

## CURRICULUM VITAE

### Personal Details

Name: Meryem Beklioglu  
Address: Middle East Technical University (METU),  
Biology Department, 06531 Ankara, Turkey  
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### Higher Education

1991-1995 PhD in Freshwater Ecology "Whole Lake and Mesocosm Studies on the Role of Nutrients and Zooplankton Grazing in a system of Shallow and Deep lakes" Environmental and Evolutionary Biology Department, the University of Liverpool, UK, (Professor Brian Moss, the supervisor)  
1988-1991 MSc. in population genetics, "Determination of morphometric variation within and among six species of Tsetse fly, *Glossina* by multivariate statistical analyses" Institute of Science, Department of Biology, METU, Ankara.  
1984-1988 BSc. In Biology, METU, Faculty of Arts and Science, Department of Biology, Ankara

### Work Experience

2007- Professor in Hydrobiology, Biology Department, METU  
2000-2006 Associate Professor, Biology Department, METU,  
1996-2000 Assistant Professor, Biology Department, METU,  
1989-1995 Research Assistant, Biology Department, METU  
1988-1989 Worked for the preparation of "Wetlands of Turkey" book, Environmental Problems Foundation of Turkey.

### Courses Taught

Freshwater Ecology (*under/postgraduate*)  
Eutrophication and Restoration of Lake Ecosystems (*postgraduate*)  
Ecology of Shallow Lakes (*postgraduate*)  
Advanced Ecology (*postgraduate*)  
Paleoecology (*postgraduate*)  
Wetlands (*undergraduate*)  
Ecology (*undergraduate*)  
Ecology and Evolution (*undergraduate* with four other faculty members)  
Applied Ecology (*undergraduate*)  
General Biology (*undergraduate*)  
Special projects (*undergraduate*)  
Laboratory Techniques in Freshwater Ecology (*postgraduate*)

## Fellowships

- Nov 11-Nov 25 2013 Brazilian Society of Limnology grant, invited for teaching "Ecology of Shallow Lakes" course for a week, Natal
- Oct.25-Nov. 25 1999 The British Council, the Visits and Exchanges Programme Grant, Environmental Research Centre, University College London, UK
- June 1997-Oct.1997 Post-doctoral Research Grant given by the Ministry of Environmental and Energy, National Environmental Research Institute in the Department of Lake and Estuarine Ecology, Silkeborg, Denmark
- June 1996-Oct.1996 Post-doctoral Research Grants given by TÜBİTAK/Royal Society and the British Council, Ankara at the University of Liverpool, the UK.
- Oct. 1991-Oct .1995 PhD scholarship of the Higher Education Council of Turkey, The University of Liverpool, UK

## **Scientific Committee Membership**

### **Conferences/Symposiums**

- 15<sup>th</sup> International Conference on Salt Lake Research ICSLR, 2024, Turkey
- 3<sup>rd</sup> International Symposium Aquatic Mesocosm based Research, 2023, Turkey
- Ecology and Evolutionary Symposium, 2022, Turkey
- SIL, 2020 Scientific Organizer, 2020, South Korea,
- Shallow Lakes Conference, 2021, Brazil, Scientific committee member
- 2<sup>nd</sup> International Symposium Aquatic Mesocosm based Research, 2021
- Shallow Lakes Conference:October, 2014, Antalya, Turkey, Organizer
- Shallow Lakes Conference: Structure and Function of Shallow lakes' 23<sup>rd</sup> to the 28<sup>th</sup> of November 2008, Punta Del Este, Uruguay
- TMMOB, Symposium on Climate Change: Global Climate Change and Turkey, 13-14<sup>th</sup> March 2008, Ankara, Turkey
- III. National Limnology Symposium, 27-29 August, 2008
- VIII. National Environment and Ecology Conference, 20-23<sup>th</sup> October, Northern Cyprus Republic, 2008
- VII. National Environment and Ecology Conference, 10-13<sup>th</sup> Sept, 2007. Malatya, Turkey
- Global Climate Change and Environmental Impacts, Konya Metropolitan Municipality, 18-20<sup>th</sup> October, 2007,
- National Wetlands Meeting, October 4-8, 2013
- National Limnology Conference, August 3-8, 2013
- 8<sup>th</sup> International Shallow Lakes Conference," Shallow lakes in a fast changing world", 12-17 October, 2014, Antalya, Turkey
- Scientific committee member of Symposium for European Freshwater Sciences July 5-10, 2015, Geneva, Switzerland.

### **Journal/magazines**

Limnology Ocenography Letter, Associate Editor  
TÜBİTAK, Turkish Journal of Zoology, Editorial Board, 2009

### **Organization/Foundations**

TEMA foundation, Scientific Committee

## Awards

2024	International Society of Limnolgy (SIL) Vice president
2023	METU, Yearly Scientific Achievement Award
2022	METU, Yearly Scientific Achievement Award
2021	METU, Yearly Scientific Achievement Award
2020	METU, Yearly Scientific Achievement Award
2019	METU, Yearly Scientific Achievement Award
2018	METU, Yearly Scientific Achievement Award
2016	METU, Yearly Scientific Achievement Award
2014	METU, Natural and Applied Sciences Institute, the PhD thesis of the year Award, given to PhD gradute, Ayşe İdil Çakaroğlu and myself- as supervisor
2014	Young scientist of the year award given to PhD graduate, Dr. Ü.Nihan Tavşanoğlu and myself as süpervisor
2014	METU, Yearly Scientific Achievement Award
2012	METU, Yearly Scientific Achievement Award
2011	Respecting Wetlands Reward, by 2 <sup>nd</sup> National Wetlands Congress
2010	METU, Yearly Scientific Achievement Award
2009	Member of the research group who received the prestigious <b>Naumann-Thienemann medal</b> for outstanding science in Limnology (highest international award in the field) in 2010, first time the medal has been awarded to both a scientist, Prof Erik Jeppesen, and his group.
2008	METU, Yearly Scientific Achievement Award
2006	METU, Yearly Scientific Achievement Award
2004	METU, Yearly Scientific Achievement Award
2000	“TUBİTAK, YDBÇAG, Project Patent award” given to the project entitled “Design of a fast dependable fish stock determination method based on kairomones released from fish” Meryem Beklioğlu (Principal investigator), A. Ozan, F. Severcan, TUBİTAK- YDABÇAG-100Y035.
1999	“The Thesis of the Year Award” of the Prof.Dr. Mustafa N. Parlar Education and Research Foundation, completed by MSc. Leven Burnak in October 1998 under my supervision.

## Meeting organization

Nov. 28-30 <sup>th</sup> 2001	Organization of an International Workshop on, “Shallow Lake Wetlands: Ecology, Eutrophication, and Restoration: CCC, METU, Ankara, Turkey (Lecturers: Professor Brian Moss, the UK; Professor Erik Jeppesen, Denmark; Dr. Hugo Coops, the Netherlands; Dr. Paul Boers, the Netherlands; Dr. <b>Meryem Beklioğlu</b> , Turkey) with 200 participants
May 25 <sup>th</sup> 2003	Organization of an International mini-workshop on “ <b>Water level fluctuation on structure and Function of Shallow lakes</b> ”. In Balatonfüred, During Shallow lakes 2002 conference, Hungary, organized by Hugo Coops, <b>Meryem Beklioglu</b> & Thomas L. Crisman
June 7 <sup>th</sup> 2005	Organization of an International miniworkshop on “ <b>Shallow Mediterranean Lakes: Variation in the Theme – Workshop Conclusions</b> ” organized by <b>Meryem Beklioglu</b> , Susana Romo, Ifigenia

<b>June 4-17, 2006</b>	Kagalou, Xavier Quintana, Eloy Bécares, during Shallow lakes in a Changing world" conference 5-9 June, 2005, Dalfsen, the Netherlands Organization of an International course on <b>“Training the trainers for wetland management”</b> by KAD, MoE&F, ODTÜ, EVD, the Netherlands, ODTU, KKM
<b>June 18-20, 2006</b>	International workshop on “Shallow lakes: From north to the southern latitudes at the face of changing climate and biodiversity, METU, Biology Department, Ankara.
<b>June 28-29, 2007.</b>	International workshop on “impact of climate change on aquatic ecosystem and society” Ankara, METU, CCC.
<b>October 12-17, 2014</b>	Chair of 8 <sup>th</sup> International Shallow Lakes Conference,” Shallow lakes in a fast changing world”, 2014, Antalya, Turkey
<b>Nov. 07-10<sup>th</sup> 2023</b>	Chair of 3 <sup>rd</sup> International Symposium Aquatic Mesocosm based Research 2023, Antalya, Turkey
<b>Nov. 04-08<sup>th</sup> 2024.</b>	15 <sup>th</sup> International Conference on Salt Lake Research ICCLR, 2024, Antalya Turkey

### International Projects

1. TRANSPONDER : Biodiversa2022-64, Transnational biodiversity and ecosystem assessment approaches for pondscapes in Europe, (2024-)
2. 2023 GISU Joint Research Project Abrupt eco-environmental changes in coastal lagoons since the Anthropocene and their ecological restoration, Guangzhou University, (2024)
3. EU H2020- INFRAIA-01 Network of Leading Ecosystem Scale Experimental AQUATIC MesoCOSM Facilities Connecting Rivers, Lakes, Estuaries and Oceans In Europe and beyond (AQUACOSM PLUS) – (2021-2025) –9,999,563 Euro
4. PONDERFUL: Pond Ecosystems For Resilient Future Landscapes In a Changing Climate (2021-2023) – 998,958 Euro
5. EU H2020-INFRAIA-Project No 731065 AQUACOSM: Network of Leading European AQUATIC MesoCOSM Facilities Connecting Mountains to Oceans from the Arctic to the Mediterranean (01.2017-12.2020), 9,999,807 Euro
6. EU- FP7-ENV 2013.6.21 Managing Aquatic Ecosystems and water resources under multiple Stresses- acronym MARS Grant agreement- 603378 supported under ENV.2013.6.2-1] [Water resources management under complex, multi-stressor conditions] (2014-2018)- 8. Million Euro, Meryem Beklioglu (the only partner from Türkiye)
7. EU H2020- NETLAKE Cost Action ES 1201- Networking Lake Observations In Europe- Substitute Member (2012-2016)
8. EU FP7-People-Marie Curie Career Integration Grant (CIG). Project No 618006. “Titanium dioxide – the silent killer: finding the relevant biological target for exposure characterization and risk assessment of nanoparticles toxicity in fish model (FishTiO2)”. ODTÜ Limnoloji Laboratuvarı Ağırlayan Enstitüsü (Meryem Beklioğlu) (2013-2017)- 100.000 Euro.

9. EU- FP7-ENV-2009-1: Collaborative Dynamic, REFRESH. Adaptive Strategies to Mitigate the Impacts of Climate Change on European Freshwater Ecosystems, İP3. Prof. Dr. Erik Jeppesen ile birlikte eş-yönetici (2009-2013)- 220.000 Euro
10. EC- DIRECTIVE 2000/6 - Hellenic-Turkish Cooperation on the Strengthening of Protection and Management of Watercourses -and Especially of Wetlands (2004-2006)- 34,000 Euro.
11. EVD, KAD, MoE&F, Training the trainers for wetland management, International education organization Incooperation with METU. (Ocak-Ağustos 2006) – 75,000 Euro. –

### Nationally-Funded Projects

1. TÜBİTAK 1004 - Proje no:22AG019 Su sistemlerinin etkin yönetimi için yeni nesil akıllı ve bütünleşik gözlem sistemleri. **Meryem Beklioğlu** (PI), Korhan Özkan, Can Özen, Ali Değermenci, Gülce Yalçın, Nur Filiz (2022-2025). (2.999.992TL)
2. TÜBİTAK 2232 – 118C250 Tuzlu ve Hafif Tuzlu Sularda İklim Değişikliğinin Trofik Yapı ve Dinamikleri Üzerine Etkisinin Zaman Yerine Mekan Arazi Örneklemesi, Kontrollü Mezokozm Deneyle, Paleoekoloji, Uzaktan Algılama ve Modelleme Yoluyla İncelenmesi. Erik Jeppesen (PI), **Meryem Beklioğlu** (host) , Zuhul Akyürek, Korhan Özkan. (2020-2023) (3.700.612 TL)
3. TÜBİTAK 1001, Proje no:119Y265: Göllerde İklim Değişimi Kaynaklı Aşırı Karasal Çözünmüş Organik Madde (tDOC) Yüküne Karşı Mikrobik ve Planktonik Komünitelerin Dayanıklılığı (Resistance), Esnekliği (Resilience) ve İyileşmesi (Recovery): Mezokozm –temelli Deneysel Araştırma (Kısaltma: R3-DOC) **Meryem Beklioğlu** (PI) (2020-2023) (746,712.00 TL)
4. TÜBİTAK- ÇAYDAG- 114Y415. Investigating the response of lake metabolisms and phytoplankton biomass to extreme events through automated high frequency measurements. **Meryem Beklioğlu** (PI) (2015-2018) (398264 TL)
5. DPT\_BAP\_ÖYP: Factor that control phytoplankton community structure in Turkish shallow lakes using multiple approaches. **Meryem Beklioğlu** (PI), Şeyda Erdoğan (MSc.). (2012- 2016)
6. TÜBİTAK 112Y387 (1002 hızlı destek). Eymir Gölü için gerçek zamanlı göl izleme ve erken uyarı sistemi prototipi geliştirilmesi. **Meryem Beklioğlu**. (March-Sept 2013)
7. TÜBİTAK. Proje No B.14.2.TBT.0.06.01.03.220.01. Meryem Beklioglu (PI), Dr. Boris Jovanović (Co-PI) (2013) (18,000 TL)TÜBİTAK-ÇAYDAG- 110Y125. Akdeniz İklim Kuşağındaki Sığ Göllerde Suiçi Bitkilerin Yapısal Rolü İle Gelişimini Etkileyen Faktörlerin Geçmişte, Günümüzde ve Daha Sıcak Isınan Koşullarda Belirlenerek Uyum ve Azaltma Stratejilerinin Oluşturulması. **Meryem Beklioğlu** (Proje Yöneticisi) (394000TL) (2010-2013)
8. DPT\_BAP\_ÖYP: Role of hydrology, fish and nutrients in determining the ecology of shallow lakes. **Meryem Beklioglu** (Proje Yöneticisi), Arda Özen (MSc.). (2004- 2012)
9. BAP-08-11-DPT. 2010 K121500-2. TEAB. **Meryem Beklioğlu**, Zuhul Akyürek, Helga Tılıç, Bahar Gedikli. Ecology of Lake Beyşehir. (2010) (135.000 TL)
10. TÜBİTAK 109Y18 (1002 hızlı destek). Sığ GöllerİnEkolojik Yapısının Belirlenmesinde Mikrobik Çevrimin Rolü. **Meryem Beklioglu** (Mart 2010-2011)
11. TÜBİTAK, ÇAYDAG 105Y332. Akdeniz İklim Kuşağındaki Sığ Göllerde Suiçi Bitkilerinin Yapısal Rolü İle Gelişimini Etkileyen Faktörlerin Geçmişte, Günümüzde ve Daha Sıcak Isınan Koşullarda Belirlenerek Uyum ve Azaltma Stratejilerinin Oluşturulması. Didem Oguzkurt (Proje Yöneticisi), **Meryem Beklioğlu** (Araştırmacı). (2006-2009).
12. TÜBİTAK, ÇAYDAG 104Y308. Göllerde Tuzluluk ve İnsektisit Miktarının Biyobelirteç olan Daphnia Üzerindeki Etkilerini Belirleyerek Ekosistem Durumunu Öngören Model ve İndekslerin Tasarımı. **Meryem Beklioglu** (Proje Yöneticisi), F. Severcan and B. S. Akkaş. (2005-2007)

13. TÜBİTAK, ÇAYDAG 105Y085 Determining the impact of Global climate change on lake ecosystems in Turkey. Temel Oguz (Proje Yöneticisi), Meryem Beklioğlu (araştırmacı) (2006- 2007). TÜBİTAK, ÇAYDAG 104Y371. Determining the water clarity and aquatic plant coverage in shallow lakes using remote sensing. Zuhul Akyürek (Proje Yöneticisi), **Meryem Beklioğlu** (2005-2007)
14. TÜBİTAK, ÇAYDAG 105Y085 **Meryem Beklioğlu** (Principal investigator), A. Ozan, F. Severcan. Design of a fast dependable fish stock determination method based on kairomones released from fish. TUBİTAK- YDABÇAG-100Y035 (1.9.2000-30.9.2003).

#### National Projects (Only TUBİTAK, Scientist exchange projects )

- TUBİTAK 2221 funding, **2013. TL 18,000** Project No B.14.2.TBT.0.06.01.03.220.01. Principal investigator: **Meryem Beklioğlu**; Co-principal investigator B. Jovanović.
- TUBİTAK 2221 funding, **2012. 9000 TL** Project No B.14.2.TBT.0.04.01.04.220.01. Principal investigator: **Meryem Beklioğlu**; Co-principal investigator Dr. Sandra Brucets .
- TUBİTAK **Post\_Doc** funding. **Thomas Boll**: Native and invasive fish species distribution and environmental factors (March- 2013-2014, 25000 TL)

#### Consultancy Works:

- United Nations Climate Change Programme Turkish 2<sup>nd</sup> National Communication on impact, vulnerability and adaptation on Freshwater Ecosystems. June-Sept-2011
- Lectures on “Climate Change and freshwater resources “ given at “Introduction to Climate Change” organizez by Food and Agriculture organization of the United Nations (FAO) in Ankara on 26-27 October and 2-3 November.
- Consultant to the project entitled “Adaptation to Climate Change and Protection of Biodiversity through Conserving and Sustainably Using Wetlands in Turkey, German, GTZ-Ministry of Environment and Forestry, February, 2010 Feb.
- Development a model for eutrophication and management of eutrophic lakes in the project of “Technical Assistance for the Establishment of a Turkish Environmental Information Exchange Network (TEIEN), MoE, 2009-2010
- Lectures on “Ecology of Wetlands”, “ Training of the Trainers for Wetland Ecosystem Management” during 2008-2009 organized by Bird Research Society.

#### POSTGRADUATE SUPERVISIONS

##### Completed MSc:

1. MSc. LS Burnak, 1998. Pelagic Trophic Interactions: Clear versus Turbid in Lake Mogan and Lake Eymir.
2. MSc. M. Killi, 1999. Contemporary Limnology of Çubuk II Dam Lake.
3. MSc. Cagri B. Muluk, 2001. Diel vertical displacement and life history variables of *Daphnia pulex* in Lake Eymir, Ankara

4. MSc. Duygu Ay Zöğ, 2001. Isolation and partial characterization of aquatic bacteria from Lake Eymir, Ankara (co-supervisor).
5. MSc, Can Ozan Tan, 2002. The roles of hydrology and nutrients in alternative equilibrium of two shallow lakes of Anatolia, Lake Eymir and Lake Mogan: Using monitoring and modeling approaches.
6. MSc. Gizem Verda Ogul, 2002 Alkyl phenols in the different tissues of fish caught in Lake Eymir and Kurtbogazi dam Lake.
7. MSc. H. Elif Ozcan, 2002. Combined effects of the 4-nonylphenol and fish kairomones on the survival, morphology and life history traits of *Daphnia magna* stratus.
8. MSc. Mohhamed Sillah, 2002. The role of Submerged plants in stabilizing water clarity and the migration pattern of dominant zooplankton in Lake Eymir, Türkiye.
9. MSc. Mohammed Kisambri, 2003. The impact of water level fluctuations on development of submerged plants and the role of submerged plants in stabilizing clear-water state Lake Mogan, Türkiye.
10. MSc. Pelin Zorlu, 2003. Optimization of laboratory assays of diel vertical migration of *Daphnia pulex* in determining fish kairomones using bacterial degradation.
11. MSc. Mustafa Gökmen, 2004. Modelling of nitrogen removal efficiency of the wetlands surrounding Lake Mogan.
12. MSc. Burcu Karapinar, 2005. Impact of sewage effluent diversion, biomanipulation and hydrology on mass balance of nutrients in a system of shallow Mediterranean Lakes Eymir & Mogan.
13. MSc. Ayşe Özge Kepenek, 2005. Preliminary approach for determination of fish exuded kairomone using Fourier Transform Infrared Spectroscopy (co-supervisor).
14. MSc. Arda Özen: 2006. Role of hydrology, nutrients and fish predation in determining the ecology of a system of shallow lakes.
15. MSc. Özge Karabulut: 2007 Determination of submerged and emergent plants of shallow lakes wetlands using remote sensing as a tool.
16. MSc. Onur Kerimoğlu. 2008. Influence of large scale atmospheric systems on hydrology and ecology of Turkish lakes.
17. MSc. Korhan Özhan. 2008. Determining role of nitrogen for submerged plant development by a mesocosm experiment
18. MSc. Gizem Bezirci. 2008. Impacts of multistressors on the survival and life history traits of *Daphnia pulex*.
19. MSc. Eti Levi. 2009. Paleolimnological assessment of past aquatic vegetation Dynamics and ecosystem state in Turkish shallow lakes.
20. MSc. Tuba Bucak. 2011. Determining the roles of fish predation and water level fluctuations on ecosystem structure and dynamics of shallow lakes with a mesocosm experiment.
21. MSc. Ece Saraoğlu. 2012. Impact of water level fluctuations and fish on macroinvertebrate community and periphyton growth in shallow lakes- a mesocosm approach.
22. MSc. Nur Filiz. 2012. Impacts of nutrients on periphyton growth and periphyton macroinvertebrates interactions in shallow lakes: a mesocosm experiment
23. MSc. Jennifers Kalvenas, 2014. Determination of Carbon Dioxide flux in shallow lakes of Turkey
24. MSc. Zeynep Ersoy, 2015. Impact of nutrient and water level changes on submerged macrophytes along a latitudinal gradient: Pan European mesocosm experiments
25. MSc. Ali Serhan Çağan, 2015. Comparing ecological structure of Turkish Shallow Lakes between the seasons, and wet & dry periods.
26. MSc. Peren Tuzkaya, 2015. The Influence of Land Use and the Catchment Properties on the Trophic Status of Shallow Lakes in Turkey. (Co-supervisor)

27. MSc. Esra Kuzkaya, 2016. Modelling of ecosystem changes in Lake Eymir.
28. MSc. İbrahim Kağan Özgencil, 2017. Elucidating the patterns in mid-winter waterbird surveys by using climate, lake water level changes and macrophyte records.
29. MSc. Deniz Başoğlu, 2017. Dietary pattern induced greenhouse gas emission and waterfoot print estimations in Turkey.
30. MSc. Duygu Tolunay, 2018. Impact of extreme meteorological events on carbon cycle of Lake Eymir using real-time automatic lake observation station.
31. MSc. Sinem Yetim, 2021. Effects of dissolved organic carbon (DOC) and zooplankton grazing pressure on bacteria and ciliates.
32. MSc. Vildan Acar. Community Assembly rules for phytoplankton community of Turkish Shallow Lakes using functional traits. April 2022
33. MSc. Melisa Metin, Effects of dissolved organic carbon and zooplankton grazing on phytoplankton community, June 2022.
34. MSc. Hilal Kiran, Assessment of macrophyte diversity and ecosystem services of pond ecosystem, Jan 2023.
35. MSc. Feride Avcı, Assessment of zooplankton community structure diversity in pond ecosystem, Jan 2023.

#### **Completed PhD Thesis Supervision**

1. PhD. E. Asuman Korkusuz, 2004, Domestic wastewater treatment in pilot-scale constructed wetland implanted in the Middle East Technical University (co-supervisor).
2. PhD. Duygu Arugaslan. 2009. Differential equations with discontinuities and population dynamics (Co-supervisor)
3. Ph.D. Sara Banu Akkaş. 2009. The effect of ecotoxicants on the aquatic food web and prey-predator relationships. (Co-supervisor)
4. PhD. Arda Özen, 2012. Impact of top-down and bottom up controls on microbial loop in Turkish shallow lakes space for time substitute, monitoring, and mesocosms approach
5. PhD. Ülkü Nihan Yazgan Tavşanoğlu, 2012. Zooplankton adaptation strategies against fish predation in Turkish shallow lakes
6. PhD. Ayşe İdil Çakiroğlu, 2013. Salinity inference in inland Turkish shallow lakes based on paleoecology using sub-fossil cladocerans
7. PhD. Eti Levi, 2016. Impacts of eutrophication and water level change in Turkish Shallow Lakes: a palaeoecological approach utilizing plant remains and marker pigments.
8. PhD. Şeyda Erdoğan, 2016. Impact of eutrophication and climate change on phytoplankton community structure, size diversity, and phytoplankton based ecological status.
9. PhD. Jan. E. Coppens, 2016. The Role of hydrologic loading and nutrient in the ecology of Mediterranean Shallow Lakes.
10. PhD. Tuba Bucak, 2017. Impacts of climate change and land use on the ecosystem structure and services of Lake Beyşehir.
11. PhD. Gizem Bezirci. 2017. Tracking the recent historical changes in Turkish Shallow Lakes based on a palaeoecological approach using diatoms.
12. PhD. Nur Filiz, 2023. Impact of climate induced extreme events on phytoplankton community in shallow lakes.
13. PhD. Gülce Yalçın, 2024. Beyond the Surface: Unraveling the Impacts of Microplastics, Dissolved Organic Carbon and Warming on Bacteria and Ciliates

#### **On-going thesis:**



- PhD. Dilvin Yıldız, Effects of anthropogenic global change on freshwater lake zooplankton community structure and diversity: A mesocosm approach.
- PhD. Deniz Başoğlu, Biodiversity and Ecosystem Services of the Ponds and Pond Networks in Turkey.
- PhD. Hilal Kiran, The relationship between stressors and ecosystem functions through response and effect traits of macroinvertebrates.
- PhD. Feride Avcı, Microbial loop association with methane emission
- PhD. Ali Değirmenci, Su sistemlerinin etkin yönetimi için yeni nesil akıllı ve bütünlük gözlem sistemlerinin geliştirilmesi
- MSc. Gizem Oğuz, Impact of biotic and abiotic factors on GHG emissions from ponds in rural Ankara
- MSc. Gül Canan Yavuz, Interactive affect of heatwaves and salinity on zooplankton communities in mesocosm experiment
- MSc. Cemrey Dede, Effects of global change on lake zooplankton community structure and ecosystem functions
- MSc. Büşra Mülayim, How pond characteristics affect macrophyte biodiversity and coverage
- MSc. Gamze Arik, Effects of salinity on freshwater zooplankton in mesocosm experiment

#### Post Doctoral Researchers:

1. **Post\_Doc. Tolga Coşkun**, Impact of salinization on freshwater phytoplankton communities August 2022-
2. **Post\_Doc. Siddiq Akbar**, Impact of salinization on freshwater Daphnia using microbita as model system, May 2022-February 2024, TÜBİTAK 2236
3. **Post\_Doc. Sarah Hasnain**, Freshwater Zooplankton Communities, January 2022-November 2023
4. **Post\_Doc. Cihelio Alves Amorim**, Ecology of saline lakes, August 2021-
5. **Post\_Doc. Mario Sergio Dainez Filho**, Pond Ecology, July 2021-January 2022
6. **Post\_Doc. Boris Janovic**. Effects TiO2 on the aquatic food web (Mart- Eylül 2014, TÜBİTAK, Almanya ve AB)
7. **Post\_Doc. Thomas Boll**: Native and invasive fish species distribution and environmental factors (Mart- 2013-2014, TÜBİTAK)

#### Citations: Research Gate

- In Internationally Published Journals: 7069
- H-index: 43

#### Citations: WoS

- In Internationally Published Journals: 4036
- H-index 34

#### International Publications: Book Chapters

- Meerhoff, M., & **Beklioğlu, M.** (2024). Chapter 26 - Shallow Lakes and Ponds. In I. D. Jones & J. P. B. T.-W. L. (Fourth E. Smol (Eds.) (pp. 859–892). San Diego: Academic Press. <https://doi.org/https://doi.org/10.1016/B978-0-12-822701-5.00026-4>
- Meerhoff, M., F. Teixeira-de Mello, C. Kruk, C. Alonso, I. González-Bergonzoni, J. P. Pacheco, M. Arim, **Meryem Beklioğlu**, S. Brucet, G. Goyenola, C. Iglesias, G. Lacerot, N. Mazzeo, S. Kosten, & E. Jeppesen. 2013. Environmental warming in shallow lakes: a review of effects on community

structure as evidenced from space-for-time substitution approach. VOL 46, PT 1 Book Series: Advances in Ecological Research Volume: 46 Pages: 259-349

- **Meryem Beklioğlu**, M. Meerhoff , M. Sondergaard & E. Jeppesen , 2011. Eutrophication and Restoration of Shallow Lakes from a cold Temperate to a warm Mediterranean and a (Sub)Tropical climate. in AA Ansari-S Singh-GR Lanza-W Rast (Editors). Eutrophication: Causes, Consequences and Control. Springer.:91-108, DOI: 10.1007/978-90-481-9625-8\_4
- **Meryem Beklioğlu** 2002. Does Biomanipulation Work for Warm-Temperate Lakes? Lake Eymir First Case Study in Turkey. NATO, Advanced Research Workshop: The Issyk-Kul Lake: Evaluation of the Environmental State and its Remediation. Edited by J. Klerkx and B. Imanackunov. NATO Science Series, IV. Earth and Environmental Sciences vol:13, 207-215

### International Publications:

#### Submitted Papers in SCI JOURNALS

- Yildiz, D., Yalçın, G., Calderó-Pascual, M., Metin, M., Yetim, S., Kavak, P., Spoljar, M., Gottstein, S., McCarthy, V., Nesjtgaard, J., Jeppesen, E., Ger, K.A., **Beklioğlu, M.** The quality of allochthonous dissolved organic carbon source affects the fate of freshwater zooplankton: mesocosm approach to pulse disturbance.
- Kemal Ali Ger, Sinem Yetim, Melisa Metin, Dilvin Yildiz, Gülce Yalçın, Maria Calderó-Pascual, Ewaldo Leitão, Claudia Fiorentin, Jens Nejtggaard, Erik Jeppesen, **Meryem Beklioğlu**. Consumer traits and allochthonous matter quality regulate trophic interactions in freshwater plankton.
- Sarah S Hasnain, Kemal Ali Ger, Valerie McCarthy, Zeynep Dilbe Uyar, Cihelio Alves Amorim, Lucia Cabrera-Lamanna, Gülce Yalçın, Dilvin Yıldız, **Meryem Beklioğlu**. Trans-generational plasticity to warming alters nutrient release by a keystone species.
- Samuel J. Macaulay, Erik Jeppesen, Ulf Riebesell, Jens C. Nejstgaard, Stella A. Berger, Aleksandra M. Lewandowska, Andreu Rico, Ben J. Kefford, Csaba F. Vad, David M. Costello, Haijun Wang, Iris Madge Pimentel, Joana Barcelos e Ramos, Jose González, Kristian Spilling, Lisette de Senerpont Domis, Maarten Boersma, Maria Stockenreiter, Mariana Meerhoff, Martina G. Vijver, Mary Kelly-Quinn, **Meryem Beklioğlu**, Miguel G. Matias, Michael Sswat, Noël P.D. Juvigny-Khenafou, Patrick Fink, Peiyu Zhang, Ricardo H. Taniwaki, Robert Ptacnik, Silke Langenheder, Tom A.P. Nederstigt, Zsófia Horváth, Jeremy J. Piggott. Grand ecological challenges in aquatic ecosystems: Utilising mesocosms to move from understanding threats towards advancing solutions.

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#### Oral –Poster Presentations & Proceedings in International Conferences

1. **Meryem Bekliođlu**, Cihelio Amorim, Gültekin Yılmaz, Canan Yavuz, Tolga Coşkun, Mustafa Korkmaz, İrem Gamze Arık, Meltem Kuru, Can Özen, Sarah Hasnain, Korhan Özkan, Erik Jeppesen. Impacts of Salinity and Heatwaves on Shallow Lakes using Synchronised Factorial Design Mesocosms Experiments. 3rd International Symposium Aquatic Mesocosm based Research 07-10 November, 2023, Antalya, Türkiye (Oral presentation)
2. Dilvin Yıldız, Gülce Yalçın, Sinem Yetim, Sarah Hasnain, Erik Jeppesen, Kemal Ali Ger, **Meryem Bekliođlu**, Beyond Individual Effects: Investigating the Combined Consequences of Warming and DOC Influx on Zooplankton. 3<sup>rd</sup> International Symposium Aquatic Mesocosm based Research 07-10 November, 2023, Antalya, Türkiye (Oral presentation)
3. Ali Ger, Melisa Metin, Sinem Yetim, Dilvin Yıldız, Gülce Yalçın, Maria Caldero-Pascual, Erik Jeppesen, **Meryem Bekliođlu**. Consumer traits and allochthonous matter quart regulate consumption pathways in freshwater plankton ecosystems. 3rd International Symposium Aquatic Mesocosm based Research 07-10 November, 2023, Antalya, Türkiye (Oral presentation)
4. Gülce Yalçın, Dilvin Yıldız, Sinem Yetim, Sevasti Koursiotti, Erik Jeppesen, **Meryem Bekliođlu**. Climate Change and Stability: Warming And Dissolved Organic Carbon (DOC) Disturbance On Bacteria And Ciliates. 3rd International Symposium Aquatic Mesocosm based Research 07-10 November, 2023, Antalya, Türkiye (Oral presentation)
5. Pacheco, J. P., Aznarez, C., Cao, Y., Liu, Y., Levi, E. E., Korkmaz, M., Amorim, C. A., Özkan, K., **Meryem Bekliođlu**, Baattrup-Pedersen, A., & Jeppesen, E.. Periphyton in a changing world: unravelling the effects of global change stressors on freshwater periphyton in shallow lake mesocosms. 3<sup>rd</sup> International Symposium Aquatic Mesocosm based Research 07-10 November, 2023, Antalya, Türkiye (Oral presentation)
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7. Cihelio Alves Amorim, Gültekin Yılmaz, Vildan Acar, Mustafa Korkmaz, Meltem Kuru, Canan Yavuz, Gamze Arık, Sarah Hasnain, Tolga Coşkun, Chaoshuo Zhang, Can Özen, Zuhale Akyürek, Korhan Özkan, **Meryem Bekliođlu**, Erik Jeppesen. Nonlinear responses of shallow lakes turbidity states, metabolism and nutrient availability to salinization and climate: two synchronized mesocosm experiments in Türkiye. 3rd International Symposium on Aquatic Mesocosm-Based Research, Antalya, Türkiye (Oral presentation)
8. Coşkun, T., Amorim, A. C., Korkmaz, M., Yavuz, C., Acar, V., Arık, G., Yılmaz, T., Kuru, M., Özen, C., Özkan, K., **Meryem Bekliođlu** and Jeppesen, E. 2023. Effects of Rising Salinity on Phytoplankton Community Structure and Diversity: A Gradient Mesocosm Experiment. 3. International Symposium on Aquatic Mesocosm-Based Research: Collaborative Science for Tackling Global Grand Challenges, 07 to 10 November 2023 in Antalya, Türkiye (Poster presentation)
9. Özkan Korhan, Cihelio Alves Amorim, Gültekin Yılmaz, Mustafa Korkmaz, Juan Pablo Pacheco, Gül Canan Yavuz, Vildan Acar, Yasemin Can, Meltem Kuru, Can Özen, Zuhale Akyürek, **Meryem Bekliođlu**, Erik Jeppesen, Impact of Water Loss and Salinization on Shallow Lakes of Arid Landscapes: A Field Survey and a Mesocosm Experiment in Two Different Climate Zones in Türkiye. ASLO 2023, Palma de Mallorca (oral presentation, abstract no. 6686)
10. Sarah Hasnain, Cihelio Alves Amorim, **Meryem Bekliođlu**, Meryem Kuru, Gültekin Yılmaz, Korhan Özkan, Erik Jeppesen. Multi-stressor effects of salinity and heatwaves on zooplankton grazing in a synchronized mesocosm experiment. ASLO 2023, Palma de Mallorca (oral presentation, abstract no. 6332)
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- stability with a multidimensional approach. ASLO 2023, Palma de Mallorca (oral presentation, abstract no. 4665)
12. **Meryem Beklioğlu**, Cihelio Alves Amorim, Gültekin Yılmaz, Vildan Acar, Gül Canan Yavuz, Tolga Coşkun, Mustafa Korkmaz, İrem Gamze Arık, Meltem Kuru, Arda Çolak, Can Özen, Sarah Hasnain, Zuhail Akyürek, Korhan Özkan, Erik Jeppesen. Assessing the Impacts of Salinization of Freshwater Lakes using Field Survey & Synchronised Gradient Design Mesocosm Experiment. SEFS 2023, New Castle, UK (oral presentation, abstract no.153)
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  14. Dietmar Straile, Rita Adrian , Orlane Anneville , Shelley E Arnott, Beatrix E Beisner , **Meryem Beklioğlu** , Lisette de Senerpont Domis , Jonathan P Doubek , Gideon Gal , Nicole M Hayes10, Wolfgang Horn, Carlos Iglesias, Erik Jeppesen, János Korponai, Peter R Leavitt, Eleanor B Mackay, Marina Meerhoff, Susana Romo, Lars G Rudstam, James A Rusak, Jouko Sarvala, Daniel E Schindler, Jason Stockwell, Stephen J Thackeray. Zooplankton dynamics in lakes of different trophic state, depth and climatic region - a test of the PEG model. SIL2022, Berlin (oral presentation, abstract book p. 218)
  15. Gültekin Yılmaz , Pelin Ertürk Arı , Lucia Cabrera-Lamanna , Cihelio Amorim, Mustafa Korkmaz, Thomas Alexander Davidson , Joachim Audet , Nusret Karakaya , **Meryem Beklioğlu**, Erik Jeppesen, Korhan Özkan , Juan Pablo Pacheco. Ecological drivers of ghg emissions in the Central Anatolian saline lakes based on a field study and mesocosm experiments. SIL2022, Berlin (oral presentation, abstract book p. 29)
  16. Juan Pablo Pacheco , Mustafa Korkmaz , Lucia Cabrera-Lamanna , Cihelio A. Amorim, Gültekin Yılmaz, Vildan Acar, Serhat Ertuğrul, Arely Ramírez-García, Yasemin Can , Meltem Kuru, Canan Yavuz, Pelinsu Kostak, Kayra Canpolat, Cemreay Dede , Nur Filiz, Can Ozen, Zuhail Akyürek, Korhan Özkan, **Meryem Beklioğlu**, Erik Jeppesen. Freshwater salinisation induces biodiversity loss and cyanobacteria dominance in periphyton: a salinity gradient experiment in shallow lake mesocosms. SIL2022, Berlin (oral presentation, abstract book p. 195)
  17. Jens Christian Nejtgaard , Stella Berger , Maria Stockenreiter , Lisette de Senerpont Domis , **Meryem Beklioğlu**, Paraskevi Pitta , Robert Ptacnik. AQUACOSM-plus: an open international network for aquatic mesocosm facilities supporting experimental ecosystem studies across the marine/freshwater divide. SIL2022, Berlin (oral presentation, abstract book p. 136)
  18. Vildan Acar , Sarah Hasnain , Şeyda Erdoğan , Kaan Özcengil, Erik Jeppesen, **Meryem Beklioğlu**. Using functional diversity components to describe phytoplankton community assemblage processes in Turkish shallow lakes. SIL2022, Berlin (oral presentation, abstract book p. 115)
  19. Gülce Yalçın, Dilvin Yıldız, Sinem Yetim, Sevasti Kuorsioti, Sarah Hasnain, Erik Jeppesen, **Meryem Beklioğlu**. Double Trouble: Warmin and dissolved organic carbon (DOC) disturbance on microbial loop. SIL2022, Berlin (oral presentation, abstract book p. 167)
  20. Jason Stockwell , Lia Ivanick , Ariana Chiappella, Cecilia Vichi , ...**Meryem Beklioğlu**, .. María Soledad Fontanarrosa. Can space-for-time-substitution surveys represent zooplankton biodiversity patterns and their relationship to environmental drivers? SIL 2022, Berlin (oral presentation, abstract book p. 228)
  21. Cihelio Amorim, Gültekin Yılmaz, Vildan Acar, Mustafa Korkmaz, Juan Pablo Pacheco, Lucía Cabrera-Lamanna, Canan Yavuz, Arely Ramírez García, Marco Vinicio Zamudio, Mehmet Arda Çolak, Can Özen, Zuhail Akyürek, Korhan Özkan, **Meryem Beklioğlu**, Erik Jeppesen. Impacts of salinization on shallow lakes: synchronized long-term gradient mesocosm experiments in two different climates, Turkey. SIL 2022, Berlin (oral presentation, abstract book p.301)

22. Hilal Kiran, Sarah S Hasnain, Feride Avcı , Nur Filiz, **Meryem Bekliođlu**. Zooplankton Size in Urban Ponds is Influenced by Bottom Up and Top Down Process Ecology and Evolutionary Symposium, 2022. (oral presentation)
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32. **Meryem Beklioğlu**. 2008. Ülkemiz sığ göllerinde kuraklık etkisi ve ekolojik tepkiler., TMMOB, İklim Değişimi Sempozyumuz, 13-14 Mart 2008, Ankara 257-267
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34. **Meryem Beklioğlu**. Hidrolojinin ve Ötrofikasyonun Sığ göllerin ekolojik yapıların belirlemedeki önemi:Beyşehir, Marmara, Işıkli ve Eymir Gölleri. I. Ulusal Limnoloji Çalıştayı. 16-19 Mayıs, 2004, Sapanca (in Turkish)
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36. Tan, C. O & **Meryem Beklioğlu**. Eymir Gölünün biyomanipulasyon ve su seviyesi düşüşüyle restorasyonu. XVI. Ulusal Biyoloji Kongresiö 4-7 Eylül, 2002. Malatya (in Turkish)
37. Çağrı Bülent Muluk & **Meryem Beklioğlu**. Eymir Gölünde *D. Pulex* in günlük dikeysel göç yapmasında su berraklığı besin ve çözünmüş oksijenin değişen rolleri. XVI. Ulusal Biyoloji Kongresi 4-7 Eylül, 2002. Malatya (in Turkish).
38. P. Zorlu, **Meryem Beklioğlu** & A. Ozan. Balık sinyallerinin yapısının, *D. Pulex* in laboratuvar koşullarında günlük dikeysel göç davranışının incelenmesi yoluyla belirlenmesi. XVI. Ulusal Biyoloji Kongresi 4-7 Eylül, 2002. Malatya (in Turkish).
39. H. E. Özcan, **Meryem Beklioğlu** & İ. Togan. 4-Nonil fenol ve balık avlanma baskısının *Daphnia magna* nın morfolojik, fizyolojik, ve populasyon dinamiğine etkisinin belirlenmesi. XVI. Ulusal Biyoloji Kongresi 4-7 Eylül, 2002. Malatya (in Turkish).
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41. Akkaş, P. Zorlu, **Meryem Beklioğlu** & F. Severcan. Balık sinyallerinin Fourier Transform Infrared Spektroskopi tekniği ile araştırılması. XVI. Ulusal Biyoloji Kongresi 4-7 Eylül, 2002. Malatya (in Turkish).
42. **Meryem Beklioğlu** & Tan, C. O. Ötrofik göllerin restorasyonunda biyomanipulasyon: Türkiye 'de ilk uygulama Eymir Gölü , IV.Ulusal Çevre Mühendisler Kongresi'ne 7-10 November 2001, Mersin, Turkey (in Turkish).

43. **Meryem Beklioğlu.** Göller: Besin tuzu zenginleşmesi ve bir restorasyon yöntemi biyomanipulasyon. SAD; Sualtı Günleri 2001: Sualtı Ekolojisi, 28th–29th April, 2001, İzmir (in Turkish).
44. **Ince, Ö., Meryem Beklioğlu & Tüzün, İ.** First Biomanipulation Case in Turkey: Lake Eymir XV. National Biology Congress, 5-9 September, 2000, Ankara.
45. Tüzün, İ. Kılıç, Meryem Beklioğlu, M. 2000. XV. Role of availability of nutrients and fish predation in determining the water quality in Çubuk II Dam Lake. XV. National Biology Congress, 5-9 September, 2000, Ankara.

#### Seminars given as invited speaker: Outreach Activities

- **Meryem Beklioğlu, 2020.** Climate change and lakes, İTÜ, Seminaar Series.
- **Meryem Beklioğlu, 2016.** Climate change and lakes, ESS Drought Awareness Day, METU
- **Meryem Beklioğlu, 2015.** Climate change and lakes World Wetlands Day, METU
- **Meryem Beklioğlu, 2014.** Climate change and lakes Geology Day, METU
- **Meryem Beklioğlu, 2013.** Climate change and lakes Geology Day, METU
- **Meryem Beklioğlu, 2012.** Climate change and lakes, World Water Day, METU
- **Meryem Beklioğlu, 2010.** Climate change and lakes, TRT, Akşama Doğru Radio Programı
- **Meryem Beklioğlu, 2010.** Ecosystems and climate change, TRT, Akşama Doğru Radio Programı
- **Meryem Beklioğlu, 2010.** Climate change and lakes, TRT, Mavi Bilye Programı
- **Meryem Beklioğlu, 2010.** Earth System Science at METU, TRT, Mavi Bilye Programı
- **Meryem Beklioğlu, 2007.** Uzun Dönemli İklim değişimi. Gazi Üniversitesi İletişim Fakültesi, Semineri, Mart (in Turkish).
- **Meryem Beklioğlu, 2007.** Eymir Gölü ve sorunları, METU, Alumni, April (in Turkish) .
- **Meryem Beklioğlu, 2007.** Eymir Gölü ve sorunları, METU, Society of Environment, April (in Turkish).
- **Meryem Beklioğlu, 2005.** Life in aquatic ecosystems. METU, Environmental Engineering Department 8<sup>th</sup> December
- **Meryem Beklioğlu, 2004.** Life in shallow lakes: hysteresis, METU, Institute of Applied Mathematics, 14<sup>th</sup> January.
- **Meryem Beklioğlu, 2002.** Ülkemiz göllerinin ekolojik yapısında hidroloji, besin tuzlarının rolü ve ötrofikasyon ve restorasyon (in Turkish). Balıkesir Üniversitesi, Çevre Mühendisliği ve Biyoloji Bölümleri davetli.
- **Meryem Beklioğlu.** İnsan Faliyetleri kaynaklı küresel ısınma ve biyoçeşitliliğin azalması. Genel Kurmay Komutanlığı, 4. Kolordu Komutanlığı, 28, March, 2001. (in Turkish)
- **Meryem Beklioğlu.** Lakes, nutrient enrichment and restoration: Lake Eymir. METU, the Department of Petroleum Engineering, 6<sup>th</sup>, April, 2001
- **Meryem Beklioğlu** First application of biomanipulation in Turkey for restoration of eutrophic Lake Eymir. Bilkent University, Department of Molecular Biology & Genetics. December, 13, 2000.
- **Meryem Beklioğlu.** A Wise Wetland Resources Management Plan: A case study, Lake Uluabat. The world 3<sup>rd</sup> Wetlands Day, Bursa, Turkey, 02.2.1999 (in Turkish)
- **Meryem Beklioğlu.** Chemical communication of planktonic animal in aquatic systems: A laboratory study on the plant-associated grazer, *Eurycercus lamellatus*. METU, Institute of Marine Sciences, Erdemli, Mersin. Şubat, 1999.
- **Meryem Beklioğlu.** Ecology of Lake Eymir ve Mogan. Environmental Ministry, Ankara, April, 1999.
- **Meryem Beklioğlu.** Ecology of Lake Eymir and Lake Mogan: eutrophication and restoration Gölbaşı Municipality, the Agenda 21 Group, July, 1999.

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