

## AKADEMİK ÖZGEÇMİŞ

1. Adı Soyadı: Gülten Tuncel

2. Unvanı: Dr, PhD

3. Öğrenim Durumu:

| Derece    | Bölüm/Program | Üniversite                    | Yıl  |
|-----------|---------------|-------------------------------|------|
| Lisans    | Genetik       | University of Manchester      | 2013 |
| Y. Lisans | Biyoloji      | Orta Doğu Teknik Üniversitesi | 2016 |
| Doktora   | Moleküler Tıp | Yakın Doğu Üniversitesi       | 2021 |

4. Yüksek Lisans / Doktora Tezi

4.1.Yüksek Lisans Tez Başlığı ve Tez Danışman(lar)ı:

Meme Gelişiminde Dinamik Alternatif Poliadenilasyon Olayları,

Prof. Dr. Elif Erson Bensan

4.2. Doktora Tezi/Tıpta Uzmanlık Tezi Başlığı ve Danışman(lar)ı:

Yeni Bir Siliyopati Geni Olarak *CC2D1A*

Doç. Dr. Mahmut Çerkez Ergören

5. Akademik Unvanlar:

Yardımcı doçentlik tarihi: -

Doçentlik tarihi: -

Profesörlük tarihi: -

6. Yönetilen Yüksek Lisans ve Doktora Tezleri:

6.1. Yüksek lisans tezleri

The effect of nanobubble ozone stored niosomes (NOSN) on the WNT/BETA-CATENIN pathway genes in MCF-7 breast cancer cell line.

The effect of nanobubble ozone stored niosomes (NOSN) on the WNT/BETA-CATENIN pathway genes in MDA-MB-7 breast cancer cell line.

Investigation of inflammation, hematopoietic differentiation and apoptosis-related gene expression patterns in patients treated with oral isotretinoin.

## 6.2. Doktora tezleri

## 7. Yayınlar

### 7.1. Uluslararası hakemli dergilerde yayınlanan makaleler (SCI,SSCI, AHCI, ESCI, Scopus)

**Hoti Q, Akan G, Tuncel G, Evren EU, Evren H, Suer K, Sanlidag T, Ergoren MC. (2023)** Altered expression levels of TAS1R2 and TAS1R3 genes among SARS-CoV-2 variants of concerns. *Mol Biol Rep. Nov;50(11):9343-9351. doi: 10.1007/s11033-023-08893-5.*

**Tuncel G, Sanlıdag B, Dirik E, Baris T, Ergoren MC, Temel SG. (2023)** Lessons from Real Life Experience: Importance of In-House Sequencing and Smart Ratio-Based Real-Time PCR Outperform Multiplex Ligation-Dependent Probe Amplification in Prenatal Diagnosis for Spinal Muscular Atrophy: Bench to Bedside Diagnosis. *Glob Med Genet. Aug 31;10(3):240-246. doi: 10.1055/s-0043-1774307.*

**Kiraz A, Sezer O, Alemdar A, Canbek S, Duman N, Bisgin A, Cora T, Ruhi HI, Ergoren MC, Geçkinli BB, Sag SO, Gözden HE, Oz O, Altıntaş ZM, Yalcıntepe S, Keskin A, Tak AY, Paskal ŞA, Yürekli UF, Demirtas M, Evren EU, Hanta A, Başdemirci M, Suer K, Balta B, Kocak N, Karabulut HG, Cobanogulları H, Ateş EA, Bozdoğan ST, Eker D, Ekinci S, Nergiz S, Tuncalı T, Yagbasan S, Alavanda C, Kutlay NY, Evren H, Erdoğan M, Altiner S, Sanlıdag T, Gonen GA, Vicdan A, Eras N, Eker HK, Balasar O, Tuncel G, Dundar M, Gurkan H, Temel SG. (2023)** Contribution of genotypes in Prothrombin and Factor V Leiden to COVID-19 and disease severity in patients at high risk for hereditary thrombophilia. *J Med Virol. Feb;95(2):e28457. doi: 10.1002/jmv.28457. PMID: 36597901.*

**Ergoren MC, Akan G, Guler E, Tuncel G, Akovalı D, Evren EU, Evren H, Suer HK, Sanlıdag T. (2023)** Sex and ABO Blood Differences in SARS-CoV-2 Infection Susceptibility. *Glob Med Genet. Jan 30;10(1):22-26. doi: 10.1055/s-0043-1761202.*

**Mamurova B, Akan G, Mogol E, Turgay A, Tuncel G, Evren EU, Evren H, Suer K, Sanlıdag T, Ergoren MC. (2023)** Strong Association between Vitamin D Receptor Gene and Severe Acute Respiratory Syndrome coronavirus 2 Infectious Variants. *Glob Med Genet. Feb 16;10(1):27-33. doi: 10.1055/s-0043-1761924.*

**Ergoren MC, Akan G, Volkan E, Kandemis E, Evren EU, Evren H, Volkan E, Tuncel G, Suer K, Sanlıdag T. (2023)** The "vaccine" hubbub: Viral load comparisons of SARS-CoV-2 Delta and Omicron variants against different vaccine-booster vaccine combinations. *J Med Virol. Jan;95(1):e28309. doi: 10.1002/jmv.28309.*

**Tuncel G, Hoti Q, Mocan G, Ergoren MC. (2022)** A review of the Mediterranean diet and nutritional genomics in relation to cancer in women. *J Prev Med Hyg. Oct 17;63(2 Suppl 3):E81-E86.*

**Dundar M, Fahrioglu U, Yildiz SH, Bakir-Gungor B, Temel SG, Akin H, Artan S, Cora T, Sahin FI, Dursun A, Sezer O, Gurkan H, Erdogan M, Gunduz CNS, Bisgin A, Ozdemir O, Ulgenalp A, Percin EF, Yildirim ME, et al. (2022)** Clinical and molecular evaluation of MEFV gene variants in the Turkish population: a study by the National Genetics Consortium. *Funct. Integr. Genomics. 22(3), 291–315.*

**Ismail AB, Naji MMS, Nebih I, Tuncel G, Ozbakir B, Temel SG, Tulay P, Mocan G, Ergoren MC. (2022)** "The expression profile of WNT/ $\beta$ -catenin signalling genes in human oocytes obtained from polycystic ovarian syndrome (PCOS) patients." *Zygote*. 30(4), 536–542.

**Tuncel G, Ergoren MC, Baddal B, Tulay P, Ozverel CS, Guler E, Suer HK, Sayan M, Sanlidag T. (2022)** Detection of SARS-CoV-2 N501Y mutation among SARS-CoV-2 variants of concern circulating in Northern Cyprus. *Future Virol.* 17(8), 523–528. doi/10.2217/fvl-2021-0273.

**Ergoren MC, Tuncel G, Ozverel CS, Sanlidag T. (2022)** "Designing In-House SARS-CoV-2 RT-qPCR Assay for Variant of Concerns." *Glob. Med. Genet.* 09(03), 252–257.

**Ergoren MC, Komurcu K, Tuncel G, Akan G, Ozverel CS, Dalkan C, Kalayci M, Sanlidag T. (2022)** "Impact of SARS-CoV-2 Delta and Omicron variants on viral burden and cycle threshold in BNT162b2-vaccinated 12–18 years group." *Brazilian J. Microbiol.* 1–4.

**Duman N, Tuncel G, Bisgin A, Bozdogan ST, Sag SO, Gul S, Kiraz A, Balta B, Erdogan M, Uyanik B, Canbek S, Ata P, Geckinli BB, Arslan Ates E, Alavanda C, Yesim Ozdemir S, Sezer O, Ozgon GO, Gurkan H, et al. (2022)** "Analysis of ACE2 and TMPRSS2 coding variants as a risk factor for SARS-CoV-2 from 946 whole-exome sequencing data in the Turkish population." *J. Med. Virol.* 94(11), 5225–5243. doi/full/10.1002/jmv.27976.

**Paolacci, S., Ergoren, M. C., De Forni, D., Manara, E., Poddesu, B., Cugia, G., Dhuli, K., Camilleri, G., Tuncel, G., Kaya Suer, H., Sultanoglu, N., Sayan, M., Dundar, M., Beccari, T., Ceccarini, M. R., Gonsel, I. S., Dautaj, A., Sanlidag, T., Connelly, S. T., Paolacci, S. (2021)** "In vitro and clinical studies on the efficacy of  $\alpha$ -cyclodextrin and hydroxytyrosol against SARS-CoV-2 infection." *European Review for Medical and Pharmacological Sciences*, 25(1), 81–89.

**Senturk, N.; Tuncel, G.; Dogan, B.; Aliyeva, L.; Dundar, M.S.; Ozemri Sag, S.; Mocan, G.; Temel, S.G.; Dundar, M.; Ergoren, M.C. (2021)** "BRCA Variations Risk Assessment in Breast Cancers Using Different Artificial Intelligence Models." *Genes*, 12(11): 1774. <https://doi.org/10.3390/genes12111774>

**Taşçıoğlu, N., Saatçi, Ç., Emekli, R., Tuncel, G., Eşel, E., & Dundar, M. (2021).** "Investigation of cytochrome p450 CYP1A2, CYP2D6, CYP2E1 and CYP3A4 gene expressions and polymorphisms in alcohol withdrawal." *Journal of Clinical Psychiatry*, 24(3), 298–306. <https://doi.org/10.5505/KPD.2021.60938>

**Ozkayalar, H, Ergoren, MC, Tuncel, G, Kurt, S, Cevik, E, Ozemri Sag, S, Yilmaz Ozguven, B, Kabukcuoglu, F, Mocan, G and Temel, ŞG. (2021)** "Mutation status and immunohistochemical correlation of mutations in gastrointestinal stromal tumors" *Balkan Journal of Medical Genetics*, vol.24, no.1, pp.67-72. <https://doi.org/10.2478/bjmg-2021-0006>

**Tuncel, G., Ergoren. MC., Baddal, B., Tulay, P., Arikan, A., Guler, E., Ozverel, CS., Suer, HK., Sayan, M., & Sanlidag, T. (2021).** "Comparison of RT-qPCR results of different gene targets for SARS-CoV-2 in asymptomatic individuals during COVID-19 pandemic." *The EuroBiotech Journal*, 5(s1), 26–31. <https://doi.org/10.2478/EBTJ-2021-0018>

**Tuncel, G., Kaymakamzade, B., Engindereli, Y., Temel, S. G., & Ergoren, M. C. (2021).** "A Homozygous Synonymous Variant Likely Cause of Severe Ciliopathy Phenotype." *Genes*, 12(6), 945. <https://doi.org/10.3390/genes12060945>

**Kashoura, Y., Serakinci, N., Beleva, N., Kaçamak, N. I., Tuncel, G., & Oz, U. (2021).** "WNT signaling pathway genes expression profile in isolated hypodontia." *Applied Nanoscience (Switzerland)*, 1, 3. <https://doi.org/10.1007/s13204-021-01850-3>

**Tuncel G, Akcan N, Gul S, Sag SO, Bundak R, Mocan G, Temel SG, Ergoren MC. (2021)** "Identification of a Novel De Novo COMP Gene Variant as a Likely Cause of Pseudoachondroplasia." *Appl Immunohistochem Mol Morphol.* <https://doi.org/10.1097/PAI.0000000000000914>. PMID: 33595934.

**MC, Ergoren, Paolacci S, Manara E, Dautaj A, Dhuli K, Anpilogov K, Camilleri G, Suer HK, Sayan M, Tuncel G, Sultanoglu N, Farronato M, Tartaglia GM, Dundar M, Farronato G, Günsel IS, Bertelli M, and Sanlidag T. (2020)** "A pilot study on the preventative potential of alpha-cyclodextrin and hydroxytyrosol against SARS-CoV-2 transmission." *Acta bio-medica : Atenei Parmensis* 91 (13-S). <https://doi.org/10.23750/abm.v91i13-S.10817>

**Ergoren, M. C., Tuncel, G., Sag, S. O., & Temel, S. G. (2020)** "A rare case of fructose-1,6-bisphosphatase deficiency: a delayed diagnosis story," *Turkish Journal of Biochemistry*, 45(5), 613-616. doi: <https://doi.org/10.1515/tjb-2019-0473>

**Ergoren, M.C., E. Manara, S. Paolacci, H. Cobanogullari, G. Tuncel, M. Betmezoglu, M. Bertelli, and T. Sanlidag. (2020)** "The Biennial report: The collaboration between MAGI Research, Diagnosis and Treatment Center of Genetic and Rare Diseases and Near East University DESAM Institute." *The EuroBiotech Journal* 4 (4). <https://doi.org/10.2478/ebtj-2020-0020>.

**R, Emekil, İsmalloğullari S, Bayram A, Akalin H, Tuncel G, and Dündar M. (2020)** Comparing expression levels of PERIOD genes PER1, PER2 and PER3 in chronic insomnia patients and medical staff working in the night shift. *Sleep medicine* 73. doi: 10.1016/j.sleep.2020.04.027.

**E, Kandemis, Tuncel G, Asut O, Temel SG, and Ergoren MC. (2020)** Strong Association between Serotonin Transporter 5-HTTVNTR Variant and Psychoactive Substance (Nicotine) Use in the Turkish Cypriot Population. *Current drug metabolism*. doi: 10.2174/1389200221666200620201348.

**SG, Temel, Ergoren MC, Manara E, Paolacci S, Tuncel G, Gul S, and Bertelli M. (2020)** Unique combination and in silico modeling of biallelic POLR3A variants as a cause of Wiedemann-Rautenstrauch syndrome. *European journal of human genetics: EJHG*.

**Gelener, P., Tuncel, G., Manara, E., Paolacci, S., Tuzlali, H., Severino, M., Bertelli, M., Ergoren, M.C. (2020)** A Rare and An Unusual Presentation of Asymptomatic Glutaric Aciduria Type I In A 35-Year-Old Woman. *Neurogenetics* 1-8.

**Tuncel, G. and M.C. Ergoren (2019)** Functional coding and non-coding variants in human BRCA1 gene and their use in genetic screening. *Med Oncol.* 36(8): p. 71.

**Tuncel, G., Temel S.G., and Ergoren M.C. (2019)** Strong association between VDR FokI (rs2228570) gene variant and serum vitamin D levels in Turkish Cypriots. *Mol Biol Rep*, 46(3): p. 3349-3355.

**Tuncel, G. and Kalkan, R. (2019)** Importance of m N(6)-methyladenosine (m(6)A) RNA modification in cancer. *Med Oncol.* 36(4): p. 36.

**Tuncel, G. and Kalkan, R. (2018)** Receptor Tyrosine Kinase-Ras-PI3 Kinase-Akt Signalling Network In Glioblastoma Multiforme, *Med Oncol.* Aug 4;35(9): p. 122.

## 7.2. Uluslararası diğer hakemli dergilerde yayınlanan makaleler

**Güler E, Taner F, Şanlıdağ E, Tulay P, Ergören MÇ, Baddal B, Özverel CS, Tuncel G, Süer K, Şanlıdağ T. (2023)** Comparison of the Rapid Antigen Test to RT-qPCR in Diagnosis of SARS-CoV-2: A University Experience in Northern Cyprus. *Clinical and Experimental Health Sciences.* Sep;13(3):525 – 529 doi:10.33808/clinexphealthsci.1082079.

## 7.3. Uluslararası bilimsel toplantılarda sunulan ve bildiri kitabında basılan bildiriler

European Society of Human Genetics 2020- "CC2D1A As A Novel Ciliopathy Gene"

European Society of Human Genetics 2021- "Characterizing a de novo TRIO gene variant as a likely cause of autosomal dominant Intellectual developmental disorder type 63 with macrocephaly"

European Society of Human Genetics 2022- "Sequencing and Commercial Intelligent Ratio Based Real-Time PCR Outperform MLPA in Prenatal Diagnosis for Spinal Muscular Atrophy"

XL. International Turkish Microbiology Congress 2022- "The role of PCR laboratories in the diagnosis of COVID-19, problems, approaches and solutions Near East experience"

#### **7.4. Yazılan ulusal/uluslararası kitaplar veya kitaplarda bölümler**

"Precision Nutrition: Mediterranean Diet and Genetic Susceptibility" Chapter  
Ergören, M.C. and Tuncel, G.  
The Mediterranean Diet, 2<sup>nd</sup> Edition. Elsevier, 2019

#### **7.5. Ulusal hakemli dergilerde yayınlanan makaleler**

### **8. Sanat ve Tasarım Etkinlikleri**

### **9. Projeler**

Hepatit D Virus Real-Time Pcr Tanı Kitinin Geliştirilmesi (2022-086)

Ardışık kütle spektrometrisi ile genişletilmiş yenidoğan taramasında ikincibasamak moleküler ayırıcı tanı için üçüncü yeni nesil dizileme teknolojisi kullanılarak kit geliştirme (39456)

### **10. İdari Görevler**

### **11. Bilimsel ve Mesleki Kuruluşlara Üyelikler**

### **12. Ödüller**

2020 YDÜ Genç Araştırmacı Ödülü

2021 YDÜ Genç Araştırmacı Ödülü

2021 YDÜ Genç Araştırmacı Özendirme Ödülü

2022 YDÜ Genç Araştırmacı Özendirme Ödülü

### **13. Son İki Yılda Verilen Lisans ve Lisansüstü Dersler**

| Akademik Yıl | Dönem | Dersin Adı                            | Haftalık Saati |          | Öğrenci Sayısı |
|--------------|-------|---------------------------------------|----------------|----------|----------------|
|              |       |                                       | Teorik         | Uygulama |                |
| 2021 - 2022  | Güz   | MBG201 Chromosome Dynamics            | 2              | 1        | 23             |
|              | Bahar | TBG601 Principles of Medical Genetics | 3              | -        | 20             |
|              | Bahar | MOM603 Seminar                        | 1              | -        | 4              |
|              |       |                                       |                |          |                |
|              |       |                                       |                |          |                |
|              |       |                                       |                |          |                |
| 2022 - 2023  | Güz   | TBG601 Principles of Medical Genetics | 3              | -        | 15             |
|              | Bahar | MLB102 Medical Biology and Genetics   | 3              | -        | 27             |
|              | Bahar | TBG601 Principles of Medical Genetics | 3              | -        | 8              |
|              |       |                                       |                |          |                |
|              |       |                                       |                |          |                |
|              |       |                                       |                |          |                |