

## Res. Asst. SERHAT TÜRKMEN

### Personal Information

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### Education Information

Postgraduate, The International Center For Advanced Mediterranean Agronomic Studies in Zaragoza, Universidad De Las Palmas De Gran Canaria Ciencias Del Mar, Denizel Yetistiricilik, Spain 2012 - 2014

Postgraduate, Cukurova University, Fen Bilimleri Entitüsü, Su Ürünleri Yetistiriciliđi, Turkey 2009 - 2012

Undergraduate, Cukurova University, Su Ürünleri Fakültesi, Turkey 2004 - 2009

### Foreign Languages

Spanish, B2 Upper Intermediate

English, C1 Advanced

### Dissertations

Postgraduate, NUTRITIONAL PROGRAMMING OF GILT HEAD SEABREAM (*Sparus aurata*) DURING WEANING FOR BETTER UTILIZATION OF LOW FISH MEAL AND FISH OIL DIETS ALONG ON-GROWING , The International Center For Advanced Mediterranean Agronomic Studies in Zaragoza, Universidad De Las Palmas De Gran Canaria, Ciencias Del Mar, Denizel Yetistiricilik, 2014

Postgraduate, FARKLI TUZLULUK VE SICAKLIKLARDA YETI?S?TI?RI?LEN GENC? AVRUPA DENI?Z LEVREG?I? (*Dicentrachus labrax*) BI?REYLERI?NDE BU?YU?ME PERFORMANSI VE BAZI KRONI?K STRES PARAMETRELERI? I?LE HI?STOLOJIK DEG?I?S?I?MLERIN BELI?RLENMESI? , Cukurova University, Fen Bilimleri Enstitüsü, Su Ürünleri Yetistiriciliđi, 2012

### Research Areas

Agricultural Sciences, Seafood, Aquaculture, Life Sciences, Molecular Biology and Genetics, Genomics, Natural Sciences

### Academic Titles / Tasks

Research Assistant, Cukurova University, Fen Bilimleri Enstitüsü, Fen Bilimleri Enstitüsü, 2010 - Continues

### Published journal articles indexed by SCI, SSCI, and AHCI

1. Parental LC-PUFA biosynthesis capacity and nutritional intervention with alpha-linolenic acid affect performance of *Sparus aurata* progeny.

Turkmen S., Zamorano M. J., Xu H., Fernández-Palacios H., Robaina L., Kaushik S., Izquierdo M.

The Journal of experimental biology, vol.223, 2020 (SCI-Expanded)

- II. **Influence of Parental Fatty Acid Desaturase 2 (fads2) Expression and Diet on Gilthead Seabream (Sparus aurata) Offspring fads2 Expression during Ontogenesis**  
Xu H., Ferosekhan S., Turkmen S., Afonso J. M., Zamorano M. J., Izquierdo M.  
ANIMALS, vol.10, no.11, 2020 (SCI-Expanded)
- III. **Reproductive performance of gilthead seabream (Sparus aurata) broodstock showing different expression of fatty acyl desaturase 2 and fed two dietary fatty acid profiles.**  
Ferosekhan S., Xu H., Turkmen S., Gómez A., Afonso J., Fontanillas R., Rosenlund G., Kaushik S., Izquierdo M.  
Scientific reports, vol.10, pp.15547, 2020 (SCI-Expanded)
- IV. **The Relationship between the Expression of Fatty Acyl Desaturase 2 (fads2) Gene in Peripheral Blood Cells (PBCs) and Liver in Gilthead Seabream, Sparus aurata Broodstock Fed a Low n-3 LC-PUFA Diet**  
Ferosekhan S., Turkmen S., Xu H., Afonso J. M., Zamorano M. J., Kaushik S., Izquierdo M.  
LIFE-BASEL, vol.10, no.7, 2020 (SCI-Expanded)
- V. **Stearoyl-CoA desaturase (scd1a) is epigenetically regulated by broodstock nutrition in gilthead sea bream (Sparus aurata)**  
Perera E., Turkmen S., Simo-Mirabet P., Zamorano M. J., Xu H., Naya-Catala F., Izquierdo M., Perez-Sanchez J.  
EPIGENETICS, vol.15, no.5, pp.536-553, 2020 (SCI-Expanded)
- VI. **Alteration of Growth and Temperature Tolerance of European Sea Bass (Dicentrarchus labrax Linnaeus 1758) in Different Temperature and Salinity Combinations**  
YILMAZ H. A., Turkmen S., KURLU M., EROLDUĞAN O. T., PERKER N.  
TURKISH JOURNAL OF FISHERIES AND AQUATIC SCIENCES, vol.20, no.5, pp.331-340, 2020 (SCI-Expanded)
- VII. **Effects of Dietary Lipid Composition and Fatty Acid Desaturase 2 Expression in Broodstock Gilthead Sea Bream on Lipid Metabolism-Related Genes and Methylation of the fads2 Gene Promoter in Their Offspring**  
Turkmen S., Perera E., Zamorano M. J., Simo-Mirabet P., Xu H., Perez-Sanchez J., Izquierdo M.  
INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, vol.20, no.24, 2019 (SCI-Expanded)
- VIII. **Nutritional intervention through dietary vegetable proteins and lipids to gilthead sea bream (Sparus aurata) broodstock affects the offspring utilization of a low fishmeal/fish oil diet**  
Xu H., Turkmen S., Rimoldi S., Terova G., Jesus Zamorano M., Manuel Afonso J., Sarih S., Fernandez-Palacios H., Izquierdo M.  
AQUACULTURE, vol.513, 2019 (SCI-Expanded)
- IX. **Long-chain PUFA profiles in parental diets induce long-term effects on growth, fatty acid profiles, expression of fatty acid desaturase 2 and selected immune system-related genes in the offspring of gilthead seabream**  
Turkmen S., Hernandez-Cruz C. M., Zamorano M. J., Fernandez-Palacios H., Montero D., Afonso J. M., Izquierdo M.  
BRITISH JOURNAL OF NUTRITION, vol.122, no.1, pp.25-38, 2019 (SCI-Expanded)
- X. **Dietary krill meal inclusion contributes to better growth performance of gilthead seabream juveniles**  
Saleh R., Burri L., Benitez-Santana T., Turkmen S., Castro P., Izquierdo M.  
AQUACULTURE RESEARCH, vol.49, no.10, pp.3289-3295, 2018 (SCI-Expanded)
- XI. **Parental nutritional programming and a reminder during juvenile stage affect growth, lipid metabolism and utilisation in later developmental stages of a marine teleost, the gilthead sea bream (Sparus aurata)**  
Turkmen S., Zamorano M. J., FERNANDEZ-PALACIOS H., HERNANDEZ-CRUZ C. M., Montero D., ROBAINA L., Izquierdo M.  
BRITISH JOURNAL OF NUTRITION, vol.118, no.7, pp.500-512, 2017 (SCI-Expanded)
- XII. **Nutritional stimuli of gilthead seabream (Sparus aurata) larvae by dietary fatty acids: effects on larval performance, gene expression and neurogenesis**  
Turkmen S., LUIS CASTRO P., JOSE CABALLERO M., MARIA HERNANDEZ-CRUZ C., SALEH R., JESUS ZAMORANO M., REGIDOR J., Izquierdo M.

AQUACULTURE RESEARCH, vol.48, no.1, pp.202-213, 2017 (SCI-Expanded)

- XIII. **Nutritional programming through broodstock diets to improve utilization of very low fishmeal and fish oil diets in gilthead sea bream**  
IZQUIERDO M. S., Turkmen S., MONTERO D., ZAMORANO M. J., AFONSO J. M., KARALAZOS V., FERNANDEZ-PALACIOS H.  
AQUACULTURE, vol.449, pp.18-26, 2015 (SCI-Expanded)
- XIV. **Compensatory growth response of European sea bass (*Dicentrarchus labrax* L.) under cycled starvation and restricted feeding rate**  
TÜRKMEN S., EROLDUĞAN O. T., YILMAZ H. A., ÖLÇÜLÜ A., Inan G. A. K., ERÇEN Z., Tekelioglu N.  
AQUACULTURE RESEARCH, vol.43, no.11, pp.1643-1650, 2012 (SCI-Expanded)
- XV. **Thermal tolerance of European Sea Bass (*Dicentrarchus labrax*) juveniles acclimated to three temperature levels**  
Dulger N., Kumlu M., Türkmen S., Ölçülü A., Eroldoğan O. T., Yılmaz H. L., Ocal N.  
JOURNAL OF THERMAL BIOLOGY, vol.37, no.1, pp.79-82, 2012 (SCI-Expanded)
- XVI. **Off-season Maturation and Spawning of the Pacific White Shrimp *Litopenaeus vannamei* in Sub-tropical Conditions**  
KUMLU M., TÜRKMEN S., Kumlu M., Eroldogan O. T.  
TURKISH JOURNAL OF FISHERIES AND AQUATIC SCIENCES, vol.11, no.1, pp.15-23, 2011 (SCI-Expanded)
- XVII. **Thermal tolerance of *Litopenaeus vannamei* (Crustacea: Penaeidae) acclimated to four temperatures**  
KUMLU M., TÜRKMEN S., Kumlu M.  
JOURNAL OF THERMAL BIOLOGY, vol.35, no.6, pp.305-308, 2010 (SCI-Expanded)
- XVIII. **Combined effects of temperature and salinity on critical thermal minima of pacific white shrimp *Litopenaeus vannamei* (Crustacea: Penaeidae)**  
KUMLU M., Kumlu M., TÜRKMEN S.  
JOURNAL OF THERMAL BIOLOGY, vol.35, no.6, pp.302-304, 2010 (SCI-Expanded)

### **Refereed Congress / Symposium Publications in Proceedings**

- I. **Effects of Administration of Vegetable Oil with Varying Feeding Schedules in Finishing Phase on Fatty Acids Composition of European Sea Bass *Dicentrarchus labrax***  
YILMAZ H. A., EROLDUĞAN O. T., ÖLÇÜLÜ A., TÜRKMEN S., ÇİÇEK I. C., DEDELER H.  
International Symposium on Fisheries and Aquatic Science (FABA2016), 3 - 05 November 2016
- II. **EFFECTS OF ADMINISTRATION OF VEGETABLE OIL WITH VARIYING FEEDING SCHEDULES IN FINISHING PHASE ON FATTY ACIDS COMPOSITION OF EUROPEAN SEA BASS, *Dicentrarchus labrax***  
ÖLÇÜLÜ A., YILMAZ H. A., Dedeler H., Çiçek I. C., EROLDUĞAN O. T., TÜRKMEN S.  
International Symposium on Fisheries and Aquatic Science 2016, Antalya, Turkey, 3 - 05 November 2016, pp.306-307
- III. **The Effects of Short Starvation and Refeeding on Lipid Metabolism in European sea bass (*Dicentrarchus labrax*) at Different Temperatures**  
EROLDOĞAN O. T., ÖÇAL N., YILMAZ H. A., TÜRKMEN S., ÖLÇÜLÜ A.  
Aquaculture European 2016, 20 - 23 September 2016
- IV. **THE EFFECTS OF SHORT STARVATION AND REFEEDING ON LIPID METABOLISM IN EUROPEAN SEA BASS *Dicentrarchus labrax* AT DIFFERENT TEMPERATURES**  
EROLDOĞAN O. T., ÖÇAL N. N., YILMAZ H. A., TÜRKMEN S., ÖLÇÜLÜ A.  
AQUACULTURE EUROPE 16, Edinburgh, United Kingdom, 20 - 23 September 2016, pp.90
- V. **Testing long effects of parental nutritional programming and a 'remainder' juvenile programming on lipid metabolism and growth in *Sparus aurata***  
TÜRKMEN S., Izquierdo M.  
Periconception Environment, Dubrovnik, Croatia, 26 May 2015 - 29 January 2016, pp.53
- VI. **Testing long effects of parental nutritional programming and a ?reminder? juvenile programming on**

## **lipid metabolism and growth in Sparus aurata**

TÜRKMEN S., Izquierdo M.

Epiconcept Workshop 2015 Periconception Environment, Dubrovnik, Croatia, 26 - 29 April 2015, pp.53

### **VII. Sparus aurata as a model for nutritional reprogramming of marine fish: Effectiveness of different developmental windows**

TÜRKMEN S., Izquierdo M.

Epigenomic Toolbox: from Methods to Models, Las Palmas, Spain, 07 May 2014 - 09 May 2015, pp.40

### **VIII. In Vivo Digestibility of Fatty Acids in European Sea Bass (Dicentrarchus labrax) Fed Rapeseed- or Cottonseed Oil Diets**

EROLDOĞAN O. T., YILMAZ H. A., TÜRKMEN S., ÖZŞAHİNOĞLU I., MUMOĞULLARINDA P.

Fisheries and Aquatic Science (FABA), Erzurum, Turkey, 29 May - 01 June 2013, pp.1

### **IX. FARKLI TUZLULUK VE SICAKLILARIN AVRUPA DENİZ LEVREĞİ (Dicentrarchus labrax) NDE TERMAL TOLERANS ÜZERİNE ETKİSİ**

TÜRKMEN S., YILMAZ H. A., ÖLÇÜLÜ A., KUMLU M., EROLDOĞAN O. T., Öcal N., Dülger N.

XVI. Ulusal Su Ürünleri Sempozyumu, Antalya, Turkey, 25 - 27 October 2011, pp.1

### **X. The determination of the gastric evacuation time of European sea bass (Dicentrarchus labrax ) fed with diets containing different levels of olive pomace oil.**

YILMAZ H. A., TÜRKMEN S., EROLDOĞAN O. T., HARMANTEPE F. B., ÖLÇÜLÜ A., ÇİÇEK I. C., Dedeler H.

The XVI. National Fisheries Symposium, Antalya, Turkey, 25 - 27 October 2011, pp.25

### **XI. Effect of salinity and temperature on thermal tolerance of European Sea Bass (Dicentrarchus labrax) juveniles.**

KUMLU M., Dulger N., TÜRKMEN S., ÖLÇÜLÜ A., EROLDOĞAN O. T., YILMAZ H. A., Ocal N.

The XVI. National Fisheries Symposium, Antalya, Turkey, 25 - 27 October 2011, pp.26

### **XII. Apparent Digestion of Nutrient and Fatty Acid in European Sea Bass (Dicentrarchus labrax) Fed Rapeseed - or Cottonseed Oil- Based Diets**

EROLDOĞAN O. T., YILMAZ H. A., Sirkecioğlu A. N., Arslan M., Engin K., TÜRKMEN S., ÇİÇEK I. C., Dedeler H.

Aquaculture Europe 2010, Porto, Portugal, 5 - 08 October 2010, pp.420-421

## **Supported Projects**

DİKEL S., TÜRKMEN S., Project Supported by Higher Education Institutions, Thermal Tolerance and Growth Performance of Nile Tilapia Oreochromis niloticus and Hybrid Tilapia Oreochromis niloticus x Oreochromis aureus Acclimated to Three Temperatures, 2017 - 2017

## **Scientific Research / Working Group Memberships**

Grupo de Investigacion en Acuicultura, The International Center For Advanced Mediterranean Agronomic Studies in Zaragoza, Spain, www.giaqua.org, 2014 - Continues

## **Metrics**

Publication: 30

Citation (WoS): 219

Citation (Scopus): 232

H-Index (WoS): 8

H-Index (Scopus): 8

## **Congress and Symposium Activities**

Epigenomic Toolbox: from Methods to Models, Attendee, Las Palmas, Spain, 2014

Aquaculture: To the Next 40 Years of Sustainable Global Aquaculture, Attendee, Las Palmas, Spain, 2013

XVI. Ulusal Su Ürünleri Sempozyumu, Attendee, Antalya, Turkey, 2011