



TAFEM
R&D AND INNOVATION

CENTRAL FISHERIES RESEARCH INSTITUTE
SUMAE / TRABZON

ZEHRA DUYGU DÜZGÜNEŞ

Biologist (Msc)

EDUCATION

- PhD** Recep Tayyip Erdoğan University
Ongoing Institute of Sciences / Biology Department
- MSc** Karadeniz Technical University
2006-2009 Institute of Sciences / Biology Department
- Bachelor's Degree** Karadeniz Technical University
2001-2006 Faculty of Sciences/ Biology Department
- LANGUAGE** English YDS 61.25

CAREER

- 2011- Researcher, SUMAE - TRABZON

ABOUT ME

She was born in Trabzon in 1983. She completed her primary, secondary and high school education in Trabzon. She graduated from Karadeniz Technical University, Faculty of Arts and Sciences in 2006 as a "Biologist". In 2009, she completed her master's degree at Karadeniz Technical University, Institute of Science, Department of Biology. In 2011, she started to work as a Biologist in the Breeding and Genetics Department of Trabzon Fisheries Central Research Institute. She still works as a researcher in the Breeding and Genetics Department of Trabzon Fisheries Central Research Institute and takes part in various projects..

CONTACT

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■ **PROJECTS**

■ **Projects Conducted**

1. TAGEM- Population Genetic, Phylogenetic and Phylogeographic Analysis of Pearl Mullet (*Alburnus tarichi* Güldenstädt, 1814) in Lake Van Basin by Using Genetic Methods Researcher
2. TAGEM - The Determination of Nutritional Requirements in Blacksea Trout (*Salmo trutta labrax*) (Researcher) 2011-2016
3. TAGEM - Preliminary Study for fish Gen Bank: Cryoprservation (Researcher) 2013-2015
4. TAGEM - Determination of the Bioecology and Aquaculture Characteristics of the Mullet Species (*Mugil cephalus*, *Liza aurata*) in the Eastern Black Sea (Researcher) 2015- 2019
5. TAGEM - Investigation of the possibilities of using some phytobiotic added diets in nutrition of Black sea trout (Researcher) 2017-2019
6. TAGEM- Analysis of the Genetic Structure of Brown Trout (*Salmo trutta L.*) Population in Turkey Using Microsatellite DNA and mtDNA Markers (Researcher)
7. TAGEM- Monotoring of Anchovy Fisheries in the Black Sea (Researcher)
8. TAGEM -Temporal analysis of archived samples of the genetic structure in the Black Sea Mullet (*Mullus barbatus*) :1989-2015 (Researcher)
9. TAGEM -Establishment Of Genebank Database: Turbot (*Psetta maxima L.*) Researcher
10. TAGEM -National Aquaculture Genetic Database (Researcher)

■ **Ongoing Projects**

1. TAGEM- The Use of Molecular Genetics and Biotechnological Methods to Form Black Sea Trout Breeding Line (Researcher)2019-2024
2. TAGEM-Determination of Genetic Diversity of Bluefish (*Pomatomus saltatrix*) in Turkish Coasts- (Researcher)

■ **PUBLICATIONS**

■ **INTERNATIONAL ARTICLES AND PAPERS**

■ **Articles Published in International Indexed Journals (SCI, SCI-Expanded)**

Ayaz F.A., Torun H., Glew R.H., **Bak Z.D.**, Chuang L.T., Presley J.M., Andrews R., 2009. Nutrient content of carob pod (*Ceratonia siliqua L.*) flour prepared commercially and domestically. Plant Foods Human Nutr 64, 286-292.



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Güney D., **Z.D Bak.**, F Aydinoğlu., İ Turna., F.A Ayaz., 2013 Effect of geographical variation on the sugar composition of the oriental beech (*Fagus orientalis Lipsky*), Turkish Journal of Agriculture and Forestry 37: 221-230

S Firidin, RC Ozturk, M Alemdag, O Eroglu, Y Terzi, I Kutlu, **ZD Duzgunes**,....2020.Population genetic structure of turbot (*Scophthalmus maximus L.*, 1758) in the Black Sea.Journal of Fish Biology 97 (4), 1154-1164

Aydın, İ., Öztürk, R.Ç., Polat, H., Terzi, Y., Özel, O.T., Alp-Erbay, E., **Düzgüneş, Z.D.**, Altuntaş, A., Küçük, E. 2021. Sperm characteristics of wild-caught and hatchery-reared turbot,*Scophthalmus maximus*, originated from the Black Sea. Journal of Applied Ichthyology. doi.org/10.1111/jai.14272.

Articles Published in Other International Journals

Düzgüneş, Z.D., Eroğlu, O., Firidin, Ş., Çakmak, E. 2018 Genetic Diversity for Anchovy Populations (*Engraulis encrasicolus L.*) in the Azov, Marmara and Black Sea. Genetics of Aquatic Organisms 2: 53-60 (DOI: 10.4194/2459-1831-v2_2_05)

Cakmak, E., Cankirilgil, E.C, **Düzgüneş, Z. D.**, Özel, O.T., Eroglu, O., Firidin, S. 2019. Triploid Black Sea Trout (*Salmo labrax* Pallas, 1814) Induced by Heat Shock and Evaluation of Triploidy with Different Techniques. Genetics of Aquatic Organisms 3(1), 01-07. doi.org/10.4194/2459-1831-v3_1_01.

Kasapoğlu N., Çankırılıgil E. C., **Düzgüneş Z. D.**, Çakmak E., Eroğlu O. 2020. The bio-ecological and genetic characterization of newly distributed sand steenbras (*Lithognathus mormyrus*) in the Black Sea. J. Black Sea/Mediterranean Environment,26:(3)

▪ International Papers, Seminars, etc.

Düzgüneş, Z.D., Firidin, Ş., Eroğlu, O., 2015. Evolutionary Journey of the Anchovy (*Engraulis encrasicolus L.*) to the Black Sea. MACEDOSU 2015 Symposium, September,18-20,2015, Symposium Abstract Book,195.(Poster Presentation)

Z. D.Düzgüneş, O.Eroğlu, Ş. Firidin, F. Afan. 2016. Importance of Genetic Monitoring for Conservation and Management. 2016, 10-12 November PRONASEM 6th International Conference Symposium Abstract Book 117s. (Poster Presentation)

Firidin Ş., O.Eroğlu., Kutlu İ., **Düzgüneş, Z.D** 2017 The Future of Ancient DNA in Conservation Genetics 04-06 October 2017 Limnofish 2017 Symposium

Çakmak, E., Özel, O.T., Perker, N., Altuntas, A., Aksungur, N., Aksungur, M., Ergün, H., **Düzgüneş, Z.D.**, Özdemir, M.D. 2019. The effects of diets with different protein levels on Black Sea trout (*Salmo labrax*, Pallas 1814) reproductive performance. 11. International Animal Science Conference. 20-22 October 2019, Nevşehir.



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- **NATIONAL ARTICLES AND PAPERS**

- **Articles Published in National Journals**

Firidin Ş., O.Eroğlu, **Z.D. Bak.**,2013 Kahverengi Alabalık da Genetik Yaklaşımı Anaç Yönetimi; Türkiye Soy Gruplarının Multipleks PZR ile Belirlenmesi ,Yunus Araştırma Bülteni , (1):1-8

- **National Papers, Seminars, etc.**

Firidin Ş., O.Eroğlu,**Z.D. Bak.**,2013,Genetik Yaklaşımı Anaç Yönetimi FABA 2013 (Balıkçılık ve Akvatik Bilimler) Sempozyumu. 30 Mayıs-01 Haziran, 2013, Erzurum. (Poster).

Eroğlu, O., Firidin Ş., **Z.D. Bak.**, Çiftçi Y., 2013. İnci Kefali (*Alburnus tarichi* Pallas,1811)Popülasyonlarının Genetik Yapısının Mitokondriyal DNA-RFLP Analiz Yöntemiyle Belirlenmesi. FABA 2013 (Balıkçılık ve Akvatik Bilimler) Sempozyumu. 30 Mayıs-01 Haziran, 2013, Erzurum. (Poster).

Bak Z.D., O.Eroğlu, Ş.Firidin, Karadeniz'deki Hamsi Popülasyonunun Genetik Yapısının RFLP Yöntemiyle Belirlenmesi ,FABA 2013 (Balıkçılık ve Akvatik Bilimler) Sempozyumu. 30 Mayıs-01 Haziran, 2013, Erzurum. (Poster).

Firidin Ş., O.Eroğlu, **Z.D. Bak**,2013, Doğal Alabalıklarda Uygulamalı Genetik Çalışmalar,3. Alabalık Sempozyumu 24-26 Mayıs 2013,Kastamonu (Poster).

Afan F.,O.Eroğlu, Ş.Firidin, **Z.D. Bak** Zengin M., ,M. Dağtekin, Çıldır Gölünde ki Kahverengi Alabalıkların (*Salmo trutta*) Sekans ve RFLP Yöntemi ile Genetik Analizi, 3. Alabalık Sempozyumu 24-26 Mayıs 2013,Kastamonu (Poster).

O.Eroğlu, Ş.Firidin, M. Aksungur, Afan F., **Z.D. Bak**, Karadeniz Alabalığında (*Salmo trutta labrax*) Doğal ve Kültür Popülasyonlarının Genetik Yapısının Belirlenmesi, 3. Alabalık Sempozyumu 24-26 Mayıs 2013,Kastamonu (Poster).

Bak, Z.D., Firidin, Ş., Eroğlu, O., 2014. Genetik Veri Tabanının Uygulamaya Aktarımı: Kahverengi Alabalıklarda Orjin Tespiti. 5. Doğu Anadolu Bölgesi Su Ürünleri Sempozyumu, 31 Mayıs-02 Haziran 2014, Elazığ, Bildiri Kitabı, 426-427. (Poster).

Düzungünəş, Z.D., Firidin, Ş., Eroğlu, O., 2015. Doğal Kaynakların Sürdürülebilirliği için Genetik İzleme Programlarının Önemi. Ekoloji Sempozyumu 2015,06-09 Mayıs 2015, Sinop, Bildiri Kitabı, 307.(Poster)

Firidin Ş., Eroğlu O., **Düzungünəş Z.D.**, Afan F.,Kutlu İ., çakmak E., 2017 Karadeniz Kalkan Balığı (*Psetta maxima*)'nın Popülasyonlarından Kullanılabilir Mikrosatellit Lokuslarının Belirlenmesi. 12-15 Eylül 2017 SUSEMP 2017

Düzungünəş Z. D., Eroğlu O., Firidin Ş., Afan F., Kutlu İ. 2017 Geliştirilmiş Mikrosatellit Belirteçlerin Karadeniz Hamsi Popülasyonlarına Uygulanabilirliği. 12-15 Eylül 2017 SUSEMP 2017, Bildiri kitabı,117



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■ **OTHER PUBLICATIONS**

■ **Ph.D. Thesis, Master Thesis, Reports, Books etc.**

Master Thesis : Physiological and biochemical changes developed by salicylic acid application in two zucchini cultivars (*Cucurbita pepo L.*) exposed to salt stress, Master's Thesis. KTU.

■ **Membership, Training, Course, Meeting, Congress, Symposium and Other Activities**

■ **Trainings**

EU Grant Funds and Project Cycle Management

R Statistical Software Program

■ **Social Networks**

Researchgate <https://www.researchgate.net/profile/Zehra-Duezguenes>

Google Academic <https://scholar.google.com/citations?user=yxaEAS4AAAAJ&hl=tr&oi=ao>

Orcid <https://orcid.org/0000-0001-6243-4101>



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