

PERSONAL INFORMATION SUKRIYE CELIKKOL-AYDIN

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EDUCATION

2007 – 2013 PhD., “Rapid Detection and Identification of Bacterial Pathogens in Drinking Water Sources using DNA-Based Methods and Immunoimmobilization Technology”

Bogazici University, Institute of Environmental Sciences, Environmental Sciences

Supervisor: Prof. Bahar INCE

Co-Supervisor: Prof. Recep AVCI

2005 – 2007 MSc., “Changes in Archaeal and Bacterial 16S rRNA Gene Sequences in a Full-Scale Anaerobic Reactor”

Istanbul Technical University, Institute of Science and Technology,
Environmental Engineering Department, Environmental Biotechnology

Supervisor: Prof. Orhan INCE

2002 – 2007 BSc., “Archaeal and Bacterial Diversity within a Full-Scale Anaerobic Reactor via DGGE Analysis”

Istanbul Technical University, Faculty of Science and Letters, Molecular Biology and Genetics (Double Major Programme)

Supervisor: Prof. Candan TAMERLER

2001 – 2005 BSc., “Use of Fluorescent *in situ* Hybridization (FISH) Technique for the Identification of the Microbial Diversity in an Anaerobic Reactor Treating Pulp and Paper Mills Effluents”

Istanbul Technical University, Faculty of Civil Engineering, Environmental Engineering

Supervisor: Prof. Orhan INCE

AWARDS**2010-2011 TUBITAK 2214 International Research Fellowship**

PhD students registered in PhD programmes at universities or research centres in Turkey are supported by "The Scientific and Technological Research Council of Turkey" (TUBITAK) to perform research abroad.

I conducted immunoimmobilization experiments of my PhD. thesis in Montana State University, Department of Physics, Imaging and Chemical Analysis Laboratory between October 2010-September 2011.

2007-2012 TUBITAK 2211 National Scholarship for PhD Students

The Scientific and Technological Research Council of Turkey (TUBITAK) provides financial support for students pursuing a PhD in a university in Turkey.

PROFESSIONAL EXPERIENCE**2010-Present Research and teaching assistant**

Bogazici University, Institute of Environmental Sciences

Oct. 2010- Sep. 2011 Visiting scholar

Montana State University, Department of Physics, Imaging and Chemical Analysis Laboratory

PROJECTS**2013- Effect of organic loading rate on microbial diversity in continuous anaerobic digestors fed with antibiotic-contaminated manure**

Principle Investigator: Prof. Bahar INCE

Funding: Bogazici University Scintific Research Fund

2012- Analyses of pathanogenic bacteria in water resources and wastewater by DNA-based methods and immunoimmobilization

Principle Investigator: Prof. Bahar INCE

Funding: Bogazici University Scintific Research Fund

- 2010-2011 Determination of metabolic processes and active microbial species involved in petroleum degradation in anoxic Marmara Sea sediments using RNA-based methods
Principle Investigator: Prof. Bahar INCE
Funding: The Scientific and Technological Research Council of Turkey
- 2006-2009 Determination of microbial composition and their anaerobic petroleum degradation capacities in anoxic marine sediments
Principle Investigator: Prof. Orhan INCE
Funding: The Scientific and Technological Research Council of Turkey
- 2004-2005 Identification of the microbial species involved in the anaerobic treatment of the sulfate-containing wastewaters and optimization of biogas production
Principle Investigator: Prof. Orhan INCE
Funding: Istanbul Technical University, Scientific Research Fund

PUBLICATIONS

PEER REVIEWED JOURNALS

- B. Basak, O. Ince, B. Ince, Z. Cetecioglu, S. Celikkol, M. Kolukirik, "Effect of Nitrogen Deficiency during SBR Operation on PHA Storage and Microbial Diversity", *Environmental Technology*, Vol. 33, No. 16, 2012, s. 1827-1837
- B. Ince, Z. Cetecioglu, S. Celikkol, O. Ince, "The microbial diversity, methane production, operational routine of an anaerobic reactor treating maize processing wastewater", *Water Practice and Technology*, Vol. 2, No. 2, 2012
- M. Kolukirik, O. Ince, Z. Cetecioglu, S. Celikkol, B. K. Ince, "Local and Seasonal Changes in Microbial Diversity of the Marmara Sea Sediments", *Marine Pollution Bulletin*, Vol. 11, No. 62, 11/2011, s. 2384-2394
- S. Celikkol, Z. Suo, R.Avci, "LPS-mediated immunoimmobilization of *E.coli* O157:H7" in preparation

INTERNATIONAL CONFERENCE PROCEEDINGS

S. Celikkol, O. Ince, I.H. Miraloğlu, B. Ince. 2013. Threat to human and environment: Pathogenic bacteria in domestic wastewater sludges revealed by PCR. 2nd Water Research Conference, 20-23 January 2013, Singapore (Poster)

S. Celikkol, O. Ince, B. Ince. 2012. Bacterial community analysis of drinking water reservoirs in Istanbul using molecular tools. IWA World Water Congress & Exhibition, 16-21 September 2012, Busan, South Korea.

R. Avci, Z. Suo, S. Celikkol, M. Deliorman, K. Lucas, L. Loetterle, X. Yang, I.B. Beech, J.A. Sunner, J.M. Suffita. 2012 Rapid anaerobic degradation of carbon steel exposed to *Desulfoglaeba alkanexedens*. National Association of Corrosion Engineers-NACE Corrosion 2012, 13-15 March 2012, Salt Lake City, Utah, USA

B. Ince, Z. Cetecioglu, S. Celikkol, O. Ince, "The microbial diversity, methane production, operational routine of an anaerobic reactor treating maize processing wastewater", 06/2011, 8th IWA International Symposium on Waste Management Problems in Agro-I, 22.06.2011 - 24.06.2011, Cesme-Turkey,

M. Kolukirik, O. Ince, Z. Cetecioglu, S. Celikkol and B.K. Ince. 2008. Microbial ecology of anoxic marmara sea sediments with a high potential to degrade petroleum hydrocarbons. 12th International Symposium on Microbial Ecology- ISME 12, 17-22 August 2008, Cairns-Australia.

S., Celikkol, O., Ince, M., Kolukirik, Z., Cetecioglu, and B.K., Ince. 2008. Effect of a system shut-down on the microbial community in a full-scale anaerobic contact reactor. 12th International Symposium on Microbial Ecology- ISME 12, 17-22 August 2008, Cairns-Australia.

B.K. Ince, Z. Çetecioglu, M. Kolukirik, B. Açiksöz, H. Bermek, Ş. Çelikkol, O. Ince. 2007. Microbial Diversity within the Anoxic Sediment from a Highly Polluted Bay, II. International Conference on Environmental, Industrial and Applied Microbiology- BioMicroWorld-II, 28 November-1 December 2007, p. 223, Sevilla-Spain.

INTERNATIONAL BOOK CHAPTER

B.K. Ince, N. Ayman Öz, G. Türker, Ş. Çelikkol, O. Ince, A.Mendez-Vilas (Ed.), "Microbial ecology of anaerobic reactors for treatment of alcohol industry wastewaters: a review In: Current Research, Technology and Education Topics in Applied Microbiology and Microbial Biotechnology", 2010, Badajoz, Spain: Formatex p. 988-999

Z.Suo, M.Deliorman, S. Celikkol, X.Yang, R. Avci, Y. Kumar (Ed.), "Immunoimmobilization of Living Salmonella for Fundamental Studies and Biosensor Applications In: Salmonella - A Divesified Superbug" 2012, Rijeka, Croatia: InTech, p. 497-522

NATIONAL BOOK CHAPTER

O. İnce, Z. Çetecioglu, N. Ayman Öz, Ş. Çelikkol, B. Kasapgil İnce, N. Aran (Ed.), "Waste Management and Reuse of By-products in Food Industry In: Food Biotechnology", 5/2010, ISBN: 978-605-395-299-2, Istanbul: Nobel Publishing (in Turkish)

SUBMITTED GENE SEQUENCES

AM980553-980607,
AM990998-991021,
AM992675-992726,
AM998334-998370,
AM998376-998475

268 gene sequences.

ORGANIZED WORKSHOPS**INTERNATIONAL WORKSHOPS**

- Nov. 17 – 21, 2009 Advanced Technology Higher Education Network– Socrates (ATHENS) Programme (ITU) - Molecular Tools to Study Microbial Ecology, Istanbul-Turkey
- Mar. 16 – 20, 2009 ATHENS Programme (ITU) - Molecular Tools to Study Microbial Ecology, Istanbul-Turkey
- Nov. 16 – 20, 2008 ATHENS Programme (ITU) - Molecular Tools to Study Microbial Ecology, Istanbul-Turkey

NATIONAL WORKSHOPS

- Oct. 13, 2012 Fluorescent *in situ* Hybridization (FISH) -Theoretical Background and Laboratory Applications, Istanbul-Turkey
- Jun. 16 – 17, 2008 Polymerase Chain Reactions (PCR), Cloning, Sequencing and Phylogenetic Analysis - Theoretical Background and Laboratory Applications in the field of Biotechnology, Istanbul- Turkey
- Jun. 18 – 20, 2008 Fluorescent *in situ* Hybridization (FISH) - Theoretical Background and Laboratory Applications in the field of Biotechnology, Istanbul-Turkey
- Jan. 30 – 31, 2008 Polymerase Chain Reactions (PCR) and Denaturing Gradient Gel Electrophoresis (DGGE) - Theoretical Background and Laboratory Applications in the field of Biotechnology, Istanbul-Turkey

- Jan. 28 – 29, 2008 Polymerase Chain Reactions (PCR) and Quantitative Real Time PCR - Theoretical Background and Laboratory Applications in the field of Biotechnology, Istanbul-Turkey
- Jun. 25 – 27, 2007 Fluorescent *in situ* Hybridization (FISH) - Theoretical Background and Laboratory Applications in the field of Biotechnology, Istanbul-Turkey
- Jun. 20 – 22, 2007 Fluorescent *in situ* Hybridization (FISH) - Theoretical Background and Laboratory Applications in the field of Biotechnology, Istanbul-Turkey

TEACHING EXPERIENCE

- 2013 Fall Term Instructor
Environmental Microbiology
- 2010-present Teaching assistant
Principles of Environmental Pollution
- 2010-present Teaching assistant
Fundamentals of Anaerobic Digestion Processes
- 2010-present Teaching assistant
Environmental Microbiology
- 2010-2012 Teaching assistant
Chemistry for Environmental Science & Engineering

MEMBERSHIP

International Water Association

Chamber of Environmental Engineers, Turkey