

## Dr Hazal Gezmis Gokce

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Date of Place: Türkiye



### Education Profile

Year	Place of Education
2022-2019-2023	Istanbul University, Open and Distance Education Faculty, Computer Programming (2-year Programme) University of Oxford, Department of Materials (DPhil) (Scholar by Republic of Türkiye, Ministry of National Education)
2015-2018	Yeditepe University, Graduate School of Natural and Applied Sciences, Department of Biotechnology (MSc) (Scholar by The Scientific and Technological Research Council of Turkey (TUBITAK))
Feb-Jun 2014	Maria Curie-Sklodowska University (UMCS) Erasmus Student Exchange Programme
2011-2015	Istanbul University, Faculty of Science, Department of Molecular Biology and Genetics (BSc)
2007-2011	Zonguldak Atatürk Anatolian High School

### Skills

Language Skills	
English	Advanced
German	Pre-Intermediated
IT Skills	
Microsoft Office	2021-Expert
MacOS Sonomo 14.	Good
Adobe Photoshop CC	2023-Expert
Adobe Illustrator	2023-Good
EndNote X9	Good
Prism	6/7-Expert
Image J	Expert
Origin	Good
MATLAB	Beginner
Teaching Skills	
Teaching Assistant	Cambridge Centre for International Research (CCIR) - Developmental Biology: Stem Cells, Organ Development, Model Organisms (Ongoing) 2022-
Career Skills	
Communication Coordinator	SciGether (A scientific consultant platform that aims to bring academics, students, and industry together) 2020-
McKinsey Forward Program	Advanced Level (Completed)
Certificates	
Experimental Animals Use	2023- Mouse, Rat, Rabbit, Guinea Pig
Laboratory Knowledge	
Cell Culture [IPS-CMs, MSCs, IMR90, M180, PC12, HUVECs (cell line and primary culture), SAOS, SHSY5Y, Meningeal Cells] Cell Proliferation/Cytotoxicity Assays (MTT, MTS, Alamar Blue, LDH) qPCR Techniques Microscopy Techniques [Confocal Microscopy (Zeiss & Olympus) and Fluorescence Microscopy (Leica & Zeiss), Scanning Electron Microscopy (Zeiss)] Histological Analysis (Tissue Fixation, OCT/Paraffin Embedding, Sectioning/Cryo-sectioning, IHC) Spectrophotometric Analysis (ELISA) FACS&MACS Electrospinning Western Blotting Lyophilisation FT-IR Dynamic Mechanical Testing $\mu$ -CT	

### Projects

- Role of ApoE gene mutations in obstructive sleep apnea syndrome**, 2016. Yeditepe University, Yeditepe University Clinical Research Ethics Committee Degree No: 495) (Researcher)
- Investigation of genetic factors affecting the formation of stent restenosis in patients with coronary artery disease**, 2016. Yeditepe University, Yeditepe University Clinical Research Ethics Committee Degree No: 561) (Researcher)
- Investigation of the relationship between type I diabetes mellitus and VDR, VDBP gene mutations and factors affecting vitamin D metabolism**, 2016. Yeditepe University, Yeditepe University Clinical Research Ethics Committee Degree No: 637) (Researcher)
- Effects of Topography of Polymeric Scaffolds and Meningeal Cells on Differentiation of Mesenchymal Stem Cell**, 2014-2017. The Scientific and Technological Research Council of Turkey (TUBITAK, SBAG 3501) Project No: 113S870 (Scholarship)

5. **Investigation of the effect of cytidinediphosphocholine (CDP-Ch) on autophagy and mitophagy in damaged PC12 cells**, 2014-2017. The Scientific and Technological Research Council of Turkey (TUBITAK, ZBAG 1001) Project No: 114Z494 (Scholarship)
6. **Investigation of VDR and VDBP gene mutations affecting the formation of stent thrombosis in stent-attached patients with coronary artery disease**, 2017. Yeditepe University, Yeditepe University Clinical Research Ethics Committee Degree No: 713) (Researcher)
7. **Investigation of VDBP and VDR gene mutations affecting obstructive sleep apnea syndrome**, 2017. Yeditepe University, Yeditepe University Clinical Research Ethics Committee Degree No: 719) (Researcher)
8. **Identification of IFN-beta therapy related biomarkers in CD4+ T cells of multiple sclerosis patients**, 2017-2018. The Scientific and Technological Research Council of Turkey (TUBITAK, SBAG 1002) Project No: 216S828 (Scholarship)

#### **Articles Published in Internationally Acclaimed Journals (SCI, SSCI, Arts and Humanities)**

1. Kirac D., Yağcioglu Yassa O., **Gezmiş H.**, Mayda Domac S.F., Altunok E.C., Genc E. **2017**. The Effect of Different ApoE Genotypes and Other Risk Factors on Obstructive Sleep Apnea Syndrome Formation. *Turk J Neurol.* 23(4): 199-204. DOI: 10.4274/tnd.54521
2. Kirac D., Bayam E., Dagdelen M., **Gezmiş H.**, Sarikaya S., Pala S., Altunok E.C., Genc E. **2017**. HMGCR and ApoE Mutations May Cause Different Responses to Lipid Lowering Statin Therapy. *Cellular and Molecular Biology*, 63(10):43-48. DOI: <http://dx.doi.org/10.14715/cmb/2017.63.10.6>
3. Kirac D., Erdem Yaman A., **Gezmiş H.**, Yesilcimen K., Altunok E. C., Isbir T. **2017**. Effects of VDBP and VDR Mutations and Other Factors to the Development of Stent Thrombosis in Coronary Artery Disease Patients, *Clin Exp Health Sci*, 2018;8: X. DOI:10.5152/clinexphealthsci.2017.540
4. Kirac D., Dincer Yazan C., **Gezmiş H.**, Yaman A., Haklar G., Sirikci O., Altunok E.C., Deyneli O. **2018**. VDBP, VDR Mutations and Other Factors Related with Vitamin D Metabolism Associated with Type 1 Diabetes Mellitus. *Cellular and Molecular Biology*, 64(3):11-16. DOI: [dx.doi.org/10.14715/cmb/2018.64.3.3](http://dx.doi.org/10.14715/cmb/2018.64.3.3)
5. Eken B. F., Sercan C., **Gezmiş H.**, Moufti Chousen O., Kirac D., Akyuz S., Ulucan K. **2018**. Effect of Vitamin D Receptor rs1544410 Polymorphism on Tooth Decays. *European Journal of Research in Dentistry*, 2(1):13-17. DOI: 10.12990/MDJ.2018.13
6. Kirac D., Yağcioglu Yassa O., **Gezmiş H.**, Mayda Domac S. F., Altunok E.C., Genc E. **2019**. Different VDR, VDBP genotypes and vitamin D levels may affect obstructive sleep apnea syndrome. *Cell Mol Biol (Noisy-le-grand)*, 31;65(1):46-51.
7. **Gezmiş H.**, Doran T., Mayda Domac F., Yucel D., Karaci R., Kirac D. **2021**. CD4+ and CD25+ T-cell response to short-time interferon-beta therapy on IL10, IL23A and FOXP3 genes in multiple sclerosis patients. *Int J Clin Pract.*2021;00:e14238. DOI: 10.1111/ijcp.14238.
8. **Gezmiş H.**, Mayda Domac F., Ormeci B., Uyanik H., Doran T., Keles E.C., Kirac D. **2021**. ε2, ε3, and ε4 variants of ApoE; rs2228570 (VDR), rs4588 and rs7041 (VDBP) polymorphisms in patients with multiple sclerosis: A case–control study in Turkish population. *Int J Clin Pract.* 2021;00:e14801. DOI: 10.1111/ijcp.14801.
9. Kirac, D., Yaman, A. E., **Gezmiş H.**, Yeşilcimen, K., Avcilar, T., Guney, I., ... & Isbir, T. **2022**. VDBP and VDR Mutations May Cause In-Stent Restenosis. *Clinical And Experimental Health Sciences*, 12(3), 602-606.
10. **Gezmiş Gokce, H.**, Carr, C., Czernuszka, J. **2023**. Cardiac Tissue Engineering: Past, Present and Future. *Biophysics Reviews*. (Submission in Process)
11. **Gezmiş Gokce, H.**, Carr, C., Iftekhar, S., Karadag, I.M., Czernuszka, J. **2023**. Characterisation of collagen type I:FEG:HA scaffolds in support of hiPSC proliferation and cardiac differentiation in vitro. *Acta Biomaterialia*. (Submission in Process)

#### **Chapters in Books**

1. Yucel D. and **Gezmiş H.** The Importance of Anisotropic Topography in Guided-Tissue Engineering. *Emerging Technologies for Biofabrication and Biomanufacturing*. Volume 1, (Eds) Demirci U., El Assal R., and Chen P. **2018**. Singapore: World Scientific. DOI: 10.1142/11978-vol1.

#### **Announcements Published at National/International Scientific Conferences**

1. Yucel D., **Gezmiş H.**, Demir S., Torun Kose G., Hasirci N., Hasirci V. The effect of scaffold topography on behavior of dental pulp stem cells, 2<sup>nd</sup> Annual Conference and Expo on Biomaterials, Madrid, Spain, March 27-28, **2017**. (Oral Presentation)
2. Yucel D., **Gezmiş H.**, Demir S., Torun Kose G., Hasirci N., Hasirci V. The Behavior of Menstrual Blood-Derived Stem Cells on Electrospun Polymeric Fibers, 15<sup>th</sup> International Congress of Histochemistry and Cytochemistry (IHC), (Abstract:0580), Muratpasa, Antalya, Turkey, May 18-21, **2017**. (Oral Presentation)
3. Eken B. F., Kapici S., Sercan C., **Gezmiş H.**, Arslan K. S., Kırac D., Ulucan K. The Importance of Vitamin- D Receptor Gene (Rs1544410 And Rs228570) and Vitamin- D Binding Protein Gene (Rs7041 And Rs4588) Polymorphisms on Athletic Performance in a Turkish Cohort, The International Balkan Conference in Sports Sciences, (Abstract: 244), May 21-23, **2017**. (Poster Presentation)
4. Bilge B., **Gezmiş H.**, Bozkurt S., Yucel D., Kan B., Ulus I. H., Oz-Arslan D. The effect of CDP-choline on autophagy and mitochondrial dynamics in beta-amyloid treated PC12 cells, 19<sup>th</sup> IUPAB and 11<sup>th</sup> EBSA Congress, (Abstract: P-671), Edinburg, Scotland, July 16-20, **2017**. (Poster Presentation)
5. Eken B. F., **Gezmiş H.**, Sercan C., Kapici S., Kirac D., Ulucan K. Effect of Vitamin- D Receptor Gene (rs2228570, rs1544410) and Vitamin-D Binding Protein Gene (rs7041 and rs4588) Polymorphisms on Oral and Dental Health, International Meeting on Education and Research in Health Sciences (IMER-HS) (Abstract: PP-5), November 3-5, **2017**. (Poster Presentation)
6. **Gezmiş H.**, Torun Kose G, Hasirci V., Yucel D. Investigation of Endothelial Differentiation of Menstrual Blood Mesenchymal Stem Cells on Tissue Scaffolds with Different Topography, BIOMED 2018–TR, Istanbul, Türkiye, December 15-16, **2018**. (Poster Presentation)

7. **Gezmiş H.**, Doran T., Yucel D., Mayda Domac S. F., Kirac D. Identification of IFN-beta-1a therapy related biomarkers in T cells of multiple sclerosis patients, 13<sup>th</sup> Balkan Congress of Human Genetics (BJMG) (Abstract: S-76) Edirne, Turkey, April 17-20, **2019**. (Oral Presentation)
8. **Gezmiş H.**, Czernuszka J., Carr C. Hyaluronic acid infiltrated collagen type I+elastin scaffolds for myocardial repair, Recent Advances in Myocardial Tissue Engineering, Tissue Engineering and Regenerative Medicine International Society Asia-Pacific Conference 2022 (TERMIS AP-2022), (Abstract: S-S34-0222), ICC Jeju Island, South Korea, October 5-8, **2022**. (Oral Presentation)