



**TAGEM**  
R&D AND INNOVATION

Field Crops Central Research Institute,  
Biotechnology Research Center /ANKARA

## CANSU TEKIN DOGAN, MSc Biologist

### EDUCATION

- MSc**  
2016-2018  
University of Wisconsin-Madison  
Animal Breeding and Quantitative
- Bachelor's Degree**  
2021-  
Netkent Research and Science  
University, Lefkosa, TRNC  
Information Systems and  
Management Engineering (MIS)
- Bachelor's Degree**  
2009-2013  
Istanbul University  
Molecular Biology & Genetics

**LANGUAGE** English YDS 86

### CAREER

- 2021- Biologist, Field Crops Central Research Institute,  
Biotechnology Research Center, ANKARA
- 2018-2021 Biologist, Poultry Research Institute, ANKARA

### ABOUT ME

Researcher/data scientist in Genomics and Molecular Biology & Quantitative Genetics with 4 years of experience, have keen to develop skills in Bioinformatics and Computational Biology fields with exposure to next-generation sequencing data (SNPs, 16s rRNA, and whole-genome sequence data) with doing 5 internships and being involved 4 research projects. For 2 years, having experience in Quantitative Genetics using mixed models and machine learning for prediction, breeding, and clustering analysis. Exceptional programming and script-building skills including Java, R, and Python.

### CONTACT



Şehit Cem Ersever Cad. No: 11  
Yenimahalle / Ankara, TÜRKİYE



[cansu.tekin@tarimorman.gov.tr](mailto:cansu.tekin@tarimorman.gov.tr)



0 (312) 343 10 50



## CANSU TEKIN DOGAN, MSc Biologist



### ■ **PROJECTS**

#### ■ **Projects Conducted**

1. Breeding Studies on Pure Lines at Poultry Research Institute, 2018-2021
2. Multi-trait Genetic Analysis of Reproductive Traits in a Male Line of Turkey (2018, University of Wisconsin-Madison, USA; University of Guelph, Canada; and Hendrix Genetics)
3. Genetic Parameter Estimation for Reproductive Traits in Turkey by Combining Pedigree and Genomic Information (ssGBLUP) (2018, University of Wisconsin-Madison, USA; University of Guelph, Canada; and Hendrix Genetics)
4. A Genome-Wide Association Study (GWAS) of Egg Production in a Male Turkey Line (2018, University of Wisconsin-Madison, USA; University of Guelph, Canada; and Hendrix Genetics)

#### ■ **Ongoing Projects**

1. HORIZON2020, The evaluation of new 6x Iranian trans-chromosomal primary/secondary promising salt tolerant Tritipyrum (AABBEbEb) lines and production few Turkish 6x trans-chromosomal primary/secondary Tritipyrum (AABBEbEb) lines by phenotyping, molecular markers, cytogenetics molecular markers, RNA-Seq and speed breeding techniques for releasing new forage and grain commercial Tritipyrum cultivars in saline soils and brackish waters of Turkey
2. Molecular Characterization, Important Phytochemical Analysis and Development of Micropropagation Technique of Some *Artemisia* L. Species
3. Development of a Test Kit to Detect and Quantity of the Bread Wheat (*Triticum aestivum*) in Pasta with National Resources
4. Central Anatolian Cumin (*Cuminum cyminum*) and Karaman (French) Cumin (*Carum carvi*) Breeding Research Project



## CANSU TEKIN DOGAN, MSc Biologist



### Membership, Training, Course, Meeting, Congress, Symposium and Other Activities

1. Teaching principles of biology and mentoring laboratory experiments, Apprentice/Teaching Assistant, Department of Biological Sciences, 2014, Georgia State University, USA
2. Design a Genome Webpage like NCBI, GeneChart and Ensembl with Phyton, Django and D3, Intern, Genome and Stem Cell Center, 2014, Erciyes University, Turkey
3. Computer-Aided Drug Discovery, Intern, Department of Computational Biology and Bioinformatics, 2013, Koc University, Turkey
4. Computer-Aided Drug Design for NF- $\kappa$ B Oncogene, Department of Molecular Biology and Genetics, 2013, Istanbul University, Turkey
5. Study of Novel gene discovery, bioinformatics tools and Next Generation Sequencing, Q-PCR and analyzing process, Immunohistochemistry, Plasmid DNA isolation (mini- and midi-prep), RT-PCR, Cloning, Transfection, Cell Culture (in meningioma cells), Bacteria / Transformation-Ligation, Primer Design, Gate-Way Cloning, Intern, Department of Neurogenetics, 2012, YALE UNIVERSITY, USA
6. PCR Amplification of DNA, Electrophoresis, RFLP DNA identification, Real-Time PCR for Detection of Polymorphism, Intern, 2012, Cerrahpasa Faculty of Medicine, 2012, Istanbul University, Turkey
7. Design of Breeding Programs with Genomic Selection, 2018, Guelph, Canada
8. Introduction to Graphical Models with Applications to Quantitative Genetics and Genomics, 2017, Iowa, USA
9. International Conference on Quantitative Genetics, 2016, Madison, USA
10. Academy of Entrepreneurship and Innovation. 2013, Istanbul, Turkey
11. Genetically Modified Organisms Symposium. 2012, Istanbul, Turkey
12. Symposium on Multidisciplinary R&D and Innovation in Life Science, 2012, Istanbul, Turkey
13. Participation to Molecular Biology and Genetics Weekend School, 2011, Istanbul, Turkey
14. Congress of Apoptosis, 2011, Istanbul, Turkey