



**TAGEM**  
R&D AND INNOVATION

FISHERIES RESEARCH INSTITUTE/ EĞİRDİR



## KAMİLE GONCA EROL, PhD

### Fisheries Engineer

## EDUCATION

- PhD** 2011-2020 Süleyman Demirel University  
Department of Aquaculture
  - MSc** 2009-2011 Süleyman Demirel University  
Department of Aquaculture
  - Bachelor's Degree** 1993-1997 Süleyman Demirel University  
Faculty of Eğirdir Fisheries
- LANGUAGE** English UDS 67,5


## CAREER


- 2002- Continued, Researcher, Fisheries Research Institute, Eğirdir/ISPARTA
- 2001-2002, Fisheries Engineer, Muğla Province Directorate of Agriculture, MUĞLA
- 1993-2001, Nurse, Eğirdir Bone Diseases Hospital, Eğirdir/ISPARTA
- 1992-1993, Nurse, Ahlat State Hospital, Ahlat/BİTLİS


## ABOUT ME

She was born in 1973 in Acıpayam, Denizli. She completed her primary school in Acıpayam, secondary school in Istanbul and high school in Isparta Health Vocational High School. She worked as a nurse at the Ministry of Health in 1992-2001. In 1997, she graduated from Süleyman Demirel University, Eğirdir Fisheries Faculty, as a Fisheries Engineer. In 2001, she transferred to the Ministry of Agriculture and started to work as an Engineer in Muğla Provincial Directorate of Agriculture. In 2002, she was appointed to the Directorate of Eğirdir Fisheries Research Institute as an engineer. She received her Master's degree in Süleyman Demirel University, Institute of Science, Department of Aquaculture in 2011, and her Doctorate in the same University and Department in 2021. She has expertise in the field of crayfish farming and still continues her research at the Directorate of Eğirdir Fisheries Research Institute.

## CONTACT

 Su Ürünleri Araştırma Enstitüsü  
Müdürlüğü, Menderes Mah. Dr. İsa Köklü  
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### ▪ **PROJECTS**

#### ▪ **Projects Conducted**

1. Feed Formulation Based on Ontogenic Development of Freshwater Crayfish, *Astacus leptodactylus* (Project Leader) (TÜBİTAK-3001/2017-2019)
2. Improvement of Crayfish Growing Techniques in Recirculating Aquaculture System, Prevention of Plaque Disease transmission to the System and the Transfer of Disease to Lake Eğirdir (Project Leader) (TÜBİTAK-BİDEB 2221/2017)
3. Investigation of Combined Effects of Dietary Supplementation Prebiotic Inulin and Chitosan and Probiotic Bacteria *Bacillus subtilis* on *Astacus leptodactylus* (Esch. 1823) Juveniles (Project Leader) (TAGEM/2015-2019)
4. Investigation of the Effect of Melatonin and Serotonin on *Astacus leptodactylus* (Eschscholtz, 1823) Juveniles (TAGEM/2015-2018)
5. New Technologies in Crayfish Culture and Processing (BAKA/2013-2014)
6. Monitoring of Fish and Crayfish Populations in Beyşehir, Eğirdir, İznik and Uluabat Lake (TAGEM/2010-2012)
7. The Investigation of Bacterial Diseases on Some Rainbow Trout (*Oncorhynchus mykiss*, Walbaum 1792) Facilities in Isparta-Aksu (SDÜ-BAP/2010-2011)
8. The Increase of Survival Rates of Freshwater Crayfish Juveniles Cultured under the Controlled Conditions (Project Leader) (TAGEM/2007-2011)
9. The Effects of Probiotic Applications on Growth and Survival Rates of *Astacus Leptodactylus* Juveniles (TÜBİTAK Project No: 1060353/2006-2008)
10. Stock Estimation of The Economical Fish in Manyas Lake (TAGEM/2006-2007)
11. Determining crayfish and economic fish stocks and studying their sustainability in Lake Uluabat and İznik (TAGEM/2006-2007)
12. Determining economic fish stocks and studying their sustainability in Lake Beyşehir and Lake Eğirdir (TAGEM/2006-2007)
13. Investigation of Crayfish Culture (TAGEM/2002-2006)

#### ▪ **Ongoing Projects**

1. Incubation Performance of Crayfish Eggs (*Ponastacus leptodactylus* Esch, 1823) in Recirculating Aquaculture System Conditions. (TAGEM/2021-2023)



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2. Research of the Bacterial Flora of Freshwater Crayfish *Pontastacus leptodactylus* (Eschscholtz, 1823) in Nature and Aquaculture (TAGEM/2023-2024)

### ■ **PUBLICATIONS**

#### ■ **INTERNATIONAL ARTICLES AND PAPERS**

##### ■ **Articles Published in International Journals**

1. Kozák, P., **Erol, K.G.**, Uzunmehmetoğlu, O.Y., Tangerman, M., Mojžišová, M., Özkök, R., Kouba, A., Çınar, Ş., Petrusek, A. 2023. Short-term artificial incubation before hatching limits vertical transmission of *Aphanomyces astaci* from chronically infected females of a host species susceptible to crayfish plague. *Aquaculture*, 569, 739373.
2. Özkök, R., Aktaş, M., **Erol, K. G.**, Didinen, B. I., Ceylan, M., Çetinkaya, S., Uzunmehmetoğlu, O. Y., Çınar, Ş., Çavdar, N., Pazar, M., Sevgili, H. 2021. Effects of serotonin (5-HT) on juvenile culture of narrow-clawed crayfish *Pontastacus leptodactylus* (Eschscholtz, 1823). *Aquaculture Research*, 00, 1-9.
3. **Erol, K.G.**, Özkök, R., Yağcı, M.A., Uzunmehmetoğlu, O.Y. 2021. A bilaterally partitioned colouration of a narrow-clawed crayfish *Pontastacus leptodactylus* (Eschscholtz, 1823) in the Lake Eğirdir (Central Anatolian, Turkey). *Limnologica*, 86, 125843.
4. Özkök, R., Aktaş, M., **Erol K.G.**, Didinen, B., Ceylan, M., Çetinkaya, S., Uzunmehmetoğlu, O.Y., Çınar, Ş., Çavdar, N., Pazar, M. (2021). Melatonin'in Tatlısu İstakozu (*Pontastacus leptodactylus* Eschscholtz, 1823) Yavrularında Gelişim, Hayatta Kalma Oranı ve Bağışıklık Yanıtı Üzerindeki Etkisi. *Journal of Limnology and Freshwater Fisheries Research*, 7(2), 108-114.
5. Uzunmehmetoğlu, O. Y., Buřič, M., **Erol, K. G.**, Özkök, R., Çınar, Ş., Kozák, P. 2019. Habitat separation of the crab *potamon potamios* and the crayfish *potastacus leptodactylus* in Lake eğirdir, Turkey. *Limnologica*, 78, 125692.
6. Didinen, B.I., Bahadır Koca, S., Metin, S., Diler, O., **Erol, K.G.**, Dulluc, A., Koca, H.U., Yigit, N.O, Ozkok R., Kucukkara R. 2016. Effect of lactic acid bacteria and the potential probiotic *Hafnia alvei* on growth and survival rates of narrow clawed crayfish (*Astacus leptodactylus* Esch., 1823) stage II juveniles. *Iranian Journal of Fisheries Sciences*, 15(4):1307-1317.
7. Koca S.B, Yigit ON., Dulluc A, **Erol G.**, Cilbiz N and Kucukkara R., 2011. Appropriate Usage Level of Shrimp Waste Meal as Chitin Source for Feeding Young Crayfish (*Astacus leptodactylus* Esch. 1823) *Pakistan Veterinary Journal*, ISSN: 0253-8318 *Pak Vet J*, 2011, 31(3):207-210.
8. **Erol, KG.**, Özkök, R., Cilbiz, N., Küçükkara, R., Çınar, Ş., Tümgelir, L., Ceylan, M., Meke, T., Diler, Ö., Didinen, B.I., Bahadır Koca, S. 2017. Effect of Different Feed and Stocking Density on Survival and Growth Performance of *Astacus leptodactylus* (Esch., 1823) Juveniles. *Journal of Limnology and Freshwater Fisheries Research*, 3(3):159-165.
9. Çınar, Ş., Küçükkara, R., Balık, İ., Çubuk, H., Ceylan, M., **Erol, K.G.**, Yeğen, V., Bulut, C., 2013. Detection of Fish Fauna, Species Composition and Distribution of Commercial Fishing According to Species in Lake Uluabat. *Journal of FisheriesSciences.com*, 7(4): 309-316.



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### Articles Published in International Journals

10. **Erol, K.G.**, Özkök, R., Küçükbara, R., Çınar, Ş., 2010. Potential Mortality Causes on Juvenile Stage in Freshwater Crayfish *Astacus leptodactylus* (Eschscholtz, 1823) Farming, Journal of Eğirdir Fisheries Faculty, 6(2): 23-30.
11. Çınar, Ş., Küçükbara, R., Ceylan, M., Çubuk, H., **Erol, K.G.**, Akçimen, U., Savaşer, S., 2008. Investigation of growth features of Rudd (*Scardinius erythrophthalmus* L., 1758) population in Uluabat Lake. Journal of Fisheries & Aquatic Sciences, 25, 4: 289-293.

### International Papers, Seminars, etc.

1. Kozák, P., **Erol, K.G.**, Uzunmehmetoğlu, O.Y., Kouba, A., Özkök, R., Çınar, Ş., Tangerman, M., Petrusek, A. 2022. Prevention of vertical transmission of crayfish plague: Is the production of crayfish plague-free juveniles from infected females possible? 23rd Symposium of the International Association of Astacology, 20-25 June 2022, Hluboká nad Vltavou, Czech Republic.
2. **Erol, K.G.**, Özkök, R., Didinen, B.I., Bahadır Koca, S., Çınar, Ş. 2018. The Effect of Different Photoperiods on the Growth and Survival of Narrow-Clawed Crayfish (*Astacus leptodactylus*, Esch., 1823) Juveniles. 13th International Symposium on Fisheries and Aquatic Sciences, ISBN: 978-605-68894-0-0, 21-23 November 2018, Ankara, Turkey.
3. Özkök, R., **Erol, K.G.**, Uzunmehmetoğlu, O.Y. 2017. Share of in Fishery Production of Crustacean in Turkey and World, 1st International Symposium on Limnology and Freshwater Fisheries, 4-6 October 2017, Eğirdir-Isparta/Turkey.
4. **Erol, K.G.**, Özkök, R., Veske, E., Uzunmehmetoğlu, O.Y., Çınar, Ş. 2017. Crayfish Research Center in Turkey, European Crayfish Conference 2017: The IAA Cruise 2017, 16-18 August 2017, Finland.
5. Özkök, R., **Erol, K.G.**, Uzunmehmetoğlu, O.Y., Çınar, Ş. 2017. The Status of Indigenous Crayfish Species, *Astacus leptodactylus* (Eschscholtz, 1823) In Turkey, European Crayfish Conference 2017: The IAA Cruise 2017, 16-18 August 2017, Finland.
6. **Erol, K.G.**, 2014. Inland Fish Hatchery Management in Turkey. CACFish regional workshop Inland Fish Hatchery Management, 27-30 October 2014, Bishkek, Kyrgyz Republic.
7. Diler, Ö., Didinen, B.I., Bahadır Koca, S., Ekici, S., **Erol, G.**, Dulluç, A., Koca, H., 2009. The Effects of Using a Commercial Probiotic on The Survival and Growth of Freshwater Crayfish, *Astacus leptodactylus* Juveniles. 14th EAFP International Conference, Prague, September 14-19, 2009. Diseases of Fish and Shellfish.



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### ▪ NATIONAL ARTICLES AND PAPERS

#### ▪ Articles Published in National Journals

1. Tümgelir, L., Çubuk, H., Çınar, Ş., Özkök, R., Küçükkara, R., Ceylan, M., **Erol, K.G.**, Çetinkaya, S., 2007. Growth Features of the Chub (*Leuciscus lepidus* Heckel, 1843) Population in Lake Beyşehir. Turkish Journal of Aquatic Life, 3-5, 5-8, 200-208.
2. Çınar, Ş., Çubuk, H., Özkök, R., Tümgelir, L., Çetinkaya, S., **Erol, K.G.**, Ceylan, M., 2007. Growth Features of Silver Crucian Carp (*Carassius gibelio* Bloch, 1782) Population in Lake Beyşehir. Turkish Journal of Aquatic Life, 3-5, 5-8, 401-409.
3. Özkök, R., Çubuk, H., Tümgelir, L., Uysal, R., Çınar, Ş., Küçükkara, R., **Erol, K.G.**, Ceylan, M., 2007. Growth Features of Silver Crucian Carp (*Carassius gibelio* Bloch, 1782) Population In Lake Eğirdir. Turkish Journal of Aquatic Life, 3-5, 5-8, 313-322.
4. Çubuk, H., Balık, İ., Çınar, Ş., Özkök, R., Tümgelir, L., Küçükkara, R., **Erol, K.G.**, Uysal, R., Yağcı, M., 2007. The Final Situation at the Fishery of Lake Eğirdir, Turkish journal of Aquatic Life, 3-5, 5-8, 182-188.

#### ▪ National Papers, Seminars, etc.

1. **Erol, K.G.**, Özkök, R. 2018. Feed Formulation Based on Ontogenic Development of Freshwater Crayfish, *Astacus leptodactylus* (Project Introduction). 19 December 2018, Egirdir.
2. Özkök, R., **Erol, K.G.** 2018. Crayfish Culture Studies in the Institute made Until Today. Crayfish Feed Workshop 19 December 2018, Egirdir.
3. **Erol, K.G.**, Özkök, R. 2016. Resirculating Systems: Freshwater Crayfish Research Center. Workshop on Alternative Internal Aquaculture Species Production, 11-13 January 2016, Antalya, Turkey (Oral Presentation).
4. **Erol, K.G.**, Özkök, R. 2016. Crayfish Culture under Controlled Conditions. Workshop on Alternative Internal Aquaculture Species Production, 11-13 January 2016, Antalya, Turkey (Oral Presentation).
5. Çavdar, N., Özkök, R., **Erol, K.G.** 2015. The Use of Melatonin in Aquaculture, II. Symposium on Fish Introduction and Reservoir Management, 20-22 May 2015, Isparta-Turkey. (Oral Presentation).
6. Cilbiz, M. Küçükkara, R., Çapkın, K., **Erol, K.G.**, 2015. Effect of Fishing Season and Sex Differences on Gillnet Selectivity: Sample of *Carassius gibelio* (Bloch, 1782) in Manyas Lake, II. Symposium on Fish Introduction and Reservoir Management, 20-22 May 2015, Isparta-Turkey.
7. Cilbiz, M., Küçükkara, R., Cilbiz, N., Çapkın, K., **Erol, K.G.**, 2014. Investigation of the Selectivity of Monofilament Gillnet Used in Crucian Carp (*Carassius gibelio* (Bloch, 1782) Fishery in the Manyas Lake, Balıkesir-Turkey. V. Eastern Anatolia Region Fisheries Symposium, 31 May-02 June 2014, Elazığ, Turkey.



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### ▪ National Papers, Seminars, etc.

8. **Erol, K.G.**, Özkök, R., Çınar, Ş., Ceylan, M., Koca, S.B., Didinen, B.I., 2014. The Investigation of Embryonic and Postembryonic Development of the Freshwater Crayfish *Astacus leptodactylus* Cultured Under Controlled Conditions. V. Eastern Anatolia Region Fisheries Symposium, 31 May-02 June 2014, Elazığ, Turkey.
9. Özkök, R., **Erol, G.**, Çınar, Ş., Çetinkaya, S., Cesur, M., 2014. The Effect of the Different Populations on the Culture Performance of Freshwater Crayfish. V. Eastern Anatolia Region Fisheries Symposium, 31 May-02 June 2014, Elazığ, Turkey.
10. Özkök, R., **Erol, K.G.**, 2014. The Common Aquaculture Techniques of Crayfish and its Situation in Turkey and in the World, Workshop on Crayfish in Eğirdir Lake, 29.04.2014, Isparta, Turkey.
11. Çınar, Ş., Cilbiz, M., Çavdar, N., **Erol, K.G.** Babar Yoldaş, B., 2013. The Investigation of Carp (*Cyprinus carpio* L., 1758) Catching Selectivity That Different Mesh Size and Multifilament Gillnet in Eğirdir Lake, Symposium on Fisheries and Aquatic Sciences (FABA), 30 May-01 June 2013, Erzurum, Turkey.
12. Çınar Ş., Bulut C., Korkut S.O., Ceylan M., **Erol K.G.**, Cilbiz N., Hanol Z., 2012. Some Biological Characteristics and Stock Size of the Pike (*Esox lucius* L., 1758) Population in Lake Uluabat, V. Limnology Symposium, 27-29 August 2012, Isparta, Turkey.
13. Küçükkara R., Ceylan M., Korkut S.O., Çapkın K., Bulut C., **Erol K.G.**, Savaşer S., Cilbiz N., 2012. Growth Features of Silver Crucian Carp (*Carassius gibelio* Bloch, 1782) Population in Lake Manyas, V. Limnology Symposium, 27-29 August 2012, Isparta, Turkey.
14. **Erol, K.G.**, Diler, Ö., Küçükkara, R., Özkök, R., Cilbiz, N., Çınar, Ş., Tümgelir, L., Ceylan, M., Meke, T., Didinen, B.I., 2009. The Effect of Different Feed and Stock Density on Growth and Survival Rate of *Astacus leptodactylus* Juveniles. Management and Conservation of Freshwater Crayfish Stock in Natural Resource, 25-26 June 2009, Eğirdir, Turkey.
15. Didinen, B., Bahadır Koca, S., Ekici, S., Dulluç, A., Koca, H.U., Gülle, İ., Diler, Ö., **Erol, G.**, Özkök; R., Küçükkara, R. 2009. The Effects of Using a Commercial Probiotic on the Survival and Growth of Freshwater Crayfish, *Astacus Leptodactylus* Juveniles, Management and Conservation of Freshwater Crayfish Stock in Natural Resource, 25-26 June 2009, Eğirdir, Turkey.
16. Çınar, Ş., Küçükkara, R., Balık, İ., Çubuk, H., Ceylan, M., **Erol, K.,G.**, Yeğen, V., 2009. Detection of Fish Fauna and a Study on Species Composition in Lake Uluabat, XV. National Fisheries Symposium, 1-4 July 2009, Rize, Turkey.
17. Didinen, B.I., Diler, Ö., Özkök, R., Ekici, S., Dulluç, A., **Erol, G.**, 2007. The Effect of Stocking Density on Growth and Survival Rate of Freshwater Crayfish (*Astacus leptodactylus* Eschscholtz, 1823) Juveniles, National Water Day Symposium, 16-18 May 2007, Antalya, Turkey.



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### ▪ National Papers, Seminars, etc.

18. **Erol, K.G.**, Çetinkaya, S., Tümgelir, L., Çubuk, H. 2006. Growth Features of Tench (*Tinca tinca* L., 1758) Population in Beyşehir Lake. 1th International Symposium for Beyşehir and its Region, 11-13 May 2006, 315-321, Beyşehir-Konya, Turkey.
19. Apaydın Yağcı, M., Özkök, R., **Erol, K.G.**, Çubuk, H., 2006. The Feeding Features of Pike-Perch (*Sander lucioperca* (Linnaeus, 1758)) Population in Beyşehir Lake. 1th International Symposium for Beyşehir and its Region, 11-13 May 2006, 420-427, Beyşehir-Konya, Turkey.
20. Çetinkaya, S., Çınar, Ş., Özkök, R., **Erol, K.G.**, 2006. Growth Features of Carp (*Cyprinus carpio* L., 1758) Population in Beyşehir Lake, 1th International Symposium for Beyşehir and its Region, 11-13 May 2006, 697-704, Beyşehir-Konya, Turkey.

### ▪ OTHER PUBLICATIONS

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

1. The Investigation of Bacterial Diseases on Some Rainbow Trout (*Oncorhynchus mykiss*, Walbaum 1792) Facilities in Isparta-Aksu (Master's Thesis)
2. Feed Formulation Based on Ontogenic Development of Freshwater Crayfish, *Astacus leptodactylus* (Doktorate Thesis)

#### ▪ Membership, Training, Course, Meeting, Congress, Symposium and Other Activities

1. Fishermen and Farmer Training in Eğirdir Lake Settlements within the scope of the Project on the Development of Policies for the Detection of Domestic and Agricultural Wastes and Prevention of Pollution. 15-26 April 2019.
2. Seven color Lake seven colorful life (Wildlife Protection Association (WWF/Siemens) - Fishermen Training Group -Specialist) Eğirdir, Turkey, 2010.
3. Crayfish Rearing in Recirculating Aquaculture System (RAS) (especially critical period problems and feeding in juvenile crayfish culture. University of South Bohemia Faculty of Fisheries and Protection Of Waters, Czech Republic, 2017.
4. Training Program for Use of Experimental Animals, 16-17 January 2017 EĞİRDİR
5. Preparation of TUBITAK and European Union (EU) Project, Writing Articles in International Journals and Making Effective Presentations, 15-24 Ocak 2015, SAREM, Eğirdir-İSPARTA.





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### ▪ Membership, Training, Course, Meeting, Congress, Symposium and Other Activities

6. A Relationship Aquaculture with Others Sectors (Antalya-Kepez Aquaculture Station, Antalya, Turkey, 2002)
7. Marketing Status of and Projections for The Future of Fisheries (Central Fisheries Research Institute, Trabzon, Turkey, 28-30 May 2002).
8. Herbarium Preparation Techniques, Aegean Agricultural Research Institute, İzmir, TURKEY, 2004.
9. Experimental Animal Use Certificate, SAREM-HADYEK, Certificate Number: 2017-1/007
10. 1st Regional IPRS (IN POND RACEWAY SYSTEM) Introductory Virtual Meeting, USSEC, 25 January 2021.
11. Webinar on Carp Farming, FishCap project of FPPP II, 8-9 December 2020.
12. Eğirdir Lake Freshwater Crayfish Sector Evaluation Meeting 13 March 2019 Isparta Directorate of Provincial Agriculture and Forestry.
13. Crayfish feed workshop Organization-Regulation-Presentation 19.12.2018 Eğirdir.
14. 13th International Symposium on Fisheries and Aquatic Sciences, 23 November 2018, Ankara, Turkey.
15. European Crayfish Conference 2017: The IAA Cruise 2017, 16-18 August 2017 The University of Eastern Finland (Helsinki)-Sweden (Stockholm).
16. I st International Symposium on Limnology and Freshwater Fisheries, 4-6 October 2017, Eğirdir-Isparta/Turkey.
17. II. Symposium on Fish Introduction and Reservoir Management (Organizing Committee), 20-22.05.2015, Eğirdir.
18. Inland Fish Hatchery Management (Central Asian and Caucasus Regional Fisheries and Aquaculture Commission, Bishkek, Kyrgyzstan, 27-30 October 2014).
19. Workshop on Crayfish in Eğirdir Lake (Organizing Committee), 29.04.2014, Isparta.