

**ACADEMIC
CURRICULUM VITAE**

1. Name - Surname: Gülten Tuncel

2. Title: Dr, *PhD*

3. Educational Background:

Degree	Department/Program	University	Year
Bachelor's	Genetics	University of Manchester	2013
Master's	Biology	Middle East Technical University	2016
PhD	Molecular Medicine	Near East University	2021

4. Master's / PhD Thesis

4.1. Master's Thesis Title and Thesis Advisor(s):

Dynamic Alternative Polyadenylation Events in Mammary Gland Development,

Prof. Dr. Elif Erson Bensen

4.2. PhD Thesis / Medical Specialty Thesis Title and Advisor(s):

CC2D1A as a Novel Ciliopathy Gene

Assoc. Prof. Mahmut Çerkez Ergören

5. Academic Titles:

Date of Assistant Professorship: -

Date of Associate Professorship: -

Date of Professorship: -

6. Supervised Master's and PhD Theses:

6.1. Master's Theses:

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. PhD Theses: -

7. Publications

7.1. Articles Published in International Peer-Reviewed Journals (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, Sanlidag 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, Cobanoğulları H, Ateş EA, Bozdoğan ST, Eker D, Ekinci S, Nergiz S, Tuncalı T, Yagbasan S, Alavanda C, Kutlay NY, Evren H, Erdoğan M, Altınar S, Sanlidag 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, Sanlidag 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, Sanlidag 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, Sanlidag 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/ β -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., Gunsell, I. S., Dautaj, A., Sanlidag, T., Connelly, S. T., Paolacci, S. (2021) "In vitro and clinical studies on the efficacy of α -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 Dünder 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. Articles Published in Other International Peer-Reviewed Journals

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. Papers Presented at International Scientific Conferences and Published in Conference Proceedings

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. National/international Books or Book Chapters

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

7.5. Articles Published in National Peer-Reviewed Journals

8. Art and Design Activities

9. Projects

Development of Hepatitis D Virus Real-Time PCR Diagnostic Kit (2022-086)

Kit development using third next-generation sequencing technology for second-line molecular differential diagnosis in extended newborn screening with tandem mass spectrometry (39456)

10. Administrative Responsibilities

11. Memberships in Scientific and Professional Organizations

12. Awards

2020 NEU Young Investigator Award

2021 NEU Young Investigator Award

2021 NEU Young Investigator Incentive Award

2022 NEU Young Investigator Incentive Award

13. Undergraduate and Graduate Courses Taught in the Last Two Years

Academic Year	Semester	Course Name	Weekly Hours		Number of Students
			Theoretical	Practical	
2021 - 2022	Fall	MBG201 Chromosome Dynamics	2	1	23
	Spring	TBG601 Principles of Medical Genetics	3	-	20
	Spring	MOM603 Seminar	1	-	4
2022 - 2023	Fall	TBG601 Principles of Medical Genetics	3	-	15
	Spring	MLB102 Medical Biology and Genetics	3	-	27
	Spring	TBG601 Principles of Medical Genetics	3	-	8