CURRICULUM VITAE

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Prof. Dr. Bahar Ince is the faculty member of Institute of Environmental Sciences of Boğaziçi University and the founding partner of ENGY Environment and Energy Technologies Biotechnology R&D Company established in 2011 in BUN Teknopark at Boğaziçi University, and is the director of R&D Division.

Prof. Dr. Bahar Ince has published over 400 articles, papers and technical reports and has been cited over 1,500. She currently has 2 TUBITAK project includes 1 international project (COST-Cooperation in Science and Technology) as advisor and 1 TUBITAK project as executive manager. In the past 10 years, 17 national and 8 international applied trainings, scientific and technical meetings have been organized for the applications of environmental, energy and molecular techniques in the field of biotechnology. There are over 1100 researchers and engineers from 22 different universities, 15 different countries and private sectors joined in these trainings and meetings. In this context, it has been pioneered in this country to create a platform where information and experience sharing can be actively carried out.

Prof. Dr. Bahar Ince founded ENGY Environment and Energy Technologies Biotechnology R&D company in 2011 at Boğaziçi University BUN Technopark. The purpose of ENGY is to provide consultancy services for field engineering, to develop R&D projects for environmental, energy and biotechnology investments and creating the most suitable but economically achievable solutions in these fields by evaluating the knowledge and experiences of qualified experts with the use of the Universities's infrastructure facilities and site engineers. Currently, 2 international and 5 national totally 7 patents has been granted and international patent applications have been made for 9 inventions that have been completed and passed pre-evaluation stages. In addition, a total of 332 non-cultured microorganisms have been identified and registered with international Gene Banks (www.ebi.ac.uk).

KEY QUALIFICATIONS

- Design, analysis, operational control of industrial and municipal wastewater treatment systems
- Microbial ecology and environmental microbiology
- Methanogenic archaeal diversity, their functions and interrelationships
- Microbial products in bioreactors.
- Waste to Energy Technologies (Biogas, Incineration, Gasification, Prolysis)
- Industrial Pollution and Control
- Environmental Biotechnology
- Water and Wastewater Management
- Identification of Microorganisms and Pathogenic Organisms in Water, Wastewater, Soil, Air, Sediments, Sludges by Morphological, Physiological and Molecular Method

PROFESSIONAL EDUCATION AND ACADEMIC DEGREES

1990-1994	Ph.D. in Department of Civil Engineering, Division of Environmental Engineering, University of Newcastle upon Tyne, UK.
1989-1990	M.Sc. in Department of Civil Engineering, Division of Environmental Engineering, University of Newcastle upon Tyne, UK.
1984-1988	B.Sc. in Department of Environmental Engineering, METU, Ankara, Turkey.

PROFESSIONAL RECORDS

2002-	Professor, Institute of Environmental Sciences, Bogazici University, Istanbul, Turkey.
1996-2002	Associate Professor, Institute of Environmental Sciences, Bogazici University, Istanbul, Turkey.
1995-1996	Assistant Professor, Department of Environmental Engineering, Istanbul University, Istanbul, Turkey.
1991-1994	Research Associate, Department of Civil Engineering, Division of Environmental Engineering, University of Newcastle upon Tyne, UK.
1988-1989	Teaching and Research Assistant, Department of Environmental Engineering, METU, Ankara, Turkey.

INTERNATIONAL SCI PAPERS

- I.C. Ozsefil, I.H. Miraloglu, E.G. Ozbayram, **B. Ince**, O. Ince, 2024. Bioaugmentation of anaerobic digesters with the enriched lignin-degrading microbial consortia through a metagenomic approach. Chemosphere, 355, 141831.
- M. Mansour, O. Ince, O. Uzun, E.G. Ozbayram, I.H. Miraloglu, **B. Ince**, 2024. Enhanced Anaerobic Mono-digestion and Co-digestion of Crop Residues by NaOH Alkali Pre-treatment: Digestion Performance and Microbial Community Dynamics. Waste Biomass and Valorization, 15, 3003-3015.
- I.C. Ozsefil, I.H. Miraloglu, E.G. Ozbayram, O. Uzun, **B. Ince**, O. Ince, 2023. Is a floodplain forest a valuable source for lignin-degrading anaerobic microbial communities: A metagenomic approach. Chemosphere, 339, 139675.
- O. Ince, H.A. Ucan, B. Oktar, E.G. Ozbayram, M. Altinbas, O. Uzun, I.C. Ozsefil, K. Doymus, E.M. Ataslar, I.H. Miraloglu, A. Calisiyor, **B. Ince**, 2023. Mars'dan Dünya'ya Olası Antik Yaşamın İzleri: Salda Gölü Mikrobiyal Ekolojisi ve Korunması Üzerine Değerlendirme, Çevre Şehir ve İklim Dergisi, 2, 116-130.
- A.I. Tosun, M. Kolukirik, M. Yilmaz, S.N. Otgun, G. Aygun, C. Z. Ketre Kolukirik, U. Zeybek, G.G. Ozgumus, M. Turan, M. Kuskucu, O. Ince, **B. Ince**, S. Kilic, 2023. Development of a new multiplex real-time PCR assay for rapid screening of hospital-acquired infection agents, Journal of Microbiological Methods, 206, 106690.
- O. Uzun, O. Ince, E.G. Ozbayram, C. Akyol, **B. Ince**, 2023. New approach to encapsulation of Trametes versicolor in calcium alginate beads: a promising biological pretreatment method for enhanced anaerobic digestion. Biomass Conversion and Biorefinery, DOI: 10.1007/s13399-021-01606-7
- E.G. Ozbayram, I.H. Miraloglu, **B. Ince**, 2021. Assessment of microbial community diversity in lakes of Igneada floodplain forest by metabarcoding approach. Aquatic Research, 4, 304-312.
- O. Ince, E.G. Ozbayram, C. Akyol, E.I. Erdem, G. Gunel, **B. Ince**, 2020. Bacterial succession in the thermophilic phase of composting of anaerobic digestates. Waste and Biomass Valorization, 11, 841-849.
- C. Akyol, O. Ince, M. Bozan, G. Ozbayram, **B. Ince**, 2019. Biological pretreatment with Trametes versicolor to enhance methane production from lignocellulosic biomass: A metagenomic approach, Industrial Crops and Products, 140, 111659.
- O. Ince, C. Akyol, E.G. Ozbayram, B. Tutal, **B. Ince**, 2019. Enhancing Methane Production from Anaerobic Co- Digestion of Cow Manure and Barley: Link Between Process Parameters and Microbial Community Dynamics, Environmental Progress & Sustainable Energy, e13292.

- C. Akyol, O. Ince, **B. Ince**, 2019. Crop-based composting of lignocellulosic digestates: Focus on bacterial and fungal diversity, Bioresource Technology, DOI:10.1016/j.biortech.2019.121549
- C. Akyol, O. Ince, M. Bozan, G. Ozbayram, **B. Ince**, 2019. Fungal bioaugmentation of anaerobic digesters fed with lignocellulosic biomass: What to expect from anaerobic fungus Orpinomyces sp., Bioresource Technology, 277:1- 10, DOI: 10.1016/j.biortech.2019.01.024.
- C. Akyol, E.G. Ozbayram, B. Demirel, T. T. Onay, O. Ince, **B. Ince**, 2019. Linking Nano-ZnO Contamination to Microbial Community Profiling in Sanitary Landfill Simulations, Environmental Science and Pollution Research, 26, 13580-13591.
- O. Ince, E.G.Ozbayram, Cagrı Akyol, E.Irmak Erdem, Gulsah Gunel, **B. Ince**, "Bacterial Succession in the Thermophilic Phase of Composting of Anaerobic Digestates", Waste and Biomass Valorization, 2018
- E.G. Ozbayram, O. İnce, **B. İnce**, H. Harms, S. Kleinsteuber, "Comparison of rumen and manure microbiomes and implications for the inoculation of anaerobic digesters", Microorganism, 2018
- E. G. Özbayram, Ç. Akyol, **B. İnce**, C. Karakoç, O. İnce, 2018. Rumen bacteria at work: Bioaugmentation strategies to enhance biogas production from cow manure, Journal of Applied Microbiology, 124(2), 491-502, doi: 10.1111/jam.13668.
- G. Turker, Ç. Akyol, O. Ince, S. Aydin, **B. Ince**, 2018. Operating conditions influence microbial community structures, elimination of the antibiotic resistance genes and metabolites during anaerobic digestion of cow manure in the presence of oxytetracycline. Ecotoxicology and Environmental Safety, 147, 349-356, doi: 10.1016/j.ecoenv.2017.08.044.
- B. E. Öner, Ç. Akyol, M. Bozan, O. İnce, S. Aydın, **B. İnce**, 2018. Bioaugmentation with Clostridium thermocellum to enhance the anaerobic biodegradation of lignocellulosic agricultural residues. Bioresource Technology, 249, 620-625, doi: 10.1016/j.biortech.2017.10.040.
- E. G. Özbayram, S. Kleinstauber, M. Nikolausz, **B. İnce**, O. İnce, 2018. Enrichment of lignocellulose degrading microbial communities from natural and engineered methanogenic environments, Applied Microbiology and Biotechnology, 102, 1035-1042, doi: 10.1007/s00253-017-8632-7.
- E.G. Ozbayram, S. Kleinsteuber, M. Nikolausz, **B. İnce**, O. İnce , "Bioaugmentation of anaerobic digesters treating lignocellulosic feedstock by enriched microbial consortia", Engineering in life Sciences 18(7), DOI:10.1002/elsc.201700199, 2017

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- Yıldırım, O. İnce, S. Aydın, **B. İnce**, "Improvement of Biogas Potential of Anaerobic Digesters Using Rumen Fungi, Renewable Energy", Renewable Energy, Vol. 109, 2017, s. 346-353, DOI:10.1016/j.renene.2017.03.021, 2017
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- S. Aydin, **B. Ince**, O. Ince, "Assessment of anaerobic bacterial diversity and its effects on anaerobic system stability and the occurrence of resistance genes", Bioresource Technology, No. 207, 01/2016, 2016
- Z. Cetecioglu, **B. Ince**, D. Orhon, O. Ince, 2016. Anaerobic sulfamethoxazole degradation is driven by homoacetogenesis coupled with hydrogenotrophic methanogenesis. Water Research, 90, 79-89.
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- S. Aydin, Z. Cetecioglu, O. Arikan, **B. Ince**, E. G. Ozbayram, O. Ince, "Inhibitory Effects of Antibiotic Combinations on Syntrophic Bacteria, Homoacetogens and Methanogens", Chemosphere, No. 120, 02/2015, s. 515-520, 2015
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3. Workshop on Energy Efficient Technologies: **COST** Water 2020, 2014, Istanbul
4. Workshop on Microbial Ecology and Technology of Anaerobic Degradation, 08-09.09.2014, Istanbul
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6. Identification and Treatment of Environmental Risks, Solid Liquids and Gas Wastes, Trainings on Pollution Prevention Studies, 1995-2014
7. Denaturated Gradient Gel Electrophoresis (DGGE) Applied Training Course, 14-15.10.2012, Istanbul
8. Fluorescent Onsite Hybridization Applied Training Course, 13-14.10.2012, Istanbul

9. Bioinformatics Practical Training Course, 07-08.10.2012, Istanbul
10. Cloning and Sequence Analysis Applied Training Course, 06-07.10.2012, Istanbul
11. Western Blotting Applied Training Course, 08-09.09.2012, Istanbul
12. 2-D SDS-PAGE Applied Training Course, 06-07.09.2012, Istanbul
13. RNA Detection and Counting with Reverse Transcription (RT) and Real-Time PCR Applied Training Course, 17-18.07.2012, Istanbul
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23. Fluorescent On-Site Hybridization (FISH) Applications in Biotechnology Training Course, 18.06.2008 - 20.06.2008, Istanbul
24. Polymerase Chain Reaction (PCR), Cloning and Phylogenetic Analysis Applications in Biotechnology Training Course, 16.06.2008 - 17.06.2008, Istanbul
25. Biotechnology Polymerase Chain Reaction (PCR) - Real Time Polymerase Chain Reaction (Q-PCR) Applications Training Course, 30.01.2008 - 31.01.2008, Istanbul
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  Application no: 2019/07304
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  ENGY Environment and Energy Technologies Biotechnology R&D Company,
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