

Prof. Osman Uğur SEZERMAN

Personal Information

Web: <https://avesis.acibadem.edu.tr/Ugur.Sezerman>

International Researcher IDs

ORCID: 0000-0003-0905-6783

Publons / Web Of Science ResearcherID: X-6441-2018

Yoksis Researcher ID: 179796

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. Longitudinal non-targeted metabolomic profiling of urine samples for monitoring of kidney transplantation patients**
Yozgat I., Cakır Ü., Serdar M. A., Sahin S., Sezerman O. U., Nemutlu E., Baykal A. T., Serteser M.
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- II. Effect of the switch status of Helicobacter pylori outer inflammatory protein A on gastric diseases**
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- III. **Identification of Molecular and Genetic Resistance Mechanisms in a *Candida auris* Isolate in a Tertiary Care Center in Turkiye**
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- IV. **Phenotype screens of murine pancreatic cancer identify a Tgf- α -Ccl2-paxillin axis driving human-like neural invasion**
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- V. **Nosocomial infection of *C. auris* in COVID-19 Intensive Care Unit in Turkiye and Phylogenetic Analysis of Isolates**
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- VI. **Microbiota Changes in Hodgkin and Non-Hodgkin Lymphoma Treatment: Assessment With Il-17 and Il-12 Levels**
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- VII. **Metabolic pathways of potential miRNA biomarkers derived from liquid biopsy in epithelial ovarian cancer**
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- VIII. **Corneal bacterial microbiome in patients with keratoconus using next-generation sequencing-based 16S rRNA gene analysis**
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- IX. **Metabolomic Analyses to Identify Candidate Biomarkers of Cystinosis**
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- X. **Effects of Ramadan intermittent fasting on gut microbiome: is the diet key?**
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- XI. **Gene pathway analysis of the endometrium at the start of the window of implantation in women with unexplained infertility and unexplained recurrent pregnancy loss: is unexplained recurrent pregnancy loss a subset of unexplained infertility?**
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- XII. **PANACEA: network-based methods for pharmacotherapy prioritization in personalized oncology**
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- XIII. **Brave new surfactant world revisited by thermoalkalophilic lipases: computational insights into the role of SDS as a substrate analog**
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- XIV. **NOVEL SYNDROME: CRANIOFACIAL AND CENTRAL NERVOUS SYSTEM MALFORMATIONS, AND ATYPICAL HEMOLYTIC UREMIC SYNDROME ASSOCIATED WITH TSEN2 MUTATION**
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- XV. **Colibactin possessing *E. coli* isolates in association with colorectal cancer and their genetic diversity among Pakistani population**
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- XVI. **Is cutaneous microbiota a player in disease pathogenesis? Comparison of cutaneous microbiota in psoriasis and seborrheic dermatitis with scalp involvement**
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- XVII. **CANDIDATE BIOMARKER(S) FOR CYSTINOSIS WITH OMIC-BASED TECHNOLOGY: FROM LABORATORY TO BED-SIDE**
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- XVIII. **Investigating the role of common and rare variants in multiplex multiple sclerosis families reveals an increased burden of common risk variation**
Everest E., Ahangari M., Uygunoglu U., Tutuncu M., Bulbul A., Saip S., Duman T., SEZERMAN O. U., Reich D. S., Riley B. P., et al.
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- XIX. **A recursive molecular docking coupled with energy-based pose-rescoring and MD simulations to identify hsGC beta H-NOX allosteric modulators for cardiovascular dysfunctions**
Khalid R. R., Maryam A., Cinaroglu S. S., Siddiqi A. R., SEZERMAN O. U.
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- XX. **Understanding the Role of the Microbiome in Cancer Diagnostics and Therapeutics by Creating and Utilizing ML Models**
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- XXI. **Computational analysis of missense filamin-A variants, including the novel p.Arg484Gln variant of two brothers with periventricular nodular heterotopia**
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- XXII. **Structural analysis of M1AP variants associated with severely impaired spermatogenesis causing male infertility**
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- XXIII. **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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- XXIV. **Identifying and elucidating the roles of Y198N and Y204F mutations in the PAH enzyme through molecular dynamic simulations.**
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- XXV. **RDDSV: accurate prediction of A-to-I RNA editing sites from sequence using support vector machines**
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of senescent cancer cells.

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- XXVII. **A framework for validating AI in precision medicine: considerations from the European ITFoC consortium**
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- XXVIII. **Investigation of multiple sclerosis-related pathways through the integration of genomic and proteomic data**
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- XXIX. **Bridging the Bridging Imidazolate in the Bimetallic Center of the Cu/Zn SOD1 and ALS**
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- XXX. **Microbiota analysis in allogeneic stem cell transplant patients with in AML and MDS**
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- XXXI. **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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- XXXII. **A global metagenomic map of urban microbiomes and antimicrobial resistance**
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- XXXIII. **Endometrial gene expression profiling of recurrent implantation failure after in vitro fertilization**
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- XXXIV. **driveR: a novel method for prioritizing cancer driver genes using somatic genomics data**
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- XXXV. **Base-excess chloride; the best approach to evaluate the effect of chloride on the acid-base status: A retrospective study.**
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- XXXVI. **The importance of dysregulated miRNAs on ovarian cysts and epithelial ovarian cancer**
Gumusoglu E., Gunel T., Hosseini M. K., Seymen N., Senol T., SEZERMAN O. U., Topuz S., Aydinli K.
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- XXXVII. **Sequential filtering for clinically relevant variants as a method for clinical interpretation of whole exome sequencing findings in glioma**
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- XXXVIII. **A comprehensive study on identifying the structural and functional SNPs of human neuronal membrane glycoprotein M6A (GPM6A)**
Khalid Z., SEZERMAN O. U.
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- XXXIX. **CogNet: classification of gene expression data based on ranked active-subnetwork- oriented KEGG pathway enrichment analysis**

Yousef M., Ulgen E., SEZERMAN O. U.

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- XL. **Mutations and Copy Number Alterations in IDH Wild-Type Glioblastomas Are Shaped by Different Oncogenic Mechanisms**
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- XLII. **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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- XLIII. **Intraoperative Neuromonitoring of Blink Reflex During Posterior Fossa Surgeries and its Correlation With Clinical Outcome.**
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- XLIII. **Response Assessment With Molecular Characterization of Circulating Tumor Cells and Plasma MicroRNA Profiling in Patients With Locally Advanced Breast Cancer During Neoadjuvant Chemotherapy**
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- XLIV. **Progesterone at high doses reduces the growth of U87 and A172 glioblastoma cells: Proteomic changes regarding metabolism and immunity**
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- XLV. **Analysis of Correlation between the Seven Important Helicobacter pylori (H. pylori) Virulence Factors and Drug Resistance in Patients with Gastritis**
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- XLVI. **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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- XLVII. **Probing the Structural Dynamics of the Catalytic Domain of Human Soluble Guanylate Cyclase.**
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- XLVIII. **Cartography of opportunistic pathogens and antibiotic resistance genes in a tertiary hospital environment**
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- XLIX. **Understanding thermal and organic solvent stability of thermoalkalophilic lipases: insights from computational predictions and experiments.**
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- L. **HriGFP Novel Fluorescent Protein: Expression and Applications**
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- LI. **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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- LII. **A harmonized meta-knowledgebase of clinical interpretations of somatic genomic variants in cancer.**
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- LIII. **Comparison of endometrial prostanoid profiles in three infertile subgroups: the missing part of receptivity?**
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- LIV. **Adaptive phenotypic modulations lead to therapy resistance in chronic myeloid leukemia cells**
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- LV. **SARS-CoV-2 isolation and propagation from Turkish COVID-19 patients**
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- LVI. **Investigation of base excision repair gene variants in late-onset Alzheimer's disease.**
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- LVII. **Potential Marker Pathways in the Endometrium That May Cause Recurrent Implantation Failure**
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- LVIII. **Comparison of Dendritic Cell Activation by Virus-Based Vaccine Delivery Vectors Emphasizes the Transcriptional Downregulation of the Oxidative Phosphorylation Pathway.**
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- LIX. **Enhancing Enzymatic Properties of Endoglucanase I Enzyme from Trichoderma Reesei via Swapping from Cellobiohydrolase I Enzyme**
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- LX. **Identification of epilepsy related pathways using genome-wide DNA methylation measures: A trio-based approach**
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- LXII. **First Report and In Silico Analysis of Leishmania virus (LRV2) identified in an autochthonous Leishmania major isolate in Turkey.**
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- LXIII. **Computational drug repurposing to predict approved and novel drug-disease associations.**
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- LXIV. **Ameliorative potential of Lavandula stoechas in metabolic syndrome via multitarget interactions**
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- LXV. **Investigating the structural properties of the active conformation BTL2 of a lipase from *Geobacillus thermocatenulatus* in toluene using molecular dynamic simulations and engineering BTL2 via in-silico mutation**
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- LXVI. **Prediction of HIV Drug Resistance by Combining Sequence and Structural Properties.**
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- LXVII. **Enhancing Reuse of Data and Biological Material in Medical Research: From FAIR to FAIR-Health.**
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- LXVIII. **Thermostability of the PYL-PP2C Heterodimer Is Dependent on Magnesium: In Silico Insights into the Link between Heat Stress Response and Magnesium Deficiency in Plants.**
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- LXXI. **Computational approaches for *de novo* design and redesign of metal-binding sites on proteins.**
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- LXXII. **An integrative study on the impact of highly differentially methylated genes on expression and cancer etiology.**
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- LXXIII. **In silico analyses and global transcriptional profiling reveal novel putative targets for Pea3 transcription factor related to its function in neurons**
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Metrics

Publication: 221

Citation (WoS): 1993

Citation (Scopus): 2241

H-Index (WoS): 24

H-Index (Scopus): 26