



## Nur Şebnem Ersöz

**Passport:** U26548687 | **ID:** 16099115372 | **Work permit:** Turkish | **Date of birth:** 07/03/1993 |

**Place of birth:** Kayseri, Türkiye | **Nationality:** Turkish | **Gender:** Female | **Phone number:**

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**Address:** Kızılırmak mah. Şehit Fethi Akyuz cad. Kaptanlar Aksu 1. sit. A blok no: 1, Sivas/Merkez, 58070, Sivas, Türkiye (Home)

**Address:** Barbaros, Sümer Kampüsü, Erkilet Blv., 38080 Kocasinan/Kayseri, Kocasinan, 38080, KAYSERİ, Türkiye (Work)

### EDUCATION

13/09/2021 – CURRENT

#### Ph.D in Bioengineering

Abdullah Gul University, Department of Bioengineering, Graduate School of Engineering and Science  
Ph.D Thesis Topic: Discovery of biomarkers by analyzing omics data with machine learning using biological domain knowledge

Ph.D. Advisor: Assoc. Prof. Burcu Bakir Gungor, Ph.D.

Ph.D. Co-advisor: Prof. Malik Yousef, Ph.D

GPA, 3.78/4.0

11/10/2018 – 13/09/2021

#### M.Sc. in Bioengineering

Abdullah Gul University, Department of Bioengineering, Graduate School of Engineering and Science  
Master's Thesis Topic: Therapeutic Potential of Resveratrol and The role of Ceramide Metabolism in Resveratrol-Triggered Apoptosis in FLT3 + Acute Myeloid Leukemia

M.Sc.Advisor: Assoc. Prof. Aysun Adan, Ph.D.

GPA, 3.89/4.0

08/09/2016 – 10/07/2022

#### Associate degree in Management of Health Institutions

Anadolu University, Department of Management of Health Institutions

GPA, 2.99/4.0

09/09/2011 – 28/06/2016

#### B.Sc. in Molecular Biology and Genetics

Inonu University, Department of Molecular Biology and Genetics, Faculty of Science and Literature

GPA, 3.15/4.0

### WORK EXPERIENCE

**BARCELONA SUPERCOMPUTING CENTER – BARCELONA, SPAIN**

#### SUMMER RESEARCH PROJECT / ERASMUS SCHOLARSHIP – 15/07/2022 – 06/10/2022

CThripsos: An R package to calculate Chromothripsis in single cells and evaluate its impact in cancer clonal evolution.

**Advisor:** Gonzalo Parra

**YALE UNIVERSITY, MEDICAL SCHOOL, DEPARTMENT OF NEUROSURGERY – CONNECTICUT, UNITED STATES**

## **SUMMER RESEARCH PROJECT – 15/06/2015 – 15/09/2015**

Laboratory work conducts research on gene discovery in disorders of the nervous system and its vasculature system  
**Advisor:** Octavian Henegariu

 **INONU UNIVERSITY – MALATYA, TÜRKİYE**

## **ANIMAL USE IN EXPERIMENTAL RESEARCH – 05/11/2015 – 13/11/2015**

The course program is prepared based on the "Certificate For Using Laboratory Animals In Researches"

 **YALE UNIVERSITY, MEDICAL SCHOOL, DEPARTMENT OF NEUROSURGERY – CONNECTICUT, UNITED STATES**

## **SUMMER RESEARCH PROJECT – 06/08/2014 – 28/09/2014**

Laboratory work conducts research on gene discovery in disorders of the nervous system and its vasculature system.  
**Advisor:** Ketu Mishra Gorur

## **PUBLICATIONS**

2025

### **[Integrating Biological Domain Knowledge with Machine Learning for Identifying Colorectal-Cancer-Associated Microbial Enzymes in Metagenomic Data](#)**

B. Bakir-Gungor, N. Ş. Ersöz, M. Yousef, 2025, "Integrating Biological Domain Knowledge with Machine Learning for Identifying Colorectal-Cancer-Associated Microbial Enzymes in Metagenomic Data", Applied Sciences, 15, 2940

**Journal Name:** Applied Sciences

2025

### **[Identifying Inflammatory Bowel Disease-Associated Gene Ontology Groups Using Biological Knowledge-Based Machine Learning](#)**

In Proceedings of the 18th International Joint Conference on Biomedical Engineering Systems and Technologies (BIOSTEC 2025)

Nur Sebnem Ersoz, Burcu Bakir-Gungor, Malik Yousef "Identifying Inflammatory Bowel Disease-Associated Gene Ontology Groups Using Biological Knowledge-Based Machine Learning"

2024

### **[Metagenomic Data Analysis with Machine Learning to Discover Colorectal Cancer-Associated Enzymes](#)**

2024 32nd Signal Processing and Communications Applications Conference (SIU)

Nur Sebnem Ersoz; Cihan Kuzudisli; Malik Yousef; Burcu Bakir-Gungor "Metagenomic Data Analysis with Machine Learning to Discover Colorectal Cancer-Associated Enzymes"

2024

### **[Metabolomics Data Analysis to Discover Chronic Granulomatous Disease-Associated Biomarkers Utilizing GSM Machine Learning Model via Grouping Metabolites According to Ion Type](#)**

2024 Innovations in Intelligent Systems and Applications Conference (ASYU)

Nur Sebnem Ersoz, Burcu Bakir-Gungor, Malik Yousef "Metabolomics Data Analysis to Discover Chronic Granulomatous Disease-Associated Biomarkers Utilizing GSM Machine Learning Model via Grouping Metabolites According to Ion Type"

2023

### **[GeNetOntology: identifying affected gene ontology terms via grouping, scoring, and modeling of gene expression data utilizing biological knowledge-based machine learning](#)**

N.S. Ersoz, B. Bakir-Gungor, M. Yousef, 2023, "GeNetOntology: Gene Expression based Gene Ontology Grouping and Scoring", Frontiers in Genetics, 14: 1139082

**Journal Name:** Frontiers in Genetics

2022

## [Comparative Performance Analysis Of Arima, Prophet And Holt-Winters Forecasting Methods On European Covid-19 Data](#)

N.S. Ersoz, et al. 2022, "Comparative Performance Analysis Of Arima, Prophet And Holt-Winters Forecasting Methods On European Covid-19 Data", International Journal Of 3D Printing Technologies And Digital Industry, 5:3, 353-360

**Journal Name:** International Journal Of 3D Printing Technologies And Digital Industry

2022

## [Differential in vitro anti-leukemic activity of resveratrol combined with serine palmitoyltransferase inhibitor myriocin in FMS-like tyrosine kinase 3-internal tandem duplication \(FLT3-ITD\) carrying AML cells](#)

**Authors:** Nur Şebnem Ersöz & Aysun Adan "Differential in vitro anti-leukemic activity of resveratrol combined with serine palmitoyltransferase inhibitor myriocin in FMS-like tyrosine kinase 3-internal tandem duplication (FLT3-ITD) carrying AML cells" |

**Journal Name:** Cytotechnology | **Volume, Issue and Pages:** Volume 74, pages 271–281

2022

## [Resveratrol triggers anti-proliferative and apoptotic effects in FLT3-ITD-positive acute myeloid leukemia cells via inhibiting ceramide catabolism enzymes](#)

Nur Şebnem Ersöz & Aysun Adan "Resveratrol triggers anti-proliferative and apoptotic effects in FLT3-ITD-positive acute myeloid leukemia cells via inhibiting ceramide catabolism enzymes

**Journal Name:** Medical Oncology | **Volume, Issue and Pages:** Volume 39, article number 35

2022

## [Analysis of under-five mortality by diseases in countries with different levels of development: a comparative analysis](#)

Muhammed Sütçü , Pınar Güner , Nur Şebnem Ersöz "Analysis of under-five mortality by diseases in countries with different levels of development: a comparative analysis"

**Journal Name:** The European Research Journal | **Volume, Issue and Pages:** 652 - 664

2020

## [Cytotoxic Effects of Resveratrol and Its Combinations with Ceramide Metabolism Inhibitors on FLT3 Positive Acute Myeloid Leukemia](#)

Nur Şebnem Ersöz, Aysun Adan "Cytotoxic Effects of Resveratrol and Its Combinations with Ceramide Metabolism Inhibitors on FLT3 Positive Acute Myeloid Leukemia"

**Journal Name:** Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi | **Volume, Issue and Pages:** 1205 - 1216

2019

## [Resveratrol Targets Sphingolipid Metabolism to Induce Growth Inhibition in FLT3 ITD Acute Myeloid Leukemia](#)

The 3rd International conference on Natural Products for Cancer Prevention and Therapy

Nur Şebnem Ersöz, Aysun Adan "Resveratrol Targets Sphingolipid Metabolism to Induce Growth Inhibition in FLT3 ITD Acute Myeloid Leukemia"

**Journal Name:** MDPI

## ● RESEARCH PROJECTS

10/09/2024 – 31/08/2027

### Researcher

#### The Scientific and Technological Research Council of Turkey (TUBITAK-1001)

Integrative transcriptomic, proteomic, and machine learning approach to identifying the role of lncRNA XIST in MS etiopathogenesis using human vascular brain organoids

10/09/2018 – 13/09/2021

## Researcher

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### Scientific Research Projects (BAP)

The therapeutic potential of resveratrol in ceramide metabolism triggered by apoptosis and its therapeutic effect in FLT3 ITD Acute Myeloid Leukemia

## ● SCHOLARSHIP, AWARDS AND ACHIEVEMENTS

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15/09/2025 – 15/06/2026

### 2214-A International Research Fellowship Programme for PhD Students

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The Scientific and Technological Research Council of Turkey (TUBITAK)

06/07/2022 – 06/10/2022

### Erasmus Internship Scholarship

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Abdullah Gul University, Kayseri , Turkey

18/12/2019 – 20/12/2019

### Best Oral Presentation Award

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The 3rd International Conference on Natural Products for Cancer Prevention and Therapy, Kayseri, Turkey

07/03/2021 – 07/03/2026

### 2211-A National PhD Scholarship Programs

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The Scientific and Technological Research Council of Turkey (TUBITAK)  
Presidency of Scientist Support Programme (BIDEB)

## ● INTERNATIONAL EUROPEAN UNION PROJECTS

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20/10/2017 – 17/12/2017

### The Harmony of Different Cultures

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Funding: European Union (European Volunteering Service, Erasmus + )  
Gdansk, Poland

23/01/2015 – 31/01/2015

### Let's Stop The Move

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Funding: European Union (Erasmus + )  
Sivas, Turkey

04/07/2017 – 13/07/2017

### Cultural Diversity is Our Richness

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Funding: European Union (Erasmus + )  
Sivas, Turkey

21/04/2016 – 30/04/2016

### Reading Book Is the Biggest Prilivage

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Funding: European Union (Erasmus + )  
Sivas, Turkey

16/01/2016 – 24/01/2016

### It is Time to Chance Your Habits

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Funding: European Union (Erasmus + )  
Sivas, Turkey

07/07/2014 – 14/07/2014

### My Book Is My Best Friend

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## ● REFERENCES

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### **Assoc. Prof. Burcu Bakir-Gungor, PhD**

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### **Prof. Malik Yousef, PhD**

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Galilee Digital Health Research Center (GDH), Zefat Academic College, Zefat, Israel  
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