

CV – Erkin Gözdereliler

Name: Erkin Gözdereliler
Address: Frederiksborgvej 399, 4000
Roskilde, Denmark
Education: BS. in Biology Teaching, Marmara University, 2006
M.Sc. in Environmental Sciences, Boğaziçi University, 2008
Ph.D. in Environmental Microbiology, The Technical University of Denmark, 2012
Contact: E-mail: erg@envs.au.dk
Phone: (+45) 91696532
Full profile: <https://www.linkedin.com/in/erkin-gozdereliler-7ab85219/>



Employment record

Year	Organisation	Position
2024-present	Aarhus University, Department of Environmental Science, Environmental Microbiology	Postdoctoral Researcher
2014-2024	NG Biotechnology Ltd.	Founder, R&D Manager.
2013-2014	University of Copenhagen, Center for Permafrost (CENPERM), Denmark.	Postdoctoral Researcher.
2012-2013	German Research Center for Environmental Health GmbH, Institute of Groundwater Ecology, Germany.	Postdoctoral Researcher.
2010	Ghent University, Faculty of Bioscience Engineering, Laboratory of Microbial Ecology and Technology (LabMET), Belgium.	Visiting Researcher.
2009-2012	Geological Survey of Denmark and Greenland (GEUS), Department of Geochemistry, Denmark.	Ph.D. Scholarship.
2007-2009	Boğaziçi University, Institute of Environmental Sciences, Turkey.	Researcher.

Key Competencies

Scientific skills: Bacterial diversity, taxonomy and genomics; Microbial ecology; Environmental biotechnology; Microbial biodegradation; Fermentation technologies and bioreactor design; Aseptic production processes; Immunological assays, ELISA; DNA&RNA Analysis; Analytical chemistry, HPLC; Cytogenetic Techniques.

Administration skills: More than 15 years of R&D experience; 10 years of entrepreneurship experience in biotech industry; Management of several R&D and SME projects; International networking; Hands-on experience with patenting and commercialization of microbial products; Product management; Open innovation incl. establishment of cooperate and academic partnerships.

Involvement in selected research projects

Project Manager&LEAR. MICRObial REmediation of Agricultural Land (MICROREAL). EU Horizon 2020 Framework SME Instrument Programme. 2019-2020. *NG Biotech Ltd.*

Project Manager&LEAR. Development and industrial production of antagonist microorganisms against fire blight disease in fruit trees. Funded by Turkish Research Council under the SME programme. 2018. *NG Biotech Ltd.*

Project Manager&LEAR. Pesticide degradation by microorganisms in agricultural lands. Funded by Turkish Research Council under the SME programme. 2016. *NG Biotech Ltd.*

Project Manager&LEAR. Development and production of bacterial cultures for post-harvest food protection. Funded by Turkish Ministry of Industry and Trade Small Industry Development Center. 2015. *NG Biotech Ltd.*

Full time researcher. Microbial community on the Greenland ice sheet as a possible factor affecting the physical behaviour of the ice sheet. Funded by Danish Research Council. 2013-2014. *CENPERM.*

Ph.D. fellow. EC Marie Curie Initial Training Network GOODWATER (Research Training for Good European Ground Water Resources), Unravelling the microbiological limitations for degradation of low pesticide concentration in aquifers. 2009-2012. *The Geological Survey of Denmark and Greenland (GEUS)*.

Full time researcher. Determination of interaction between anaerobic treatment of organic solvent containing industrial wastewater using molecular tools, funded by The Scientific and Research Council of Turkey. 2007-2009 *Boğaziçi University*.

M.Sc. Fellow. Assessing effect of organic solvent/solvent mixtures on methanogenic and non-methanogenic activity in anaerobic sludge. Funded by BOUN Research Projects Foundation. 2007-2009. *Boğaziçi University*.

Selected Publications in international peer-reviewed journals

Cameron, K.A., Stibal, M., Hawkings, J.R., Mikkelsen, A.B., Telling, J., Kohler, T.J., **Gözdereliler, E.**, Zarsky, J.D., Wadham, J.L., Jacobsen C.S. 2017. Meltwater export of prokaryotic cells from the Greenland ice sheet. *Environ. Microbiol.* 19(2): 524-534.

Cameron K.A., Stibal, M., Zarsky, J.D., **Gözdereliler, E.**, Schostag, M., Jacobsen, C.S. 2016. Supraglacial bacterial community structures vary across the Greenland ice sheet. *FEMS Microbiol Ecol.* 92(2).

Stibal, M., **Gözdereliler, E.**, Cameron, K., Box, J.E., Schostag, M., Zarsky, J., Edwards, A., Irvine-Fynn, T., Jacobsen, C. 2015. Microbial abundance in surface ice on the Greenland Ice Sheet. *Frontiers in Microbiology* 6: 225.

Gözdereliler E*, Qiu S*, Sørensen SR, Elsner M. 2014. Small $^{13}\text{C}/^{12}\text{C}$ Fractionation Contrasts with Large Enantiomer Fractionation in Aerobic Biodegradation of Phenoxy Acids. *Environmental Science and Technology*, 48 (10): 5501–5511. *joint first-authorship.

Gözdereliler, E., Boon, N., Aamand, J., DeRoy K., Granitsiotis, MS., Albrechtsen, HJ., Sørensen, S.R. 2013. Comparing Metabolic Functionalities, Community Structures, and Dynamics of Herbicide-Degrading Communities Cultivated with Different Substrate Concentrations. *Appl. Environ. Microbiol.* 79: 367-375.

Nielsen TK, Xu Z, **Gözdereliler E**, Aamand J, Hansen LH, Sørensen SR. 2013. Novel Insight into the Genetic Context of the cadAB Genes from a 4-chloro-2-methylphenoxyacetic Acid-Degrading *Sphingomonas*. *PLoS ONE* 8(12): e83346.

Öz NA, İnce O, **Gözdereliler E**, Türker G, İnce BK. 2009. Methanogenic Archaea dynamics in an anaerobic reactor treating toluene-containing synthetic wastewater. *New Biotechnology.* 25: 275-276.

Patents

A microbial fertilizer for decontamination of phenoxy acid herbicides from soil and water bodies, Turkish patent (Appl. No. 2017/07961), Filed under the Patent Cooperation Treaty (PCT) (no. PCT/TR2018/050275), Inventor.

A biopreparate for post-harvest protection of vegetable and fruits, (Patent pending, *Submitted January 2018*), Turkish patent (App. No. 2018/00819), Inventor.

Awards and Honours:

National winner/International finalist of Global Cleantech Innovation Programme (GCIP) of United Nations Industrial Development Organization (UNIDO) in 2016 with the project “Microbial Remediation of Pesticides from Agricultural Land”. *NG Biotech*.

Languages: Turkish, native; English, fluent; Italian, intermediate; Danish, elementary.