

Prof. KAZIM YALÇIN ARGA

Personal Information

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International Researcher IDs

ScholarID: [fmS6CggAAAAJ](https://orcid.org/0000-0002-6036-1348)

ORCID: 0000-0002-6036-1348

Publons / Web Of Science ResearcherID: Z-3711-2019

ScopusID: 6506016742

Yoksis Researcher ID: 23663

Education Information

Doctorate, Bogazici University, Institute Of Science, Kimya Mühendisliği (Dr), Turkey 2002 - 2007

Postgraduate, Bogazici University, Institute Of Science, Kimya Mühendisliği (YI) (Tezli), Turkey 2001 - 2002

Undergraduate, Bogazici University, Faculty Of Engineering, Department Of Chemistry Engineering, Turkey 1997 - 2001

Biography

K. Yalçın Arga is a professor of bioengineering and senior expert on bioinformatics and multi-omics research. His research centers on statistical and mathematical modeling and translation of Big Data to applications in systems biology, pharmaceutical innovation, drug repositioning, health care, and clinical practice. He is a frequent contributor to recognized international systems biology forums as well as having authored works in high-impact journals such as Nature Biotechnology. His works are interdisciplinary and integrative, spanning the continuum of metabolic systems engineering in bacteria to drug repurposing and diagnostics innovation for common complex human diseases. His research currently focuses on translating multi-omics Big Data to clinical and health care innovation. Professor Arga has also mentored numerous students who have gone on to pursue productive careers as independent researchers in academia and industry. Prof. Arga received his Bachelor's degree (B.Sc.) and Doctorate (Ph.D.) in Chemical Engineering from Boğaziçi University in Istanbul. He is currently Professor of Bioengineering at the Department of Bioengineering at Marmara University Istanbul, Turkey. Professor Arga is a frequently sought after the referee in the field of systems biology, bioinformatics, and bioengineering and a frequent presenter at international conferences.

Foreign Languages

English, C2 Mastery

Dissertations

Doctorate, Systems biology of yeast signal transduction , Marmara University, Faculty of Engineering, Bioengineering, 2007

Research Areas

Biostatistics and Medical Informatics, Biochemistry, Medical Biology, Biomedical Engineering, Clinical Engineering, Biotechnology, Biochemical Reaction Engineering, Biomedical Engineering, Biotechnological Processes and Fermentation Technology, Metabolic Engineering

Academic Titles / Tasks

Professor, Marmara University, Faculty of Engineering, Bioengineering, 2020 - Continues
Associate Professor, Marmara University, Faculty of Engineering, Bioengineering, 2015 - 2020
Assistant Professor, Marmara University, Faculty of Engineering, Bioengineering, 2007 - 2015
Research Assistant, Bogazici University, Faculty Of Engineering, Department Of Chemistry Engineering, 2001 - 2007

Academic and Administrative Experience

Soruşturma Komisyonu Üyesi, Marmara University, Faculty of Engineering, Bioengineering, 2022 - Continues
Deputy Head of Department, Marmara University, Faculty of Engineering, Bioengineering, 2022 - Continues
Bölüm Akademik Teşvik Değerlendirme Komisyonu Üyesi, Marmara University, Faculty of Engineering, Bioengineering, 2018 - Continues
Akademisyen, Marmara University, Faculty of Engineering, Bioengineering, 2019 - 2021
Ar-Ge Direktörü, Marmara University, Faculty of Engineering, Bioengineering, 2019 - 2020
Deputy Head of Department, Marmara University, Faculty of Engineering, Bioengineering, 2012 - 2019
Bölüm Tanıtım ve Mezunlarla İlişkiler Komisyonu Başkanı, Marmara University, Faculty of Engineering, Bioengineering, 2010 - 2019
Bölüm Akademik Teşvik Değerlendirme Komisyonu Üyesi, Marmara University, Faculty of Engineering, Bioengineering, 2015 - 2018
Fakülte Yönetim Kurulu Üyesi, Marmara University, Faculty of Engineering, Bioengineering, 2015 - 2018
Fakülte Kurulu Üyesi, Marmara University, Faculty of Engineering, Bioengineering, 2014 - 2017
Birim Tanıtım ve Mezunlarla İlişkiler Komisyonu Üyesi, Marmara University, Faculty of Engineering, Bioengineering, 2010 - 2013
Deputy Head of Department, Marmara University, Faculty of Engineering, Bioengineering, 2008 - 2009

Courses

Introduction to Bioengineering, Undergraduate, 2022 - 2023
Biostatistics, Postgraduate, 2022 - 2023
Bioprocess Dynamics and Control, Undergraduate, 2021 - 2022
Scientific Programming, Undergraduate, 2021 - 2022, 2018 - 2019, 2017 - 2018
Bioengineering Project II, Undergraduate, 2018 - 2019
Introduction to Systems Biology, Undergraduate, 2018 - 2019
Mathematical Applications in Bioengineering Systems, Undergraduate, 2018 - 2019
Advanced Topics in Bioengineering I, Doctorate, 2018 - 2019
Engineering Medicine, Postgraduate, 2018 - 2019
Endüstriyel Hijyen ve Toksikoloji, Postgraduate, 2018 - 2019
Biostatistics, Undergraduate, 2017 - 2018

Business in a Competitive Environment in Bioengineering, Undergraduate, 2017 - 2018
Dönem Projesi, Postgraduate, 2018 - 2019
Mathematical Modeling in Biological Systems, Postgraduate, 2018 - 2019
Toksikoloji, Doctorate, 2018 - 2019
Bioengineering Principles, Undergraduate, 2018 - 2019
System Biology, Postgraduate, 2018 - 2019
Biological Networks Theory, Doctorate, 2018 - 2019
Bioengineering Project I, Undergraduate, 2018 - 2019
Endüstriyel Hijyen ve Enstrümantasyon, Doctorate, 2017 - 2018
Advanced Bioinformatics, Postgraduate, 2017 - 2018

Advising Theses

ARĞA K. Y., Differential co-expression analysis of human cancers to reveal systems biomarkers for diagnostic and therapeutic trials, Postgraduate, M.Nur(Student), 2019
ARĞA K. Y., Reconstruction of tissue-specific protein-protein interaction sub-networks to improve prediction accuracy of bioinformatics tools, Postgraduate, N.Çakır(Student), 2019
ARĞA K. Y., Systems biomedicine and pharmacology approaches for drug repositioning to uncover candidate anti-cancer drugs, Doctorate, B.TURANLI(Student), 2018
ARĞA K. Y., Dynamic mapping of protein interactions in cancer, Postgraduate, G.GÜLFİDAN(Student), 2018
ARĞA K. Y., Systems biology approaches to identify novel biomarkers for diagnosis, prognosis and therapeutics in ovarian cancer, Doctorate, E.GÖV(Student), 2017
ARĞA K. Y., Brevibacillus thermoruber as a microbial cell factory, Doctorate, S.YAŞAR(Student), 2017
ARĞA K. Y., Analysis of dose rate-tumor response with a mathematical model in treatment of intracranial metastases with Gamma Knife Radiosurgery, Postgraduate, A.FİDAN(Student), 2016
ARĞA K. Y., Systematic and integrative analysis of breast cancer and other associated diseases using transcriptome data and interactome networks, Doctorate, K.KARAGÖZ(Student), 2015
ARĞA K. Y., Computational prediction of genomic and proteomic biomarker candidates for reproductive system associated women diseases, Postgraduate, M.KORİ(Student), 2015
ARĞA K. Y., Using systems based models to uncover the disease network of Psoriasis and its associations with other autoimmune-related diseases, Doctorate, T.SEVİMOĞLU(Student), 2015
ARĞA K. Y., Purification and characterization of levansucrase by Halomonas smyrnensis AAD6T, Postgraduate, B.ÇALIMLIOĞLU(Student), 2014
ARĞA K. Y., Investigation of the fructose uptake system in halomonas smyrnensis AAD6 to design strategies for enhanced levan biosynthesis, Postgraduate, B.AYDIN(Student), 2014
ARĞA K. Y., Bioinformatics based metabolic network reconstruction of levan producing Halomonas smyrnensis AAD6, Postgraduate, T.ÖZER(Student), 2013
ARĞA K. Y., Whole genome sequencing and genome annotation of levan producing Halomonas smyrnensis AAD6, Postgraduate, E.SÖĞÜTCÜ(Student), 2012

Research Infrastructure Information

Arğa K. Y., TÜSEB Omik Merkezi, July 2020
Arğa K. Y., Özbek Sarıca P., Hesaplamalı Biyoloji ve Biyoinformatik Laboratuvarı, January 2011
Arğa K. Y., Systems Bioengineering Laboratory, January 2011
Arğa K. Y., Toksoy Öner E., Industrial Biotechnology and Systems Biology Laboratory, January 2008

Education Infrastructure Information

Designed Programs

Arĝa K. Y., Undergraduate, Biyomühendislik Lisans Programı, 2011 - Continues

Arĝa K. Y., Postgraduate, Biyomühendislik Doktora Programı, 2010 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Tumor Mutation Burden as a Cornerstone in Precision Oncology Landscapes: Effect of Panel Size and Uncertainty in Cutoffs**
Budak B., ARGA K. Y.
OMICS A Journal of Integrative Biology, vol.28, no.4, pp.193-203, 2024 (SCI-Expanded)
- II. **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., ARGA K. Y.
Molecular Omics, vol.20, no.4, pp.234-247, 2024 (SCI-Expanded)
- III. **A 19-Gene Signature of Serous Ovarian Cancer Identified by Machine Learning and Systems Biology: Prospects for Diagnostics and Personalized Medicine**
Kori M., Demirtas T. Y., Comertpay B., ARGA K. Y., Sinha R., Gov E.
OMICS A Journal of Integrative Biology, vol.28, no.2, pp.90-101, 2024 (SCI-Expanded)
- IV. **Pharmacomicrobiomics-Guided Precision Oncology: A New Frontier of P4 (Predictive, Personalized, Preventive, and Participatory) Medicine and Microbiome-Based Therapeutics**
ARGA K. Y., Attia H., Aziz R. K.
Omics : a journal of integrative biology, vol.28, no.1, pp.5-7, 2024 (SCI-Expanded)
- V. **Differential co-expression network analysis elucidated genes associated with sensitivity to farnesyltransferase inhibitor and prognosis of acute myeloid leukemia**
Kelesoglu N., Kori M., Yilmaz B. K., Duru O. A., ARGA K. Y.
Cancer Medicine, vol.12, no.24, pp.22420-22436, 2023 (SCI-Expanded)
- VI. **A Differential Transcriptional Regulome Approach to Unpack Cancer Biology: Insights on Renal Cell Carcinoma Subtypes**
Caliskan A., ARGA K. Y.
OMICS A Journal of Integrative Biology, vol.27, no.11, pp.536-545, 2023 (SCI-Expanded)
- VII. **Three candidate anticancer drugs were repositioned by integrative analysis of the transcriptomes of species with different regenerative abilities after injury**
Kubat Oktem E., Demir U., Yazar M., ARGA K. Y.
Computational Biology and Chemistry, vol.106, 2023 (SCI-Expanded)
- VIII. **Toward Precision Oncology in Glioblastoma with a Personalized Cancer Genome Reporting Tool and Genetic Changes Identified by Whole Exome Sequencing**
ERDOĞAN O., Özkaya Ş. Ç., ERZİK C., Bilguvar K., ARGA K. Y., BAYRAKLI F.
Omics : a journal of integrative biology, vol.27, no.9, pp.426-433, 2023 (SCI-Expanded)
- IX. **The Versatility of Plectin in Cancer: A Pan-Cancer Analysis on Potential Diagnostic and Prognostic Impacts of Plectin Isoforms**
Gundesli H., Kori M., ARGA K. Y.
OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.27, no.6, pp.281-296, 2023 (SCI-Expanded)
- X. **HPV16 status predicts potential protein biomarkers and therapeutics in head and neck squamous cell carcinoma**
Kori M., ARĜA K. Y.
Virology, vol.582, pp.90-99, 2023 (SCI-Expanded)

- XI. **Systems Biomarkers, Artificial Intelligence, and One Health Vision Can Help Fight Antimicrobial Resistance**
KULA C., ARĀA K. Y.
OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.27, no.4, pp.191-192, 2023 (SCI-Expanded)
- XII. **A Transcriptomic and Reverse-Engineering Strategy Reveals Molecular Signatures of Arachidonic Acid Metabolism in 12 Cancers**
KUBAT ÖKTEM E., Aydin B., Gulfidan G., ARĀA K. Y.
OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.27, no.3, pp.127-138, 2023 (SCI-Expanded)
- XIII. **Potential Early Markers for Breast Cancer: A Proteomic Approach Comparing Saliva and Serum Samples in a Pilot Study**
Sinha I., Fogle R. L., Gulfidan G., Stanley A. E., Walter V., Hollenbeak C. S., ARĀA K. Y., Sinha R.
International Journal of Molecular Sciences, vol.24, no.4, 2023 (SCI-Expanded)
- XIV. **Editorial: Omics integration and network medicine to decipher human complex diseases**
Zanfardino M., Babbi G., ARĀA K. Y., Pane K.
Frontiers in Genetics, vol.14, 2023 (SCI-Expanded)
- XV. **A Pan-Cancer Atlas of Differentially Interacting Hallmarks of Cancer Proteins**
Kori M., Ozdemir G. E., ARĀA K. Y., Sinha R.
JOURNAL OF PERSONALIZED MEDICINE, vol.12, no.11, 2022 (SCI-Expanded)
- XVI. **Human oncogenic viruses: an overview of protein biomarkers in viral cancers and their potential use in clinics**
Kori M., ARĀA K. Y.
EXPERT REVIEW OF ANTICANCER THERAPY, vol.22, no.11, pp.1211-1224, 2022 (SCI-Expanded)
- XVII. **Integrative Analysis of Motor Neuron and Microglial Transcriptomes from SOD1(G93A) Mice Models Uncover Potential Drug Treatments for ALS**
KUBAT ÖKTEM E., Aydin B., Yazar M., ARĀA K. Y.
JOURNAL OF MOLECULAR NEUROSCIENCE, vol.72, no.11, pp.2360-2376, 2022 (SCI-Expanded)
- XVIII. **Precision Oncology: An Ensembled Machine Learning Approach to Identify a Candidate mRNA Panel for Stratification of Patients with Breast Cancer**
Kurt F., AĀAOĀLU M., ARĀA K. Y.
OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.26, pp.504-511, 2022 (SCI-Expanded)
- XIX. **Acute Myeloid Leukemia: New Multiomics Molecular Signatures and Implications for Systems Medicine Diagnostics and Therapeutics Innovation**
Kelesoglu N., Kori M., TURANLI B., ARĀA K. Y., Yilmaz B., Duru O. A.
OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.26, no.7, pp.392-403, 2022 (SCI-Expanded)
- XX. **Driving Precision Oncology to Clinical Practice: The Road Ahead from Biomarker Validation to Clinical Decision Systems**
Yilmaz B., ARĀA K. Y.
OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.26, no.6, pp.358-359, 2022 (SCI-Expanded)
- XXI. **Repositioning of Anti-Inflammatory Drugs for the Treatment of Cervical Cancer Sub-Types**
Kori M., ARĀA K. Y., Mardinoglu A., TURANLI B.
FRONTIERS IN PHARMACOLOGY, vol.13, 2022 (SCI-Expanded)
- XXII. **Multiomics Data Integration Identifies New Molecular Signatures for Abdominal Aortic Aneurysm and Aortic Occlusive Disease: Implications for Early Diagnosis, Prognosis, and Therapeutic Targets**
Kori M., Cig D., Arga K. Y., Kasavi C.
OMICS A JOURNAL OF INTEGRATIVE BIOLOGY, vol.26, no.5, pp.1-15, 2022 (SCI-Expanded)
- XXIII. **Precision Diagnosis of Maturity-Onset Diabetes of the Young with Next-Generation Sequencing: Findings from the MODY-IST Study in Adult Patients**
Aydogan H. Y., Gul N., Demirci D. K., Mutlu U., Gulfidan G., ARĀA K. Y., ÖZDER A., ĀAMLI A. A., Tutuncu Y., Ozturk O., et al.
OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.26, pp.218-235, 2022 (SCI-Expanded)
- XXIV. **Past, Present, and Future of Therapies for Pituitary Neuroendocrine Tumors: Need for Omics and**

Drug Repositioning Guidance

Aydin B., Yildirim E., ERDOĞAN O., ARĀA 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)

- XXV. **MicroRNA-Mediated Drug Repurposing Unveiled Potential Candidate Drugs for Prolactinoma Treatment**
Aydin B., Arslan S., BAYRAKLI F., YILMAZ B., ARĀA K. Y.
NEUROENDOCRINOLOGY, vol.112, pp.161-173, 2022 (SCI-Expanded)
- XXVI. **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., ARĀA K. Y., TURANLI B.
ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS, vol.715, 2022 (SCI-Expanded)
- XXVII. **Decreased serum levels of glycerol-3-phosphate dehydrogenase 1 and monoacylglycerol lipase act as diagnostic biomarkers for breast cancer**
KARAOŞMANOĖLU YÖNETEN K., KASAP M., ARĀA K. Y., AKPINAR G., UTKAN N. Z.
CANCER BIOMARKERS, vol.34, no.1, pp.67-76, 2022 (SCI-Expanded)
- XXVIII. **Artificial Intelligence as Accelerator for Genomic Medicine and Planetary Health**
Gulfidan G., Beklen H., ARĀA K. Y.
OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.25, pp.745-749, 2021 (SCI-Expanded)
- XXIX. **Lower COVID-19 Mortality in Patients with Type 2 Diabetes Mellitus Taking Dipeptidyl Peptidase-4 Inhibitors: Results from a Turkish Nationwide Study**
Emral R., Haymana C., Demirci I., Tasci I., Sahin M., Cakal E., Ata N., ÜNLÜTÜRK U., DEMİR T., Ertugrul D., et al.
DIABETES THERAPY, vol.12, no.11, pp.2857-2870, 2021 (SCI-Expanded)
- XXX. **Overview of omics biomarkers in pituitary neuroendocrine tumors to design future diagnosis and treatment strategies**
Aydin B., Caliskan A., ARĀA K. Y.
EPMA JOURNAL, vol.12, no.3, pp.383-401, 2021 (SCI-Expanded)
- XXXI. **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., ARĀA K. Y., Sinha R.
OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.25, pp.495-512, 2021 (SCI-Expanded)
- XXXII. **Monogenic Childhood Diabetes: Dissecting Clinical Heterogeneity by Next-Generation Sequencing in Maturity-Onset Diabetes of the Young**
Demirci D. K., Darendeliler F., Poyrazoglu S., Al A. D. K., GÜL N., Tutuncu Y., Gulfidan G., ARĀA K. Y., Cacina C., Ozturk O., et al.
OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.25, pp.431-449, 2021 (SCI-Expanded)
- XXXIII. **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)
- XXXIV. **Thanatechnology and the Living Dead: New Concepts in Digital Transformation and Human-Computer Interaction**
Ozdemir V., Springer S., YILDIRIM A., Bicer S., Kendirci A., Sardas S., Kilic H., Hekim N., Kunej T., ARĀA K. Y., et al.
OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.25, pp.401-407, 2021 (SCI-Expanded)
- XXXV. **Cancer Stem Cell Transcriptome Profiling Reveals Seed Genes of Tumorigenesis: New Avenues for Cancer Precision Medicine**
Comertpay B., Gulfidan G., ARĀA K. Y., Gov E.
OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.25, pp.372-388, 2021 (SCI-Expanded)
- XXXVI. **Unexpectedly lower mortality rates in COVID-19 patients with and without type 2 diabetes in Istanbul**
Satman I., Demirci I., Haymana C., Tasci I., Salman S., Ata N., DAĞDELEN S., ŞAHİN İ., Emral R., Cakal E., et al.
DIABETES RESEARCH AND CLINICAL PRACTICE, vol.174, 2021 (SCI-Expanded)
- XXXVII. **Recent Developments in Cancer Systems Biology: Lessons Learned and Future Directions**

- ARĀA K. Y., Sinha R.
 JOURNAL OF PERSONALIZED MEDICINE, vol.11, no.4, 2021 (SCI-Expanded)
- XXXVIII. **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)
- XXXIX. **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)
- XL. **ETS-Domain Transcription Factor Elk-1 Regulates Stemness Genes in Brain Tumors and CD133+ Brain Tumor-Initiating Cells**
 SÖĀÜT M. S., Venugopal C., KANDEMİR B., Dag U., Mahendram S., Singh S., Gulfidan G., ARĀA K. Y., YILMAZ B., KURNAZ I.
 JOURNAL OF PERSONALIZED MEDICINE, vol.11, no.2, 2021 (SCI-Expanded)
- XLI. **Differential Interactome Proposes Subtype-Specific Biomarkers and Potential Therapeutics in Renal Cell Carcinomas**
 Caliskan A., Gulfidan G., Sinha R., ARĀA K. Y.
 JOURNAL OF PERSONALIZED MEDICINE, vol.11, no.2, 2021 (SCI-Expanded)
- XLII. **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)
- XLIII. **Integrative transcriptomics analysis of lung epithelial cells and identification of repurposable drug candidates for COVID-19**
 Islam T., Rahman M. R., Aydin B., Beklen H., ARĀA K. Y., Shahjaman M.
 EUROPEAN JOURNAL OF PHARMACOLOGY, vol.887, 2020 (SCI-Expanded)
- XLIV. **Transcriptomic profile of Pea3 family members reveal regulatory codes for axon outgrowth and neuronal connection specificity**
 KANDEMİR B., Gulfidan G., ARĀA K. Y., YILMAZ B., KURNAZ I.
 SCIENTIFIC REPORTS, vol.10, no.1, 2020 (SCI-Expanded)
- XLV. **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)
- XLVI. **Pathways involved in viral oncogenesis: New perspectives from virus-host protein interactomics**
 Kori M., ARĀA K. Y.
 BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR BASIS OF DISEASE, vol.1866, no.10, 2020 (SCI-Expanded)
- XLVII. **COVID-19 and the Futures of Machine Learning**
 ARĀA K. Y.
 OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.24, no.9, pp.512-514, 2020 (SCI-Expanded)
- XLVIII. **Novel molecular signatures and potential therapeutics in renal cell carcinomas: Insights from a comparative analysis of subtypes**
 Caliskan A., Andac A. C., ARĀA K. Y.
 GENOMICS, vol.112, no.5, pp.3166-3178, 2020 (SCI-Expanded)
- XLIX. **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)
- L. **New Machine Learning Applications to Accelerate Personalized Medicine in Breast Cancer: Rise of the Support Vector Machines**
 Ozer M. E., Sarica P., ARĀA K. Y.
 OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.24, no.5, pp.241-246, 2020 (SCI-Expanded)
- LI. **Higher proteotoxic stress rather than mitochondrial damage is involved in higher neurotoxicity of**

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)

- LXV. **Potential biomarkers and therapeutic targets in cervical cancer: Insights from the meta-analysis of transcriptomics data within network biomedicine perspective**
Kori M., ARĀA K. Y.
PLOS ONE, vol.13, no.7, 2018 (SCI-Expanded)
- LXVI. **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)
- LXVII. **Drug Repositioning for Effective Prostate Cancer Treatment**
TURANLI B., Grotli M., BOREN J., NIELSEN J., UHLEN M., ARĀA K. Y., MARDİNOĖLU A.
FRONTIERS IN PHYSIOLOGY, vol.9, 2018 (SCI-Expanded)
- LXVIII. **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., KARADAĖ A. S.
GENE, vol.647, pp.157-163, 2018 (SCI-Expanded)
- LXIX. **The Genome-Based Metabolic Systems Engineering to Boost Levan Production in a Halophilic Bacterial Model**
Aydin B., Ozer T., Oner E. T., ARĀA K. Y.
OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.22, no.3, pp.198-209, 2018 (SCI-Expanded)
- LXX. **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)
- LXXI. **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)
- LXXII. **Genome reprogramming in *Saccharomyces cerevisiae* upon nonylphenol exposure**
Bereketoglu C., ARĀA K. Y., Eraslan S., MERTOĖLU B.
PHYSIOLOGICAL GENOMICS, vol.49, no.10, pp.549-566, 2017 (SCI-Expanded)
- LXXIII. **Multiomics Analysis of Tumor Microenvironment Reveals Gata2 and miRNA-124-3p as Potential Novel Biomarkers in Ovarian Cancer**
Gov E., Kori M., ARĀA K. Y.
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- LXXIV. **Transcriptomic analysis displays the effect of (-)-roemerine on the motility and nutrient uptake in *Escherichia coli***
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GÖV E., AYYILDIZ D., ARĞA K. Y.
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- XL. **Differential coexpression network in ovarian cancer Prognostic and therapeutic targets**
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6. Multidisipliner Kanser Araştırma Kongresi, 27 - 30 October 2016
- XLI. **Computational anti cancer agent repurposing for pancreatic cancer**
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- XLII. **Drug repositioning strategies applied on a group of cancer**
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- XLIII. **Roemerine limits carbohydrate uptake which leads to alternative nutrients such as acetyl coA sources**
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- XLIV. **(-)-Roemerine limits carbohydrate uptake which leads to alternative nutrients as acetyl-CoA sources**
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- XLV. **A glance at smoking effect on preeclamptic placenta with transcriptional regulation approach**
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- XLVI. **Resemblance of human cancer stem cells based on genome-wide expression profiles**
Gov E., Kaya N., Arga K. Y.

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- XLVIII. Investigating the toxic effects of nonylphenol on *Saccharomyces cerevisiae***
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- LV. Integrant roles of microRNAs and transcription factors in ovarian cancer transcriptional regulatory network**
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- LVII. 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
- LVIII. 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
- LIX. Transcriptomics Reveals Association Between Psoriasis and Rheumatoid Arthritis**
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- LX. Metabolic Variability Analysis Through Human Metabolic Model**
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- LXI. Genomic and Proteomic Candidate Biomarker Investigation for Personalized Medicine**
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- LXIII. Deciphering triple negative breast cancer driven pathways via multi-omic networks**
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- LXVIII. Biosensor production for foodborn pathogen salmonella enteritidis**
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- LXX. Structural robustness of protein interaction networks are due to modularity**
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Arğa K. Y., Sinha R., Project Supported by Public Organizations in Other Countries, Integration of metabolomics and proteomics for breast cancer diagnosis, 2018 - 2021

Arğa K. Y., Güre A. O., TÜBİTAK International Bilateral Joint Cooperation Program Project, Üçlü Negatif Meme Kanseri (TNMK ya da Diğer Bir Adıyla Bazal Tip) İçin Prognoz ve Kemosenitivite Biyobelirteçlerin Belirlenmesi, in Vitro ve in Vivo Deneyle Doğrulanması, 2017 - 2021

Arğa K. Y., Turanlı B., TUBITAK Project, Rahim ağzı kanserinin tedavisi için konakçı-patojen protein-protein etkileşimleri yoluyla ilaç repozisyonu, 2019 - 2020

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Arğa K. Y., Project Supported by Higher Education Institutions, Aday biyobelirteçleri ve potansiyel terapötikleri belirlemek için kolorektal adenokarsinomda diferansiyel interaktom analizi, 2019 - 2020

Aręa K. Y., Kısaayak ollak F., Erzik C., Demir ., Turanlı B., TUBİTAK Project, Sistem Biyolojisi Bakıřı İle Farklı Seviyelerde Biyolojik Molekller zerinden Prostat Kanseri İin İla Repozisyonu Uygulamaları, 2017 - 2019

Aręa K. Y., Project Supported by Higher Education Institutions, Kanserde protein etkileřimlerinin dinamik haritalaması, 2018 - 2018

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Aręa K. Y., Akyay Z., Project Supported by Higher Education Institutions, Agresif ve agresif olmayan papiller tiroid karsinomunda miRNA ve mRNA ekspresyon profillerinin ve gen miRNA iliřkisinin belirlenip biyolojik aęlarla iliřkilendirilmesi, 2015 - 2016

Aręa K. Y., Project Supported by Higher Education Institutions, Sistem biyolojisi yaklařımı ile Psoriasis Sedef hastalıęı ile ilintili biyobelirte tayini, 2014 - 2016

Aręa K. Y., Mertoęlu B., Project Supported by Higher Education Institutions, Endokrin bozucu bileřiklerin Saccharomyces cerevisiae genomunun transkripsiyon profilleri zerindeki etkilerinin molekler metotlarla arařtırılması, 2013 - 2016

Aręa K. Y., Kazan D., Project Supported by Higher Education Institutions, Biyoproses otomatik kontrol arařtırma geliřtirme ve eęitim kompleksi, 2013 - 2016

Aręa K. Y., Toksoy ner E., TBİTAK International Bilateral Joint Cooperation Program Project, Yeni nesil biyoyakt teknolojileri iin ekstremofiller, 2012 - 2016

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Aręa K. Y., Toksoy ner E., TUBİTAK Project, Levan Bazlı Polimerlerin Biyolojik Aktivitelerinin In Vitro ve In Silico İncelenmesi, 2012 - 2014

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Metrics

Publication: 203

Citation (WoS): 1833

Citation (Scopus): 2496

H-Index (WoS): 23

H-Index (Scopus): 26

Non Academic Experience

TUBITAK, ARDEB, -
Other Public Institution, KOSGEB, -
TÜRKİYE SAĞLIK ENSTİTÜLERİ BAŞKANLIĞI