

Assoc. Prof. BESTE TURANLI

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAA-7795-2021

ScopusID: 57196402528

Yoksis Researcher ID: 181033

Education Information

Doctorate, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Turkey 2014 - 2018

Postgraduate, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Turkey 2012 - 2014

Undergraduate, Ege University, Faculty Of Engineering, Biyomühendislik Bölümü, Turkey 2006 - 2011

Foreign Languages

English, C2 Mastery

Dissertations

Doctorate, Systems biomedicine and pharmacology approaches for drug repositioning to uncover candidate anti-cancer drugs, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, 2018

Postgraduate, Purification and characterization of levansucrase by *Halomonas smyrnensis* AAD6T, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Department of Bioengineering (Eng), 2014

Research Areas

Biochemistry, Bioinformatics, Biological Information, Biological Modelling, Biological Databases, Biotechnology, Genomics, Molecular Biology of Cancer

Academic Titles / Tasks

Assistant Professor, Marmara University, Faculty of Engineering, Bioengineering, 2020 - Continues

Research Assistant, Istanbul Medeniyet University, Faculty Of Engineering And Natural Sciences , Bioengineering , 2012 - 2020

- I. **Comparative analysis of diisononyl phthalate and di(isononyl)cyclohexane-1,2 dicarboxylate plasticizers in regulation of lipid metabolism in 3T3-L1 cells**
BEREKETOĞLU C., Häggblom I., TURANLI B., Pradhan A.
Environmental Toxicology, vol.39, no.3, pp.1245-1257, 2024 (SCI-Expanded)
- II. **DCDA: CircRNA–Disease Association Prediction with Feed-Forward Neural Network and Deep Autoencoder**
Turgut H., TURANLI B., BOZ B.
Interdisciplinary Sciences – Computational Life Sciences, vol.16, no.1, pp.91-103, 2024 (SCI-Expanded)
- III. **Genome-scale metabolic models in translational medicine: the current status and potential of machine learning in improving the effectiveness of the models**
TURANLI B., Gulfidan G., Aydogan O. O., KULA C., Selvaraj G., ARGÄ K. Y.
Molecular Omics, vol.20, no.4, pp.234-247, 2024 (SCI-Expanded)
- IV. **Integrated systems biology analysis of acute lymphoblastic leukemia: unveiling molecular signatures and drug repurposing opportunities**
Budak B., Tükel E. Y., TURANLI B., Kiraz Y.
Annals of Hematology, 2024 (SCI-Expanded)
- V. **Decoding Systems Biology of Inflammation Signatures in Cancer Pathogenesis: Pan-Cancer Insights from 12 Common Cancers**
TURANLI B.
Omics : a journal of integrative biology, vol.27, no.10, pp.483-493, 2023 (SCI-Expanded)
- VI. **Idiopathic Pulmonary Fibrosis Molecular Substrates Revealed by Competing Endogenous RNA Regulatory Networks**
Kircali M. F., TURANLI B.
OMICS A Journal of Integrative Biology, vol.27, no.8, pp.381-392, 2023 (SCI-Expanded)
- VII. **Epigenomic and transcriptomic landscaping unraveled candidate repositioned therapeutics for non-functioning pituitary neuroendocrine tumors.**
Aydin B., Beklen H., Arga K. Y., Bayrakli F., Turanli B.
Journal of endocrinological investigation, vol.46, pp.727-747, 2023 (SCI-Expanded)
- VIII. **Drug repositioning via host-pathogen protein-protein interactions for the treatment of cervical cancer.**
Kori M., Turanli B., Arga K. Y.
Frontiers in oncology, vol.13, pp.1096081, 2023 (SCI-Expanded)
- IX. **Acute Myeloid Leukemia: New Multiomics Molecular Signatures and Implications for Systems Medicine Diagnostics and Therapeutics Innovation**
Kelesoglu N., Kori M., TURANLI B., ARĀ K. Y., Yilmaz B., Duru O. A.
OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.26, no.7, pp.392-403, 2022 (SCI-Expanded)
- X. **Repositioning of Anti-Inflammatory Drugs for the Treatment of Cervical Cancer Sub-Types**
Kori M., ARĀ K. Y., Mardinoglu A., TURANLI B.
FRONTIERS IN PHARMACOLOGY, vol.13, 2022 (SCI-Expanded)
- XI. **Past, Present, and Future of Therapies for Pituitary Neuroendocrine Tumors: Need for Omics and Drug Repositioning Guidance**
Aydin B., Yildirim E., ERDOĀAN O., ARĀ K. Y., Yilmaz B., BOZKURT S., BAYRAKLI F., TURANLI B.
OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.26, no.3, pp.115-129, 2022 (SCI-Expanded)
- XII. **Systems biomarkers for papillary thyroid cancer prognosis and treatment through multi-omics networks**
Gulfidan G., Soylu M., Demirel D., Erdonmez H. B. C., Beklen H., ÖZBEK SARICA P., ARĀ K. Y., TURANLI B.
ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS, vol.715, 2022 (SCI-Expanded)
- XIII. **Differential Protein Interactome in Esophageal Squamous Cell Carcinoma Offers Novel Systems Biomarker Candidates with High Diagnostic and Prognostic Performance**
Gulfidan G., Beklen H., Sinha I., Kucukalp F., Caloglu B., Esen I., TURANLI B., Ayyildiz D., ARĀ K. Y., Sinha R.
OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.25, pp.495-512, 2021 (SCI-Expanded)

- XIV. **Systems-level biomarkers identification and drug repositioning in colorectal cancer**
Beklen H., Yildirim E., Kori M., TURANLI B., ARĀA K. Y.
WORLD JOURNAL OF GASTROINTESTINAL ONCOLOGY, vol.13, no.7, pp.638-661, 2021 (SCI-Expanded)
- XV. **The Repertoire of Glycan Alterations and Glycoproteins in Human Cancers.**
Kori M., Aydin B., Gulfidan G., Beklen H., Kelesoglu N., Caliskan Iscan A., Turanli B., Erzik C., Karademir B., Arga K. Y.
Omics : a journal of integrative biology, vol.25, no.3, pp.139-168, 2021 (SCI-Expanded)
- XVI. **Current State of "Omics" Biomarkers in Pancreatic Cancer**
TURANLI B., Yildirim E., Gulfidan G., ARĀA K. Y., Sinha R.
JOURNAL OF PERSONALIZED MEDICINE, vol.11, no.2, 2021 (SCI-Expanded)
- XVII. **Systems biology based drug repositioning for development of cancer therapy.**
Turanli B., Altay O., Borén J., Turkez H., Nielsen J., Uhlen M., Arga K. Y., Mardinoglu A.
Seminars in cancer biology, vol.68, pp.47-58, 2021 (SCI-Expanded)
- XVIII. **Comprehensive Analysis of RNA-Seq Gene Expression Profiling of Brain Transcriptomes Reveals Novel Genes, Regulators, and Pathways in Autism Spectrum Disorder**
Rahman M. R., Petralia M. C., Ciurleo R., Bramanti A., Fagone P., Shahjaman M., Wu L., Sun Y., TURANLI B., ARĀA K. Y., et al.
BRAIN SCIENCES, vol.10, no.10, 2020 (SCI-Expanded)
- XIX. **Drug Repositioning for P-Glycoprotein Mediated Co-Expression Networks in Colorectal Cancer**
Beklen H., Gulfidan G., ARĀA K. Y., Mardinoglu A., Turanli B.
FRONTIERS IN ONCOLOGY, vol.10, 2020 (SCI-Expanded)
- XX. **Pan-cancer mapping of differential protein-protein interactions**
Gulfidan G., Turanli B., Beklen H., Sinha R., Arga K. Y.
SCIENTIFIC REPORTS, vol.10, no.1, 2020 (SCI-Expanded)
- XXI. **Classification of clear cell renal cell carcinoma based on PKM alternative splicing**
Li X., TURANLI B., Juszcak K., Kim W., Arif M., Sato Y., Ogawa S., Turkez H., Nielsen J., Boren J., et al.
HELIYON, vol.6, no.2, 2020 (SCI-Expanded)
- XXII. **Multi-Omic Data Interpretation to Repurpose Subtype Specific Drug Candidates for Breast Cancer**
Turanli B., Karagoz K., Bidkhorji G., Sinha R., Gatza M., Uhlen M., Mardinoglu A., Arga K. Y.
FRONTIERS IN GENETICS, vol.10, 2019 (SCI-Expanded)
- XXIII. **Discovery of therapeutic agents for prostate cancer using genome-scale metabolic modeling and drug repositioning**
Turanli B., Zhang C., Kim W., Benfeitas R., Uhlen M., Arga K. Y., Mardinoglu A.
EBIOMEDICINE, vol.42, pp.386-396, 2019 (SCI-Expanded)
- XXIV. **Network-based approach to identify molecular signatures and therapeutic agents in Alzheimer's disease**
Rahman M. R., Islam T., TURANLI B., Zaman T., Faruquee H. M., Rahman M. M., Mollah M. N. H., Nanda R. K., ARĀA K. Y., Gov E., et al.
COMPUTATIONAL BIOLOGY AND CHEMISTRY, vol.78, pp.431-439, 2019 (SCI-Expanded)
- XXV. **Identification of Prognostic Biomarker Signatures and Candidate Drugs in Colorectal Cancer: Insights from Systems Biology Analysis**
Rahman M. R., Islam T., Gov E., Turanli B., Gulfidan G., Shahjaman M., Banu N. A., Mollah M. N. H., ARĀA K. Y., Moni M. A.
MEDICINA-LITHUANIA, vol.55, no.1, 2019 (SCI-Expanded)
- XXVI. **Drug Targeting and Biomarkers in Head and Neck Cancers: Insights from Systems Biology Analyses**
İSLAM T., RAHMAN R., GÖV E., TURANLI B., GÜLFİDAN G., HAQUE M. A., ARĀA K. Y., Mollah M. N. H.
OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.22, no.6, pp.422-436, 2018 (SCI-Expanded)
- XXVII. **Drug Repositioning for Effective Prostate Cancer Treatment**
TURANLI B., Groth M., BOREN J., NIELSEN J., UHLEN M., ARĀA K. Y., MARDİNOĒLU A.
FRONTIERS IN PHYSIOLOGY, vol.9, 2018 (SCI-Expanded)
- XXVIII. **Systems biomarkers in psoriasis: Integrative evaluation of computational and experimental data at transcript and protein levels**

Sevimoglu T, Turanli B., Bereketoglu C., ARĀA K. Y., KARADAĀ A. S.

GENE, vol.647, pp.157-163, 2018 (SCI-Expanded)

XXIX. A Network-Based Cancer Drug Discovery: From Integrated Multi-Omics Approaches to Precision Medicine

TURANLI B., Karagoz K., Gulfidan G., Sinha R., Mardinoglu A., ARĀA K. Y.

CURRENT PHARMACEUTICAL DESIGN, vol.24, no.32, pp.3778-3790, 2018 (SCI-Expanded)

XXX. Transcriptomic-Guided Drug Repositioning Supported by a New Bioinformatics Search Tool: geneXpharma

Turanli B., Gulfidan G., ARĀA K. Y.

OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.21, no.10, pp.584-591, 2017 (SCI-Expanded)

XXXI. Impact of SRT on the efficiency and microbial community of sequential anaerobic and aerobic membrane bioreactors for the treatment of textile industry wastewater

Yurtsever A., Calimlioglu B., ŐAHĪNKAYA E.

CHEMICAL ENGINEERING JOURNAL, vol.314, pp.378-387, 2017 (SCI-Expanded)

XXXII. Simultaneous nitrate and perchlorate removal from groundwater by heterotrophic-autotrophic sequential system

Ucar D., okgr E., ŐAHĪNKAYA E., Cetin U., Bereketoglu C., Calimlioglu B., GNC B., Yurtsever A.

INTERNATIONAL BIODETERIORATION & BIODEGRADATION, vol.116, pp.83-90, 2017 (SCI-Expanded)

XXXIII. Tissue-Specific Molecular Biomarker Signatures of Type 2 Diabetes: An Integrative Analysis of Transcriptomics and Protein-Protein Interaction Data

Calimlioglu B., Karagoz K., Sevimoglu T., Kilic E., Gov E., ARĀA K. Y.

OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.19, no.9, pp.563-573, 2015 (SCI-Expanded)

XXXIV. Simultaneous bioreduction of nitrate and chromate using sulfur-based mixotrophic denitrification process

ŐAHĪNKAYA E., Kilic A., Calimlioglu B., TOKER Y.

JOURNAL OF HAZARDOUS MATERIALS, vol.262, pp.234-239, 2013 (SCI-Expanded)

Articles Published in Other Journals

I. Prospects of integrated multi-omics-driven biomarkers for efficient hair loss therapy from systems biology perspective

Yilmaz D. N., Aydogan O. O., Kori M., Aydin B., Rahman M. R., Moni M. A., TURANLI B.

GENE REPORTS, vol.28, 2022 (ESCI)

II. Differential Interactome Based Drug Repositioning Unraveled Abacavir, Exemestane, Nortriptyline Hydrochloride, and Tolcapone as Potential Therapeutics for Colorectal Cancers

beklen h., arslan s., Gulfidan G., Turanlı B., ZBEK SARICA P., Karademir Yılmaz B., ARĀA K. Y.

Frontiers in Bioinformatics, vol.1, 2021 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. Systems Biology Perspective of Gender Biases in Papillary Thyroid Cancer Diagnosis, Prognosis and Therapy

TURANLI B.

V. International Agricultural, Biological & Life Science Conference, Edirne, Turkey, 18 - 20 September 2023

II. Network Based Integration of Multi-Omic Profiles to Purpose New Biomarker Candidates in Pancreatic Cancer

Yildirim Sirkeci E., TURANLI B.

5th International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem)), Ankara, Turkey, 23 - 25 November 2022

- III. **Comparative Study on Understanding Molecular Signatures of ALL and Philadelphia Positive ALL in Adults**
BUDAK B., KIRAZ Y., TURANLI B.
4th EURASIA BIOCHEMICAL APPROACHES & TECHNOLOGIES (EBAT) CONGRESS, Antalya, Turkey, 3 - 06 November 2022
- IV. **Transcriptomics-Based Drug Repurposing Unravels Novel Therapeutic Strategies in AML**
KELEŞOĞLU N., Korkmaz N. S., TURANLI B., ARĞA K. Y., YILMAZ B., ATEŞ DURU Ö.
4th EURASIA BIOCHEMICAL APPROACHES & TECHNOLOGIES (EBAT) CONGRESS, Antalya, Turkey, 3 - 06 November 2022
- V. **Multi-Omics Data Integration to Unveil Molecular Signatures and Repositioned Therapeutics in Pituitary Neuroendocrine Tumors**
AYDIN B., TURANLI B.
BIOINFO 2022 Annual Conference, Daejeon, South Korea, 19 - 21 October 2022
- VI. **Systems Biology Perspective for Elucidation of Secreted Protein Biomarkers in Alzheimer's Disease**
TURANLI B.
2nd International Natural Science, Engineering and Material Technologies Conference, Kırklareli, Turkey, 15 - 17 September 2022
- VII. **Identification of Cervical Cancer Sub-Type Specific Molecular Targets, Biomarkers and Repurposed Drug Candidates**
TURANLI B.
3rd EURASIA BIOCHEMICAL APPROACHES & TECHNOLOGIES (EBAT) CONGRESS, Antalya, Turkey, 4 - 07 November 2021
- VIII. **Novel Systems Biomarker Candidates with High Diagnostic and Prognostic Performance in Esophageal Squamous Cell Carcinoma**
GULFİDAN G., BEKLEN H., TURANLI B., AYYILDIZ D., Sinha R., ARĞA K. Y.
3rd EURASIA BIOCHEMICAL APPROACHES & TECHNOLOGIES (EBAT) CONGRESS, Antalya, Turkey, 4 - 07 November 2021
- IX. **Differential Interactome Based Drug Repositioning Unraveled Potential Therapeutics for Colorectal Cancers**
BEKLEN H., Arslan S., GULFİDAN G., TURANLI B., ÖZBEK SARICA P., YILMAZ B., ARĞA K. Y.
3rd EURASIA BIOCHEMICAL APPROACHES & TECHNOLOGIES (EBAT) CONGRESS, Antalya, Turkey, 4 - 07 November 2021
- X. **Decoding molecular signatures of pituitary neuroendocrine tumors' subtypes through systems biomedicine perspective**
AYDIN B., Yildirim Sirkeci E., ERDOĞAN O., BAYRAKLI F., BOZKURT S., ARĞA K. Y., TURANLI B.
5th International Symposium on Bioinformatics (InSyB2021), İstanbul, Turkey, 15 - 17 December 2021
- XI. **Drug Repositioning in Colorectal Cancer by using Co-expression Networks of P-glycoprotein**
BEKLEN H., GULFİDAN G., ARĞA K. Y., NIELSEN J., TURANLI B.
13th The International Symposium on Health Informatics and Bioinformatics, Turkey, 22 - 23 October 2020
- XII. **DRUG REPOSITIONING IN PROSTATE CANCER THROUGH GENOME-SCALE METABOLIC MODELING**
AYDOĞMUŞ E. M., gülfidan g., TURANLI B., ERZİK C., DEMİR Ü., KISAAYAK ÇOLLAK F., ARĞA K. Y.
applied bioinformatics in life sciences, Leuven, Belgium, 13 - 14 February 2020
- XIII. **Identification of Systems Biomarkers and Candidate Drugs in Prostate Adenocarcinoma**
GULFİDAN G., BEKLEN H., TURANLI B., ARĞA K. Y.
The 12th International Symposium on Health Informatics and Bioinformatics (HIBIT 2019), İzmir, Turkey, 17 - 19 October 2019
- XIV. **Drug Repositioning And Docking Studies on Melanoma**
İmat N. B., TURANLI B., ACUNER ZORLUYUSAL S. E.
The 12th International Symposium on Health Informatics and Bioinformatics (HIBIT 2019), İzmir, Turkey, 17 - 19 October 2019
- XV. **Determination Of Candidate Biomarkers Through Differential Interactome in Colorectal**

Adenocarcinoma

BEKLEN H., GULFİDAN G., TURANLI B., ÖZBEK SARICA P., YILMAZ B., ARĞA K. Y.

The 12th International Symposium on Health Informatics and Bioinformatics (HIBIT 2019), İzmir, Turkey, 17 - 19 October 2019

- XVI. **Drug repositioning for cancer therapy by the employment of systems biology**
TURANLI B., GULFİDAN G., MARDINOĞLU A., ARĞA K. Y.
Cell Death: Degeneration and Regeneration Symposium, İstanbul, Turkey, 3 - 05 October 2019
- XVII. **Multi Omic Stratejiler Yardımıyla Endometriyozis Hastalığı için Biyobelirteç Tayini**
Kori M., ÇALIMLIOĞLU B., ARĞA K. Y.
4. Ulusal Moleküler Biyoloji ve Biyoteknoloji, Turkey, 21 - 24 August 2015
- XVIII. **Sistem biyotıp araştırmaları için bütünleştirilmiş biyolojik ağlar yaklaşımı**
ÇALIMLIOĞLU B., ARĞA K. Y.
4. ULUSAL MOLEKÜLER BİYOLOJİ VE BİYOTEKNOLOJİ KONGRESİ, Turkey, 21 - 24 August 2015
- XIX. **Metabolic Variability Analysis Through Human Metabolic Model**
ISLER E., YAVUZ U., ÇALIMLIOĞLU B., ARĞA K. Y.
3rd International Gen-Arel Molecular Biology and Genetics Student Congress, 24 - 25 April 2015
- XX. **Genomic and Proteomic Candidate Biomarker Investigation for Personalized Medicine**
Baran B., AKBAS M., ÇALIMLIOĞLU B., ARĞA K. Y.
3rd International Gen-Arel Molecular Biology and Genetics Student Congress, 24 - 25 April 2015
- XXI. **A novel levansucrase purified from halophilic bacteria halomonas smyrnensis AAD6T**
TURANLI B., ARĞA K. Y., TOKSOY ÖNER E.
10th Carbohydrate Bioengineering Meeting (CBM10), Prague, Czech Republic, 21 - 24 April 2013
- XXII. **Determining Anti-apoptotic Efficacy of Bcl-xL Protein Encoded by a Dual Promoter Mammalian Expression Vector Developed For Biotechnological Applications**
TURANLI B., GÜLÇE İZ S., GÜRHAN S. İ.
6th International Molecular Biology and Genetic Student Congress, İstanbul, Turkey, 27 - 30 August 2012
- XXIII. **Use Of Microbial Fuel Cells For Electricity Generation From Wastewaters**
TURANLI B., AĞIR İ., TOKER Y., ŞAHİNKAYA E., ÖZKAYA B.
2nd International 100% Renewable Energy Conference and Exhibition (IRENEC2012), İstanbul, Turkey, 28 - 30 June 2012

Supported Projects

Bereketoğlu C., Turanlı B., Mertoğlu B., TÜBİTAK Project, Nanoplastiklerin Saccharomyces Cerevisiae Üzerindeki Toksik Etkilerinin Araştırılması Ve Crispr Yöntemi İle Toksikitede Kilit Rol Oynayan Metabolik Yol İzlerinin Manipülasyonu, 2021 - 2024

Turanlı B., Arğa K. Y., TÜBİTAK Project, Drug repositioning for cervical cancer subtypes via host-pathogen interactions and genome-scale metabolic modelling, 2020 - 2021

Turanlı B., Toksoy Başaran S., TÜBİTAK Project, Ardışık Sabit Yataklı Anaerobik ve Aerobik Biyoreaktörlerde Metal İşleme Endüstrisi Atıksularının Arıtımı ve Mikrobiyal Popülasyonun Yenilikçi Moleküler Tekniklerle Belirlenmesi, 2019 - 2020

Turanlı B., Uçar D., Çoban I., Project Supported by Higher Education Institutions, Eysel atıklardan biyoetanol üretim sürecinde enerji ve enzim sarfiyatının optimizasyonu, 2018 - 2019

Arğa K. Y., Kısaayak Çollak F., Erzik C., Demir Ü., Turanlı B., TÜBİTAK Project, Sistem Biyolojisi Bakışı İle Farklı Seviyelerde Biyolojik Moleküller Üzerinden Prostat Kanseri İçin İlaç Repozisyonu Uygulamaları, 2017 - 2019

Arğa K. Y., TURANLI B., TÜBİTAK Project, Hesaplamalı Sistem Biyolojisi Yaklaşımı İle Kansere İlişkili İşaretçi Moleküllerin Tespiti Ve Haritalanması, 2017 - 2018

Arğa K. Y., TURANLI B., Project Supported by Higher Education Institutions, Aday kanser karşıtı ilaçların bulunması için sistem biyotıp ve farmakolojisi yaklaşımı ile ilaç repozisyonu, 2016 - 2018

Metrics

Publication: 61

Citation (WoS): 555

Citation (Scopus): 888

H-Index (WoS): 14

H-Index (Scopus): 18

Scholarships

2214-A Yurt Dışı Araştırma Burs Programı, TUBITAK, 2017 - 2018

2211-A BİDEB Yurtdışı Doktora Akademik Başarı Bursu, TUBITAK, 2014 - 2017

Non Academic Experience

KTH