



TAGEM
AR-GE & İNOVASYON

BLACK SEA AGRICULTURAL RESEARCH
INSTITUTE / SAMSUN

DR. AYLİN ERKOÇAK

Agricultural Engineer (PhD)

EĞİTİM

- Assoc. prof**
- PhD** 2012-2020 Ondokuz Mayıs University
G. School of Natural and Applied Sc.
- MSc** 2009-2012 Ondokuz Mayıs University
G. School of Natural and Applied Sc.
- Bachelor's Degree** 2005-2009 Ondokuz Mayıs Üniversitesi
Faculty of Agriculture, Soil Dep.
- LANGUAGE** English (YÖKDİL: 68.75 / ÜDS: 61.25)

İŞ TECRÜBESİ

- 2012- Technical staff - Black Sea Agricultural Research Institute - SAMSUN

HAKKIMDA

She was born in 1986 in İstanbul. She graduated from Ondokuz Mayıs University, Faculty of Agriculture, Department of Soil in 2009. She completed her master's degree in 2012 and doctorate in 2020 in Ondokuz Mayıs University, Institute of Science, Department of Soil Science and Plant Nutrition.

She continues her studies in the field of Plant Nutrition and Soil at the Black Sea Agricultural Research Institute.

İLETİŞİM

Karadeniz Tarımsal Araştırma Enstitüsü
Çiftlik Mah. Atatürk Bulvarı No: 313
(Samsun - Ordu Karayolu 17. km),
Gelemen, Tekkeköy / SAMSUN
55300 TÜRKİYE

aylin.erkocak@tarimorman.gov.tr

+90 362 256 05 14



DR. AYLİN ERKOÇAK
Agricultural Engineer (PhD)



▪ **PROJECTS**

▪ **Projects Conducted**

1. Usage of the Compost Obtained from Organic Tea Processing Waste Products in Organic Tea Production- General Directorate of Plant Production - Assistant Researcher - (2012-2016)
2. Effects of Hazelnut Crust Compost on Yield and Soil Properties of Some Fruits (Hazelnut, Kiwi, Apple) - General Directorate of Plant Production - Assistant Researcher - (2012-2014)
3. Soil Formation and Decomposition Rates of Basaltic Base Material in Different Topographic Positions Under the Effect of Geochemical and Biological Processes - The Scientific and Technological Research Council of Turkey - 1001 - Assistant Researcher - (2014-2016)
4. The Effect of Phosphorus Dissolving Bacteria Applied Together with Kaya Phosphate and Triple Super Phosphate Fertilizer on Inorganic Phosphorus Fractions of Soil and Yield of Wheat Plant - General Directorate of Agricultural Research and Policies - Assistant Researcher - (2015-2017)
5. Determination of Organic Agriculture Basins in DOKAP Region - Eastern Black Sea Project Regional Development Administration - Assistant Researcher - (2016-2018)
6. Determination of Plant Nutrition Status and Potential Toxic Element Contents of Bartın and Zonguldak Regions Agricultural Soils, Preparation of Soil Data Base and Soil Maps - General Directorate of Agricultural Research and Policies - Assistant Researcher - (2016-2018)
7. Determining the Effects of Land Degradation Trends on Land Productivity Dynamic - General Directorate of Agricultural Research and Policies - Assistant Researcher - (2018-2020)

▪ **Ongoing Projects**

1. The Effect of Phosphorus Dissolving Bacteria Applied together with Kaya Phosphate and Triple Super Phosphate Fertilizer on Yield of Corn Plant in Field Conditions and Determination of Suitable Carrier Materials - General Directorate of Agricultural Research and Policies - Assistant Researcher
2. Quality Assessment of Bafra Plain Left Coast Soils in Terms of Sustainable Land Management - General Directorate of Agricultural Research and Policies - Assistant Researcher
3. Isolation, Identification and Use of Bacteria in Rice Compost Production - General Directorate of Agricultural Research and Policies - Project Leader
4. Isolation and Identification of Microalgae from their Natural Environment and Its Effect on Rice Yield in Samsun Province - General Directorate of Agricultural Research and Policies - Assistant Researcher
5. Extending Microbial Fertilizer Applications - (BÜGEM-TAGEM) - Assistant Researcher



DR. AYLİN ERKOÇAK
Agricultural Engineer (PhD)



▪ **PUBLICATIONS**

▪ **INTERNATIONAL ARTICLES AND PAPERS**

▪ **Articles Published in International Journals**

1. Dengiz, O., Kızılkaya, R., Erkocak, A., Durmus, M., 2012. "Variables of microbial response in natural soil aggregates for soil characterization in different fluvial land shapes" *Geomicrobiology Journal*, 30: 100-107.
2. Kussainova, M., Durmuş, M., Erkocak, A., Kızılkaya, R., 2013. "Soil dehydrogenase activity of natural macro aggregates in a toposequence of forest soil" *Eurasian Journal of Soil Science*, 2(1); 69-75.
3. M. Arif Özyazici, M. A., Dengiz, O., Sağlam, M., Erkocak, A. and Turkmen, F. 2017. Mapping and assessment-based modeling of soil fertility differences in the central and eastern parts of the Black Sea region using GIS and geostatistical approaches. *Arabian Journal of Geosciences*, 10(2): DOI: 10.1007/s12517-016-2819-6
4. Dengiz, O. and Erkocak, A. 2019. Phosphatase enzyme activity in different soils formed on bazaltic parent material under semi humid climate conditions. *International Journal of Agriculture Environment and Food Sciencies*, 3(1): 28-36.

▪ **International Papers, Seminars, etc.**

1. Erkocak, A., Durmus, M., Kızılkaya, R., Dengiz, O., 2011. "Microbial biomass carbon and organic carbon content in soil aggregates from different soil types", *Ecology of Soil Microorganisms Microbes as Important Drivers of Soil Processes*. April 27 - May 1, 2011, Institute of Microbiology of the Academy of Sciences of the Czech Republic, Prague, Czech Republic. Abstract Book, p. 252.
2. Erkocak, A., Kızılkaya, R., 2014. Microbial biomass C and organic C content of natural soil aggregates. 9th International Soil Science Congress on "The Soul of Soil and Civilization" Soil Science Society of Turkey cooperation with Federation of Eurasian Soil Science Societies. 14-16 October, 2014. Side, Antalya, Turkey. Abstract Book, (ISBN 979-605-63090-2-1), p.14.
3. Erkocak, A., Kızılkaya, R., 2015. Determination of Microbial Biomass C and Organic C Contents in Different Sizes of Natural Soil Aggregates. International Soil Science Congress on "Soil Science in International Year of Soils 2015. 19-23 October, Sochi-Russia. Book of Proceedings (ISBN 978-5-4465- 0807-5). pp. 118-121.
4. Erkocak, A., Dengiz, O., Durmus, M., 2016. Determination of Microbial Response in Natural Soil Aggregates for Soil Characterization in Different Land Shapes. EUROSOIL Istanbul 2016. 16-21 October, Istanbul. Abstract Book, p. 398.
5. Bayraklı, B., Dengiz, O., Öztürk, E., İç, S., Erkoçak, A., Kesim, E., Kars, N., Birol, M., 2018. Identification of suitable micro catchments for organic agriculture using GIS and remote sensing in East Part of the Black Sea Region. International Soil Science Congress on Environment and Soil Resources Conservation. October 17-19, 2018 - Almaty, Kazakhstan, pp. 22-34.



DR. AYLİN ERKOÇAK
Agricultural Engineer (PhD)

TAGEM
AR-GE & İNOVASYON

▪ **NATIONAL ARTICLES AND PAPERS**

▪ **Articles Published in National Journals**

1. Erkocak, A., Dengiz, O., Kılıc, S. 2010. Land Use Capability Classification Data with Land Forms Using Case Study; Samsun-Bafra District. *Anatolian Journal of Agricultural Sciences*, 25(2): 102-107.
2. Dengiz, O., Erel, A., Erkocak, A., Durmus, M. 2012. Basic soil properties, classification and mapping of Kuskonagi Basin. *Journal of Ege University Faculty of Agriculture*, 49(1): 71-82.
3. Saglam, M., Dengiz, O., Ozyazıcı, M. A., Erkocak, A., 2014. Creating and Mapping of Minimum Data Base Using Factor Analysis: A Case Study; Samsun Province. *Journal of Ege University Faculty of Agriculture*, 51 (2): 133-144.
4. Ozyazıcı, M. A., Saglam, M., Dengiz, O., Erkocak, A., 2014. Factor Analysis and Geostatistic Applications for Tea Cultivated Soils Case Study; Rize Province. *Soil Water Journal*, 3(1): 12-23.
5. Erkocak, A. ve Dengiz, O. 2019. Variation of β -glucosidase enzyme activity and soil development with different slope and land cover under semi moist humid climate conditions. *Journal of Soil Science and Plant Nutrition*, 7(1): 21-27.

▪ **National Papers, Seminars, etc.**

1. Kizilkaya, R., Turkay, F. S., Bayrakli, B., Erkocak, A., 2010. Determination of the effect of hazelnut husk and barn manure and vermicomposted sewage sludge on yield and Zn, Cu and Ni content of wheat plants. I. National Soil and Water Resources Congress, 1-4 June, Eskisehir s: 649-655.
2. Dengiz, O., Yakupoglu, T., Erkocak. A Parametric Model Study in Land Suitability Assessment for Rice Cultivation Pilot Area, Çarşamba-Dikbıyık Town. I. National Soil and Water Resources Congress, 1-4 June, Eskişehir
3. Durmus, M., Erkocak, A., Kizilkaya, R., Dengiz, O., 2011. Determination of Changes in Catalase Enzyme Activities of Different Soils Formed on Alluvial Lands. National Soil and Water Symposium, 25-27 May, Ankara. Proceedings Book (ISBN 978-975-482-975-4) s.153-159.
4. Erkocak, A., Kizilkaya R., 2013. Determination of Changes in Catalase Enzyme Activities Along the Profile in Soils with Different Pedological Characteristics. III. National Soil and Water Resources Congress, 22-24 October, Tokat. Proceedings Book s. 269-274.



DR. AYLİN ERKOÇAK
Agricultural Engineer (PhD)



▪ **OTHER PUBLICATIONS**

▪ **Ph. D. Thesis, Master Thesis, Reports, Books etc.**

1. Biopedological Properties of Soils Formed on Different Base Materials (Master Thesis - Ondokuz Mayıs University, Graduate School of Natural and Applied Sciences, Department of Soil Science and Plant Nutrition - 2012)
2. Determination of Geobiopedological Properties of Soils Formed on Basalt Base Material in Different Topographic Positions (PhD Thesis- Ondokuz Mayıs University, Graduate School of Natural and Applied Sciences, Department of soil Science and Plant Nutrition - 2020)

▪ **Membership, Training, Course, Meeting, Congress, Symposium and Other Activities**

1. 5th International Participation Soil and Water Resources Congress, 12-15 September 2017, Kırklareli/Turkey
2. International Agricultural Science Congress, 09-12 May 2018, Van/Turkey
3. International Eurasian Congress on “Natural Nutrition, Healty Life and Sport” 2019, Gazi University- Ankara