



## Serap Dede

**Nationality:** Turkish **Date of birth:** 13/01/1974 **Place of birth:** Nigde , Türkiye

**Phone number:** (+90) 5449646774 **Email address:** [dedeserap74@gmail.com](mailto:dedeserap74@gmail.com)

**Home:** Cevizlidere cad. Cevizlidere mah. 1224.sok 6/23 Balgat Cankaya/Ankara, 06520 Ankara (Türkiye)

### WORK EXPERIENCE

**Gunduz Laboratory** – Ankara, Türkiye

#### Director of Laboratory

[ 15/09/2014 – 15/09/2016 ]

**Eryigit Biotechnology** – Ankara, Türkiye

#### Medical Geneticist

[ 13/05/2019 – Current ]

- Development of a Methylation-Specific qPCR Kit for Early Diagnosis of Gastric Cancer (TÜBİTAK-1501)
- Development of a Methylation-Specific qPCR Kit for Early Cancer Diagnosis of Colorectal Cancer (TÜBİTAK-1501)
- Development of a Highly Sensitive qPCR Diagnostic Kit for Detecting Common KRAS Mutations in Colorectal, Pancreatic, and Lung Cancers (TÜBİTAK-1501)

**Eryigit Biotechnology** – Ankara, Türkiye

#### Chief Laboratory Officer

[ 01/08/2019 – 01/08/2021 ]

- I served as a laboratory chief in multiple countries during the COVID pandemic, where I was responsible for establishing COVID laboratories in Somalia and Ukraine

**Sentebiolab Biotechnology** – Ankara, Türkiye

#### Researcher

[ 15/07/2016 – 15/07/2019 ]

- As a primer probe synthesis expert, I have extensive experience working with Dr. Oligo Synthesis Devices and performing HPLC purification

**Gunduz Laboratory** – Ankara, Türkiye

#### Researcher

[ 15/09/2008 – 15/09/2013 ]

### EDUCATION AND TRAINING

#### PhD, Molecular and Medical Genetics

**Biruni University** [ 15/09/2021 – 17/10/2025 ]

City: İstanbul | Country: Türkiye | Website: <https://www.biruni.edu.tr/>

- occupational techniques (making of standard breads, fancy breads, cakes and pastries)n- science applied to food and equipment (microbiology, biochemistry, hygiene)n- occupational technology (basic principles, hygiene, safety)n- knowledge of business and its economic, legal and social context

## Master Of Science

**Turgut Ozal University** [ 15/09/2011 – 15/09/2013 ]

City: Ankara | Country: Türkiye

## Bachelor Of Science

**Ankara University** [ 15/09/1993 – 15/09/1997 ]

City: Ankara | Country: Türkiye | Website: <https://www.ankara.edu.tr/>

## PUBLICATIONS

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[2015]

### **Association of Clusterin (CLU) Gene Polymorphism, Rs11136000, with Alzheimer's Disease and Diabetes in the Turkish Population**

Ciftci-Yilmaz, Sultan, et al. "Association of Clusterin (CLU) Gene Polymorphism, Rs11136000, with Alzheimer's Disease and Diabetes in the Turkish Population." *Clinical and Investigative Medicine (Online)* 38.4 (2015): E200.

[2015]

### **Association among ABCA7 Gene Polymorphism, rs3764650 and Alzheimer's Disease in the Turkish Population**

Oznur, Murat, et al. "Association among ABCA7 Gene Polymorphism, rs3764650 and Alzheimer's Disease in the Turkish Population." *Clinical and Investigative Medicine (Online)* 38.4 (2015): E187.

[2025]

**[SFRP2 and RPRM as methylation based serum biomarkers for the detection of gastric cancer](#)** Gastric cancer (GC) has a high mortality rate due to the diagnosis in advanced stages. Aberrant DNA methylation is the earliest event in carcinogenesis and can be noninvasively detected in cell-free DNA (cfDNA) from gastric cancer patients. Methods A total of 143 serum samples were analyzed, including 33 GC patients, 30 chronic gastritis (ChG) patients, and 80 healthy individuals. Additionally, tissue samples were collected from 30 GC patients (stages I–IV) and 38 ChG patients. Methylation patterns of ten genes were examined in GC cells, as well as in serum and tissue samples from GC, ChG, and control groups using methylation-specific qPCR. APC, CDH1, RASSF1A, hMLH1, RUNX3, p16, SFRP2, RNF180, PCDH10, and RPRM were all significantly hypermethylated in the tissues of GC patients compared to those with ChG.

**Authors:** Serap Dede, Çağrı Şakalar, Barış Yılmaz, Gamze Çubukcı , Muradiye Acar , Aydın Yavuz , Gizem Aksu , Saygın Altınır , Osman Yüksel , Furkan Ayaz and Esra Aydemir | **Journal Name:** Discover Oncology | **Volume, Issue and Pages:** (2025) 16:1606 | **Publisher:** 2025

## PRESENTATIONS

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[ 2023 ]

### **Development of a Comprehensive Multiplex Real-Time Genetically Modified Organism Screening Kit**

[ 2022 ]

### **Development of New Generation Fluorescent In Situ Hybridization Probes by PCR**

[ 2016 ]

### **Analysis of the EEG Data of Patients Diagnosed with Syncope and Epilepsy**

[ 2016 ]

### **Detecting CD33 Gen polymorphism in Alzheimer Disease**

[ 2016 ]

## **Role of ESM1 Gene in Cancer**

[ 2014 ]

**Mutation Analysis of ESM-1 Gene in Breast Cancer Patient Tissues**

[ 2013 ]

**Mutation Status of P53 in Head and Neck Squamous Cell Carcinoma**

[ 2013 ]

**Mutation Analysis of Endocan (ESM-1) Gene in Breast Cancer Patients by Sequencing**

[ 2012 ]

**Influence of cellular phone on SCN9A Gene Expression of Epileptic Rat Models**

## **BOOK CHAPTERS**

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[ 2015 ]

**Cytogenetic Early Markers in Gynecologic Cancers**

## **PROJECTS**

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[ 01/11/2024 – Current ]

**Development of Methylation-Specific qPCR Diagnostic Kit Based on Hypermethylation Differences in Gastric Cancer**

[ 01/01/2025 – Current ]

**Development of a high sensitivity qPCR diagnostic kit for the detection of commonly seen KRAS mutations in colorectal, pancreatic, and lung cancers**

[ 01/12/2023 – 30/11/2025 ]

**Development of a Methylation-Specific Cancer Early Diagnosis qPCR Kit for Colorectal Cancer**

[ 01/02/2022 – 31/07/2023 ]

**Development of a Comprehensive Multiplex Real Time GDO Screening Kit**

[ 01/11/2020 – 30/09/2022 ]

**Development of a New Generation Fish Probe**

[ 01/09/2012 – 01/09/2013 ]

**Investigation of ESM-1 (Endocan) Gene Mutations in Breast Cancer Development**

[ 01/01/2011 – 01/01/2014 ]

**Examination of Role of ING1 Splicing Variants (p24ING1 and p33ING1) in Carcinogenesis and Metastasis of Head and Neck Carcinomas**

## **HONOURS AND AWARDS**

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[ 2013 ]

**iGEM (International Genetically Engineered Machines) Oncoli, Lyon, France**

## **LANGUAGE SKILLS**

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**Mother tongue(s):** Turkish

**Other language(s):**

**English**

**LISTENING B2 READING C1 WRITING B2**

**SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2**

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

## **SKILLS**

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Microsoft Excel / Microsoft Word / Google Drive / Microsoft Office / NCBI / Ensembl / User of Primer3Plus, Snapgene, MethPrimer, Lasergene Primer Select / Genome browsers(Ensemble, UCSC) / mikrosoft powerpoint / NGS data analysis (middle level) / qPCR analysis software / Unipro-UGENE / GraphPad Prisim / Sanger and Next Generation Sequencing techniques