

CURRICULUM VITAE

Personal Information

Name-Surname: FEZİLE ÖZDEMİR

Date of Birth: 25 June 1991

Place of Birth: Nicosia/Cyprus

email: fezile.ozdemir@final.edu.tr

Tel: +90548 860 8921

Education:

Bachelor's Degree in Biology. Ankara University, Ankara (Turkey) (2009-2013).

Master of Science Degree in Forensic Chemistry and Forensic Toxicology. Ankara University, Ankara (Turkey) (2013-2015).

Thesis Title: Effect of GLUT1 gene polymorphism on urine arsenic levels of individuals occupationally exposed to arsenic.

Doctor of Philosophy Degree in Forensic Chemistry and Forensic Toxicology. Ankara University, Ankara (Turkey) (2015-2020).

Thesis Title: Determination of The Effect of ABCB1 C3435T and UGT1A4 L48V Gene Polymorphisms on Clozapine and Norclozapine Blood Levels in Schizophrenic Patients.

Traineeships:

Erasmus Traineeship Programme (16/09/2019–13/12/2019). Molecular Medicine Center, Medical University of Sofia, Sofia (Bulgaria)

Eastern Mediterranean University, Famagusta (Cyprus) (2017-2018)

I helped to colleagues as a volunteer 2017 and 2018 summer semesters in Pharmaceutical Toxicology Laboratory lesson

Wildlife Rehabilitation Centre, Taskent Nature Park, Taşkent (Cyprus) (2019)

I did internship in scope of Inspiring the Future Project (funded by European Union. I helped to collect biological samples from exotic and wild animals for create a biobank.

Current Position:

- Faculty of Pharmacy International Final University, Full Time Instructor

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Job-Related Skills:

- Genomic DNA isolation with varies methods
- Primer designing for PCR
- Amplification of DNA fragments using varies PCR techniques
- Agarose and polyacrylamide electrophoresis
- Restriction fragment length polymorphism assay
- DNA Sequencing

- Liquid-liquid and solid phase extraction of chemicals from biological samples
- Determination and qualification of drugs and metabolites using chromatography
- COMET assay for determination of chemicals genotoxicity
- Microwave digestion of biological samples for Atomic Absorption Spectroscopy

Foreign Language:

YÖKDİL: 81.25

Honours and Awards

- Graduated at third place from Biology Department Ankara University, 2013
- 2211-C Domestic Priority PhD Scholarship Program, Scientific and Technological Research Council of Turkey

Projects:

PhD Thesis Projects: "Determination of The Effect of ABCB1 C3435T and UGT1A4 L48V Gene Polymorphisms on Clozapine and Norclozapine Blood Levels in Schizophrenic Patients", Ankara University Scientific Research Projects (18L0217001), (2018-)

Articles published in international journals:

- **Ozdemir F**, Oz MD, Tok KC, Dural E, Kır Y, Gumustas M, Baskak B, Suzen HS. The effects of UGT1A4 and ABCB1 polymorphisms on clozapine and N- desmethyl clozapine plasma levels in Turkish schizophrenia patients. *Toxicol Appl Pharmacol*. 2025 Jan 4;495:117219. doi: 10.1016/j.taap.2024.117219. Epub ahead of print. PMID: 39761923.
- Demirbugen Oz M, **Ozdemir F**, Tok KC, Dural E, Kır Y, Ulusoy M, Gumustas M, Baskak B, Suzen HS. The potential role of POR*28 and CYP1A2*f genetic variations and lifestyle factors on clozapine and n-desmethylclozapine plasma levels in schizophrenia patient. *Expert Opinion On Drug Metabolism & Toxicology* (2023).
- Demirbugen Oz M, **Ozdemir F**, Suzen HS. The Influence of Genetic Variations and Drug Interactions Based on Metabolism of Antidepressants and Anticonvulsants. *Current Drug Metabolism* (2020) 21: 1. doi: 10.2174/1389200221999201125211058
- Kır Y, Baskak B, Kusman A, Sayar-Akaslan D, **Ozdemir F**, Sedes- Baskak N, Suzen HS, Baran Z. The Relationship Between Plasma Levels of Clozapine And N-Desmethylclozapine As well As M1 Receptor Polymorphism With Cognitive Functioning And Associated Cortical Activity In Schizophrenia. *Psychiatry Research: Neuroimaging*. 2020 June 15. <https://doi.org/10.1016/j.psychresns.2020.111128>. [Epub ahead of print], PMID:111128.
- **Ozdemir F**, Dural E, Baskak NS, Kır Y, Baskak B, Suzen HS. The Association of CYP2D6*4 and POR*28 Polymorphisms on Mirtazapine Plasma Level in Subjects with Major Depressive Disorder and Anxiety Disorders. *Comb Chem High Throughput Screen*. 2020 Apr 1. doi: 10.2174/1386207323666200402081512. [Epub ahead of print], PMID:32238137.
- **Ozdemir F**, Uçan Y, Tok KC, Baskak B, Suzen HS (2019). A Novel Genotyping Method for Detection of Muscarinic Receptor M1 Gene rs2067477 Polymorphism and Its Genotype/Allele Frequencies in a Turkish Population. *Turkish Journal of Pharmaceutical Sciences*, Doi: 10.4274/tjps.46793 (Publication No: 5781937)
- **Ozdemir F**, Demirbugen Oz M and Suzen HS, "A Novel PCR-RFLP Method for Detection of POR*28 Polymorphism and its Genotype/Allele Frequencies in a Turkish Population", *Current Drug Metabolism* (2019) 20: 845-851. <https://doi.org/10.2174/1389200220666190913121052>

- Yüksel B, Kaya- Akyüzlü D, Kayaaltı Z, **Ozdemir F**, Söylemez- Gökyer D, Söylemezoğlu T (2017). Study of BloodIron vs. Blood Lead Levels in Beta-Thalassemia Patients in Turkey: An Application of Analytical Toxicology. Atomic Spectroscopy, 38(2):71-76.

Articles published in national journals:

- Kayaaltı Z, **Özdemir F**, Kaya-Akyüzlü D, Söylemezoğlu T. “Genotype and Allele Frequencies of -2841A>T Polymorphism in Glucose Transporter 1 gene in Turkish Population”. Marmara Pharmaceutical Journal 2016; 20(2): 152-156. doi:10.12991/mpj.20162067368.
- Kaya-Akyüzlü D, Kayaaltı Z, **Özdemir F**, Tutkun E, Söylemezoğlu T. “Association between multidrugresistance associated protein 1 (MRP1) G1666A gene polymorphism and urinary arsenic levels.” Marmara Pharmaceutical Journal 2016;20(1): 28-33. doi:10.12991/mpj.2016202877554.
- **Özdemir F**, Kayaaltı Z, Kaya-Akyüzlü D. “Toxic Effects of Xenobiotics on DNA and Toxicogenetics”. Marmara Pharmaceutical Journal 2015;19(3):246-251. doi: 10.12991/mpj.20151927137.

Published Books:

- Şahin G., Sanajou S., Bereket C., Akkartal Ş., Özdemir F., “Pharmaceutical Toxicology”, Doğu Akdeniz Üniversitesi, Kuzey Kıbrıs, 2018.

Published Book Chapters:

- **Özdemir F**. Volatile Organic Compounds from Pesticide Application and Contribution to Tropospheric Ozone. Chapter Author: Marty M, Spurlock F, Barry T. Hayes Pesticide Toxicology Handbook, (Editor: Robert Krieger) T.C. Ministry of Health, Chapter 19, pp. 581-595. (Book Chapter Translation)
- **Özdemir F**. Agricultural Chemical Percutaneous Absorption and Decontamination. Chapter Author: Chan HP, Zhai H, Wester RC, Maibach HI. Hayes Pesticide Toxicology Handbook, (Editor: Robert Krieger) T.C. Ministry of Health, Chapter 27, pp. 697-714. (Book Chapter Translation)
- **Özdemir F**. Metabolic Interactions of Pesticides. Chapter Author: Hodgson E. Hayes Pesticide Toxicology Handbook, (Editor: Robert Krieger) T.C. Ministry of Health, Chapter 40, pp. 965-984. (Book Chapter Translation)
- **Özdemir F**. Worker Exposure: Methods and Techniques. Chapter Author: Chester G. Hayes Pesticide Toxicology Handbook, (Editor: Robert Krieger) T.C. Ministry of Health, Chapter 52, pp. 1163- 1174. (Book Chapter Translation)

Papers presented at national scientific meetings and published in the proceedings:

- **Ozdemir F**, Kayaaltı Z, Kaya Akyüzlü D. “Silent Evidence in Forensic Science: The Importance of Body Hair In Forensic Cases”. Spring Symposium of Forensic Science, 2014, Marmaris, Turkey (Oral Presentation).
- Cantürk N, Parlakgörür M, **Ozdemir F**. “Allegation of Medical Malpractice in Dialysis Unite: A case report”. Spring Symposium of Forensic Science, 2014, Marmaris, Turkey (Poster Presentations).

Papers presented at international scientific meetings and published in the proceedings:

- Demirbugen Oz M, **Ozdemir F**, Tok KC, Dural E, Kır Y, Ulusoy M, Gumustas M, Baskak B, Suzen HS. Assessment of Genetic and Lifestyle Factors on Clozapine and N-

desmethylclozapine Plasma Levels in Schizophrenia Patients. XVth Symposium of the Task Force Therapeutic Drug Monitoring of the AGNP, Pharmacopsychiatry 2024; 57(02): 87 - 87, Germany. 10.1055/s-0044-1779559(**Oral Presentation**).

- **Ozdemir F**, Tok KC, Dural E, Gümüştas M, Baskak B, Suzen HS. “The Effect of Pharmacokinetic Genes Polymorphisms to the Plasma Clozapine and Norclozapine Levels in Patient with Schizophrenia”. 33rd International Symposium on Pharmaceutical and Biomedical Analysis, 2-6 July, 2023, Ankara, Turkey (**Oral Presentation**)
- Tok KC, **Ozdemir F**, Gumustas M, Suzen HS . “Rapid Determination of Clozapine and Main Metabolite by High Performance Liquid Chromatography”. 1st International Congress on Analytical and Bioanalytical Chemistry, 27-30 March-2019, Antalya, Turkey (**Oral Presentation**).
- Kayaaltı Z., Kaya-Akyüzlü D., **Özdemir F.**, Yüksel B., Söylemezoğlu T. Association between MDR1 C1236T polymorphism and blood, hair and urinary mercury levels in Turkish women. 52nd European Congress of the European Societies of Toxicology, 04-07- September, 2016, Seville, Spain. Poster No:P16-078. Published in **Toxicology Letters 2016; 258S:S260. <http://dx.doi.org/10.1016/j.toxlet.2016.06.1917>**
- Kaya-Akyüzlü D., Kayaaltı Z., **Özdemir F.**, Yüksel B., Söylemezoğlu T. Effect of transferrin -576G/A and 3296G>A gene polymorphisms on blood iron and lead levels in beta-thalassemia major patients. 52nd European Congress of the European Societies of Toxicology, 04-07- September, 2016, Seville, Spain. Poster No:P20-006. Published in **Toxicology Letters 2016; 258S:S295. <http://dx.doi.org/10.1016/j.toxlet.2016.06.2025>**
- Kayaaltı Z., Kaya-Akyüzlü D., Yüksel B., **Özdemir F.**, Söylemezoğlu T. Is there a relationship between metallothionein polymorphism and mercury levels of maternal blood, placental tissue and cord blood? 52nd European Congress of the European Societies of Toxicology, 04-07- September, 2016, Seville, Spain. Poster No:P19-023. Published in **Toxicology Letters 2016; 258S:S290. <http://dx.doi.org/10.1016/j.toxlet.2016.06.2008>**.
- Kaya-Akyüzlü D., Kayaaltı Z., **Özdemir F.**, Yüksel B., Söylemezoğlu T. Effect of metallothionein polymorphism on blood, hair and urinary mercury levels in Turkish women. 52nd European Congress of the European Societies of Toxicology, 04-07-September, 2016, Seville, Spain. Poster No:P10-070. Published in **Toxicology Letters 2016; 258S:S202. <http://dx.doi.org/10.1016/j.toxlet.2016.06.1736>**.
- Kaya-Akyüzlü D., Kayaaltı Z., Yüksel B., **Özdemir F.**, Söylemezoğlu T. Maternal MDR1 C1236T polymorphism and mercury levels in a triad of mother-placenta-fetus. 52nd European Congress of the European Societies of Toxicology, 04-07- September, 2016, Seville, Spain. Poster No:P10-065. Published in **Toxicology Letters 2016; 258S:S200--01. <http://dx.doi.org/10.1016/j.toxlet.2016.06.1732>**.
- Kayaaltı Z., Söylemez D., Kaya-Akyüzlü D., **Özdemir F.**, Yüksel B., Söylemezoğlu T. Does HFE H63D gene polymorphism has an effect on blood iron, lead and cadmium levels of Turkish beta-thalassemia major patients? 52nd European Congress of the European Societies of Toxicology, 04-07- September, 2016, Seville, Spain. Poster No:P10-043. Published in **Toxicology Letters 2016; 258S:S194. <http://dx.doi.org/10.1016/j.toxlet.2016.06.1710>**.
- Özdemir F, Kayaaltı Z, Kaya- Akyüzlü D. “Genetic Discrimination and Genetic Susceptibility”. 2nd International Congress of Forensic Toxicology- Industrial and Environmental Toxicology, 2016, Ankara, Turkey. Poster No:204; Page:28. **The Turkish Journal of Occupational/Environmental Medicine and Safety 2017;2(Suppl 1):p.308-308.**

- Kahiloğulları G, Kayaaltı Z, Kaya- Akyüzlü D, Eroğlu U, Kılınç M C, **Özdemir F**, Söylemezoğlu T. “Investigating of The Effect of Gene Polymorphisms and Toxicological Parameters in Myelomeningocele”. 2nd International Congress of Forensic Toxicology- Industrial and Environmental Toxicology, 2016, Ankara, Turkey. Poster No:200; Page:28. **The Turkish Journal of Occupational/Environmental Medicine and Safety 2017;2(Suppl 1):p.304-304.**
- Kayaaltı Z, **Özdemir F**, Can F, Kaya- Akyüzlü D, Bal C, Nural C. “Comparison of Disulfide/Thiol Homeostasis as A Biomarker of Oxidative Stress in Hijama Blood and Venous Blood”. 2nd International Congress of Forensic Toxicology- Industrial and Environmental Toxicology, 2016, Ankara, Turkey. Poster No:182; Page:26. **The Turkish Journal of Occupational/Environmental Medicine and Safety 2017;2(Suppl 1):p.286-286.**
- **Özdemir F**, Kaya- Akyüzlü D, Kayaaltı Z. “Occupational Exposure to Arsenic in Turkey: An Evaluation From Legal and Toxicogenetic Perspective”. 2nd International Congress of Forensic Toxicology- Industrial and Environmental Toxicology, 2016, Ankara, Turkey. Page:8. **The Turkish Journal of Occupational/Environmental Medicine and Safety 2017;2(Suppl 1):p.54-54. (Oral Presentation).**
- Kartal Y, Kayaaltı Z, Kaya- Akyüzlü D, **Özdemir F**, Söylemezoğlu T. “Effect of IRP 1 AND IRP 2 Gene Polymorphisms on Blood Iron Levels of Thalassemia Patients in Turkish Population”. 2nd International Congress of Forensic Toxicology- Industrial and Environmental Toxicology, 2016, Ankara, Turkey. Page:5. **The Turkish Journal of Occupational/Environmental Medicine and Safety 2017;2(Suppl 1):p.31-31. (Oral Presentation)**
- Eroğlu U, Kaya- Akyüzlü D, Kahiloğulları G, Yüksel B, Bayatlı E, **Özdemir F**, Kayaaltı Z. “Metals, Toxicological Agents and Gene Polymorphism: What Do They Mean For Tumor Etiopathogenesis?”. 2nd International Congress of Forensic Toxicology- Industrial and Environmental Toxicology, 2016, Ankara, Turkey. Page:6. **(Oral Presentation).**
- Kayaaltı Z, Kaya- Akyüzlü D, Yüksel B, **Özdemir F**, Söylemezoğlu T. “Comparison of blood iron and lead levels in beta-thalassemia patients and healthy controls”. 9th Congress of the Turkish Society of Toxicology with participation of the Hellenic Society of Toxicology. 2015, İzmir, Turkey. P2; page:30. **(Poster Presentations).**
- Kayaaltı Z, Kaya- Akyüzlü D, **Özdemir F**, Söylemez- Gökyer D, Ahsen- Kara B, Söylemezoğlu T. “Is there a differences between the thalassemia patient and control group in GSTO1 and GSTO2 genotype distribution?”. 51th Congress of the European Societies of Toxicology. 2015, Porto, Portuguese. Published in **Toxicology Letters 2015; 238S:S373. doi: 10.1016/j.toxlet.2015.08.1066 (ISI). (Poster Presentations)**
- Kayaaltı Z, Kaya- Akyüzlü D, Söylemez- Gökyer D, **Özdemir F**, Söylemezoğlu T. “Is there a relationship between VDR FokI gene polymorphism and beta- thalassemia?”. 51th Congress of the European Societies of Toxicology. 2015, Porto, Portuguese. Published in **Toxicology Letters 2015; 238S:S368. doi: 10.1016/j.toxlet.2015.08.1051. (ISI). (Poster Presentations)**
- Öztürk F, **Özdemir F**, Kaya- Akyüzlü D, Kayaaltı Z, Avcı A, Söylemezoğlu T. “ Is thalassemia associated with MnSOD Ala16Val polymorphism in Turkish population?”. 51th Congress of the European Societies of Toxicology. 2015, Porto, Portuguese. Published in **Toxicology Letters 2015; 238S:S235. doi: 10.1016/j.toxlet.2015.08.692. (ISI). (Poster Presentations)**
- Kayaaltı Z, Kaya- Akyüzlü D, Söylemez- Gökyer D, **Özdemir F**, Söylemezoğlu T. “ Is MDR1 C1236T Polymorphism Associated with Thalassemia?”. 51th Congress of the European Societies of Toxicology. 2015, Porto, Portuguese. Published in **Toxicology**

Letters 2015; 238S:S228. doi: 10.1016/j.toxlet.2015.08.675. (ISI). (Poster Presentations)

- Kayaaltı Z, Kaya- Akyüzlü D, Kartal Y, **Özdemir F**, Söylemezoğlu T. “Thalassemia is not associated with G>A-IRP1 (rs867469) gene polymorphism in Turkish population”. 51th Congress of the European Societies of Toxicology. 2015, Porto, Portuguese. Published in **Toxicology Letters 2015; 238S:S380. doi: 10.1016/j.toxlet.2015.08.1084. (ISI). (Poster Presentations)**
- Kaya- Akyüzlü D, Kayaaltı Z, **Özdemir F**, Türksöy V A, Tutkun E, Söylemezoğlu T. “The interaction between the MRP1 G1666A and MRP2 G4544A polymorphism on the blood and urinary arsenic levels”. 51th Congress of the European Societies of Toxicology. 2015, Porto, Portuguese. Published in **Toxicology Letters 2015; 238S:S142. doi: 10.1016/j.toxlet.2015.08.447. (ISI). (Poster Presentations)**
- **Özdemir F**, Kayaaltı Z, Kaya- Akyüzlü D, Tutkun E, Söylemezoğlu T. “Distribution of Glucose Transporter Protein 1 (GLUT1) A2841T Polymorphism in Turkish Population”. 51th Congress of the European Societies of Toxicology. 2015, Porto, Portuguese. Published in **Toxicology Letters 2015; 238S:S228. doi: 10.1016/j.toxlet.2015.08.676. (ISI). (Poster Presentations)**
- **Özdemir F**, Kayaaltı Z, Kaya- Akyüzlü D, Tutkun E, Söylemezoğlu T. “Effect of Glut1 A2841T Polymorphism on Urinary Arsenic Levels of Individuals Exposed to Arsenic Occupationally”. 51th Congress of the European Societies of Toxicology. 2015, Porto, Portuguese. Published in **Toxicology Letters 2015; 238S:p.362-363. doi: 10.1016/j.toxlet.2015.08.1035. (ISI). (Poster Presentations)**
- Kaya- Akyüzlü D, Kayaaltı Z, **Özdemir F**, Söylemezoğlu T. “Genetic susceptibility to autism: a case report”. 51th Congress of the European Societies of Toxicology. 2015, Porto, Portuguese. Published in **Toxicology Letters 2015; p.238-341. doi: 10.1016/j.toxlet.2015.08.974. (ISI). (Poster Presentations)**
- Akyüzlü D, **Özdemir F**, Kayaaltı Z. “Effect of Chronic Arsenic Exposure and Glut1 Polymorphism In The Development of Diabetes Mellitus”, 1st International Congress and Workshop of Forensic Toxicology. 2014, Ankara, Turkey. Published in **The Turkish Journal of Occupational/Environmental Medicine and Safety 2015;1(Suppl 1):P102. (Poster Presentations)**
- Akyüzlü D, Kayaaltı Z, **Özdemir F**, Söylemezoğlu T. “MRP1 G1666A Gene Polymorphism is Associated with Urine Arsenic Level”, 1st International Congress and Workshop of Forensic Toxicology, 2014, Ankara. **The Turkish Journal of Occupational/Environmental Medicine and Safety 2015;1(Suppl 1):P79. (Poster Presentations)**
- **Özdemir F**, “Mining Pollution in Turkish Republic of Northern Cyprus: an overview”. 1st International Congress and Workshop of Forensic Toxicology. 2014, Ankara, Turkey. **The Turkish Journal of Occupational/Environmental Medicine and Safety 2015;1(Suppl 1): S20. (Oral Presentation)**
- **Özdemir F.**, Kayaaltı Z. Factors Affecting the Level of Alcohol in Forensic Cases and Alcohol Level Biomarkers. XI. International Anatolian Forensic Sciences Congress; 23-25 October 2014 Bayburt, Turkey. Page: 32-33; **P17. (Poster Presentations)**
- Kayaaltı Z, Kaya Akyüzlü D, Söylemez E, Tutkun E, **Özdemir F**, Bal C, Söylemezoğlu T. “Glutathione-S-Transferase P1 Ile105Val Gene Polymorphism and Acute Elemental Mercury Exposure”. 50th Congress of the European Societies of Toxicology, Edinburgh, Scotland. **Toxicology Letters 2014; 229S:S229. doi:10.1016/j.toxlet.2014.06.768. (ISI). (Poster Presentations).**
- Kaya Akyüzlü D, Kayaaltı Z, Söylemez E, Bal C, **Özdemir F**, Tutkun E, Söylemezoğlu T. “Effect of Glutathione-S-Transferase Omega 2 N142D Gene Polymorphism on

Urinary Mercury Levels in School-Aged Children". 50th Congress of the European Societies of Toxicology, Edinburgh, Scotland. **Toxicology Letters 2014; 229S:S89. doi:10.1016/j.toxlet.2014.06.334. (ISI). (Poster Presentations).**

Scientific Courses and Symposium

2023-3rd International Symposium on Pharmaceutical and Biomedical Analysis, Ankara, Turkey

2013- 4th Experts Symposium, Ankara, Turkey.

2013- Forensic Anthropology Course, Ankara, Turkey

2014- New Fields in Forensic Science, Ankara, Turkey

2014- Forensic Psychology Days, Ankara, Turkey.

2014- Spring Symposium of Forensic Science, Marmaris, Turkey.

Seminars Given

2024-Toksikogenetik ve Terapotik Yaklaşımlar, European University of Lefke

Scientific Congresses

2012- 7th National Evolution Congress, Ankara, Turkey.

2013- 10th International Participation Anatolia Congress of Forensic Science, Malatya, Turkey.

2013- 1st Children and Information Security Congress, Ankara, Turkey.

2014- 2nd Disaster Victim Identification Congress, Ankara, Turkey.

2014- 11th International Anatolia Congress of Forensic Science, Bayburt, Turkey.

2014- 1st International Congress of Forensic Biology and Genetics, Ankara, Turkey.

2014, "1st International Congress and Workshop of Forensic Toxicology", Ankara, Turkey.

2016, "2nd International Congress of Forensic Toxicology- Industrial and Environmental Toxicology", Ankara, Turkey.

References:

Prof.Dr. H. Sinan SÜZEN- Ankara University, Institute of Forensic Sciences

Prof.Dr. Radka KANEVA- Medical University of Sofia, Molecular Medicine Center

Profç Dr. Şermin TETİK- European University of Lefke

Doç.Dr. Dilek KAYA AKYÜZLÜ- Ankara University, Institute of Forensic Sciences