ongoing Engineer, Mediterranean Fisheries Research  
Production and Training Institute - ANTALYA

#### ABOUT ME

Dr. Murat Yeşiltaş was born in İstanbul in 1987. In 2008, he graduated from Ondokuz Mayıs University, Faculty of Fisheries. His master's thesis in 2012 focused on the effect of alginate coating on the shelf life of smoked fish. In 2021, he completed his PhD program at Ege University by integrating microalgae into aquaponics.

He is interested in microalgal biotechnology in the department of Ecology and Resource.

#### CONTACT

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## Fisheries Engineer



### ▪ **PROJECTS**

#### ▪ **Projects Conducted**

1. Effect of alginate coating on smoked fish quality İstanbul University, Scientific Research Project Number: 6731, 2012 (Project Coordinator).
2. Determination of phytoplankton diversity and distribution in Antalya Bay, effect of physicochemical parameters on succession (TAGEM/HAYSUD/2017/A11/P-02/3), 2019 (Project Coordinator).
3. Microalgae integration to aquaponics, TÜBİTAK Project (119O180), 2021 (Project Coordinator).
4. The effect of the production of *Spirulina subsalsa*, isolated from Antalya Bay, in different culture volumes and culture mediums on the water surface in polyethylene bags on biomass and biochemical content.

#### ▪ **Ongoing Projects**

1. Determination of the potential aquaculture areas in Turkish Region of The Mediterranean Sea (TAGEM/HAYSUD/ÜG/17/SU/P-01/05) (Researcher).
2. Self-sufficient Integrated Multi-Trophic AquaPonic systems for improving food production sustainability and brackish water use and recycling (SIMTAP) (EU 2020) (Researcher).



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### ▪ **PUBLICATIONS**

#### ▪ **INTERNATIONAL ARTICLES AND PAPERS**

##### ▪ **Articles Published in International Journals**

1. **Yeşiltaş, M.**, Koçer, M. A. T., Sevgili, H., Koru, E. (2023). Effect of different hydraulic loading rates on growth of basil (*Ocimum basilicum* L. 'Genovese') in nutrient film technique aquaponics. *Ege Journal of Fisheries and Aquatic Sciences*, 40(3), 155-165. <https://doi.org/10.12714/egejfas.40.3.01>.
2. **Yeşiltaş, M.**, Koçer, M. A. T., Sevgili, H., Koru, E. 2021. "Effect of Different Inorganic Substrates on Growth Performance of African Catfish (*Clarias gariepinus*, Burchell 1822) and Lettuce (*Lactuca sativa* L.)." *Turkish Journal of Agriculture-Food Science and Technology* 9.4 (2021): 714-722.
3. Erkan, N., **Yeşiltaş, M.**, 2016. "Alginate based active edible coating effectiveness in shelf-life enhancement of hot smoked rainbow trout." *Archiv für Lebensmittelhygiene* 67(2):54-58.
4. Erkan, N., **Yeşiltaş, M.**, 2014. "Effects of sodium alginate coating and vacuum packaging on the extension of the shelf life of hot smoked rainbow trout fillets." *Fleischwirtschaft International*, vol. 29, 2014.
5. Erkan, N., Dursun, S., Ulusoy, Ş., Akçay, S., **Yeşiltaş, M.** 2013. "Combined Effects Of Protein Based Edible Film Coatings And Vacuum Packaging On The Quality Of Fresh Sea Bass Fillets.", *Fleischwirtschaft International*, vol.28, pp.61-68.
6. **Yeşiltaş, M.**, Erkan, N. 2010. "Su Ürünlerinin Kalitesinin Korunmasında Aljinat Kaplamanın Etkisi.", *Gıda Teknolojisi*, cilt.14, ss.84-87.
7. Dursun, S., Erkan, N., **Yeşiltaş, M.** 2010. "Doğal Biyopolimer Bazlı (Biyobozunur) Nanokompozit Filmler Ve Su Ürünlerindeki Uygulamalar", *Journal of FisheriesSciences.com*, vol.4, pp.50-77.

##### ▪ **International Papers, Seminars, etc.**

1. 2023 (24.11-26.11) – International Symposium on Fisheries and Aquatic Sciences (SOFAS 2022) (Trabzon) – Biomass production performance and nutritional value of microalgae grown in remineralized sludge water obtained from Nutrient Film Technique (NFT) Aquaponics. (Murat Yeşiltaş, Mehmet Ali Turan Koçer, Hüseyin Sevgili, Edis Koru).



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- 2022 (25.11 – 27.11) – International Symposium on Fisheries and Aquatic Sciences (SOFAS 2022) (Trabzon) – Effect of different inorganic substrates on growth performance of African catfish (*Clarias gariepinus*, Burchell 1822) and lettuce (*Lactuca sativa* L.) (Murat Yeşiltaş, Mehmet Ali Turan Koçer, Hüseyin Sevgili, Edis Kuru).
- 2019 (03.11 – 05.11) - XX. National Aquaculture and Fisheries Symposium (Mersin University) (Mersin) - Türkiye’de Çift Kabuklu Üretim Alanlarının Sınıflandırılması İzmir Üretim Alanları (Mehmet Ali Turan Koçer, Seçil Tüzün Duğan, **Murat Yeşiltaş**, Levent Özkan, Gül Eymirli, Ayşen Tuğba Uysal, Gamze Avcıoğlu, Gülnur Penbe Özdemir, Derya Evin Çelik).
- 2019 (03.11 – 05.11) - XX. Ulusal Su Ürünleri Sempozyumu (Mersin Üniversitesi) (Mersin). - Antalya Körfezi Yüzey Fitoplankton Kompozisyonunun Belirlenmesi (Murat Yeşiltaş, Mehmet Ali Turan Koçer, Dinçer Başdemir, Faruk Pak, Özgür Aktaş, İsmail Dal, Meryem Cansu Yeşiltaş, Tufan Koray, Serkan Erkan, Seçil Tüzün Duğan, Coşkun Menderes Aydın, Merve Karakuş, Banu Yalım, Yılmaz Emre).
- 2017 (12.09-15.09.17) - 13. International Ecology and Environment Congress (Edirne) - Antalya Körfezi’nde yapılan trol çekimlerinde toplanan deniz çöplerinin durumu (Öztürk, S., Karakuş, M., Dal, İ., Sarıgöz, S., **Yeşiltaş, M.**, Buğdaycı Kanlı, M., Tıraşın, E. M., Ünlüoğlu, A.)

### ▪ **OTHER PUBLICATIONS**

#### ▪ **Ph.D. Thesis, Master Thesis, Reports, Books etc.**

- Effect of alginate coating on smoked fish quality, (Msc thesis) 2012..
- Some commercial microalgae species culture in aquaponics, (PhD thesis) 2021.
- Determination of Phytoplankton Diversity and Distribution in Antalya Bay, Effect of Physicochemical Parameters on Succession (TAGEM/HAYSUD/2017/A11/P-02/3), 2019, (TAGEM Project Report) 2019.
- Microalgae Integration to Aquaponics, TÜBİTAK 1002 Project Report, 2021.



# MURAT YEŞİLTAŞ, PhD

## Fisheries Engineer



- **Membership, Training, Course, Meeting, Congress, Symposium and Other Activities**
- 1. 2011 (24.01 – 25.01) Institute of Turkish Standards – İstanbul University, ISO 22000 Food Security Management Systems Basic Training.
- 2. 2010 (01.10 – 01.12) KOSGEB-İŞKUR – İzmir University, Entrepreneurship Training.
- 3. 2010 (12.07 – 21.07) Özyeğin University – Entrepreneurship-Intrapreneurship Training with Naeem Zafar (University of California, Berkley).