

Prof. Dr. Orhan İNCE

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

**Prof. Dr. Orhan İnce** is a distinguished faculty member of the Department of Environmental Engineering at Istanbul Technical University (ITU). He is the co-founder of **ENGY Environment and Energy Technologies Inc.**, established in 2011 at Boğaziçi University's BUN Technopark, Istanbul, Türkiye, where he currently serves as **Chairman of the Board** and **Head of the Research and Development Division**.

**Prof. İnce** received his BSc in Environmental Engineering from ITU's Faculty of Civil Engineering in 1986, and was awarded the title of Senior Engineer in 1989 by the same department. He pursued his doctoral studies at Newcastle upon Tyne University, United Kingdom, earning his PhD in Environmental Engineering in 1994. He was appointed **Associate Professor** in 1995 and promoted to **Full Professor** in 2004. Since then, he has continued his academic career as a full-time professor at ITU.

His international academic engagements include extensive research and development activities at leading universities in the United States, notably the **University of California-Berkeley, University of Texas at Austin, University of Wisconsin-Madison, Purdue University, and Iowa State University**. At these institutions, Prof. İnce actively contributed both to advanced scientific research and to engineering applications conducted at their affiliated **field stations**, where multidisciplinary studies integrating environmental engineering and biotechnology were carried out.

Prof. İnce has also held a range of significant academic and administrative positions: **Advisor to the Rector of ITU, Founding President of the ITU–Montana State University International Joint BSc Program in Bioengineering, Deputy Head of the Department of**

**Environmental Engineering, and Coordinator of the Graduate Program in Environmental Biotechnology** at ITU. In the professional sphere, he served as **Strategic Director & Advisor** at **ELC Group Royal HaskoningDHV** between 2017 and 2018.

With a career that spans academia, industry, and international collaboration, Prof. İnce has established himself as a leading scholar and innovator in environmental engineering, biotechnology, and sustainable energy technologies.

Prof. İnce has recently completed the **TerrArctic Mega Grant Project**, supported by the Ministry of Science and Higher Education of the Russian Federation, where he served as **Scientific Director and Research Leader**. Prof. İnce has coordinated large-scale, interdisciplinary research initiatives addressing the impacts of climate change and sustainable land use in the Arctic region. Building on this international achievement, Prof. İnce has now been appointed as **Scientific Advisor** to the strategic research project titled *“Uncovering the Energy Potential in the Arctic”*, initiated by the Turkish Energy, Nuclear and Mineral Research Organization (TENMAK), which operates under the Ministry of Energy and Natural Resources of the Republic of Türkiye. These appointments underscore both the **scientific significance** of his leadership in addressing critical challenges related to the Arctic region and the strategic importance of his role in advancing Türkiye’s national priorities in energy research and sustainable resource management. He also serves as the **Chair of the Microbial Ecology Group (MEG)**, a joint initiative of Istanbul Technical University and Boğaziçi University ([www.meg.itu.edu.tr](http://www.meg.itu.edu.tr)).

His fields of expertise and project leadership include, but are not limited to:

- Waste-to-Energy Technologies (Anaerobic Digestion/Biogas, Incineration, Gasification, Pyrolysis)
- Waste-to-Sustainable Chemicals (Green Products and Chemicals).
- Environmental and Energy Investment Consultancy
- Protection of Natural Ecosystems
- Valorization of Agricultural Wastes into Green Products and Chemicals
- Water and Wastewater Management
- Remediation and Bioremediation of Contaminated Sites
- Integrated Watershed Management
- Microbial Ecology, Molecular Biology, and Metagenomics
- Hazardous Waste and Sludge Management
- Environmental Biotechnology
- Industrial Pollution and Control

- Preparation of Environmental Master Plans
- Seawater Treatment and Desalination
- Environmental Modelling
- Design, Control, and Operation of Treatment Systems
- Odor Control and Removal
- Flood Risk Assessment and Modelling
- Environmental Impact Assessment and Risk Analysis
- Emergency Response Planning
- Infrastructure Design and Planning
- Carbon Inventory and Carbon Footprint Analysis
- Development and Management of R&D Projects in Environment, Energy, and Biotechnology
- Environmental Legislation and Regulatory Compliance Training
- Environmental Infrastructure and Energy Facility Audits
- Laboratory Establishment and Accreditation (ISO/IEC 17025)
- Turnkey Environmental Infrastructure Projects
- Molecular Identification of Microorganisms and Pathogens in Water, Wastewater, Soil, Air, Sediments, and Sludge
- Development of Rapid Detection Kits (Environmental, Health, Food, and Veterinary Applications)

**Prof. İnce** has authored more than **400 scientific articles, papers, and technical reports**, which have received over **6,600 citations**. His scholarly impact is reflected by an **h-index of 49** and an **i10-index of 111** (Google Scholar). He has recently completed two TÜBİTAK-funded national research projects and led four international collaborations, including the **Russian SHEC TerrArctic Mega Grant, Horizon 2020, ERANET-LAC, TerrArctic Mega Grand** and **COST** projects.

To date, **Prof. İnce** holds **seven granted patents** (two international and five national), and **nine additional international patent applications** are under evaluation. Furthermore, **332 uncultured microorganisms** identified under his leadership have been deposited in international gene banks ([www.ebi.ac.uk](http://www.ebi.ac.uk)).

He has been recognized among the **Top 2% of the World's Most Influential Scientists** for five consecutive years (2019–2025), according to a global citation-based ranking developed by Stanford University researchers and published by Elsevier: <https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/3>

**Prof. İnce** has also served as an environmental and energy consultant for prominent companies including **Unilever Türkiye (Algida, Unipro, Lipton, Detergent Divisions), Istanbul Kuyumcukent Gold Processing Complex, KOÇ Holding, Eczacıbaşı Holding, Koloğlu Holding (Kolin Construction), Bekay Construction, Karbosan, IDOSB, GEBKİM, and Çanakkale Port**, among others. These engagements have focused on environmental management, infrastructure planning, and compliance solutions.

Over the past decade, **Prof. İnce** has organized **17 national and 3 international applied training programs, symposia, and technical meetings** in the fields of environmental and energy technologies, as well as biotechnology (especially advanced molecular techniques). These events have hosted over **1,100 researchers and engineers** from **22 universities, 15 countries**, and the private sector. Through these efforts, he has pioneered the establishment of a robust national and international platform for scientific knowledge exchange and capacity building.

As the founder of **ENGY**, Prof. Dr. Orhan İnce envisions delivering advanced consultancy and engineering solutions, while developing innovative R&D projects in environmental, energy, and biotechnology domains. His mission is driven by a commitment to scientific excellence, sustainable development, and interdisciplinary collaboration—supported by the experience of top-tier experts, the resources of leading academic institutions, and a dynamic network of national and international stakeholders. With over three decades of expertise in research and project leadership, Prof. İnce continues to enhance the scientific and practical impact of his work on a global scale.

## 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 Advisor, Revealing the Energy Potential in the Arctic, Ministry of Energy and Natural Resources of the Republic of Turkey, Turkish Energy, Nuclear and Mining Research Council (TENMAK), 2025

- Scientific Director and Leader, TerrArctic Mega Grant Project, Ministry of Science and Higher Education of the Russian Federation, 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, 2024, 2025
- Executive Committee Member (2019-Present) HOROZON 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

- 2025-: Project Coordinator and Manager, Mechanistic Insights into Green Co-Valorization of Agricultural Straw Waste: Integrated Production of Biogas, Volatile Fatty Acids, and High-Performance Functional Films, AgroVal-Film (Agricultural Valorization - Functional Integrated Lignocellulose Materials), Prof Shuaiming He, Central South University of Forestry and Technology, Prof Orhan Ince Istanbul Technical University, NSFC-TUBİTAK Joint Research Project (under review).
- 2025-: Scientific Advisor, Nea Apinajé – Agroecology With Training For Young People And Women From Traditional Communities In Goiás, Brazil, N° 01/2025 - Support for Study Centers in Agroecology and Organic Production (under review).
- 2025-: Scientific Advisor, Revealing the Energy Potential in the Arctic, Ministry of Energy and Natural Resources of the Republic of Turkey, Turkish Energy, Nuclear and Mining Research Council (TENMAK).
- 2024-: Scientific Director and Research 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-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
- 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)

- 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 Lignosellulosic 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 Lignosellulosic 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 Lignolitic 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 collaboration)
- 2019- 2022: Researcher, Safe And Sustainable Solutions For The Integrated Use Of Non-Conventional Water Resources In The Mediterranean Agricultural Sector, HOROZON 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 Assement 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 ALGİDA 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, TUBİTAK, 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 Sharpsnout 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 Çamlıhemşin 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, TUBİTAK, 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, TUBİTAK, 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 İstranca 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, continue
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- 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

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- 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
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- Yalçın Öktem, "Comparison of system performances in single and two stage anaerobic treatment of drug wastewater", Institute of Natural and Applied Sciences, 2003

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- 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
- Mert Özkumit, Production Of High Omega3 Contained Microalgae From Food Waste Focus On Algal Diversity By Oxford Nanopore Minion Sequencing And Economic Analysis, 2023- continue
- Yağmur Bilgin Pilcioğlu, "Sustainable Environmental Management in the Metal Industry Sector: Reducing Carbon Emissions within the Framework of Life Cycle and Zero Waste Approaches.", 2024
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- Kübra Doymuş, "Identification and Patenting of Possible Traces of Ancient Life in the Ancient Lake Environment in Mars Jezero Crater by Using MinION Technique from Next Generation Sequencing Platforms at the Molecular Level in Burdur Salda Lake", Istanbul Technical University, Institute of Natural and Applied Sciences, Department of Environmental Biotechnology, 2023
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- Mustafa Kolukırk, "Determination of arggly popula- tion dynamics in real-scale upflow anaerobic reactors refining wastewater from alcoholic beverage industry by fluorescence in situ hybridization technique", Institute of Natural and Applied Sciences, 2004
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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**

- 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

- **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, BÜN 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

### 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
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  - ✚ Between ADF36116.1 GI: 294768302 and ADF36108.1 GI: 294768286
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## INTERNATIONAL ORAL PRESENTATIONS

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**CONSULTANCIES AND ENGINEERING PROJECTS COMPLETED**

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