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### Kişisel Bilgiler

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### Araştırma Alanları

Biyoenformatik, Bilgisayar Bilimleri, İstatistik, İstatistik Analiz ve Uygulamaları

### SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **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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- II. **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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- III. **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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- IV. **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.**  
Shehata M., Unlu A., Sezerman U., Timucin E.  
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- V. **Intraoperative Neuromonitoring of Blink Reflex During Posterior Fossa Surgeries and its Correlation With Clinical Outcome.**  
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- VI. **Analysis of Correlation between the Seven Important Helicobacter pylori (H. pylori) Virulence Factors and Drug Resistance in Patients with Gastritis**  
ÖKTEM OKULLU S., Cekic-Kipritci Z., Kilic E., Seymen N., Mansur-Ozen N., SEZERMAN O. U. , GÜROL Y.  
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- VII. **Progesterone at high doses reduces the growth of U87 and A172 glioblastoma cells: Proteomic changes regarding metabolism and immunity**  
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CANCER MEDICINE, cilt.9, sa.16, ss.5767-5780, 2020 (SCI İndekslerine Giren Dergi)
- VIII. **Probing the Structural Dynamics of the Catalytic Domain of Human Soluble Guanylate Cyclase.**  
Khalid R., Maryam A., Sezerman O. U. , Mylonas E., Siddiqi A., Kokkinidis M.  
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- IX. **Cartography of opportunistic pathogens and antibiotic resistance genes in a tertiary hospital environment**  
Chng K. R. , Li C., Bertrand D., Ng A. H. Q. , Kwah J. S. , Low H. M. , Tong C., Natrajan M., Zhang M. H. , Xu L., et al.

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- X. **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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- XI. **Understanding thermal and organic solvent stability of thermoalkalophilic lipases: insights from computational predictions and experiments.**  
Shehata M., Timucin E., Venturini A., Sezerman O. U.  
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- XII. **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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- XIII. **HriGFP Novel Fluorescent Protein: Expression and Applications**  
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- XIV. **A comprehensive study on identifying the structural and functional SNPs of human neuronal membrane glycoprotein M6A (GPM6A)**  
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- XV. **Understanding the impacts of self-shuffling approach on structure and function of shuffled endoglucanase enzyme via MD simulations Kendi üzerine gerçekleştirilen DNA karma yöntemi ile elde edilen endoglukanaz enzimlerinin yapı ve fonksiyon değişikliklerinin MD simülasyonları ile anlaşılması**  
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- XVI. **A harmonized meta-knowledgebase of clinical interpretations of somatic genomic variants in cancer.**  
Wagner A. H. , Walsh B., Mayfield G., Tamborero D., Sonkin D., Krysiak K., Deu-Pons J., Duren R. P. , Gao J., McMurry J., et al.  
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- XVII. **Comparison of endometrial prostanoid profiles in three infertile subgroups: the missing part of receptivity?**  
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- XVIII. **Adaptive phenotypic modulations lead to therapy resistance in chronic myeloid leukemia cells.**  
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- XIX. **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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- XX. **SARS-CoV-2 isolation and propagation from Turkish COVID-19 patients**  
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- XXI. **pathfindR: An R Package for Comprehensive Identification of Enriched Pathways in Omics Data Through Active Subnetworks.**  
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- XXII. **Investigation of base excision repair gene variants in late-onset Alzheimer's disease.**

- Ertuzun T., Semerci A., Cakir M. E. , Ekmekçioğlu A., Gok M. O. , Soltys D. T. , De Souza-Pinto N. C. , Sezerman U., Müftüoğlu M.  
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- XXIII. **Potential Marker Pathways in the Endometrium That May Cause Recurrent Implantation Failure.**  
Bastu E., Demiral I., Gunel T., Ulgen E., Gumusoglu E., Hosseini M. K. , Sezerman U., Buyru F., Yeh J.  
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- XXIV. **Comparison of Dendritic Cell Activation by Virus-Based Vaccine Delivery Vectors Emphasizes the Transcriptional Downregulation of the Oxidative Phosphorylation Pathway**  
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- XXV. **Identification of epilepsy related pathways using genome-wide DNA methylation measures: A trio-based approach.**  
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- XXVI. **Trichoderma Reesei Endoglukanaz I Enziminin Enzimatik Özelliklerini Selobiyohidraz I Enziminden Transfer ile Geliştirme**  
Sezerman O. U. , Yenenler A., Kurt H.  
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- XXVII. **A possible founder mutation in FZD6 gene in a Turkish family with autosomal recessive nail dysplasia.**  
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BMC medical genetics, cilt.20, ss.15, 2019 (SCI İndekslerine Giren Dergi)
- XXVIII. **First Report and In Silico Analysis of Leishmania virus (LRV2) identified in an autochthonous Leishmania major isolate in Turkey.**  
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- XXIX. **Computational drug repurposing to predict approved and novel drug-disease associations.**  
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- XXX. **Ameliorative potential of Lavandula stoechas in metabolic syndrome via multitarget interactions.**  
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- XXXI. **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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- XXXIII. **Enhancing Reuse of Data and Biological Material in Medical Research: From FAIR to FAIR-Health.**  
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- XXXIV. **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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- XXXV. **ZK DrugResist 2.0: A TextMiner to extract semantic relations of drug resistance from PubMed.**  
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- XXXVI. **Computational approaches for &i>de novo&i> design and redesign of metal-binding sites on proteins.**  
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- XXXVIII. **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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- XXXIX. **Analysis of the interplay between methylation and expression reveals its potential role in cancer aetiology.**  
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- XL. **Ligand binding pocket of a novel Allatostatin receptor type C of stick insect, Carausius morosus**  
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- XLI. **Active Subnetwork GA: A Two Stage Genetic Algorithm Approach to Active Subnetwork Search**  
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- XLII. **Predicting the impact of mutations on the specific activity of Bacillus thermocatenuatus lipase using a combined approach of docking and molecular dynamics**  
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- XLIII. **RACK1 Is an Interaction Partner of ATG5 and a Novel Regulator of Autophagy**  
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- XLIV. **Design and characterizations of two novel cellulases through single-gene shuffling of Cel12A (EG3) gene from Trichoderma reseei**  
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- XLV. **Probing the roles of two tryptophans surrounding the unique zinc coordination site in lipase family I.5**  
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- XLVI. **Prediction of neddylation sites from protein sequences and sequence-derived properties**  
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## **Diğer Dergilerde Yayınlanan Makaleler**

- I. **Differential gene expression analysis of human cumulus cells.**  
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- II. **Expression of the Bone Morphogenetic Protein-2 (BMP2) in the Human Cumulus Cells as a Biomarker of Oocytes and Embryo Quality.**  
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- III. **MOLECULAR DOCKING OF ANTHRANOIDS ON SOME TARGETED HUMAN PROTEINS**  
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- IV. **A Multiplex-Urease PCR Assay for Detection of Helicobacter pylori Infection Directly from Gastric Biopsy Specimens and Comparison of Multiplex- Urease PCR Results with Rapid Urease Test and Histopathology**  
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- V. **Systems Biological Applications for Fungal Gene Expression**  
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## **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

- I. **Seizures, developmental delay, mild intellectual disability, muscular hypotonia, and optic atrophy: About the genetic diagnosis of patient with a novel ATP1A3 mutation**  
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- II. **Rationally designed FOXO4-p53 interfering peptide selectively kills chemo-therapy-induced senescent and dormant cancer cells in vivo**  
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- III. **Leishmaniasis in Turkey: comparison of the microbiota of the intact skin and lesion site in patients with cutaneous leishmaniasis**  
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- IV. **Irritable bowel syndrome and microbiota: first clinical study on correlations between gut bacteria, Dientamoeba fragilis, Blastocystis and eating habits in Turkey**  
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- V. **ENDOMETRIAL GENE EXPRESSION IN PATIENTS WITH RECURRENT IMPLANTATION FAILURE.**  
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- VI. **RAC1 SIGNALING PATHWAY IS CRUCIAL FOR ETIOLOGY OF REPEATED IMPLANTATION FAILURE (RIF).**  
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- VII. **Integrated Genomic and Proteomic Analyses of Multiple Sclerosis**  
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- VIII. **Characterization of the binding pocket of Allatostatin receptor type C of stick insect**  
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- IX. **Proteomic Analysis in CSF Identified Subtype Specific and Shared Molecular Pathways for Multiple Sclerosis Clinical Phenotypes**  
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- X. **Magnesium confers stability to the PYL10 PP2C complex at high temperatures Insights from molecular dynamics simulations**  
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- XI. **Zinc induces self assembly of thermoalkalophilic lipases A strategy for thermostability**  
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- XII. **Modifying the chain length selectivity of Bacillus thermocatenulatus lipase through computational models of the enzyme substrate complex**  
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- XIII. **Computational Models for Chain Length Selectivity of Bacillus thermocatenulatus lipase**  
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- XIV. **Modification of Media pH Significantly Improves Recombinant Protein Stabilityin Pichia pastoris**  
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- XV. **High throughput protein expression in Pichia pastoris using a non repressing carbon source**  
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The Protein Istanbul (PROTIST), İstanbul, Türkiye, 23 - 25 Nisan 2010
- XVI. **From in silico to in vitro Modelling and production of Trichoderma reesei endoglucanase 1 mutants in Pichia pastoris for textile biofinishing**  
BAYRAM AKÇAPINAR G., GÜL Ö., SEZERMAN O. U.  
III International Conference on Environmental, Industrial and Applied Microbiology “ (BioMicroWorld2009),  
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- XVII. **Cloning of T reesei Cellulase Components in P pastoris and Impact of Loop Mutations on EGI of T reesei**  
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- XVIII. **Impact of mutations on thermal stability of T reesei EGII a computational study**  
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**XIX. Immobilized Glucose Oxidase GOD for better stability and reuse in biobleaching of textiles**

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**XX. Use of cellulase jeffamine networks in place of the free enzyme may alleviate the problem of lost fiber strength during textile processing**

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