

# Prof. Osman Uğur SEZERMAN

## Personal Information

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### International Researcher IDs

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## Education Information

1985 - 1987	Doctorate, Boston University, Biyomedikal Mühendisliği, United States Of America
1985 - 1987	Postgraduate, Bogazici University, Institute Of Biomedical Engineering, Department Of Biomedical Electronics, Turkey
1981 - 1985	Undergraduate, Bogazici University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, Turkey

## Research Areas

Microbiology, bioinformatics, Artificial Intelligence, Computer Learning and Pattern Recognition, Bioinformatics

## Courses

2016 - 2017, 2015 - 2016	İleri Biyoformatik, Doctorate
2016 - 2017	Biyoistatistik, Postgraduate
2016 - 2017, 2015 - 2016	Hesaplamalı Biyoloji, Postgraduate
2016 - 2017, 2015 - 2016	İleri Hesaplamalı Biyoloji, Doctorate
2016 - 2017	Medikal Enformatik ve Biyoistatistik, Undergraduate
2016 - 2017	İşlemsel Omik veri Analizi, Undergraduate
2016 - 2017	İleri Biyoistatistik 2, Doctorate
2016 - 2017	İleri Biyoistatistik, Doctorate
2016 - 2017, 2015 - 2016	Biyoformatik, Postgraduate
2015 - 2016	Medikal Enformatik, Undergraduate

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. Proteomics profiling and machine learning in nusinersen-treated patients with spinal muscular atrophy**  
Panicucci C., Sahin E., Bartolucci M., Casalini S., Brolatti N., Pedemonte M., Baratto S., Pintus S., Principi E., D'Amico A., et al.  
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- III. **A microdeletion event at 19q13.43 in IDH-mutant astrocytomas is strongly correlated with MYC overexpression**  
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- IV. **Multilocus pathogenic variants contribute to intrafamilial clinical heterogeneity: a retrospective study of sibling pairs with neurodevelopmental disorders**  
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- V. **Adaptation to space conditions of novel bacterial species isolated from the International Space Station revealed by functional gene annotations and comparative genome analysis**  
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- VI. **Identification of potential antigenic proteins and epitopes for the development of a monkeypox virus vaccine: an in silico approach**  
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- VII. **The Potential Role of Boron in the Modulation of Gut Microbiota Composition: An In Vivo Pilot Study**  
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- VIII. **Investigation of the Impact of Antibiotic Administration on the Preterm Infants' Gut Microbiome Using Next-Generation Sequencing-Based 16S rRNA Gene Analysis**  
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- IX. **RNA methylation sequencing shows different gene expression signatures for response to azacytidine therapy in high-grade myelodysplastic syndromes**  
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- XII. **Var3PPred: variant prediction based on 3-D structure and sequence analyses of protein-protein interactions on autoinflammatory diseases**  
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- XIII. **Effect of the switch status of Helicobacter pylori outer inflammatory protein A on gastric diseases**  
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- XIV. **Identification of Molecular and Genetic Resistance Mechanisms in a *Candida auris* Isolate in a Tertiary Care Center in Türkiye**  
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- XV. **Phenotype screens of murine pancreatic cancer identify a Tgf- $\alpha$ -Ccl2-paxillin axis driving human-like neural invasion**  
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- XVIII. **Metabolic pathways of potential miRNA biomarkers derived from liquid biopsy in epithelial ovarian cancer**  
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- XIX. **Corneal bacterial microbiome in patients with keratoconus using next-generation sequencing-based 16S rRNA gene analysis**  
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- XX. **Metabolomic Analyses to Identify Candidate Biomarkers of Cystinosis**  
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- XXVI. **NOVEL SYNDROME: CRANIOFACIAL AND CENTRAL NERVOUS SYSTEM MALFORMATIONS, AND ATYPICAL HEMOLYTIC UREMIC SYNDROME ASSOCIATED WITH TSEN2 MUTATION**  
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- XXVII. **CANDIDATE BIOMARKER(S) FOR CYSTINOSIS WITH OMIC-BASED TECHNOLOGY: FROM LABORATORY TO BED-SIDE**  
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- XXVIII. **Colibactin possessing *E. coli* isolates in association with colorectal cancer and their genetic diversity among Pakistani population**  
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- XXX. **A recursive molecular docking coupled with energy-based pose-rescoring and MD simulations to identify hsGC beta H-NOX allosteric modulators for cardiovascular dysfunctions**  
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- XXXII. **Understanding the Role of the Microbiome in Cancer Diagnostics and Therapeutics by Creating and Utilizing ML Models**  
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- XXXIII. **Structural analysis of M1AP variants associated with severely impaired spermatogenesis causing male infertility**  
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- XXXIV. **A splice site mutation in the TSEN2 causes a new syndrome with craniofacial and central nervous system malformations, and atypical hemolytic uremic syndrome**  
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- XXXV. **Identifying and elucidating the roles of Y198N and Y204F mutations in the PAH enzyme through molecular dynamic simulations.**  
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- XXXVI. **RDDSVM: accurate prediction of A-to-I RNA editing sites from sequence using support vector machines**  
Tac H. A., Koroglu M., SEZERMAN O. U.  
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- XXXVII. **Molecular modelling of the FOXO4-TP53 interaction to design senolytic peptides for the elimination of senescent cancer cells.**  
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- XXXVIII. **A framework for validating AI in precision medicine: considerations from the European ITFoC**

## consortium

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- XXXIX. **Bridging the Bridging Imidazolate in the Bimetallic Center of the Cu/Zn SOD1 and ALS**  
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- XL. **Investigation of multiple sclerosis-related pathways through the integration of genomic and proteomic data**  
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- XLI. **Microbiota analysis in allogeneic stem cell transplant patients with in AML and MDS**  
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- XLII. **Re-analysis of whole-exome sequencing data reveals a novel splicing variant in the SLC2A1 in a patient with GLUT1 Deficiency Syndrome 1 accompanied by hemangioma: a case report**  
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- XLIII. **A global metagenomic map of urban microbiomes and antimicrobial resistance**  
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- XLVII. **The importance of dysregulated miRNAs on ovarian cysts and epithelial ovarian cancer**  
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- XLVIII. **Sequential filtering for clinically relevant variants as a method for clinical interpretation of whole exome sequencing findings in glioma**  
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- XLIX. **CogNet: classification of gene expression data based on ranked active-subnetwork- oriented KEGG pathway enrichment analysis**  
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- L. **A comprehensive study on identifying the structural and functional SNPs of human neuronal membrane glycoprotein M6A (GPM6A)**  
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- LII. **Lipase and Water in a Deep Eutectic Solvent: Molecular Dynamics and Experimental Studies of the Effects of Water-In-Deep Eutectic Solvents on Lipase Stability.**  
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- LIV. **Progesterone at high doses reduces the growth of U87 and A172 glioblastoma cells: Proteomic changes regarding metabolism and immunity**  
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- LV. **Analysis of Correlation between the Seven Important Helicobacter pylori (H. pylori) Virulence Factors and Drug Resistance in Patients with Gastritis**  
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- LVII. **High-throughput profiling reveals perturbation of endoplasmic reticulum stress-related genes in atherosclerosis induced by high-cholesterol diet and the protective role of vitamin E**  
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- LVIII. **Probing the Structural Dynamics of the Catalytic Domain of Human Soluble Guanylate Cyclase.**  
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- LXII. **Whole exome sequencing-based analysis to identify DNA damage repair deficiency as a major contributor to gliomagenesis in adult diffuse gliomas**  
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- LXV. **Adaptive phenotypic modulations lead to therapy resistance in chronic myeloid leukemia cells**  
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- LXVI. **SARS-CoV-2 isolation and propagation from Turkish COVID-19 patients**  
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- LXVIII. **Potential Marker Pathways in the Endometrium That May Cause Recurrent Implantation Failure**  
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- III. **İleri Biyoinformatik Analiz Yöntemleri Kullanılarak Keratokonus Hastaları ile Sağlıklı Olgular Arasında Oküler Yüzey Mikrobiyota Farklılığının Araştırılması**  
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- V. **Mutations and copy number alterations in diffuse gliomas are shaped by different mechanisms**  
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- VI. **Oral premalin lezyonlarda rol oynayan immün-yanıt ilişkili yolaklar ve bu yolaklarda rol alan hiper/hipometile immün genlerin metilasyon array teknolojisi ile tespiti**  
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- X. **An Adaptive Phenotypic Shift Leads to TKI Resistance by Acquisition Of Leukemic Stem Cell-Like Properties in CML Cells**  
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- XXIX. **Pattern Recognition for Subfamily Level Classification of GPCRs Using Motif Distillation and Distinguishing Power Evaluation**



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- LIV. **Protein Structural Class Determination Using Support Vector Machines**  
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- LVI. **Effect of feature extraction and feature selection on expression data from epithelial ovarian cancer**  
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- LVII. **Three dimensional representation of amino acid characteristics**

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- LVIII. **PROBLEMS AND PROGRESS IN COMPUTATIONAL APPROACHES TO THE MOLECULAR-BASIS OF RECOGNITION**

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## Supported Projects

Continues	Biyolojik Ve Bilgisayar Ağı Anomalilerinin Etkilerinin İncelenmesi İçin Skorlama Sistemi Geliştirilmesi, TÜBİTAK Project
Continues	Üçlü Negatif Lokal İleri Meme Kanserinde Neoadjuvan Tedavi Sonrası Yanıt İle İlişkili Moleküler Yolakların Araştırılması Ve Skorlama Sistemi Geliştirilmesi, TÜBİTAK Project
2019 - 2026	Kişisel Tıp Uygulamaları İçin Bulut Tabanlı Veri Analiz Algoritmaları ve Platformu Geliştirilmesi, TÜBİTAK Project
2024 - 2025	Safra Kesesi Taşı Bulunan ve Bulunmayan Hastalar Arasındaki Mikrobiyom Farklılıkların Belirlenmesi ve Safra Kesesi Taşı Oluşumuna Etki Eden Biyomarkerların Tespit Edilmesi, Project Supported by Higher Education Institutions
2021 - 2024	Yaşlanma ve Kanser Direncine Sahip Kör Farelerde Hücresel Strese Karşı Geliştirilen Moleküler ve Epigenetik Mekanizmaların 3 Boyutlu Organoid Kültürlerinde Araştırılması, TÜBİTAK Project
2022 - 2023	LAMP Tabanlı Tükürükten SMA Tarama Kiti Geliştirilmesi, Research Project of the Presidency of Turkey Health Institutes (TÜSEB)
2020 - 2023	Akciğer Kanseri Tanısı Almış Ve Şüpheli Hasta Gruplarının Ardışık Tükürük Ve Gaita Örneklerinde Karşılaştırılmalı Mikrobiyota Ve Lipidomik Analizler, TÜBİTAK International Bilateral Joint Cooperation Program Project
2020 - 2023	Türkiye'deki Primer Siliyer Diskinezi (PSD) hastaları için tanı metotlarının geliştirilmesi ve uygun gen panellerinin oluşturulması, TÜBİTAK Project
2020 - 2023	Deciphering and Targeting Neural Invasion in Pancreatic Cancer, TÜBİTAK Project
2019 - 2023	European Research Program on Rare Diseases, EU Framework Program Project
2021 - 2022	Çeşitli Candida Türlerinin Hızlı Tespiti İçin Tanı Kiti Oluşturma, KOSGEB
2020 - 2022	Türkiye'deki Primer Siliyer Diskinezi (PSD) Hastaları İçin Tanı Metotlarının Geliştirilmesi ve Uygun Gen Panellerinin Oluşturulması, TÜBİTAK Project
2019 - 2022	EJP RD, H2020 Project
2021 - 2021	IMPECABL, H2020 Project
2021 - 2021	The Menopause Vulnerability Fingerprint: towards personalising the menopause interventions in the daily life MAUVE, H2020 Project
2021 - 2021	Diagnostic platform for early, reliable and rapid detection of coronaviruses (STRIVE), EU Supported Other Project
2021 - 2021	Yaşlanma ve kanser direncine sahip kör farelerde hücresel strese karşı geliştirilen moleküler ve epigenetik mekanizmaların hücre kültürü ve 3 boyutlu organoid kültürlerinde araştırılması, TÜBİTAK Project

2021 - 2021	Türkiye'de SARS-cov 2 tüm genom dizilerinin elde edimi ve bunları hızlı, hassas bir şekilde tanımak için LAMP tabanlı kit tasarımı, TUBITAK Project
2017 - 2020	Üçlü Negatif Lokal İleri Meme Kanseri Neoadjuvan Tedaviye Yanıtın Matematiksel Modeller Ve Hayvan Deneyleriyle Tespit Edilmesi, TUBITAK Project
2016 - 2019	Bacillus Thermocatenulatus Lipazının (Btl2) Endüstriyel Uygulamalarda Kullanmak Üzere Protein Mühendisliği Yöntemleri ile Organik Çözücüler İçerisinde Daha İyi Çalışır Hale Gelmesinin Sağlanması, Other International Funding Programs
2016 - 2019	In vitro ve In silico yöntemlerin kombinasyonu ile hedeflendirilmiş anti kanser ilacı gönderilmesi için peptid tasarımı, Other International Funding Programs
2015 - 2018	Kolon Kanseri Etiyolojisindeki Epigenetik Ve Diğer Faktörler İle Bu Faktörlerin Hedeflediği Önemli Yolakların Belirlenmesi, Other International Funding Programs
2013 - 2015	DNA Karma Yöntemi İle Endüstriyel Uygulamalar İçin Farklı Lipaz Ve Selülaz Veritabanı Ve Kütüphanesinin Oluşturulması, Other International Funding Programs
2010 - 2013	Investigation of the IL-7 Cytokine Receptor (IL-7R) Gene Control Mechanism, TUBITAK Project

## Metrics

Publication: 235

Citation (WoS): 1993

Citation (Scopus): 2313

H-Index (WoS): 24

H-Index (Scopus): 27