

MERYEM BEKLİOĞLU

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WORK EXPERIENCE

- Vice President of Society of Limnology (SIL) **(2024-cont.)**
- Head of Ecosystem Research Center, METU **(2018-cont.)**
- Professor in Hydrobiology, Biology Department, METU **(2007- cont.)**
- Associate Professor, Biology Department, METU **(2000-2006)**
- Assistant Professor, Biology Department, METU **(1996-2000)**
- Research Assistant, Biology Department, METU **(1989-1995)**
- Worked for the preparation of "Wetlands of Turkey" book, Environmental Problems Foundation of Turkey. **(1988-1989)**

AWARDS

- METU, Yearly Scientific Achievement Award for 14 years **(2004, 2006, 2008, 2010, 2012, 2014, and each year from 2016 to 2023)**
- METU, Natural and Applied Sciences Institute, the PhD thesis of the year Award, given to PhD graduate, 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 supervisor **(2014)**
- Respecting Wetlands Reward, by 2nd National Wetlands Congress **(2011)**
- Member of the research group who received the prestigious Naumann-Thienemann medal 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. **(2009)**
- "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. **(2000)**
- "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. **(1999)**

EDUCATION

- **University of Liverpool UK** **1991-1995**

PhD in Environmental and Evolutionary Biology, Freshwater Ecology: Whole Lake and Mesocosm Studies on the Role of Nutrients and Zooplankton Grazing in a system of Shallow and Deep lakes (Supervision : Professor Brian Moss)

- **Middle East Technical University, Türkiye** **1988-1991**

MSc. in Biology, population genetics: Determination of morphometric variation within and among six species of Tsetse fly, *Glossina* by multivariate statistical analyses.

- **Middle East Technical University, Türkiye** **1984-1988**

BSc. in Biology, Faculty of Arts and Science

TEACHING COURSES

Lecturer, Middle East Technical University (1996-cont.)

Undergraduate Courses:

- Wetlands
- Ecology
- Ecology and Evolution
- Applied Ecology
- General Biology
- Special projects
- Freshwater Ecology

Postgraduate Courses :

- Eutrophication and Restoration of Lake Ecosystems
- Ecology of Shallow Lakes
- Advanced Ecology
- Paleoecology
- Laboratory Techniques in Freshwater Ecology

FELLOWSHIPS

- **Brazilian Society of Limnology Grant**

Invited for teaching “Ecology of Shallow Lakes” course for a week, Natal (Nov 11-Nov 25, 2013)

- **The British Council, the Visits and Exchanges Program Grant**

Environmental Research Centre, University College London, UK (Oct.25-Nov. 25, 1999)

- **The Ministry of Environmental and Energy, Post-doctoral Research Grant**

National Environmental Research Institute in the Department of Lake and Estuarine Ecology, Silkeborg, Denmark (June -Oct., 1997)

- **TÜBİTAK/Royal Society and the British Council, Ankara Post-doctoral Research Grant**

The University of Liverpool, the UK. (June- Oct., 1996)

- **Higher Education Council of Turkey PhD Scholarship**

The University of Liverpool, UK (Oct. 1991-Oct .1995)

CONFERENCE/SYMPOSIUM ORGANIZATIONS

ORGANIZED MEETINGS

- 15th International Conference on Salt Lake Research ICSLR, 2024, Antalya , Turkey.
- 3rd International Symposium Aquatic Mesocosm based Research (2023, Türkiye)
- International workshop on “impact of climate change on aquatic ecosystem and society” Ankara, METU, CCC.
- International workshop on “Shallow lakes: From north to the southern latitudes at the face of changing climate and biodiversity, METU, Biology Department, Ankara. (June, 2006)
- International course on “Training the trainers for wetland management” by KAD, MoE&F, ODTÜ, EVD, the Netherlands, ODTU, KKM. (June, 2006)
- International miniworkshop on “Shallow Mediterranean Lakes: Variation in the Theme – Workshop Conclusions” : Dalfsen, the Netherlands. (June, 2005)
- International mini-workshop on “Water level fluctuation on structure and Function of Shallow lakes”: Balatonfüred, Hungary. (May, 2003)
- International Workshop on Shallow Lake Wetlands: Ecology, Eutrophication, and Restoration: CCC, METU, Ankara, Turkey. (November, 2001)

SCIENTIFIC COMMITTEE MEMBERSHIP

- 15th International Conference on Salt Lake Research ICSLR (2024, Türkiye)
- 3rd International Symposium Aquatic Mesocosm based Research (2023, Türkiye)
- Ecology and Evolutionary Symposium (2022, Türkiye)
- 35th, Congress of the International Society of Limnology (SIL) (2020, South Korea)
- 10th International Lakes Conference, Scientific committee member (2021, Brazil)
- 2nd International Symposium Aquatic Mesocosm based Research (2021, Online)
- 9th International Symposium for European Freshwater Sciences (SEFS) (2015, Switzerland)
- 8th International Shallow Lakes Conference: Shallow lakes in a fast changing world (2014, Türkiye)
- National Wetlands Meeting, (2013, Türkiye)
- National Limnology Conference, (2013, Türkiye)

- 6th International Shallow Lakes Conference: Structure and Function of Shallow lakes (2008, Uruguay)
- TMMOB, Symposium on Climate Change: Global Climate Change (2008, Türkiye)
- 3rd National Limnology Symposium, (2008, Türkiye)
- 8th National Environment and Ecology Conference (2008, Northern Cyprus Republic)
- 7th National Environment and Ecology Conference, (2007, Türkiye)
- Global Climate Change and Environmental Impacts, Konya Metropolitan Municipality (2007, Türkiye)

PROJECTS

INTERNATIONAL

1. Transnational Biodiversity and Ecosystem Assessment Approaches for Pondscales in Europe- TRANSPONDER: Biodiversa 2002-64, Budget: 210,854EUR (2024-2027)
2. Joint Research Project Abrupt Eco-Environmental Changes in Coastal Lagoons since the Anthropocene and their Ecological Restoration- GISU: Guangzhou University-Budget: 210,854EUR, (2024)
3. Network of Leading Ecosystem Scale Experimental AQUATIC MesoCOSM Facilities Connecting Rivers, Lakes, Estuaries and Oceans In Europe and beyond - AQUACOSM PLUS : EU H2020- INFRAIA-01, Budget: 9,999,563EUR (2021-2025)
4. Pond Ecosystems For Resilient Future Landscapes In a Changing Climate- PONDERFUL: H2020-EU.3.5.1. ve H2020-EU.3.5.2., Budget: 998,958EUR, (2021-2023)
5. Network of Leading European AQUATIC MesoCOSM Facilities Connecting Mountains to Oceans from the Arctic to the Mediterranean- AQUACOSM: EU H2020-INFRAIA-731065, Budget: 9,999,807EUR, (2017-2020)
6. Managing Aquatic Ecosystems and water resources under multiple Stresses- MARS: EU-FP7-ENV 2013.6.21- 603378, Budget : 8,000,000EUR, (2014-2018)
7. Networking Lake Observations In Europe- Substitute Member NETLAKE Cost Action: EU H2020- ES 1201-Budget: XXXX, (2012-2016)
8. Titanium dioxide – the silent killer: finding the relevant biological target for exposure characterization and risk assessment of nanoparticles toxicity in fish model- FishTiO2: EU FP7-People-Marie Curie Career Integration Grant (CIG)- 618006.Budget: 100,000EUR, (2013-2017)
9. Adaptive Strategies to Mitigate the Impacts of Climate Change on European Freshwater Ecosystems, REFRESH: EU- FP7-ENV-2009-1: Collaborative Dynamic,İP3. 220.000EUR, (2009-2013)
10. Hellenic-Turkish Cooperation on the Strengthening of Protection and Management of Watercourses -and Especially of Wetlands : EC- DIRECTIVE 2000/6 - 34,000 EUR, (2004-2006)
11. Training the trainers for wetland management, International education organization Incooperation with METU: EVD, KAD, MoE&F, 75,000EUR (2006)

NATIONAL

1. TUBİTAK 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. TUBİTAK 2232 – Proje no: 118C250 Tuzlu ve Hafif Tuzlu Sularda İklim Değişikliğinin Trofik Yapı ve Dinamikleri Üzerine Etkisinin Zaman Yerine Mekan Arazi Örneklemesi, Kontrollü Mezokozm Deneyleri, Paleoekoloji, Uzaktan Algılama ve Modelleme Yoluyla İncelenmesi. Erik Jeppesen (PI), Meryem Beklioğlu (host) , Zuhal 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), Gülce Yalçın, Dilvin Yıldız (2020-2023) (746.712,00 TL)
4. TUBİTAK- ÇAYDAG- Proje no: 114Y415. Investigating the response of lake metabolisms and phytoplankton biomass to extreme events through automated high frequency measurements. Meryem Beklioğlu (PI) (2015-2018) (398.264 TL)
5. DPT_BAP_ÖYP-Proje no: XXX. Factor that control phytoplankton community structure in Turkish shallow lakes using multiple approaches. Meryem Beklioğlu (PI), Şeyda Erdoğan (MSc.). (2012- 2016) (XXXTL)
6. TUBİTAK Post_Doc funding. Native and invasive fish species distribution and environmental factors Thomas Boll (2013-2014) (25.000 TL)
7. TUBİTAK 1002- Proje no: 112Y387. Eymir Gölü için gerçek zamanlı göl izleme ve erken uyarı sistemi prototipi geliştirilmesi. Meryem Beklioğlu. (2013)
8. TUBİTAK 2221-Project No: B.14.2.TBT.0.06.01.03.220.01. Meryem Beklioğlu (PI); B. Jovanović (Co-PI) (2013) (18.000TL)
9. TUBİTAK-ÇAYDAG-Proje no: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 (PI) (2010-2013) (394.000TL)
10. TUBİTAK 2221- Project No: B.14.2.TBT.0.04.01.04.220.01. Meryem Beklioğlu (PI); Dr. Sandra Brucets (Co-PI) (2013) (9.000TL)
11. DPT_BAP_ÖYP- Proje no: XXX, Role of hydrology, fish and nutrients in determining the ecology of shallow lakes. Meryem Beklioglu (PI), Arda Özen (MSc.). (2004- 2012) (XXXTL)
12. BAP-08-11-DPT- Proje no: 2010K121500-2. TEAB. Meryem Beklioğlu, Zuhal Akyürek, Helga Tılıç, Bahar Gedikli. Ecology of Lake Beyşehir. (2010) (135.000 TL)
13. TUBİTAK 1002- Proje no: 109Y181. Sığ Göllerin Ekolojik Yapısının Belirlenmesinde Mikrobik Çevrimin Rolü. Meryem Beklioglu (2010-2011) (XXXTL)
14. TÜBİTAK, ÇAYDAG-Proje no: 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 (PI), Meryem Beklioğlu (Araştırmacı). (2006-2009) (XXXTL)

15. TÜBİTAK, ÇAYDAG- Proje no: 104Y308. Göllerde Tuzluluk ve İnsektisit Miktarının Biyobelirteç olan Daphnia Üzerindeki Etkilerini Belirleyerek Ekosistem Durumunu Öngören Model ve İndekslerin Tasarımı. Meryem Beklioglu (PI), F. Severcan and B. S. Akkaş. (2005-2007) (XXXTL)
16. TÜBİTAK, ÇAYDAG- Proje no: 105Y085 Determining the impact of Global climate change on lake ecosystems in Turkey. Temel Oguz (PI), Meryem Beklioglu (araştırmacı) (2006- 2007) (XXXTL)
17. TÜBİTAK, ÇAYDAG- Proje no: 104Y371. Determining the water clarity and aquatic plant coverage in shallow lakes using remote sensing. Zuhale Akyürek (PI), Meryem Beklioglu (2005-2007) (XXXTL)
18. TÜBİTAK, ÇAYDAG- Proje no: 105Y085 Meryem Beklioglu (PI), A. Ozan, F. Severcan. Design of a fast dependable fish stock determination method based on kairomones released from fish. (2005-2007) (XXXTL)

CONSULTANCY

- **United Nations** Climate Change Programme Turkish 2nd 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” organizer 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 “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**.

SUPERVISIONS

Post-Doc

1. Post_Doc. Thomas Boll, 2013-2014: *Native and invasive fish species distribution and environmental factors* (TUBİTAK)
2. Post_Doc. Boris Janovic, 2014: *Effects TiO2 on the aquatic food web* (TUBİTAK, Germany and EU)
3. Post_Doc. Mario Sergio Dainez Filho, 2021-2022: *Pond Ecology* (PONDERFUL, EU)
4. Post_Doc. Cihelio Alves Amorim, 2021-2024: *Ecology of saline lakes* (TÜBİTAK, Aquacosm Plus)
5. Post_Doc. Sarah Hasnain, 2022-2023: *Freshwater Zooplankton Communities* (Aquacosm Plus)

6. Post_Doc. Tolga Coşkun, 2022-2024: *Impact of salinization on freshwater phytoplankton communities* (Aquacosm Plus)
7. Post_Doc. Mustafa Korkmaz, 2022-....: *Effects of Salinization on freshwater communities* (TÜBİTAK, METU, EKOSAM)

PhD

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 ecotoxins 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*
14. PhD. Dilvin Yıldız, 2024. *Shallow lakes under pressure: The role of zooplankton in mediating lake responses to global change, a mesocosm approach*
15. PhD. Deniz Başoğlu Acet: *Biodiversity and Ecosystem Services of the Ponds and Pond Networks in Turkey. (On-going)*
16. PhD. Hilal Kıran: *The relationship between stressors and ecosystem functions through response and effect traits of macroinvertebrates. (On-going)*

17. PhD. Feride Avci: *Understanding the Effect of Environmental Similarity, Environmental Filtering, and Dispersal on Functional Trait Diversity of Zooplankton Communities in a Pond Metacommunity. (On-going)*

MSc

1. MSc. LS Burnak, 1998. *Pelagic Trophic Interactions: Clear versus Turbid in Lake Mogan and Lake Eymir.*
2. MSc. M. Killı, 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. *Determinating 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, 2022. *Community Assembly rules for phytoplankton community of Turkish Shallow Lakes using functional traits.*
33. Msc. Melisa Metin, 2022. *Effects of dissolved organic carbon and zooplankton grazing on phytoplankton community.*
34. Msc. Hilal Kıran, 2023. *Assessment of macrophyte diversity and ecosystem services of pond ecosystem.*
35. Msc. Feride Avcı, 2023. *Assessment of zooplankton community structure diversity in pond ecosystem.*
36. Msc. Gizem Oğuz, 2024. *Impact of biotic and abiotic factors on GHG emissions from ponds in rural Ankara.*
18. MSc. Gül Canan Yavuz: *Interactive affect of heatwaves and salinity on zooplankton communities in mesocosm experiment. (On-going)*

19. MSc. Cemreay Dede: *Effects of global change on lake zooplankton community structure and ecosystem functions. (On-going)*
20. MSc. Büşra Mülayim: *How pond characteristics affect macrophyte biodiversity and coverage. (On-going)*
21. MSc. Gamze Arik: *Effects of salinity on freshwater zooplankton in mesocosm experiment. (On-going)*
22. MSc. Zeynep Dilbe Uyar: *Comparison of FlowCam and Classical Microscopy Methods for Phytoplankton Identification Using AI Integration.(On-going)*
23. MSc. Arjete Brahusa: *Zooplankton community structure and abundance changes in salinization and warming experiment. (On-going)*
24. MSc. Hilal Aydın: *The Impact of Salinization on Ciliates and Bacteria Community Structure Using Mesocosm Experiment in Two Different Climatic Zones of Türkiye.(On-going)*
25. MSc. Halime Karatoprak: *Changes in zooplankton community structure in Lake Mogan and Eymir. (On-going)*
26. MSc. Gizem Aydın: *.(On-going)*
27. MSc. Eren Özcan: *Ecological Drivers of Macrophyte Communities in Ankara's Pond Ecosystems.(On-going)*

PUBLICATIONS

	Researchgate	Google scholar
International Journals	8,841	9,708
H-index		49

International Publications (SCI Journals)

Submitted

- ➡ Yetim et al. Consumer traits and allochthonous matter quality regulate trophic interactions in freshwater plankton.
- ➡ Hasnain et al. Trans-generational plasticity to warming alters nutrient release by a keystone species.

Published

2025

110. Billah *et al.* (2025). Response of the submerged macrophyte *Stuckenia pectinata* (L.) Börner " to warming in different climate regions: A synchronized oligohaline mesocosm experiment. *Aquatic Botany*, 198. <https://doi.org/10.1016/j.aquabot.2024.103855>

109. Macaulay, *et al.* (2025), Addressing grand ecological challenges in aquatic ecosystems: how can mesocosms be used to advance solutions?. *Oikos* e11020. <https://doi.org/10.1111/oik.11020>
108. López-de Sancha, *et al.* (2025), Drivers of amphibian species richness in European ponds. *Ecography* e07347. <https://doi.org/10.1111/ecog.07347>
107. Cao, *et al.* (2025). Predicting daily net ecosystem production in shallow lakes from dissolved oxygen saturation levels: a pan-European mesocosm experiment and modelling approach. *Hydrobiologia* **852**, 471–487 <https://doi.org/10.1007/s10750-024-05714-z>
106. Yıldız, *et al.* (2025). Allochthonous matter quality regulates functionality of lake zooplankton. *Hydrobiologia*, <https://doi.org/10.1007/s10750-024-05774-1>

2024

105. Yalçın, *et al.* (2024). Quality Matters for Ciliates and Bacteria: Response to Different Dissolved Organic Carbon (DOC) Sources as a Climate-induced Pulsed Disturbance. *Science of the Total Environment*, 916, 170140. <https://doi.org/https://doi.org/10.1016/j.scitotenv.2024.170140>

2023

104. Vo, *et al.* (2023). Socio-economic or environmental benefits from pondscapes? Deriving stakeholder preferences using analytic hierarchy process and compositional data analysis. *Journal of Environmental Management*, 342, 118298. <https://doi.org/https://doi.org/10.1016/j.jenvman.2023.118298>
103. Jeppesen, E. *et al.* (2023). The Effects of Global Climate Change on Water Level and Salinity: Causes and Effects. *Water*, 15, 2853. <https://doi.org/10.3390/w15152853>
102. Özkan, *et al.* (2023). Mesocosm Design and Implementation of Two Synchronized Case Study Experiments to Determine the Impacts of Salinization and Climate Change on the Structure and Functioning of Shallow Lakes. *Water* 2023, 15, 2611. <https://doi.org/10.3390/w15142611>
101. Boll, *et al.* (2023). Fish Size Structure as an Indicator of Fish Diversity: A Study of 40 Lakes in Türkiye. *Water*, 15, 2147. <https://doi.org/10.3390/w15122147>
100. Korkmaz, *et al.* (2023). Effects of Climate Change on the Habitat Suitability and Distribution of Endemic Freshwater Fish Species in Semi-Arid Central Anatolian Ecoregion in Türkiye. *Water*, 15, 1619. <https://doi.org/10.3390/w15081619>
99. Gerhard, *et al.* (2023), Environmental variability in aquatic ecosystems: Avenues for future multifactorial experiments. *Limnol. Oceanogr. Lett.*, 8: 247–266. <https://doi.org/10.1002/lol2.10286>
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- Chapter: Meryem Beklioğlu & C. O. Tan. 2004. Eymir Gölü Restorasyonunda atıksu yönünün değiştirilmesi ve biyomanipulasyon uygulaması ardından su seviyesi düşüşü pp:65-75. In Sığ Göl Sulakalanlar: Ekoloji, Ötrofikasyon ve Restorasyon, Meryem Beklioğlu (Editör), pp:126. (in Turkish)

ORAL –POSTER PRESENTATIONS

International

2024

1. Cihelio Alves Amorim *et al.* Assessing the Combined Effects of Salinization and Climate on Shallow Lake Ecosystems through Synchronized Mesocosm Experiments. **15th ICSLR**, November, 2024 (Oral presentation)
2. Irem Gamze Arık, *et al.* Effects of Salinization on Zooplankton Community Composition and Diversity in a Gradient Mesocosm Experiment **15th ICSLR**, November, 2024 (Oral presentation)
3. Gültekin Yılmaz , *et al.* Heatwave Effects on the GHG Dynamics of Shallow Saline Lakes: A Synchronized Mesocosm Study in Two Climate Zones. **15th ICSLR**, November, 2024 (Oral presentation)
4. Gülce Yalçın, *et al.* Influence of Salinity and Climate on Organic Matter Decomposition and Stabilization in Synchronized Mesocosm Experiments Using the Teabag Index Method. **15th ICSLR**, November, 2024 (Oral presentation)
5. Cihelio Alves Amorim *et al.* Effects of salinity and climate on phytoplankton community structure and diversity: a synchronized gradient mesocosm experiments. **15th ICSLR**, November, 2024. (Poster presentation)
6. Erik Jeppesen, *et al.* Impact of groundwater abstraction and global warming on water balance, salinity and ecosystems in dry climates with special focus on Türkiye. **15th ICSLR**, November, 2024. (Oral presentation)
7. Mustafa Korkmaz, *et al.* Conservation Planning for Endemic Freshwater Fish in the Konya Closed Basin: Assessing Habitat Loss and Climate Change Impacts. **15th ICSLR**, November, 2024. (Poster presentation)
8. Gül Canan Yavuz, *et al.* The Effects of Salinity and Heatwave on Zooplankton Biomass and Size Structures : Synchronized Mesocosm Experiments, Türkiye. **15th ICSLR**, November, 2024. (Oral presentation)
9. Zeynep Dilbe Uyar, *et al.* Comparing AI Supported Imaging Flow Cytometry with Classical Microscopy to Quantify Phytoplankton Responses to Experimental Salinization. **15th ICSLR**, November, 2024. (Poster presentation)

2023

10. Meryem Beklioğlu, *et al.* 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)
11. Dilvin Yıldız, *et al.* Beyond Individual Effects: Investigating the Combined Consequences of Warming and DOC Influx on Zooplankton. **3rd International Symposium Aquatic Mesocosm based Research** 07-10 November, 2023, Antalya, Türkiye (Oral presentation)
12. Ali Ger, *et al.* 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)
13. Gülce Yalçın *et al.* 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)

14. Juan Pablo Pacheco *et al.* Periphyton in a changing world: unravelling the effects of global change stressors on freshwater periphyton in shallow lake mesocosms. **3rd International Symposium Aquatic Mesocosm based Research** 07-10 November, 2023, Antalya, Türkiye (Oral presentation)
15. Gültekin Yılmaz *et al.* CH₄ emissions in shallow lakes under salinization stress: Findings from a salinity gradient mesocosm experiment. **3rd International Symposium Aquatic Mesocosm based Research** 07-10 November, 2023, Antalya, Türkiye (Oral presentation)
16. Cihelio Alves Amorim, *et al.* Nonlinear responses of shallow lakes turbidity states, metabolism and nutrient availability to salinization and climate: two synchronized mesocosm experiments in Türkiye. **3rd International Symposium Aquatic Mesocosm based Research**, Antalya, Türkiye (Oral presentation)
17. Tolga Coşkun, *et al.* Effects of Rising Salinity on Phytoplankton Community Structure and Diversity: A Gradient Mesocosm Experiment. **3rd International Symposium Aquatic Mesocosm based Research** Collaborative Science for Tackling Global Grand Challenges, 07 to 10 November 2023 in Antalya, Türkiye (Poster presentation)
18. Özkan Korhan *et al.* 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)
19. Sarah Hasnain *et al.* 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)
20. Dilvin Yıldız, *et al.* Investigation of the effects of climate change induced disturbances to zooplankton community stability with a multidimensional approach. **ASLO 2023**, Palma de Mallorca (oral presentation, abstract no. 4665)
21. Meryem Beklioğlu, *et al.* 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)
22. Cihelio Alves Amorim, *et al.* Understanding the effects of salinization and climate change on shallow lakes using space-for-time-substitute sampling and two synchronized mesocosm experiments in two different climates, Türkiye. **Shallow Lakes 2023**, Estonia (oral presentation, abstract no.)

2022

23. Dietmar *et al.* Zooplankton dynamics in lakes of different trophic state, depth and climatic region - a test of the PEG model. **SIL 2022**, Berlin (oral presentation, abstract book p. 218)
24. Gültekin Yılmaz *et al.* Ecological drivers of ghg emissions in the Central Anatolian saline lakes based on a field study and mesocosm experiments. **SIL 2022**, Berlin (oral presentation, abstract book p. 29)

25. Juan Pablo Pacheco *et al.* Freshwater salinisation induces biodiversity loss and cyanobacteria dominance in periphyton: a salinity gradient experiment in shallow lake mesocosms. **SIL 2022**, Berlin (oral presentation, abstract book p. 195)
26. Jens Christian Nejstgaard , *et al.* AQUACOSM-plus: an open international network for aquatic mesocosm facilities supporting experimental ecosystem studies across the marine/freshwater divide. **SIL 2022**, Berlin (oral presentation, abstract book p. 136)
27. Vildan Acar *et al.* Using functional diversity components to describe phytoplankton community assemblage processes in Turkish shallow lakes. **SIL 2022**, Berlin (oral presentation, abstract book p. 115)
28. Gülce Yalçın *et al.* Double Trouble: Warmin and dissolved organic carbon (DOC) disturbance on microbial loop. **SIL 2022**, Berlin (oral presentation, abstract book p. 167)
29. Jason Stockwell *et al.* 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)
30. Cihelio Amorim, *et al.* 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)
31. Hilal Kiran, *et al.* Zooplankton Size in Urban Ponds is Influenced by Bottom Up and Top Down Process **Ecology and Evolutionary Symposium, 2022**. (oral presentation)
32. Feride Avcı, S *et al.* The Relationship Between Zooplankton Community Structure and Methane Emission From Urban Ponds. **Ecology and Evolutionary Symposium, 2022**. (oral presentation)
33. Sarah S Hasnain, *et al.* Maternal thermal environment mediates *Daphnia magna* grazing response to thermal stress. **Ecology and Evolutionary Symposium, 2022**. (oral presentation)
34. İbrahim Kaan Özgencil, *et al.* Factors driving the breeding microhabitat preferences of two endangered ducks in a shallow lake as revealed by a multidisciplinary approach. **Ecology and Evolutionary Symposium, 2022**. (oral presentation)
35. Vildan Acar, *et al.* Using functional diversity components to describe phytoplankton community assembly processes in Turkish shallow lakes. **Ecology and Evolutionary Symposium, 2022**. (oral presentation)

2021

36. Kaan Özgencil, *et al.* Functional responses of wetland birds to human-caused habitat degradation and climate change: a case study from Turkey. **Ecology and Evolutionary Symposium, 2021**. (oral presentation)
37. Sinem Yetim, *et al.* Effects of dissolved organic carbon and zooplankton grazing pressure on bacteria and ciliates. **2nd International Aquatic Mesocosm Research (AQUACOSM) Symposium(online)**. April, 2021 (poster presentation)

38. Melisa Metin, *et al.* Combined bottom-up effects of DOC and top-down effects of zooplankton with contrasting traits on phytoplankton biomass and composition. **2nd International Aquatic Mesocosm Research (AQUACOSM) Symposium (online)**. April, 2021 poster presentation)
39. Dilvin Yıldız, *et al.* Effects of DOC quality on zooplankton community structure: a mesocosm experiment. **2nd International Aquatic Mesocosm Research (AQUACOSM) Symposium (online)** April, 2021 poster presentation)
40. Gülce Yalçın, *et al.* Response of microbial loop to different quality of dissolved organic carbon (DOC) pulse disturbance. **2nd International Aquatic Mesocosm Research (AQUACOSM) Symposium (online)**. April, 2021 (oral presentation)
41. Maria Caldero Pascual, *et al.* Characterisation and impact of different allochthonous organic matter additions in a mesocosm experiment investigating pulse disturbance events in Mediterranean shallow lakes. **2nd International Aquatic Mesocosm Research (AQUACOSM) Symposium (online)**. April, 2021 (oral presentation)
42. Vildan Acar, *et al.* Understanding phytoplankton community assemblage processes of Turkish shallow lakes using different functional diversity components. **10th International Shallow Lakes Conference**, March 1-5 2021, Natal, Brazil (online) (oral presentation, abstract book p. 174)
43. Melisa Metin *et al.* Combined bottom-up effects of DOC and top-down effects of zooplankton with contrasting traits on phytoplankton biomass and composition. **10th International Shallow Lakes Conference**, March 1-5 2021, Natal, Brazil (online) (oral presentation, abstract book p. 170)
44. Sinem Yetim, *et al.* Effects of dissolved organic carbon and zooplankton grazing pressure on bacteria and ciliates. **10th International Shallow Lakes Conference**, March 1-5 2021, Natal, Brazil (online) (oral presentation, abstract book p. 169)
45. Kemal Ali Ger & Meryem Beklioğlu. Linking functional traits with ecosystem function across landscape scale. **10th International Shallow Lakes Conference**, March 1-5 2021, Natal, Brazil (online) (oral presentation, abstract book p. 166)
46. Gülce Yalçın, *et al.* Response of microbial loop to different quality of dissolved organic carbon (DOC) pulse disturbance. **10th International Shallow Lakes Conference**, March 1-5 2021, Natal, Brazil (online) (oral presentation, abstract book p. 102)
47. Nur Filiz, *et al.* Seasonal response of phytoplankton community to warming and nutrient loading: a mesocosm experiment. **10th International Shallow Lakes Conference**, March 1-5 2021, Natal, Brazil (online) (oral presentation, abstract book p. 100)
48. Maria Caldero Pascual, *et al.* Characterisation and impact of different allochthonous organic matter additions in a mesocosm experiment investigating pulse disturbance events in mediterranean shallow lakes. **10th International Shallow Lakes Conference**, March 1-5 2021, Natal, Brazil (online) (oral presentation, abstract book p. 95)
49. Dilvin Yıldız, *et al.* Effects of DOC quality on zooplankton community structure: a mesocosm experiment. **10th International Shallow Lakes Conference**, March 1-5 2021, Natal, Brazil (online) (oral presentation, abstract book p. 94)

2019

50. Dilvin Yıldız, *et al.* Mesocosm experiment on effects of microplastic on freshwater zooplankton community. **Ecology and Evolutionary Symposium (EEBST)** 2019. 10.07.2019, Ankara, Türkiye.
51. Dilvin Yıldız, *et al.* First in-situ mesocosms experiment for investigating impacts of microplastics on littoral food web. **11th SEFS** , 05.07.2019, Zagreb, Croatia
52. Thomas Mehner, *et al.* Model-based analyses of fish data provide empirical evidence for strong effects of species interactions on community composition in lakes. **11th SEFS**, 05.07.2019, Zagreb, Croatia
53. Jens Nejstgaard, *et al.* the AQUACOSM consortium. AQUACOSM & MESOCOSM.EU: Networks of experimental aquatic mesocosm facilities offering opportunities to co-design ecosystem process-based studies. **11th SEFS**, 05.07.2019, Zagreb, Croatia
54. Gülce Yalçın, *et al.* In-situ Mesocosms Experiment for Investigating Impacts of Microplastics on Food Web of Shallow Lakes. **ASLO 2019** Planet Water – Challenges and Successes, 02.03.2019, San Juan, Puerto Rico.

2018

55. Meryem Beklioğlu. Influences of climate and land use on the ecology of Mediterranean shallow lakes: a space-for time substitution approach. **Ecology and Evolutionary Symposium (EEBST)** 2018. 18-20.07.2018, İzmir, Türkiye.

2017

56. Duygu Tolunay, *et al.* Assessment of changes in metabolism of Lake Eymir with environmental variables using automated high frequency data. **10th SEFS**, 2-7.07.2017, Olomouc, Czech Republic
57. N. Filiz, *et al.* Response of phytoplankton and zooplankton communities to extreme temperature and nutrient stressors: A mesocosm experiment. **10th SEFS**, 2-7.07.2017, Olomouc, Czech Republic
58. Barış Can Mandacı, *et al.* The effect of serotonin in hypoxia induced hemoglobin-producing pathway in water fleas (*Daphnia magna*). 4. **Ecology and Evolutionary Symposium (EEBST)** 11-13.07.2017, İstanbul, Türkiye. (Plenary talk)

2016

59. Uğur Işkın, *et al.* Zooplankton community structure under the impacts of heat waves and nutrient enrichment: A mesocosm approach. 3. **Ecology and Evolutionary Symposium (EEBST)**, 31 August-1 sept 2016, Ankara, Türkiye (Oral presentation).
60. Tuba Bucak, *et al.* Modeling future ecosystem services of Lake Beyşehir. 3. **Ecology and Evolutionary Symposium (EEBST)**, 31 August-1 sept 2016, Ankara, Türkiye (Poster presentation)
61. Şeyda Erdoğan, *et al.* Determinants of phytoplankton size structure in warm, shallow lakes. 3. **Ecology and Evolutionary Symposium (EEBST)**, 31 August-1 sept 2016, Ankara, Türkiye (Poster presentation)

62. Uğur Işkın, *et al.* Impact of Heat waves along with Eutrophication on Zooplankton Community Structure. **33th SIL**, 31 July- 5 August 2016, Torino. (Oral presentation).

2015

63. Jan Coppens, *et al.* Impact of climate change on the hydrological and nutrient balance of a shallow Mediterranean lake using catchment and lake modelling approaches. **ASLO Aquatic Science Meeting**, Spain, 2015. Abstract no: 26724

2014

64. Sandra Brucet, *et al.* Species and size diversity relationships in fish assemblages across a continental environmental gradient. **8th Shallow Lakes Conference**, Turkey, 2014. Abstract book, p. 34.
65. Sandra Brucet, *et al.* Species and size diversity relationships in fish assemblages across a continental environmental gradient, **Joint Aquatic Sciences Meeting** 2014, 18-23 May, Portland, USA.
66. Jan Coppens, *et al.* Impacts of wet and drought periods on the long-term seasonal phosphorus and nitrogen budget of two shallow Mediterranean lakes. **8th Shallow Lakes Conference**, Turkey, 2014. Abstract book, p. 78.
67. Tuba Bucak, *et al.* Modelling The Future Trophic State Of Lake Beyşehir Considering Climate And Land Use Changes **8th Shallow Lakes Conference**, Shallow Lakes in a Fast Changing World, 12-17 October 2014, Antalya-Turkey. Abstract book, p. 79.
68. Ü. Nihan Tavşanoğlu, *et al.* Factors that Control Zooplankton Community Structure and Diversity in Turkish Shallow Lakes. **8th Shallow Lakes Conference**, Shallow Lakes in a Fast Changing World, 12-17 October 2014, Antalya-Turkey. Abstract book, p. 147.
69. Ayşe İdil Çakıroğlu, *et al.* Inferring Past Eutrophication and Salinization by Community Change of Sub-fossil Cladocera in Turkish Shallow Lakes. **8th Shallow Lakes Conference**: Shallow Lakes in a Fast Changing World, 12-17 October 2014, Antalya-Turkey. Abstract book, p. 126.
70. Zeynep Ersoy, *et al.* Impact of nutrient and water level changes on the macrophyte along a latitudinal gradient: Pan European mesocosm experiments. **8th Shallow Lakes Conference**: Shallow Lakes in a Fast Changing World, 12-17 October 2014, Antalya-Turkey. Abstract book, p. 136.
71. Eti E. Levi, *et al.* Effect of Water Level Change on Benthic to Pelagic Shifts in Three Turkish Shallow Lakes: Multiproxy Paleolimnological Approach. **8th Shallow Lakes Conference**: Shallow Lakes in a Fast Changing World, 12-17 October 2014, Antalya-Turkey. Abstract book, p. 118.
72. Thomas Boll, *et al.* Fish Community Structure and Diversity of Turkish Shallow Lakes. **8th Shallow Lakes Conference**: Shallow Lakes in a Fast Changing World, 12-17 October 2014, Antalya-Turkey. Abstract book, p. 87.
73. Boris Jovanović, *et al.* Titanium dioxide nanoparticles in aquatic lentic ecosystem - an ecotoxicology approach. **8th Shallow Lakes Conference**: Shallow Lakes in a Fast Changing World, 12-17 October 2014, Antalya-Turkey. Abstract book, p. 130.

74. Arda Özen, *et al.* Impact of Top Down and Bottom Up Controls on Microbial Food Webs of Turkish Shallow Lakes. **8th Shallow Lakes Conference**: Shallow Lakes in a Fast Changing World, 12-17 October 2014, Antalya-Turkey. Abstract book, p. 139.
75. Eti E. Levi, *et al.* Effect of Water Level Change on Benthic-Pelagic Exchange in Three Turkish Shallow Lakes: A Paleolimnological Approach. **QuickLakeH 2014**, 15-16 September 2014, Ankara-Turkey. Abstract book, p.22.
76. Meryem Beklioğlu, *et al.* Influence Climate and Nutrients for Ecology of Shallow Lakes in Turkey. **QuickLakeH 2014**, 15-16 September 2014, Ankara-Turkey. Abstract book, p.16.
77. Tuba Bucak, *et al.* Predicting effects of climate change and land use on Lake Beyşehir and its catchment. **MedCLIVAR 2014** Conference, 23-25 June 2014, Ankara, Turkey.
78. Şeyda Erdoğan, *et al.* Effects of Climate, Eutrophication and Water Level Changes on Phytoplankton Community Structure and Diversity: Pan-European Mesocosm Experiments. **8th Shallow Lakes Conference**: Shallow Lakes in a Fast Changing World, 12-17 October 2014, Antalya-Turkey. Abstract book, p. 186.
79. Aldhousy Mahdy, *et al.* Effects of Water Temperature on Summer Periphyton Biomass in Shallow Lakes: A Pan-European Mesocosm Experiment. **8th Shallow Lakes Conference**: Shallow Lakes in a Fast Changing World, 12-17 October 2014, Antalya-Turkey. Abstract book, p. 268.
80. Esra Kuzyaka, *et al.* Modelling Eutrophic Lake Eymir using PCLake. **8th Shallow Lakes Conference**: Shallow Lakes in a Fast Changing World, 12-17 October 2014, Antalya-Turkey. Abstract book, p. 212.
81. Ali Serhan Çağan, *et al.* Comparing ecological structure of Turkish shallow lakes between the seasons, and wet & dry years. **8th Shallow Lakes Conference**: Shallow Lakes in a Fast Changing World, 12-17 October 2014, Antalya-Turkey. Abstract book, p. 206.
82. Gizem Bezirci, *et al.* Using Diatom Sub-fossils for Assessing Trophic State and Salinity of Turkish Shallow Lakes. **8th Shallow Lakes Conference**: Shallow Lakes in a Fast Changing World, 12-17 October 2014, Antalya-Turkey. Abstract book, p. 200.
83. Şeyda Erdoğan, *et al.* Role of temperature for phytoplankton community structure and diversity in Turkish shallow lakes. **17th International Association of Phytoplankton Taxonomy & Ecology (IAP)**, 14-21 September 2014, Kastoria/ Greece.
84. Tuba Bucak, *et al.* Modelling The Future Trophic State Of Lake Beyşehir Considering Climate And Land Use Changes. **Ecology and Evolutionary Biology Symposium**, 12-13 July 2014, Istanbul-Turkey.
85. Eti Ester Levi, *et al.* Congruence between modern vegetation and plant remain assemblages in the sediment surface for assessing lake ecological status. **Ecology and Evolutionary Biology Symposium**, 12-13 July 2014, Istanbul-Turkey.

2013

86. Meryem Beklioğlu, *et al.*. Influence of climate and nutrients on ecology of Mediterranean shallow lakes of Turkey: Space for time substitute Approach. **SIL XXXII Congress**, 4-9 August 2013, Budapest, Hungary
87. Sandra Brucet, *et al.* High size diversity in predator assemblages enhances size diversity at lower trophic levels. **SIL XXXII Congress**, 4-9 August 2013, Budapest, Hungary.

2009

88. Jeppesen, Erik *et al.* Shallow lake dynamics in a climate change perspective. **6th Symposium for European Freshwater Sciences**, August 17th-21st 2009, Sinaia. Romania
89. Ulrike Scharfenberger, *et al.* Impact of climate change on shallow lakes metabolism: Space for time approach in a mesocosm experiment across a North / South European gradient. **German Limnological Society Conference**, 9-13 September 2013, Potsdam, Germany. (Poster)
90. Eti Levi, *et al.* Comparison Of Surface Sediment Plant Macrofossils with Present Day Macrophyte Assemblages And Assessment Of Past Vegetation Dynamics in Turkish Shallow Lakes. **11th International Paleolimnology Symposium**, Guadalajara-Mexico. 15-18. December 2009.
91. İdil Çakıroğlu, *et al.* Inferring Past Salinity and Eutrophication in Latitudinal Gradient of Turkish Shallow Lakes Using Sub-fossil Cladocera. **11th International Paleolimnology Symposium**, Guadalajara-Mexico. 15-18. December 2009

2008

92. Beklioğlu, *et al.* Role of nutrients and climate on functioning of the Turkish Shallow lakes using space for time substitute approach. **Shallow Lakes Conference** 'Structure and Function of Shallow lakes' 23rd to the 28th of November 2008, Punta Del Este, Uruguay
93. Özen, Arda *et al.* Drought-Controlled Nutrient Mass Balances in a System of Two Mediterranean Shallow Lakes, Turkey. **Shallow Lakes Conference** 'Structure and Function of Shallow lakes' 23rd to the 28th of November 2008, Punta Del Este, Uruguay
94. Özkan, Korhan *et al.* The response of periphyton and submerged macrophyte development to increasing nitrogen availability at two moderate phosphorus loadings in a mesocosm experiment. **Shallow Lakes Conference** 'Structure and Function of Shallow lakes' 23rd to the 28th of November 2008, Punta Del Este, Uruguay
95. Jeppesen, Erik *et al.* Relative importance of temperature and nutrient gradients in shallow lake functioning: empirical and experimental evidence. **Shallow Lakes Conference** 'Structure and Function of Shallow lakes' 23rd to the 28th of November 2008, Punta Del Este, Uruguay (Plenary Talk).
96. Tavşanoğlu, Nihan; *et al.* Diel horizontal and vertical distribution of zooplankton and the refuge effect of macrophyte in warm-climate Turkish lakes. **Shallow Lakes Conference** 'Structure and Function of Shallow lakes' 23rd to the 28th of November 2008, Punta Del Este, Uruguay (oral presentation)

97. Meryem Beklioğlu, *et al.* Past to present and to future: Ecology of Turkish Shallow lakes. **International Paleoclimatology Workshop**, 20-23 October, 2008, Van, Turkey (invited talk)

2007

98. Meryem Beklioglu & Arda Özen: 2007. Drought-induces changes in macrophytes, nutrient and major ions in Turkish shallow Lakes. **5th Symposium for European Freshwater Sciences (SEFS5)**, Palermo, Italy, Temmuz 8-13, 2007
99. Bezirci, G., *et al.* Effects of salinity and Fish predation on *Daphnia pulex* life history traits. **5th Symposium for European Freshwater Sciences (SEFS5)**, Palermo, Italy, Temmuz 8-13, 2007
100. Meryem Beklioğlu, *et al.* Impact of hydrology of Turkish lakes, nutrients, salinity and biodiversity. **International Workshop on Impact of Climate change Aquatic ecosystems and Society**, 28-29 June, 2008, METU, Ankara, Turkey
101. Onur Kerimoğlu, *et al.* 2007, "Species Richness in Turkish Inland Waters", **Workshop on Biodiversity**, nutrients and climate change, Burwalls Conference Centre, Bristol, England, 1-5 July 2007.
102. Beklioglu Meryem. Shallow lake ecosystems of semi-arid to arid Mediterranean region and global warming: prediction from present. **International Conference on Climate change and the Middle East**, Past, Present and Future, 20-23 Nov. 2007 Istanbul, pp:104
103. Onur Kerimoglu, *et al.* Impact of Global Climate changes on Lake ecosystems, Turkey. **International Conference on Climate change and the Middle East, Past, Present and Future**, 20-23 Nov. 2007 Istanbul, pp:45.

2006

104. Ozge Karabulut Dogan, *et al.* Detection of Changes in Aquatic Vegetation Cover in two Central Anatolian Shallow Lake Wetlands Using Remote Sensing Techniques. **10th International Specialised Conference on Diffuse Pollution and sustainable Basin Management**, Istanbul, Turkey, September 18-22, 2006.
105. Ozge Karabulut Dogan, *et al.* Mapping and Identification of Submerged Vegetation in a Shallow Lake, Turkey using Quickbird Satellite Data. **Globwetland Symposium**, ESA-ESRIN, Frascati, Rome, Italy. 19-20 October 2006.
106. Sara Banu Akkaş, *et al.* Preliminary Approach for the Determination of Fish Exuded Kairomone using Fourier Transform Infrared Spectroscopy" **"XXVIII European Congress on Molecular Spectroscopy"**, 3-8 Eylül 2006, İstanbul, TÜRKİYE; pp. 125.
107. Beklioglu Meryem. Role of Hydrology on Submerged plants development in Turkish Mediterranean shallow lakes. **1st International Conference on Environmental Change of Lakes, Lagoon & Wetlands in the Southern Mediterranean Region**, 4-7 January, 2006, Cairo, Egypt
108. E. Asuman Korkusuz, *et al.* Phosphorus retention mechanisms of blast furnace granulated slag utilized as a substrate in a vertical flow reed bed. **10th International Conference on Wetland Systems for Water Pollution Control**, 25-29 September

2005

109. Meryem Beklioglu & Pelin Zorlu. Role of food and predator predation avoidance and morphology of *Daphnia pulex* in Laboratory bioassays of diel vertical migration. Cladocera 2005, **VIIth International Symposium on Cladocera**, September 3-9, 2005, Herzberg, Switzerland.
110. Sara Banu Akkas, *et al.* Impact of pesticide and fish kairomone on the life history traits of daphnia using molecular and ecological approaches. Cladocera 2005, **VIIth International Symposium on Cladocera**, September 3-9, 2005, Herzberg, Switzerland
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112. Beklioglu M. Water level versus nutrient control over submerged plant development in the Mediterranean shallow lakes of Turkey. Shallow Lakes in a changing world" the **5th international Symposium on the Ecology and Management of Shallow Lakes** 5 - 9 June, 2005 in Dalfsen, the Netherlands.
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116. Korkusuz E.A., *et al.*, 2005. Mass balance approach for the vertical flow constructed wetlands treating domestic wastewater in Turkey. **1st ZERO-M Conference on Sustainable Water Management**, TUBITAK-MRC and AEE-INTEC, 15-16 March 2005, İstanbul, Turkey, 19-22.

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1. Coşkun, T., *et al.* 2023. Tuzluluk Artışı ve Fitoplanktonun Kommünite Yapısındaki Değişim. **10. Ulusal Limnoloji Sempozyumu** 4-6 Eylül 2023, Çankırı, Türkiye (Poster presentation)
2. Hilal Kıran, *et al.* Ankara'da Kentsel Gölcüklerde Yukarıdan Aşağıya ve Aşağıdan Yukarıya Süreçlerin Zooplankton Biyokütle ve Kommünite Vücut Büyüklüğü Üzerindeki Göreli Etkisi. **10. Ulusal Limnoloji Sempozyumu** 4-6 Eylül 2023, Çankırı, Türkiye (Oral presentation)
3. Mustafa Korkmaz, *et al.* İklim Değişikliği ve Tarımsal Sulama Tehdidi Altındaki Endemik Balık Faunası: Konya Kapalı Havzası Örneği. **10. Ulusal Limnoloji Sempozyumu** 4-6 Eylül 2023, Çankırı, Türkiye (Oral presentation)
4. Nur Filiz, *et al.* Fitoplankton Kommünitesi Isınma ve Besin Tuzu Artışına Nasıl Tepki Veriyor?: 1Yıllık Mezokozm Deneyi. **10. Ulusal Limnoloji Sempozyumu** 4-6 Eylül 2023, Çankırı, Türkiye (Oral presentation)

5. Kerem Gökdağ, *et al.* Farklı Tuzluluklara Sahip Göllerde Mikroplastikler ve Bakteriyel Biyofilm Çeşitliliği: Ön Sonuçlar. **10. Ulusal Limnoloji Sempozyumu** 4-6 Eylül 2023, Çankırı, Türkiye (Oral presentation)
6. İbrahim Kaan Özgencil, *et al.* 20 Yıllık Sulak Alan Tahribatı Sonunda Sulak Alan Kuşlarının Çeşitliliğinde Farklı Ölçeklerdeki Değişim. **10. Ulusal Limnoloji Sempozyumu** 4-6 Eylül 2023, Çankırı, Türkiye (Oral presentation).
7. Gül Canan Yavuz, *et al.* Tuzluluk ve Isı Dalgasının Zooplankton Komünite ve Boyut Yapısı Üzerindeki Etkileri: Mezokozm Araştırması. **10. Ulusal Limnoloji Sempozyumu** 4-6 Eylül 2023, Çankırı, Türkiye (Oral presentation)
8. Feride Avcı, *et al.* Ankara'da Şehir İçindeki Gölcüklerdeki Besin Tuzu Miktarı ve Zooplankton Komünite Yapısının Metan Emisyonu Üzerindeki Etkisi. **10. Ulusal Limnoloji Sempozyumu** 2023, Çankırı, Türkiye (oral presentation)

2014

9. Meryem Beklioğlu, *et al.* Influences of climate and nutrient enrichment on ecology of shallow lakes of turkey: space for time substitute approach. **67. Türkiye Jeoloji Kurultayı**, 14-18 April 2014, Ankara. (Sözlü sunum)
10. Eti E. Levi, *et al.* Effects of water level change and eutrophication on lakes beyşehir, uluabat and marmara: a paleoecological approach. **67. Türkiye Jeoloji Kurultayı**, 14-18 April 2014, Ankara. (Sözlü sunum)
11. Ayşe İdil Çakıroğlu, *et al.* Salinity inference from past to present using sub-fossil cladocera. **67. Türkiye Jeoloji Kurultayı**, 14-18 April 2014, Ankara. (Sözlü sunum)
12. Gizem Bezirci, *et al.* Determining past total phosphorus change using diatom sub-fossils in turkish shallow lakes. **67. Türkiye Jeoloji Kurultayı**, 14-18 April 2014, Ankara. (Sözlü sunum)

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14. Meryem Beklioğlu Ülkemiz Siğ tatlısu ekosistemlerinde Ötrofikasyon ve İklim Değişimin Etkileri. **Ulusal Biyolojik çeşitlilik Sempozyumu** 22-23 Mayıs 2013, Muğla (çağrılı, açılış konuşması).
15. Şeyda Erdoğan, *et al.* İklim, Ötrofikasyon ve Su Seviyesi Değişimlerinin Fitoplankton Çeşitliliğine Etkisinin Mezokozm Deneyi ile Belirlenmesi. **III. Ulusal Sulakalanlar Kongresi**, 23-25 Ekim 2013, Samsun. (Sözlü sunum)
16. Tuba Bucak, *et al.* İklim Değişikliğinin Beyşehir Göl Ekosistemi Üzerindeki Etkilerinin Belirlenmesi. **III. Sulakalanlar Kongresi**, 23-25 Ekim 2013, Samsun. (Sözlü sunum).
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18. Ayşe İdil Çakıroğlu *et al.* Cladosira Alt-Fosilleri Kullanılarak Geçmişten Günümüze Tuzluluk Tahmini Modeli. **III. Ulusal Sulak Alanlar Sempozyum**, 22-25 Ekim 2013, Samsun. (sözlü sunum).
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20. Ü. Nihan Tavşanoğlu, *et al.* Türkiye siğ göllerinde zooplanktonun günlük göç davranışı ve büyüklük yapısı. **III. Ulusal Sulak Alanlar Sempozyumu**, 22-25 Ekim 2013, Samsun. (Poster)
21. Thomas Boll, *et al.* Ülkemiz Siğ Göllerinin Yerel ve İstilacı Balık Faunası ve Faunayı Etkileyen Faktörler. **İstilacı Balıklar Sempozyumu** 12-14 Haziran, 2013, İstanbul.

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23. Ü.Nihan Tavşanoğlu, *et al.* Türkiye'deki siğ göllerde zooplanktonun günlük Yatay ve dikey dağılımları. **IX. Ulusal Ekoloji ve Çevre Kongresi**, 7-9 Eylül, 2009, Ürgüp, Nevşehir.
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28. Nihan TAVŞANOĞLU, *et al.* Balık Avlanma Baskısı Karşısında Zooplanktonun Günlük Dikey /Yatay Göç Stratejilerinin Rolü **III. Ulusal Limnoloji Sempozyumu**, 27-29 Ağustos, 2008, Urla, İZMİR
29. Korhan ÖZKAN, *et al.* Orta ve Yüksek Miktarlardaki Fosfor Yoğunluğunda Artan Azot Yoğunluğunun Suiçi Bitki Gelişimindeki Rolünün Mezokozm Deneyi ile Belirlenmesi. **III. Ulusal Limnoloji Sempozyumu**, 27-29 Ağustos, 2008, Urla, İZMİR
30. Gizem BEZİRCİ, *et al.* Tuzluluğun ve Balık Avlanma Baskısının Daphnia pulex'in Hayatta Kalma Oranı ve Yaşam Döngüsü Parametreleri Üzerindeki Etkileri. **III. Ulusal Limnoloji Sempozyumu**, 27-29 Ağustos, 2008, Urla, İZMİR
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32. Meryem Beklioğlu. 2008. Ülkemiz siğ göllerinde kuraklık etkisi ve ekolojik tepkiler., TMMOB, **İklim Değişimi Sempozyumu**, 13-14 Mart 2008, Ankara 257-267

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33. Sara Banu Akkaş, *et al.* Sipermetrin ve Balık Sinyalinin Daphnia pulex'in Morfolojik ve Populasyon Parametreleri Üzerindeki Etkileri” “**18. Ulusal Biyoloji Kongresi**”, 26-30 Haziran 2006, Kuşadası, AYDIN; sy. 295. (in Turkish)

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34. Meryem Beklioğlu. Hidrolojinin ve Ötrofikasyonun Siğ göllerin ekolojik yapıların belirlemedeki önemi:Beyşehir, Marmara, Işık ve Eymir Gölleri. **I. Ulusal Limnoloji Çalıştayı**. 16-19 Mayıs, 2004, Sapanca (in Turkish)

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35. Meryem Beklioğlu, G. Alınayar & Tan, C. O. Ülkemizde siğ göllerin suiçi bitki gelişiminin belirlenmesinde su seviyesi değişimi, besin tuzları ve bentik balık

- beslenmesinin deęişen rolleri. **XVI. Ulusal Biyoloji Kongresi** 4-7 Eylül, 2002. Malatya (in Turkish)
36. Tan, C. O & Meryem Beklioęlu. Eymir Gölünün biyomanipulasyon ve su seviyesi düşüşüyle restorasyonu. **XVI. Ulusal Biyoloji Kongresi** 4-7 Eylül, 2002. Malatya (in Turkish)
37. Çaęrı Bülent Muluk & Meryem Beklioęlu. Eymir Gölünde D. Pulex in günlük dikeysel göç yapmasında su berraklığı besin ve çözünmüş oksijenin deęişen rolleri. **XVI. Ulusal Biyoloji Kongresi** 4-7 Eylül, 2002. Malatya (in Turkish).
38. P. Zorlu, *et al.* 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, *et al.* 4-Nonil fenol ve balık avlanma baskısının Daphnia magna nın morfolojik, fizyolojik, ve populasyon dinamięine etkisinin belirlenmesi. **XVI. Ulusal Biyoloji Kongresi** 4-7 Eylül, 2002. Malatya (in Turkish).
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44. Ince, Ö., Meryem Beklioęlu& Tüzün, İ. First Biomanipulation Case in Turkey: Lake Eymir **XV. Ulusal Biyoloji Kongresi**, 5-9 September, 2000, Ankara.
45. Tüzün, İ. Kılı, Meryem Beklioęlu, M. 2000. XV. Role of availability of nutrients and fish predation in determining the water quality in Çubuk II Dam Lake. **XV. Ulusal Biyoloji Kongresi**, 5-9 September, 2000, Ankara.

Seminars given as invited speaker: Outreach Activities

1. Meryem Beklioęlu, 2020. Climate change and lakes, İTÜ, Seminer Series.
2. Meryem Beklioęlu, 2016. Climate change and lakes, ESS Drought Awareness Day, METU
3. Meryem Beklioęlu, 2015. Climate change and lakes World Wetlands Day, METU
4. Meryem Beklioęlu, 2014. Climate change and lakes Geology Day, METU
5. Meryem Beklioęlu, 2013. Climate change and lakes Geology Day, METU
6. Meryem Beklioęlu, 2012. Climate change and lakes, World Water Day, METU
7. Meryem Beklioęlu, 2010. Climate change and lakes, TRT, Akşama Doğru Radio Programı
8. Meryem Beklioęlu, 2010. Ecosystems and climate change, TRT, Akşama Doğru Radio Programı

9. Meryem Beklioğlu, 2010. Climate change and lakes, TRT, Mavi Bilye Programı
10. Meryem Beklioğlu, 2010. Earth System Science at METU, TRT, Mavi Bilye Programı
11. Meryem Beklioğlu, 2007. Uzun Dönemli İklim değişimi. Gazi Üniversitesi İletişim Fakültesi, Semineri, Mart (in Turkish).
12. Meryem Beklioğlu, 2007. Eymir Gölü ve sorunları, METU, Alumni, April (in Turkish) .
13. Meryem Beklioğlu, 2007. Eymir Gölü ve sorunları, METU, Society of Environment, April (in Turkish).
14. Meryem Beklioğlu, 2005. Life in aquatic ecosystems. METU, Environmental Engineering Department 8th December
15. Meryem Beklioğlu, 2004. Life in shallow lakes: hysteresis, METU, Institute of Applied Mathematics, 14th January.
16. 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.
17. Meryem Beklioğlu. İnsan Faliyetleri kaynaklı küresel ısınma ve biyoçeşitliliğin azalması. Genel Kurmay Komutanlığı, 4. Kolordu Komutanlığı, 28, March, 2001. (in Turkish)
18. Meryem Beklioğlu. Lakes, nutrient enrichment and restoration: Lake Eymir. METU, the Department of Petroleum Engineering, 6th, April, 2001
19. Meryem Beklioğlu First application of biomanipulation in Turkey for restoration of eutrophic Lake Eymir. Bilkent University, Department of Molecular Biology & Genetics. December, 13, 2000.
20. Meryem Beklioğlu. A Wise Wetland Resources Management Plan: A case study, Lake Ulubat. The world 3rd Wetlands Day, Bursa, Turkey, 02.2.1999 (in Turkish)
21. Meryem Beklioğlu. Chemical communication of planktonic animal in aquatic systems: A laboratory study on the plant-associated grazer, *Eurytemora affinis*. METU, Institute of Marine Sciences, Erdemli, Mersin. Şubat, 1999.
22. Meryem Beklioğlu. Ecology of Lake Eymir ve Mogan. Environmental Ministry, Ankara, April, 1999.
23. Meryem Beklioğlu. Ecology of Lake Eymir and Lake Mogan: eutrophication and restoration Gölbaşı Municipality, the Agenda 21 Group, July, 1999.