

**Prof. Dr. Orhan İNCE**

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<http://www.engy.com.tr>

**Prof.Dr.Orhan Ince** is the faculty member of Environmental Engineering Department of ITU. He is the founding partner of ENGY Environment and Energy Technologies and ENGY Biotechnology R&D Companies established in BUN Teknopark at Boğaziçi University, İstanbul, Türkiye. He is Chairman of the Board and head of R&D Divisions.

**Prof.Dr.Orhan Ince** graduated from ITU Faculty of Civil Engineering, Department of Environmental Engineering in 1986. In 1989 he received the title of Senior Engineer from the same department. He completed his PhD in 1994 at the Department of Environmental Engineering at Newcastle upon Tyne University, U.K. He became Associate Professor in 1995 and Professor in 2004. He is still working as a full time Professor in ITU Environmental Engineering Department. He has been involved in technical studies within the scope of R&D and engineering projects at prominent universities of America (University of California-Berkeley, University of Texas at Austin, University of Wisconsin-Madison, Purdue University, Iowa State University, etc.). He worked as an Advisor to ITU Rector, Founder and President of International Joint Bachelor of Science in Bioengineering, ITU-Montana-State University (USA), Deputy Head of ITU Environmental Engineering Department and Coordinator of ITU Environmental Biotechnology Graduate Program. He was also Strategic Director & Advisor of ELC Group Royal HaskoningDHV. He is currently the chair of ITU-Boğaziçi University Microbial Ecology Group (MEG). [www.meg.boun.edu.tr](http://www.meg.boun.edu.tr)

**Prof.Dr.Orhan Ince** has managed and supervised over 300 scientific research and engineering projects in the fields of environment and energy technologies biotechnology defined below.

- ✓ Integrated Watershed Management
- ✓ Water and Wastewater Management
- ✓ Protection of Natural Ecosystems
- ✓ Preparation of Environmental Master Plans
- ✓ Remediation and Bioremediation of Polluted Sites
- ✓ Solids and Hazardous Wastes Management
- ✓ Industrial Pollution and Control
- ✓ Sea Water Treatment-Desalination
- ✓ Microbial Ecology, Molecular Biology, Metagenomics
- ✓ Environmental Biotechnology
- ✓ Environmental Modelling
- ✓ Waste and Treatment Sludge Management
- ✓ Design, Control and Operation of Water/Wastewater/Waste Treatment Systems
- ✓ Waste to Energy Technologies (Biogas, Incineration, Gasification, Prolysis)
- ✓ Odor Removal
- ✓ Flood Risk Modelling and Assessment,
- ✓ Environmental Impact Assessment and Risk Evaluation
- ✓ Preparation of Emergency Action Plans
- ✓ Carbon Inventories and Carbon Footprint Studies
- ✓ Preparation of R&D Projects in Environment and Energy Technologies, Biotechnology Fields
- ✓ Application of Molecular Techniques in Environmental Samples
- ✓ Identification of Microorganisms and Pathogenic Organisms in Water, Wastewater, Soil, Air, Sediments, Sludges by Molecular Methods
- ✓ Designing of Infrastructure Projects
- ✓ Turn-key Environmental Infrastructure Projects
- ✓ Environmental Legislation Trainings
- ✓ Establishment of Environmental Laboratories and Accreditation-17025 Standard
- ✓ Development of Rapid Detection Kits (Environmental, Health, Food, Veterinary Fields)
- ✓ Environment and Energy Investment Consultancy
- ✓ Environmental Infrastructure and Energy Plant Audits

**Prof Orhan Ince** has published over 400 scientific articles, papers and technical reports and has been cited over 6000 with i10-index 106, *h*-index of 47. He currently has 2 TUBITAK projects and 4 international projects (Russian SHEC TerrArctic Mega Grant, HOROZON 2020, ERANET-LAC and COST projects ) as executive manager and 1 TUBITAK project as advisor.

**Prof Orhan Ince**, currently, 2 international and 5 national totally 7 patents has been granted. International patent applications have been made for other 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](http://www.ebi.ac.uk)).

**Prof Orhan Ince** was included in the in the top 1% of The World's Most Influential Scientists List in Elsevier 2023, 2022, 2021 and 2020 for the last 20 years and last 5 years evaluations, which is made annually by scientists from Stanford University, USA.

<https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/3>

**Prof Orhan Ince** was assigned the scientific director and leader of TerrArctic Mega Grant Project supported by Ministry of Science and Higher Education of the Russian Federation in May 2024.

**Prof. Orhan Ince** has worked as consultant for environment and energy investments for the companies including Unilever Türkiye Co (Algida-Icecream, Unipro, Lipton, Detergent), Istanbul Kuyumcukent Gold Processing Complex, KOÇ Holding, Eczacıbaşı Holding, Koloğlu Holding-Kolin Construction, Bekay Construction, Karbosan, IDOSB, GEBKIM, Çanakkale Port and etc. Over the past years, consultancy and engineering services have been provided for environmental management and environmental infrastructure facilities.

**Prof Orhan Ince** organized 17 national and 8 international applied trainings, scientific and technical meetings in the past 10 years, for environmental and energy technologies and biotechnology (advanced molecular techniques). There were 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 the country to create a platform where information and experience sharing can be actively carried out.

**Prof Orhan Ince** founder of ENGY purposes to provide consultancy and engineering services, to develop R&D projects for environmental, energy and biotechnology investments and to create the most suitable and 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 national and international site engineers.

<http://akademi.itu.edu.tr/en/inceor/>

<http://engy.com.tr/>

<http://meg.itu.edu.tr/>

<http://bioeksen.com.tr>

References to the work described above with the brief resume are detailed below.

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**Prof Orhan Ince**



**ACADEMIC TITLES AND DEGREES**

2004-	Professor, Environmental Engineering Department, ITU
1995-2004	Associate Professor, Environmental Engineering Department, ITU
1991-1994	PhD, Environmental Engineering Department, Newcastle University U.K.
1990-1991	MPhil, Environmental Engineering Department, Newcastle University U.K.
1987-1989	MSc, Environmental Engineering Department, ITU
1982-1986	BSc, Environmental Engineering Department, ITU

**EXISTING ADMINISTRATIVE AND ACADEMIC DUTIES**

- Scientific Director and Leader, TerrArctic Mega Grant Project, Ministry of Science and Higher Education of the Russian Federation, May 2024
- Scientific Committee Member, 18<sup>th</sup> IWA World Conference on Anaerobic Digestion, 2-6 June 2024, Istanbul, Türkiye
- Executive Committee Member, Deeply High The Solar Decathlon Europe 2021/2022 Project Competition, 2021/2022
- Jury Member, Sustainable Business Awards: Water/Wastewater/Waste Management, Sustainability Academy Turkey, 2018,2019, 2020, 2021, 2022,2023
- Executive Committee Member (2019-Present) HORIZON 2020
- Executive Committee Member (2018-Present) ERANET-LAC
- Executive Committee Member (2012-2018) EU COST Action-Water 2020
- Chairman of the Jury, Dalyan Iztuzu Beach Sea Turtle Care Station and Daily Area Ecological Design Idea Competition, The Ministry of Environment and Urbanisation, 2019
- ITU Microbial Ecology Group Executive since 1996
- ITU Coordinator (2003-2004) - ITU Scientific Research Projects
- ITU Founding President- ITU-Montana State University (USA) Bioengineering International Joint Degree Program
- Coordinator (2004-2008) - Environment Biotechnology Executive Board
- Chairman (2004-2008) - Environment Biotechnology Proficiency Committee
- Deputy Head of Department (1996-1999) - Environmental Engineering, ITU
- Assistant Editor-International J. of Chemical, Environmental and Pharmaceutical Research
- Project Referee - Ministry of Industry and Trade SAN-TEZ
- Scientific Board Member- VII National Ecology and Environment Congress, 2007
- Scientific Board Member- İTÜ 10th Industrial Pollution Control Symposium

- Chief Auditor, Technical Supervisor - Turkish Accreditation Authority (TÜRKAK)
- Auditor - National Engineering Programs Evaluation Board Member, MÜDEK
- Chairperson of the Organizing Committee-ITU 9th Industrial Pollution Symposium
- Commission Member - Preliminary Evaluation of the Section Board, ITU
- Commissioner-ABET 2000
- Referee: TÜBİTAK
- Referee: IAWQ, Water Research
- Referee: IAWQ, Environmental Biotechnology Conference, 2003
- Referee: IAWQ Biennial International Conference, 1998
- Referee: Water Pollution Investigations Turkish National Committee
- Referee: Anadolu University Journal of Science and Technology
- Referee: Uludağ University, Faculty of Engineering and Architecture Journal
- Member of Editorial Board: Journal of Chemistry
- Assistant Editor: International Journal of Process Wastes Treatment
- Member: Sustainable Technology Conference for Environmental Protection, International Technical Committee, India, 2006

#### **SCIENTIFIC AND TECHNOLOGICAL RESEARCH AND DEVELOPMENT PROJECTS**

- 2024-: Scientific Director and Leader, Sustainable Land Use Management and Reconstruction of Destructed Ecosystem in the Arctic Region, TerrArctic Mega Grant Project supported by Ministry of Science and Higher Education of the Russian Federation.
- 2024-; Project Manager, Determination of Salda Lake Microbial Ecological Dynamics with New Generation Genomic Methods R&D Project, Submitted to Turkish Scientific and Technology Research Council
- 2024-; Project Researcher, Investigation Of The Mechanisms For The Removal Of Antibiotics, Metabolites, And Antibiotic Resistance Genes In Anaerobic Digesters Fed With Chicken And Cow Manure, And The Development Of Bioremediation Strategies To Enhance Efficiency Submitted to ITU Scientific Research Projects Devision (As Advanced Research Project)
- 2024-continue; Project Manager, Developing A Biological And Ecological Remediation Method Model For Oil-Polluted Soil And Testing Its Applicability In The Field, Competent Field Research Project, Council of Higher Education (YÖK) Presidency - Research-Focused Mission Differentiation and Specialization Program

- 2023-continue, Project Manager, Production Of High Omega3 Contained Microalgae From Food Waste Focus On Algal Diversity By Oxford Nanopore Minion Sequencing And Economic Analysis, ITU Scientific Research Project
- 2023-continue, Project Manager, Comparison Of Single And Two Phase Anaerobic Digestion Of Lignocellulosic Waste Using Physico-Chemical Pretreatment Methods Interms Of Performance Microbial Community And Cost Analysis, ITU Scientific Research Project.
- 2023-continue, Project Manager, Comparison of Single and Two Phase Anaerobic Digestion of Lignocellulosic Waste Using Alkali Pretreatment Methods in terms of Performance Microbial Community and Cost Analysis, ITU Scientific Research Project.
- 2023-continue, Project Manager, Determination of Salda Lake Microbial Ecological Dynamics with New Generation Genomic Methods, ITU Scientific Research Project
- 2023-continue, Project Manager, Comparative Evaluation of Prokaryotic Community of Salda Lake Using Oxford Nanopore MinION and Next Generation Sequencing-Illumina, ITU Scientific Research Project
- 2023-continue, Project Manager, R&D Project on Production of Economically Valued Carboxylic Acid from Chicken Waste Using Anaerobic Digestion Technology, ITU Scientific Research Project
- 2023-Consultant, TUBITAK, Characterization And Functional Analysis Of Lignin-Degrading Bacteria In Anaerobic Conditions, Turkish Scientific and Technology Research Council, 122Y399.
- 2023-continue, Project Researcher, Identification of various surfactants to increase the efficiency of the biodegradation process of petroleum-derived wastes, Bogaziçi University Scientific Research Project, BAP 23YP2.
- 2021-continue: Project Manager, Development of PMA - QPCR Based Early Pathogen Detection System in Water Distribution Networks, ITU Scientific Research Project
- 2018-2023: Executive, TUBITAK, ERANET-LAC, Valorisation of Agricultural Residues via Anaerobic Digestion: From Biogas to Carboxylates, Turkish Scientific and Technology Research Council.
- 2022-2023, Project Researcher, Use Of Lignolytic Microbial Communities In İğneada Floodplain Forests As Bio-Reinforcement, Bogaziçi University Scientific Research Project, BAP 22YD1
- 2021-2022, Project Researcher, Enhancing Hydrolysis of Lignocellulosic Wastes via Anaerobic Digestion with Alkali Pre-treatment, Bogaziçi University Scientific Research Project, BAP 21YP1
- 2021-2022: Executive, Determination of Microbial Ecology of Salda Lake by Advanced Molecular Methods (Metabarcoding) and Mapping of Geomicrobiological Characteristics

Research & Development Project, The Turkish Ministry of Environment, Urbanism and Climate Change

- 2020-2022: Executive, Sustainable Use Of Biomass To Assist The Development Of Turkey's Economy Towards Green Growth, (Project number: 140325, UNIDO&TAGEM coloboration)
- 2019- 2022: Researcher, Safe And Sustainable Solutions For The Integrated Use Of Non-Conventional Water Resources In The Mediterranean Agricultural Sector, HORIZON 2020
- 2019-2021: Executive, TUBITAK, Determination of Specific Waste Combinations For Biomethane Production in Anaerobic Co-digestion Systems Treating Agro-wastes Within the Framework of Sustainable Approach.
- 2019 -2020 : Executive, TUBITAK, Improvement of Biodegradation Efficiency of Petroleum Derived Wastes via *Trichocladium Canadense*, Turkish Scientific and Technology Research Council.
- 2019-2020, Project Researcher, Detection Of Microorganisms That Biochemically Degrade Lignin And Cellulose In İğneada Floodplain Forests And Determination Of Their Species. Bogaziçi University Scientific Research Project, BAP 19YOOD9
- 2018-2019: Project Manager, Determination of Anaerobic Biodegradation Potential of Petroleum Derived Wastes in Nitrate and Iron Reducing Environments, ITU Scientific Research Project
- 2017-2019: TUBITAK, Development of HRM Based MLSA Method for Rapid and Reliable Identification of Clinically Important Human Pathogenic Molds, ENGY, ENGY Energy and Environmental R&D Company, Turkish Scientific and Technology Research Council.
- 2017-2019: Advisor, TUBITAK, Investigation of Active Microbial Community in Anaerobic and Aerobic Biofilm Layer, and Determination of Potential of Biological Cleaning Agents in Prevention of Biofilm Layer and Antibiotic Resistance Development, Turkish Scientific and Technology Research Council.
- 2016-2019 : Executive, TUBITAK 2525, Turkish-German Joint Project, Improvement of Anaerobic Biodegradation Efficiency of Petroleum Derivatives Waste - ZERO WASTE, Turkish Scientific and Technology Research Council.
- 2016-2018 : Coordinator, BAP, PhD Thesis Support Program Projects, Determination of the Effects of Specific Cellulolytic Bacteria on Biomethane Production and Microbial Community Dynamics in Anaerobic Digestors
- 2016-2017: ENGY, Determination of Engineering Data Based on Basic Principles and Design of Biological Treatment of Wastewaters Containing Detergent by Using Aerobic and Anaerobic Fungus, R&D Project, ENGY Energy and Environmental R&D Company

- 2015-2019: Advisor, Energetic utilization of lignocellulose-rich agricultural wastes by applying microorganisms from high performance natural systems. Collaborative project with Helmholtz Center for Environmental Research – UFZ-Leipzig Germany
- 2015-2018: Project Manager, Use Of PCR-DGGE Based Molecular Methods To Assesment Of Microbial Diverity During Anaerobic Treatment Of Antibiotic Combinations, ITU Scientific Research Project
- 2015-2018: Project Manager, Effect Of The Antimicrobial And Antibiotics On The Microbial Community Structure And The Development Of Antibiotics Resistance Genes In Anaerobic Sequencing Batch Reactor, ITU Scientific Research Project
- 2015-2017: Advisor, BAP, Investigation of Ammonia Removal by Anammox Process after Anaerobic Treatment of Chicken Wastes
- 2015-2016: ENGY, Establishment of Data Based on the Design of Rotary Furnace System for Reducing of Hazardous / Non-hazardous Treatment Sludges into Fine Particles and Granules by drying method, R&D Project , ENGY Energy and Environmental R&D Company
- 2014-2021: Project Manager, Determination of the Effect of Antibacterial and Antibiotics on Anaerobic Metabolic Traces and Investigation of Antibiotic Resistance Gene Formation, ITU Scientific Research Project
- 2014-2021: Project Manager, Determination of Effects of Specific Cellulolytic Bacteria on Biomethane Production and Microbial Community Dynamics in Anaerobic Digesters, ITU Scientific Research Project
- 2014-2018: Project Manager, Removal Of Pharmaceutical Wastewater Containing Sulfamethoxazole Under Anaerobic Conditions, ITU Scientific Research Project
- 2014-2017: Advisor, TUBITAK, Comparison of Energy Potential of Olive Mill Wastewater by Using Two-Phase Anaerobic Systems and Electrohydrolysis Methods, Turkish Scientific and Technology Research Council.
- 2014-2017: Advisor, TUBITAK, Enhancement of Biomethane Efficiency in Anaerobic Reactors Using Specific Rumen Bacteria and Hydrolysis Enzymes. Turkish Scientific and Technology Research Council.
- 2014-2016: ENGY, Development of Automated Molecular Analyzers and Kits for Rapid Detection of Hospital Infection Factors, R&D Project, ENGY Energy and Environmental R&D Company
- 2014-2015: ENGY, Determination of Design Principles for the Treatment of Detergent Factory Wastewater by Advanced Generation Technologies and Enhancing Energy Efficiency, R&D Project



- 2014: ENGY, System Development for Raw Material and Water Recovery and Reduction of Energy Consumption in Sustainability in ALGIDA Ice Cream Factory Pilot R&D Facility, R&D Project, ENGY Energy and Environmental R&D Company
- 2014-2016: Researcher, TUBITAK, Development of a Fast and Economical Molecular-Based System for the Detection of Hospital Infections, Turkish Scientific and Technology Research Council.
- 2014-2016: Coordinator, BAP, Master Thesis Support Program Projects, Development of PMA - QPCR Based Early Pathogen Detection System in Water Distribution Networks
- 2012-2018: Project Manager, Analysis of Pathogenic Bacteria in Water Resources and Wastewater with DNA Based Methods and Immunoimmobilization, ITU Scientific Research Project
- 2013-2021: Project Manager, Treatment of Refinery Sludges Containing Petroleum, ITU Scientific Research Project
- 2013-2016: Executive, TUBITAK, A Method for Fast Species Detection in the Black Sea Zooplankton. Turkish Scientific and Technology Research Council.
- 2013-2016: Advisor, TUBITAK, Determination of Genetic Interaction and Variation by Molecular Markers between Natural and Cultured Populations of Sea Bream (*Sparus aurata*), Sea Bass (*Dicentrarchus labrax* L.), Common Dentex (*Dentex dentex*) and Sharpshout Seabream (*Diplodus puntazzo*) Fishes, and Estimation of Future Situation by Artificial Neural Network, Turkish Scientific and Technology Research Council
- 2013-2015: Researcher, ENGY, Development of a PCR-based Kit for the Detection of Beta Hemolytic Streptococcus in Group A of the Throat Swab, ENGY Energy and Environmental R&D Company
- 2013-2014: ENGY, R & D Project for Development of Domestic Compost System for Domestic (Kitchen) and Park Garden Wastes
- 2013-2014: ENGY, Determination of Flood Risks by Model Design, R&D Project, ENGY Energy and Environmental R&D Company
- 2013-2014: ENGY, Determination of the Design Principles of Wastewater Treatment Technologies Using and Applicable to Renewable Energy Sources for Distributed Settlements, ENGY Energy and Environmental R&D Company
- 2013-2014: Coordinator, BAP, Master Thesis Support Program Projects, Determination of the effect of antibacterials and antibiotics on anaerobic metabolic pathways and examination of the formation of antibiotic resistance
- 2013-2014: Coordinator, BAP, Master Thesis Support Program Projects, Determination of Inhibitory and Ecotoxicological Effects of Anaerobic Treatment Waters of Wastewaters Containing Antibiotics

- 2012-2013: Researcher, ENGY, Kit Development for Increasing Sensitivity and Reducing Cost in Fluorescent On-Site Hybridization (FISH) Applications, ENGY Energy and Environmental R&D Company
- 2012-2013: Researcher, ENGY, Kit Development for Increasing Sensitivity and Reducing Cost in Real Time PCR (QPCR) Applications
- 2012-2013: ENGY, Development of a PCR-Based Kit for the Detection of Beta Hemolytic Streptococcus in Group A in the Throat Swab, R&D Project, ENGY Energy and Environmental R&D Company
- 2012 - 2015: Coordinator, BAP, Master Thesis Support Program Projects, Treatment of Oil-Containing Refinery Sludge
- 2012-2014: ENGY, Development of PCR Based Systems for Detection of Hospital Infection Factors, R&D Project, ENGY Energy and Environmental R&D Company
- 2011-2014: Advisor, TÜBİTAK, Investigation of the Effect of Ultrase Process on System Dynamics in Anaerobic Treatment of Olive Oil Wastewater, Turkish Scientific and Technology Research Council.
- 2011-2014: Project Manager, European Cooperation in Science and Technology (COST) Project, TUBITAK, Determination of the Effect of Metabolic Pathways on the Anaerobic Treatment of Wastewaters Containing Antibacterial and Antibiotic and the Relationship with Antibiotic Resistance Genes, Turkish Scientific and Technology Research Council.
- 2011-2013: ENGY, Evaluation of Bioenergy Production Potentials of Turkey's Animal and Agricultural Wastes and Development of Anaerobic Treatment Strategies, R&D Project, ENGY Energy and Environmental R&D Company
- 2011-2013: ENGY, Investigation of Appropriateness of Technological and Economical Application of Unilever Algida Ice Cream Factory Wastewater Treatment by New Generation Biological Treatment Systems, R&D Project, ENGY Energy and Environmental R&D Company
- 2011-2013: Project Manager, Determination of Multiple Acute Effects of Antibiotic Contained Wastewater on Methanogenic Pathways, ITU Scientific Research Project
- 2011-2012: ENGY, Unilever R & D Project for Reducing Environmental Impacts
- 2011-2014: Coordinator, BAP, Master Thesis Support Program Projects, Investigation of Effects of Oxytetracycline on Microbial Population and Biogas Production Efficiency in Thermophilic Anaerobic Digestors Fed by Cattle Manure
- 2011-2013: Coordinator, BAP, Master Thesis Support Program Projects, Determination of Multiple Acute Effects on Methanogenic Pathways of Antibiotic Wastewaters

- 2011-2013: Project Manager, Investigation of the Effects of Oxytetracycline on Microbial Population and Biogas Production Efficiency in Thermophilic Anaerobic Digesters Fed with Bovine Feces, ITU Scientific Research Project
- 2010-2021: Project Manager, Eastern Black Sea Region Ardeşen and amlıhemşin Scattered Settlements Wastewater Management and Pilot Area Application Using Renewable Energy Resources, ITU Scientific Research Project
- 2010-2012: Advisor, TÜBİTAK, Investigation of the effect of veterinary antibiotics on animal-free biodegradable airless digestion systems and investigation of the resistance genes created in the receiving environment, Turkish Scientific and Technology Research Council.
- 2008-2012: Co-consultant, TUBA, Assessment of Biodegradability Characteristics of Xenobiotics and Toxicity / Inhibition Effects on Mixed Microbial Culture, Turkish Academy of Sciences.
- 2010-2012: Coordinator, BAP, Master Thesis Support Program Projects, Disposal of Domestic Wastewater Treatment Plant Sludges in Anaerobic Digestion and Evaluation of the Effect of Different Operating Conditions on Microbial Communities
- 2009-2010: Executive, TUBITAK, Determination of Stimulation / Inhibition / Toxicity Effects of Anoxic and Anaerobic Biodegradable Capacities of Antibiotics and Mixed Microbial Culture, Turkish Scientific and Technology Research Council.
- 2009-2012: Project Manager, Evaluation of anoxic and anaerobic biodegradability properties of xenobiotics and their toxicity inhibition effects on mixed microbial culture, ITU Scientific Research Project
- 2008-2012: Project Manager, Determination of Microbiological Diversity in Activated Sludges with Different PHA Storage Capacity by Molecular Methods, ITU Scientific Research Project
- 2008-2011: Project Manager, Non-Linear Microbial Growth Dynamics and Its Effect on Wastewater Treatment Reactors, ITU Scientific Research Project
- 2008-2010: Advisor, TÜBİTAK, Detection of Some Indicator and Pathogenic Bacteria in Raw Poultry Meat and Minced Meat by Using Fluorescent In Situ Hybridization (FISH) Method, Turkish Scientific and Technology Research Council.
- 2007-2018: Project Manager, Determining the Effect of Toluene Inhibition in Sludge from an Anaerobic Reactor on Acetoclastic Methanogenic Activity and Composition of Acetoclastic Methanogens, ITU Scientific Research Project
- 2007-2013: Project Manager, Determination of Bioremediation Potentials of Marmara Sea Sediments, Oil Pollution Under Anoxic Conditions, ITU Scientific Research Project
- 2007-2010: Co-Operator, TUBITAK, Determination of the Interaction of Anaerobic Treatment of Industrial Wastewaters Containing Organic Solvents with System Dynamics by Using Molecular Methods, Turkish Scientific and Technology Research Council

- 2007-2008: Project Executive, ITU Research Fund, Bacterial Variety in Nitrification Systems of Sludge Age and Impact on Purification System Stability
- 2007-2008: Project Manager, Effect of Sludge Age on Bacterial Diversity and Treatment System Stability in Nitrification Systems, ITU Scientific Research Project
- 2006-2009: Project Leader, TUBITAK, Determination of Microbial Compostion and Anaerobic Petroleum Degradation Capacities of Anoxic Marine Sediments, Turkish Scientific and Technology Research Council.
- 2004-2007: Project Manager, Investigation of Inhibition Effect of Toxic Chemicals in Pharmaceutical Wastewater on Methane Archaea Species, ITU Scientific Research Project
- 2004-2006: Project Leader, ITU Research Fund, Identification of Microbial Species Active in Anaerobic Treatment of Sulphated Wastewaters by FISH Method and Optimization of Biogas Production
- 2004-2006: Coordinator, ITU Research Fund, Optimization of Biological Treatment Systems for Bioplastic Production, Recovery and Economic Analysis
- 2004-2004: Project Manager, Characterization of Methane Bacteria Effective in Anaerobic Treatment of Alcoholic Beverage Industry Wastewaters Using Fluorescent In-situ Hybridization (FISH) Technique, ITU Scientific Research Project
- 2004-2006: Project Leader, ITU Institute of Science and Technology, Characterization Of Active Methanogenic Species in Anaerobic Treatment Of Liquor Industry Wastewaters Using Fluorescence In Situ Hybridization (FISH) Technique
- 2003-2007: Project Manager, Hybrid System Powder Activated Carbon/Cross Flow Microfiltration Technology, Heavy Metal Removal and Modeling from Aqueous Environment, ITU Scientific Research Project
- 2003-2004: Project Manager, Determination of the Species and Numbers of Nitrifying Bacteria in Activated Sludge Systems Using Fluorescent In-Situ Hybridization Technique (FISH), ITU Scientific Research Project
- 2001-2004: Project Manager, Determination of the Optimum Operating Conditions of the Acid Phase in the Two-Phase Anaerobic Treatment of Whey Wastewater, ITU Scientific Research Project
- 2000-2003: Project Manager, TUBITAK, 16S rDNA Analysis of Methane Bacteria Effective in Anaerobic Treatment Systems, Turkish Scientific and Technology Research Council.
- 2000-2004: Project Manager, Characterization of Doninant Microorganisms in the Treatment of Pharmaceutical Wastewater, ITU Scientific Research Project
- 2000-2004: Project executive, ITU Institute of Science and Technology, Identification of Dominant Bacteria in Two-Phase Anaerobic Treatment of Drug Wastewater

- 1999-2001: Researcher, Boğaziçi University Research Fund, Determination of Composition, Number and Activities of Methane Producing Species in Anaerobic Treatment Processes
- 1997-2000: Researcher, TUBITAK-ITU-NATO CCMS, Ecosystem Modeling for Coastal Lagoons for Sustainable Management, Turkish Scientific and Technology Research Council.
- 1997-2004: Project Manager, Determination of Potential Loading Capacity of the System in Anaerobic Treatment Using Specific Methane Activity Test, ITU Scientific Research Project
- 1997-1999: Co-Operator, Boğaziçi University Research Funding, Determination of Optimum Operating Conditions in Two-Phase Anaerobic Increase of Wastewaters of Pharmaceutical Industry
- 1997-1999: Co-Director, Boğaziçi University Research Fund, Leakage Water Recirculation and Stabilization of Urban Depot Fields
- 1994-1996: Researcher, Preservation of Existing Potential Water Resources of the Republic of Turkey Ministry of Environment Istanbul: Protection of the Great Melen, Alaçalı, Yeşilçay and Istranca Basins, Hydrology and Eutrophication Control
- 1994-1996: Researcher, Turkish Republic of Turkey Ministry of Environment Preservation of Potential Water Resources in Istanbul: Alibeyköy Basin Conservation Plan; Mathematical Model, Hydrology and Eutrophication Control
- 1994-1996: Researcher, Republic of Turkey Ministry of Environment Preservation of Potential Water Resources in Istanbul: Sazlıdere Basin Conservation Plan, Hydrology and Eutrophication Control
- 1994-1996: Researcher, Ministry of Environment of Turkey Istanbul Preservation of Potential Water Resources: Darlık Basin Conservation Plan; Mathematical Model, Hydrology and Eutrophication Control
- 1994-1995: Researcher, Water Quality Monitoring Studies for İSKİ Riva (Black Sea) and Büyükçekmece (Marmara Sea) Discharges
- 1994-1995: Researcher, İSKİ Riva and Büyükçekmece Exit Sea Region Review
- 1994-1995: Researcher, Republic of Turkey Ministry of Environment Preservation of Potential Water Resources in Istanbul: Elmalı Basin Conservation Plan, Hydrology and Eutrophication Control
- 1994-1995: Researcher, Republic of Turkey Ministry of Environment Preservation of Potential Water Resources in Istanbul: Terkos Basin Conservation Plan; Mathematical Model, Hydrology and Eutrophication Control
- 1994-1995: Researcher, Republic of Turkey Ministry of Environment Preservation of Present Potential Water Resources in Istanbul: Büyükçekmece Lake Conservation Plan; Mathematical Model, Hydrology and Eutrophication Control

- 1994-1995: Researcher, Ministry of Environment of the Republic of Turkey, Sapanca Lake as a water source; Mathematical Model, Hydrology and Eutrophication Control
- 1993-1994: Project Advisor, Newcastle University, UK Treatment of wastewater containing high ammonia by using biodiscs
- 1993-1994: Project Advisor, Newcastle University, UK Treatment of leachate from the landfill in North Quarry
- 1993-1994: Project Leader, Newcastle University, UK Purification of leachate from battery storage area
- 1993-1994: Researcher, Preservation of Present Potential Water Resources of Istanbul Republic of Turkey Ministry of Environment; Ömerli Dam Lake Urgent Action Plan; Mathematical Model, Hydrology and Eutrophication Control
- 1991-1992: Project Advisor, Newcastle University, UK Comparison of performance of airless filters filled with porous and nonporous materials
- 1989-1990: Project Advisor, Newcastle University, UK Purification of industrial wastewater using an airless upstream filter
- 1989-1990: Project Advisor, Küçükçekmece Municipality, Istanbul Water Quality Management and Eutrophication Control in Drainage District of Küçükçekmece Lake Using Mathematical Model

## LIST OF ON GOING AND COMPLETED THESIS AS ADVISER

### Doctoral Theses

- Canan Ketre, "Rapid and Cost-effective Metagenomic Detection of Live Bacterial Pathogens in Water", ITU Institute of Natural and Applied Sciences, Department of Environmental Engineering, 2022-continue
- Canan Can Yarımtepe, "Volatile Fatty Acid Production Dynamics During The Acidification Of Pretreated Olive Mill Wastewater" ITU Institute of Natural and Applied Sciences, Department of Environmental Engineering, 2022-continue
- Gözde Özbayram, "Energetic Utilization of Lignocellulose-Rich Agricultural Wastes by Enriched Microorganisms from High Performance Natural and Engineered Systems", Istanbul Technical University, Institute of Natural and Applied Sciences, Department of Environmental Engineering, 10/2018
- Aiyoub Shahi, "Development of Effective Molecular Approach for Determination of the Biodegradation Potential of Petroleum Contaminated Soil", Istanbul Technical University, Institute of Natural and Applied Sciences, Department of Environmental Engineering, 9/2016

- Sevcan Aydin, "Combined Effects of Antibiotics on the Anaerobic Microbial Community Structure, Investigation of Metabolites and Antibiotic Resistance Genes", Institute of Science and Technology, 07/2015
- Zeynep Çetecioglu, "Evaluation of Anaerobic Biodegradability Characteristics of Antibiotics and Toxic / Inhibitory Effect on Mixed Microbial Culture", Institute of Science, 2011
- Mustafa Kolukirik, "Nutrient Enhanced Bioremediation of Petroleum Hydrocarbons in Anoxic Sediments from Marmara Sea", Science and Technology Institute, 09/2010
- Bertan Basak, "Comparative evaluation of microbial diversity and PHA storage ability under activated sludge under different operating conditions", Institute of Science and Technology, 01/2010
- Coşkun Aydin, "Nickel removal from aqueous media by hybrid microfiltration technology", Institute of Science, 2006
- Yalçın Öktem, "Comparison of system performances in single and two stage anaerobic treatment of drug wastewater", Institute of Natural and Applied Sciences, 2003

### **MSc Theses**

- Aslıhan Başak Dağ, Identification of Antibiotic Resistance Genes and Metabolites in Oil-Contaminated Sites, Detection of Antibiotic-Resistant Organisms, and Removal of Resistant Pathogens.", 2024-continue
- Firdevs Ceylan, Development of Biological Formulations for the Removal of Microplastics in Aquatic Ecosystems.", 2024-continue
- Cansu Günes, Life Cycle Analysis of Electric Arc Furnace Flue Dust Waste (Waelz Process )of Marzinc Recycling Plant Company, 2023- continue
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## WORKSHOPS

- Workshop on Sustainable Land Use Management and Reconstruction of Destroyed Ecosystem in the Arctic Region, TerrArctic Mega Grant Project supported by Ministry of Science and Higher Education of the Russian Federation, 2024, Tyumen University, 12-25 July 2024, Russian Federation.

- Workshop on CarboxAiD-Valorisation of Agricultural Residues via Anaerobic Digestion: From Biogas to Carboxylates, ERANET-LAC, Instituto Federal de Goiás IFG Campus Goiania, 22-27 September 2022, Brazil
- Workshop on Innovative Wastewater Treatment and Resource Recovery Technologies, 11.05.2018 - 12.05.2018, IWA, Istanbul
- Workshop on Microbial Ecology and Technology of Anaerobic Degradation ", 08.09.2014 - 09.09.2014, Turkish-German Joint Project, Istanbul
- Workshop on Energy Efficient Technologies: Water 2020, 2014, Istanbul
- Workshop on Microbial Ecology and Technology of Anaerobic Degradation ", 08.09.2014 - 09.09.2014, Istanbul
- Identification and Treatment of Environmental Risks, Solid Liquids and Gas Wastes, Trainings on Pollution Prevention Studies, 1995-2014
- Denaturated Gradient Gel Electrophoresis (DGGE) Applied Training Course, 14.10.2012 - 14.10.2012, Istanbul
- Fluorescent Onsite Hybridization (FISH) Applied Training Course, 13.10.2012 - 13.10.2012, Istanbul
- Bioinformatics Practical Training Course, 07.10.2012 - 07.10.2012, Istanbul
- Cloning and Sequence Analysis Applied Training Course, 06.10.2012 - 06.10.2012, Istanbul
- Western Blotting Applied Training Course, 08.09.2012 - 09.09.2012, Istanbul
- 2-D SDS-PAGE Applied Training Course, 06.09.2012 - 07.09.2012, Istanbul
- RNA Detection and Counting with Reverse Transcription (RT) and Real-Time PCR Applied Training Course, 17.07.2012 - 17.07.2012, Istanbul
- DNA Detection and Counting with Real-Time PCR Applied Training Course, 16.07.2012, Istanbul
- RNA Based Molecular Methods Applied Training Course, 26-27.09.2011, Istanbul
- DNA Based Molecular Methods Applied Training Course, 24-25.09.2011, Istanbul
- RNA Based Molecular Methods Applied Training Course, 04-05 2011, Istanbul
- DNA Based Molecular Methods Applied Training Course, 02-03 2011, Istanbul
- ATHENS Program - Molecular Tools to Study Microbial Ecology, 15-16.11.2010, Istanbul
- ATHENS Program - Molecular Tools to Study Microbial Ecology, 16-20.11.2009, Istanbul
- ATHENS Program - Molecular Tools to Study Microbial Ecology, 17-21.11.2008, Istanbul
- Fluorescent On-Site Hybridization (FISH) Applications in Biotechnology Training Course, 18.06.2008 - 20.06.2008, Istanbul
- Polymerase Chain Reaction (PCR), Cloning and Phylogenetic Analysis Applications in Biotechnology Training Course, 16.06.2008 - 17.06.2008, Istanbul

- Biotechnology Polymerase Chain Reaction (PCR) - Real Time Polymerase Chain Reaction (Q-PCR) Applications Training Course, 30.01.2008 - 31.01.2008, Istanbul
- Biotechnology Polymerase Chain Reaction (PCR) - Denaturated Gradient Gel Electrophoresis (DGGE) Applications Training Course, 28.01.2008 - 29.01.2008, Istanbul
- Fluorescent On-Site Hybridization (FISH) Applications in Biotechnology Training Course, 25.06.2007 - 27.06.2007, Istanbul
- Fluorescent In situ Hybridization (FISH) Applications in Biotechnology Training Course, 20.06.2007 - 22.06.2007, Istanbul

### **COURSES GIVEN TODAY**

- Water Quality
- Introduction to Environmental Engineering
- Environmental Basin Planning
- Principles of Environment Modeling
- Principles of Environmental Modeling
- Fundamentals of Anaerobic Treatment
- Anaerobic Treatment Processes
- Design and Operation of Anaerobic Treatment Processes
- Application of Membrane Technologies in Water and Wastewater Treatment
- Biological Processes
- Experimental Characterization of Biological Wastewater Treatment
- Fundamentals of Environmental Biotechnology
- Biochemical Conversion of Anaerobic Treatment Processes
- Modern Scientific Tools in Biotechnology
- Microbial Genetics in environmental Engineering
- Biofilm Theory and Practice

### **INTERNATIONAL and NATIONAL PATENTS**

#### **1. INTERNATIONAL PATENTS**

- **INVENTION TITLE: METHOD FOR IMPROVING THE BIOGAS POTENTIAL OF ANAEROBIC DIGESTIONS WITH RUMEN FUNGI**

File No. : 1490PCT10ES

PCT Application No: PCT/TR2016/050550

Spain Application No: 201990040

Approved Date: 27. 02.2021

- **INVENTION TITLE: A METHOD FOR IMPROVEMENT OF METHANE PRODUCTION FROM MICROALGAE**

File No. : 1490PCT11ES

PCT Application No : PCT/TR2016/050558

Spain Application No : 201990041

Approved Date :27. 02.2021

## 2. NATIONAL PATENTS

- **INVENTION TITLE: AN ECONOMIC METHOD TO MAINTAIN OIL-CONTAMINATED SOILS TO BE SUBJECTED TO BIOLOGICAL IMPROVEMENT"**

Application no: 2019/07304

PCT no: PCT/TR2017/050087

Patent Registration Date:03.01.2023

Patent Certificate Issue Date

- **INVENTION TITLE: DEVELOPMENT OF A METHOD FOR ECONOMIC IMPROVEMENT OF BIOMETHANE PRODUCTION FROM MACROALGES USING MICROBIOLOGICAL COCKTAIL (ANOP) CONTAINING RUMEN FUNGUS**

On 30/12/2016, the file number 36576.01 and 2016/20350 completed the application process and was patented as of 06.03.2019

- **INVENTION TITLE: HOSPITAL INFECTION (HI) FACTOR SCREENING KIT**

Health Implementation Notification (SUT) Supplement 2 APPENDIX-2 / B List of Operation

Code Application 908730

Application Office: Ankara Patent Office

Application Date: 2019

ENGY Environment and Energy Technologies Biotechnology R&D Company,

BUN Technopark, Istanbul Turkey

- **INVENTION TITLE: METHOD FOR BIOREMEDIATION OF PETROLEUM CONTAMINATED SOILS**

File No: PCT/TR2017/050087

Application Date: 06.03.2017

Approved Date: 13.09.2018

- **INVENTION TITLE: GROUP A BETA-HEMOLYTIC STREPTOCOCCUS PYOGENES DNA ISOLATION AND Q-PCR DETECTION KIT**

Application Office: Ankara Patent Office

Application Date: 2012

Patent Registration Date: November 26, 2016

Patent No: 2012/13624

ENGY Environment and Energy Technologies Biotechnology R&D Company

BÜN Technopark

Tenancy Brochure and User's Guide

### 3. PATENTED GENE SEQUENCES

A total of 332 non-cultured microorganisms have been identified in our studies and registered with international GenBankers ([www.ebi.ac.uk](http://www.ebi.ac.uk)):

- ✚ Laboratory-scale anaerobic consecutive cut-off reactant-specific 21 bacterial 16S rRNA gene sequences: Between FR836435-FR836454 and FR836458
- ✚ The laboratory-scale anaerobic consecutive cut-off reactant-specific 15 archaeal 16S rRNA gene sequence: Between FR836460-FR836465 and FR836467-FR836475
- ✚ 87 bacterial 16S rRNA gene sequences specific to the Marmara Sea:
  - ✚ AM998370.1 GI: 187936525 to AM998334.1 GI: 187936489
  - ✚ AM991021.1 GI: 187272393 to AM991019.1 GI: 187269279
  - ✚ AM991018.1 GI: 187268906 to AM990998.1 GI: 187268886
  - ✚ Between AM980579.1 GI: 172052209 and AM980553.1 GI: 172052183
- ✚ 180 archaeal 16S rRNA gene sequence specific to the Marmara Sea:
  - ✚ AM998451.1 GI: 188032345 to AM998376.1 GI: 188032270
  - ✚ AM998475.1 GI: 188026996 to AM998452.1 GI: 188026973
  - ✚ AM992726.1 GI: 187782702 to AM992675.1 GI: 187782651
  - ✚ Between AM980607.1 GI: 172052237 and AM980580.1 GI: 172052210
- ✚ Species 8 alkylsuccinate synthase gene (hydrocarbon degradation) to the Sea of Marmara: Between ADF97476.1 GI: 295314240 and ADF97469.1 GI: 295314226
- ✚ 10 benzylsuccinate synthase specific (hydrocarbon degradation) specific to the Marmara Sea:
  - ✚ ADF36107.1 between GI: 294768284 and ADF36098.1 GI: 294768266
- ✚ 11 hydrazine oxidizing protein gene specific to the Sea of Marmara (ANAMMOX):
  - ✚ Between ADF36116.1 GI: 294768302 and ADF36108.1 GI: 294768286
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