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## PERSONAL

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|-----------------------|--------------|
| <b>Date of Birth</b>  | 11.05.1993   |
| <b>Place of Birth</b> | Eregli-Konya |

## EDUCATION

|           |                                                          |
|-----------|----------------------------------------------------------|
| 2020-2023 | Koc University, Medical Microbiology, Ph.D.              |
| 2016-2019 | Konya Food & Agriculture University, Biotechnology, M.S. |
| 2011-2015 | Hacettepe University, Biology, B.S.                      |

## ACADEMIC POSITIONS

|                                         |                                                                                                                                                        |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>May/2025-</b>                        | Assistant Professor, Department of Medical Microbiology, Medical School<br>Atılım University, Turkey                                                   |
| <b>September/2023-<br/>January/2025</b> | Postdoctoral Research Associate, Department of Gastroenterology and<br>Hepatology, Medical School<br>University of Illinois Chicago, IL, United States |

## HONORS&AWARDS

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| <b>1</b> | 2024 Innovator Award by the Association for Women in Science - Chicago<br>(AWIS-CAC)<br>Award citation: Dr. Kuyucu's research has made important advances in<br>investigating the relationship between hormones, specific bacteria in the gut<br>microbiome, and colorectal cancer. |
| <b>2</b> | PhD Academic Excellence Award - Graduate School of Health Sciences Koc<br>University/Outstanding Academic Achievements                                                                                                                                                              |
| <b>3</b> | TUBITAK 1002 Short-term Research Support Program - 2023 Project Support                                                                                                                                                                                                             |
| <b>4</b> | Best Oral Presentation - Turk Mikrobiyoloji Kongresi - Yetişkin ve Pediatrik<br>Hastalarda SARS-CoV-2'nin Enfektivitesi ve Antikor Yanıtı                                                                                                                                           |
| <b>5</b> | Honor Student - Hacettepe University College of Science                                                                                                                                                                                                                             |

## RESEARCH INTERESTS

|          |                            |
|----------|----------------------------|
| <b>1</b> | Vaginal and Gut Microbiome |
| <b>2</b> | Antimicrobial resistance   |
| <b>3</b> | Cancer Research            |

## PROFESSIONAL SERVICE

|   |                                                         |
|---|---------------------------------------------------------|
| 1 | Reviewer, Infectious Diseases and Clinical Microbiology |
| 2 | Reviewer, Frontiers                                     |

## PUBLICATIONS

|    |                                                                                                                                                                                                                                                                                             |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | Ray, L. A., Wei, J., Nowicki, C., Khan, T., <b>Ozcan, G.</b> , Hamm, A., ... & Mutlu, E. (2025). Mo2013: archaea and methanogen abundance for African Americans and non-Hispanic whites with and without adenomatous polyps. <i>Gastroenterology</i> , 169(1), S-1267.                      |
| 2  | Celik, E., <b>Ozcan, G.</b> , Vatansever, C. et al. Alterations in Vaginal Microbiome in Women with a Short Cervix: A Longitudinal Study on Microbial Diversity and the Impact of Vaginal Progesterone Treatment. <i>Ultrasound in Obstetrics &amp; Gynecology</i> (2025).                  |
| 3  | <b>Ozcan, G.</b> , Tanyolaç Talay, Z.G., Paerhati, E. et al. Dysbiosis in pregnant mice induced by transfer of human vaginal microbiota followed by reversal of pathological changes in the uterus and placenta via progesterone treatment. <i>BMC Pregnancy Childbirth</i> 24, 427 (2024). |
| 4  | <b>Ozcan, G.</b> , Vatansever, C., Paerhati, E. et al. The vaginal microbiome composition during pregnancy in a region comprising different ethnic origins. <i>Arch Gynecol Obstet</i> 310, 369–375 (2024).                                                                                 |
| 5  | Boral, J., Vatansever, C., <b>Ozcan, G.</b> , Keske, S., Menekse, S., Gonen, M., & Can, F. (2024). Resensitization to colistin results in rapid and stable recovery of adherence, serum resistance and ompW in <i>Acinetobacter baumannii</i> . <i>Plos one</i> , 19(8), e0309307.          |
| 6  | Celik, E*, <b>Ozcan, G*</b> , Vatansever, C., Paerhati, E., Kuskucu, M.A., Dogan, O., Cekic, S.G., Ergonul, O., Gursoy, A., Keskin, O. and Can, F. Alterations in Vaginal Microbiota among Pregnant Women with COVID 19. <i>Journal of Medical Virology</i> 2022; 1-10.                     |
| 7  | Kapmaz, M., Uymaz, D.S., <b>Özcan, G.</b> , Barlas, T., Esken, G., Manici, M., Keske, Ş., Kuşkucu, M., Can, F. and Ergönül, Ö. A complicated case of monkeypox and viral shedding characteristics. <i>Journal of Infection</i> 2022.                                                        |
| 8  | Sahin, A. T., Yurtseven, A., Dadmand, S., <b>Ozcan, G.</b> , Akarlar, B. A., Kucuk, N. E. O., ... & Ozlu, N. Plasma proteomics identify potential severity biomarkers from COVID-19 associated network. <i>Proteomics. Clinical applications</i> 2022.                                      |
| 9  | Celik E, Vatansever C, <b>Ozcan G</b> , et al. Placental deficiency during maternal SARS-CoV-2 infection. <i>Placenta</i> 2021; 117:47–56.                                                                                                                                                  |
| 10 | Kapmaz, M., Dogan, O., Akturk, H., Ozer, B., Nurtop, E., Vatansever, C., <b>Ozcan, G.</b> , Celikyurt, A., Khalilova, F., Okan, A. and Incir, S. Infectivity of Adult and Pediatric COVID-19 Patients. <i>IDCM</i> 2020.                                                                    |

## PROJECTS

|   |                                                                                                                                                                                                          |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Researcher, National Institutes of Health (NIH), Role of the gut microbiome in steroid hormone metabolism and its impact on breast and colorectal cancer.                                                |
| 2 | Principal investigator, TUBITAK 1002, Investigation of the relationship between vaginal dysbiosis with the activation of intestinal and genital inflammation during pregnancy in an in vivo mouse model. |
| 3 | Researcher, TUBITAK 1001, Pyoverdin System of <i>Pseudomonas aeruginosa</i> ST235 High-risk Clone: Can be a target for anti-virulent treatment?                                                          |
| 4 | Researcher, TUBITAK 1001, Metagenomic and transcriptomic analysis of colistin resistance in gram-negative pathogens and adaptation to colistin resistance during progression from tolerome to resistome. |
| 5 | Scholarship, TUBITAK 1001, Evaluation of the relationship between vaginal, placental and neonatal microbiota with preterm birth in women with short                                                      |

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|   | cervical length.                                                                                                                                                                                                                                                                         |
| 6 | Researcher, TC. Ministry of Agriculture and Forest, TAGEM, Optimization of production conditions and preparation of the commercial formulation of the <i>Bacillus thuringiensis subsp. kurstaki</i> HD-73 for the used in biological control of the Tomato Moth ( <i>Tuta absoluta</i> ) |

## CONFERENCE PRESENTATIONS

|    |                                                                                                                                                                                                                                                                                                                                                                                                          |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | Selin Kolsuz, Cansel Vatansever, Ani Akpınar, Jale Boral, <b>Gulin Ozcan</b> , Mehmet Gonen, Fusun Can. Integrated genomic and transcriptomic analysis of multidrug-resistant colistin-tolerant <i>P. aeruginosa</i> to identify tolerance-related genes. 35th European Congress of Clinical Microbiology & Infectious Diseases' Vienna' 27th April 2025.                                                |
| 2  | Cansel Vatansever, Selin Kolsuz, Jale Boral, <b>Gulin Ozcan</b> , Mehmet Gonen, Fusun Can. Virulence mechanism changes in colistin-tolerant <i>K. pneumoniae</i> , <i>A. baumannii</i> , and <i>P. aeruginosa</i> cells at the transcriptomic level. 34th European Congress of Clinical Microbiology & Infectious Diseases' Barcelona' 27th April 2024.                                                  |
| 3  | Jale Boral, Cansel Vatansever, <b>Gulin Ozcan</b> , Sirin Menekse, Siran Keske, Mehmet Gonen, Fusun Can. Disappearance and recovery of ompW protein in cellular membrane of <i>Acinetobacter baumannii</i> in relation with colistin resistance. 34th European Congress of Clinical Microbiology & Infectious Diseases' Barcelona' 27th April 2024.                                                      |
| 4  | <b>Gulin Ozcan</b> , Cansel Vatansever, Jale Boral, Güz Ekinçi, Sirin Menekse, Mehmet Gonen, Fusun Can. Metagenomic and transcriptomic analysis of the virulence-related pathways in tolerant and persister cells of <i>Klebsiella pneumoniae</i> . 33rd European Congress of Clinical Microbiology & Infectious Diseases' Copenhagen' 16th April 2023.                                                  |
| 5  | <b>Gulin Ozcan</b> , Cansel Vatansever, Erxiatı Paerhati, Mert Turgal, Aykut Ozek, Tugba Gursoy, Atilla Gürsoy, Özlem Keskin, Fusun Can, Ebru Celik. The interaction between vaginal microbiota and cervical length during pregnancy. 33rd European Congress of Clinical Microbiology & Infectious Diseases' Copenhagen' 16th April 2023.                                                                |
| 6  | Cansel Vatansever, <b>Gulin Ozcan</b> , Selin Kolsuz, Güz Ekinçi, Zeynep Gülçe Talay, Özlem Kurt-Azap, Mehmet Gonen, Fusun Can. Alterations in the pyoverdine pathway of <i>Pseudomonas aeruginosa</i> ST235 high-risk clone. 33rd European Congress of Clinical Microbiology & Infectious Diseases' Copenhagen' 16th April 2023.                                                                        |
| 7  | Jale Boral, Cansel Vatansever, <b>Gulin Ozcan</b> , Sirin Menekse, Siran Keske, Mehmet Gonen, Onder Ergonul, Fusun Can. Fitness Costs associated with Virulence factors and Colistin resistance in <i>Acinetobacter baumannii</i> : Comparative metagenomic, transcriptomic and phenotypic analyses. 33rd European Congress of Clinical Microbiology & Infectious Diseases' Copenhagen' 16th April 2023. |
| 8  | <b>Invited Speaker - Gulin Ozcan</b> , Urogenital microbiome 23. Turk Klinik Mikrobiyoloji ve Enfeksiyon Hastaliklari Kongresi                                                                                                                                                                                                                                                                           |
| 9  | <b>Gulin Ozcan</b> , Cansel Vatansever, Jale Boral, Sirin Menekse, Ozlem Kurt Azap, Mehmet Gonen, Onder Ergonul, Fusun Can. <i>Pseudomonas aeruginosa</i> ve <i>Klebsiella pneumoniae</i> izolatlarında toleran hücrelerin virülans üzerine etkilerinin metagenomik ve transkriptomik incelemesi', Türk Mikrobiyoloji Cemiyeti Antalya 15th December 2022.                                               |
| 10 | Cansel Vatansever, <b>Gulin Ozcan</b> , Selin Kolsuz, Zeynep Gülçe Talay, Gu z Ekinçi, Özlem Kurt-Azap, Mehmet Gonen, Fu sun Can. <i>Pseudomonas aeruginosa</i> piyoverdin sisteminin ST235 yüksek riskli klonundaki virülansı ve patogeneizindeki rolü. TMC Antalya 15th December 2022.                                                                                                                 |

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| 11 | Jale Boral, Cansel Vatansever, <b>Gulin Ozcan</b> , Şiran Keske, Sirin Menekşe, Ozlem Kurt Azap, Mehmet Gonen, Onder Ergonul, Fusun Can. Metagenomic, Transcriptomic and in vivo Analysis of Colistin Resistance and Virulence in <i>Acinetobacter baumannii</i> . Türk Mikrobiyoloji Cemiyeti Antalya 15th December 2022.                                               |
| 12 | <b>Gulin Ozcan</b> , Cansel Vatansever, Erxiati Paerhati, Mert Turgal, Attila Gürsoy, Özlem Keskin, Fusun Can, Ebru Celik, Gebeliğin farklı dönemlerinde vajinal mikrobiyotadaki değişimlerin izlenmesi', Turkish Society of Clinical Microbiology and Infectious Diseases, Antalya' 9th March 2022.                                                                     |
| 13 | Jale Boral, Cansel Vatansever, <b>Gulin Ozcan</b> , Siran Keske, Sirin Menekşe, Ozlem Dogan, Onder Ergonul, Fusun Can, 'Pseudomonas aeruginosa, Klebsiella Pneumoniae ve Acinetobacter baumannii izolatlarında Karsılaştırmalı Fenotipik Tolerans ve Persister hücre oluşumu', Turkish Society of Clinical Microbiology and Infectious Diseases, Antalya' 9th March 2022 |
| 14 | Cansel Vatansever, <b>Gülün Özcan</b> , Selin Kolsuz, Zeynep Gülçe Talay, Güz Ekinci, Mert Kuşkucu, Mehmet Gönen, Füsün Can. 'Pseudomonas aeruginosa ST235 yüksek riskli klonunun demir alım mekanizmaları', Turkish Society of Clinical Microbiology and Infectious Diseases, Antalya' 9th March 2022                                                                   |
| 15 | <b>Ozcan G.</b> , Celik E., Vatansever C., Paerhati E., Kuskucu M., Dogan O., Cekic S., Ergonul O., Gürsoy A., Keskin O., Can F., Alterations in vaginal microbiota among pregnant woman with Covid-19', 32nd European Congress of Clinical Microbiology & Infectious Diseases' Lisbon' 9th April 2022.                                                                  |
| 16 | Ekinci G., <b>Ozcan G.</b> , Vatansever C., Boral J., Dogan O., Menekşe S., Kuşkucu M., Gönen M., Can F., 'The virulence of <i>Klebsiella pneumoniae</i> during the development of colistin resistance through persister cells', 32 <sup>nd</sup> European Congress of Clinical Microbiology & Infectious Diseases' Lisbon' 9th April 2022.                              |
| 17 | Vatansever C., <b>Ozcan G.</b> , Kolsuz S., Azap O., Dogan O., Menekşe S., Kuşkucu M., Gönen M., Can F., The alteration of pyoverdine siderophore in <i>Pseudomonas aeruginosa</i> ST235 high risk clone', 32nd European Congress of Clinical Microbiology & Infectious Diseases' Lisbon' 9th April 2022.                                                                |
| 18 | Boral J., Vatansever C., <b>Ozcan G.</b> , Menekşe S., Dogan O., Can F. "Adaptation of <i>Acinetobacter Baumannii</i> to Continuous Exposure of Colistin In Vivo and In Vitro" ASM&FEMS, World Microbe Forum 20-24 June 2021.                                                                                                                                            |
| 19 | <b>Ozcan G.</b> , Vatansever C., Menekşe S., Dogan O., Gonen M., Ergonul O., Can F 'Colistin-induced tolerant cell formation and antibiotic tolerance in <i>Klebsiella pneumoniae</i> ' 31st European Congress of Clinical Microbiology & Infectious Diseases, Basel, 5th August 2021.                                                                                   |
| 20 | <b>Ozcan G.</b> , Vatansever C., Turgal M., Alatas C., Dogan O., Kapucuoglu N., Palaoglu E., Besli Y., Ata B., Gursoy T., Manici M., Duru B., Gungil B., Ergonul O., Can F., Celik E., The risk of vertical transmission in SARS CoV-2', 31st European Congress of Clinical Microbiology & Infectious Diseases, Basel, 5th August 2021.                                  |
| 21 | Vatansever C., <b>Ozcan G.</b> , Menekşe S., Dogan O., Gonen M., Ergonul O., Can F, 'Molecular and in vivo assessment of virulence factors in colistin-resistant <i>Pseudomonas aeruginosa</i> ST235 high-risk clone', 31st European Congress of Clinical Microbiology & Infectious Diseases, Basel, 5th August 2021.                                                    |
| 22 | <b>Ozcan G.</b> , Ozer B., Vatansever C., Nurtop E., Kapmaz M., Akturk H., Okan A., Incir S., Dogan O., Sackesen C., Ergonul O., Can F. Yetişkin ve Pediatrik Hastalarda SARS-CoV-2'nin Enfektivitesive Antikor Yanıtı. Türk Mikrobiyoloji Cemiyeti 2020 Çevrim İçi Mikrobiyoloji Sempozyumu. 25-27 December 2020.                                                       |
| 23 | Gulnihal Ozcan, Ozen Leylek, <b>Gulin Ozcan</b> , Guangan He, Zahid H. Siddik. The role of p53 and drug uptake in cell density-dependent cisplatin resistance in ovarian cancer cells. Moleküler Kanseri Araştırma Derneği, 7. Multidisipliner Kanseri Araştırma&1. Temel Onkoloji Kongresi, Serefhisar İzmir September 11 ,2018.                                        |

## CITATIONS

|                                                                 |    |
|-----------------------------------------------------------------|----|
| Sum of times cited without self-citations (ISI Web of Science): | 47 |
| H-index (ISI Web of Science):                                   | 4  |

## COURSES GIVEN

|               |                                                                     |
|---------------|---------------------------------------------------------------------|
| <b>MED101</b> | Introduction to Medicine Committee (Microbiology lectures)          |
| <b>MED103</b> | The Cell Committee (Microbiology lectures)                          |
| <b>MED105</b> | Growth and Development Committee (Microbiology lectures)            |
| <b>MED102</b> | Tissues and Skeletal System Committee (Microbiology lectures)       |
| <b>MED104</b> | Locomotion Committee (Microbiology lectures)                        |
| <b>MED106</b> | Public Health Committee (Microbiology lectures)                     |
| <b>MED201</b> | Immune System Committee (Microbiology lectures)                     |
| <b>MED203</b> | Fundamentals of Neuroscience Committee (Microbiology lectures)      |
| <b>MED202</b> | Cardiovascular System Committee (Microbiology lectures)             |
| <b>MED204</b> | Respiratory System Committee (Microbiology lectures)                |
| <b>MED301</b> | Digestive System Committee (Microbiology lectures)                  |
| <b>MED303</b> | Urogenital System Committee (Microbiology lectures)                 |
| <b>MED306</b> | Introduction to Clinical Medicine Committee (Microbiology lectures) |
| <b>MED185</b> | Microbiology                                                        |