



SOIL FERTILIZER AND WATER RESOURCES
CENTRAL RESEARCH INSTITUTE/ANKARA

İLKNUR YURDAĞUL, PhD

Exp. Chemical Engineer

- PhD**
2003-2009
Ankara Üniversitesi
Ziraat Fakültesi
- MSc**
2000-2003
Süleyman Demirel Üniversitesi
Ziraat Fakültesi
- Bachelor's Degree**
1983-1987
Ankara Üniversitesi
Fen Fakültesi/ Kimya Mühendisliği

LANGUAGE

- 2020- Head of Soil Management and Plant Nutrition Department, R&D Engineer, TGSKMAE, ANKARA
- 2018-2020 Head of Laboratory Department, R&D Engineer, TGSKMAE, ANKARA
- 2016-2017 Head of Agricultural Environment Department, R&D Engineer, TGSKMAE, ANKARA
- 2009-2013 Quality Manager, R&D Engineer, TGSKMAE, ANKARA
- 1990-2009 Laboratory Manager, R&D Engineer, TGSKMAE, ANKARA

I was born in 1966 in Niğde. In 1987, she graduated from Ankara University, Faculty of Science. She started her career at Soil Fertilizer Research Institute in 1991. She still continues to work on projects on soil analysis, fertilizer analysis, plant analysis, fertilization, soil fertility, plant nutrition and heavy metals, agricultural environmental pollution.

Participated in the program "International postgraduate course on soil and plant analysis and data handling" IAC, NETHERLANDS. Worked on Strengthening the Quality Infrastructure in Turkey Project. Modernization of Gence, Guba and Absheron Project Research Chemical Plants' etc. took part in projects.

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▪ **PROJECTS**

▪ **Projects Conducted**

1. The Effect of Nitrogen, Phosphorus and Potassium on Some Quality Characteristics of Tomatoes
2. Comparison of Extraction Methods of Some Heavy Metals from Soil and their Calibration by Growing Wheat
3. The Effects of Various Surfactants On Growing And Yield Wheat, Tomato And Soybean
4. The Effect of Calcium Applied to Soil and Leaves on Blossom End Rot in Tomatoes
5. Investigation of Different Extraction Methods for Determination of Plant Useful Phosphorus in Soils in Apple Orchards of Isparta Region
6. Effects of Some Heavy Metals on Yields of Wheat and Chickpea Crops under Field Conditions and Toxicity Symptoms
7. Investigation of The Effects of Some Soil Components on P Adsorption Capacity of Heavy Textured Soils Using Langmuir Isotherm Equation
8. Investigation of the Effects of ASKİ Treatment Sludge Applications on Some Properties (Chemical, Physical and Biological) and Sustainable Usability of Ankara - Yenikent Soils
9. Supply Equipment for Supporting to the Market Surveillance Laboratories for the Implementation of EC Directives in the Areas Fertilisers, Lifts, Legal Metrology in Turkey EuropeAid
10. Strengthening the Quality Infrastructure in Turkey Project (TKAG) (TR702.12.01/001), CFCU
11. Determination and Mapping of Boron Status of Turkish Soils

▪ **Ongoing Projects**

1. Determination of Accumulator Some Plants Potential for Phytoremediation Soils with Cadmium Pollution
2. Preparation of Urea Fertilizer Encapsulated with Different Biopolymers and Determination of Release Rate in Soil
3. For The Evaluation of Salty and Arid Areas, Determination of Potential of Camelina sativa and sweet sorghum as the alternative plants

A New Approach for Sustainable Water Management: Integration of the Circular Economy Approach to the Framework of Water-Energy-Food-Ecosystem Nexus



■ **PUBLICATIONS**

■ **NATIONAL ARTICLES AND PAPERS**

■ **Articles Published in National Journals**

1. Determination of Toxicity Limits of Cadmium for Wheat and Comparison of Some Extraction Methods
2. The Effects of Different Surfactants on Soybean Plant Dry Weight
3. The Effects of Different Surfactants on the Growth of Tomato Plant
4. The Effects of Different Surfactants to Dry Weight Wheat
5. Phytoremediation Techniques and Importance in Contaminated Soils and Waters
6. Investigation of Phosphorus Adsorption and its Relationship With Soil Organic Matters, Analyzed with Langmuir Model
7. Determination of Toxic Effect of Heavy Metals on the Yield of Wheat (*Triticum Aestivum* L.) in Field Conditions
8. Determination of the effects of some heavy metals (Cu and Zn) on the yield and toxicity of bread wheat in field conditions

■ **International Papers, Seminars, etc.**

1. Determination of Toxicity Limit of Zinc in Soil and Plant and Calibration of Wheat of Various Extraction Methods with for Determination of Bioavailable Zn Amount
2. Effects of Some Potentially Toxic Heavy Metals on Plant Growth and Comparison of Different Extraction Methods for Their Extraction from Soil
3. Fertility Status of Soils in Thrace Region
4. Productivity Status of Apple Orchards in Isparta Region
5. Effect of Calcium on Blossom End Rot in Tomatoes
6. Determination of the Effects of Some Heavy Metals on the Growth of Wheat in Different Soils
7. The Effect of Fertilization with Nitrogen Phosphorus and Potassium on Quality Charactrics in Tomatoes
8. Productivity Status of Apple Orchards in Isparta Region



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TAGEM
R&D AND INNOVATION

▪ **OTHER PUBLICATIONS**

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

1. The Effect of Nitrogen, Phosphorus and Potassium on Some Quality Charactrics of Tomatoes
2. Comparison of Extraction Methods of Some Heavy Metals from Soil and their Calibration by Growing Wheat
3. Effects of Various Detergent Surfactants on Growth and Yield in Wheat, Tomato and Soybean
4. The Effect of Calcium Applied to Soil and Leaves on Blossom End Rot in Tomatoes
5. Investigation of Different Extraction Methods for Determination of Plant Available Phosphorus in Soils in Apple Orchards of Isparta Region
6. Effects of Some Heavy Metals on Yields of Wheat and Chickpea Crops under Field Conditions and Toxicity Symptoms
7. Investigation of The Effects of Some Soil Components on P Adsorption Capacity of Heavy Textured Soils Using Langmuir Isotherm Equation
8. Investigation of the Effects of ASKİ Treatment Sludge Applications on Some Properties (Chemical, Physical and Biological) and Sustainable Usability of Ankara - Yenikent Soils
9. Supply Equipment for Supporting to the Market Surveillance Laboratories for the Implementation of EC Directives in the Areas Fertilisers, Lifts, Legal Metrology in Turkey EuropeAid
10. Strengthening Quality Infrastructure in Turkey (TR702.12.01/001), CFCU
11. Determination and Mapping of Boron Status of Turkish Soils
12. Herbal Remediation Techniques (Phytormediation)
13. Soil Fertilizer Water Plant Organic Material and Microbiology Analysis Methods



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TAGEM
R&D AND INNOVATION

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

1. Porttitor International postgraduate course on soil and plant analysis and data handling. IAC/HOLLANDA
2. Soil and Environment Symposium
3. Chemistry Automation Seminar. Skalar/HOLLANDA
4. National Zinc Congress
5. TİGEM Training Seminar (Trainer). Productivity Analysis, Soil and Fertilizer Research Institute. Ankara
6. Laboratory Operations Management and Evaluation. (Trainer) TGAE, Ankara
7. Laboratory Training (Trainer), TGAE, Ankara
8. III. National Fertilizer Congress Agriculture - Industry - Environment, Tokat
9. Thrace Soil and Water Resources Symposium, Kırklareli
10. A course on laboratory equipment and analysis methods to be used in the laboratory in Baku, Gence and Guba Soil Analysis Laboratories within the scope of the 'Modernization of Ganja, Guba and Absheron Project Research Chemical Plants' project (Trainer). AZERBAIJAN
11. Ganja, Guba and Absheron Project Research and Modernization of Chemical Plants' Project Laboratory Training. (Trainer) Ankara
12. Soil-Plant Analysis Laboratory Authorization and Evaluation Studies Meeting (Trainer) Ankara
13. CFCU voiting member olarak Evaluation Committee, Ankara
14. The Use of Nuclear and Related Techniques in Soil-Plant-Water-Nutrient Relations (13C, 15N, 32P, Neutron Probe and Enviroscan Techniques) National Workshop, Ankara
15. Chamber of Agricultural Engineers VII. Technical Congress, Ankara
16. International Soil Science Congress on 'Management of Natural Resources to Sustain Soil Health and Quality', Samsun
17. I. National Soil and Water Resources Congress, Eskişehir
18. European Union Crop Production Development Project (Soil Analysis and Laboratory Operation Training) (Trainer) CYPRUS
19. European Union Plant Production Development Project (Plant Analysis Training)(Training) CYPRUS