

Prof. KAZIM YALÇIN ARĞA

Personal Information

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International Researcher IDs

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

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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 Arğa 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 Arğa has also mentored numerous students who have gone on to pursue productive careers as independent researchers in academia and industry. Prof. Arğa 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 Arğa 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, Biyomühendislik Bölümü, 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

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

Courses

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
Scientific Programming, Undergraduate, 2017 - 2018

Endüstriyel Hijyen ve Enstrümantasyon, Doctorate, 2017 - 2018

Advanced Bioinformatics, Postgraduate, 2017 - 2018

Advising Theses

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. , Differential co-expression analysis of human cancers to reveal systems biomarkers for diagnostic and therapeutic trials, Postgraduate, M.Nur(Student), 2019

ARĞA K. Y. , Dynamic mapping of protein interactions in cancer, Postgraduate, G.GÜLFİDAN(Student), 2018

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. , 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. , 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. , Computational prediction of genomic and proteomic biomarker candidates for reproductive system associated women diseases, Postgraduate, M.KORİ(Student), 2015

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. , 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. , Purification and characterization of levansucrase by Halomonas smyrnensis AAD6T, Postgraduate, B.ÇALIMLIOĞLU(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

Arğa K. Y. , Biyoproses Kontrol Laboratuvarı, January 2015

Designed Programs

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

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

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Precision Oncology: An Ensembled Machine Learning Approach to Identify a Candidate mRNA Panel for Stratification of Patients with Breast Cancer**
Kurt F, AĞAOĞLU M., ARĞA K. Y.
OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, 2022 (Peer-Reviewed Journal)
- II. **Acute Myeloid Leukemia: New Multiomics Molecular Signatures and Implications for Systems Medicine Diagnostics and Therapeutics Innovation**
Kelesoglu N., Kori M., TURANLI B., ARĞA K. Y., Yilmaz B. K., Duru O. A.
OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.26, pp.392-403, 2022 (Peer-Reviewed Journal)
- III. **Repositioning of Anti-Inflammatory Drugs for the Treatment of Cervical Cancer Sub-Types**
Kori M., ARĞA K. Y., Mardinoglu A., TURANLI B.
FRONTIERS IN PHARMACOLOGY, vol.13, 2022 (Peer-Reviewed Journal)
- IV. **Driving Precision Oncology to Clinical Practice: The Road Ahead from Biomarker Validation to Clinical Decision Systems**
Yilmaz B. K., ARĞA K. Y.
OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.26, pp.358-359, 2022 (Peer-Reviewed Journal)
- V. **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 (Peer-Reviewed Journal)
- VI. **Precision Diagnosis of Maturity-Onset Diabetes of the Young with Next-Generation Sequencing: Findings from the MODY-IST Study in Adult Patients**
Aydoğan H. Y., Gul N., Demirci D. K., Mutlu U., Gulfidan G., ARĞA K. Y., ÖZDER A., ÇAMLI A. A., Tutuncu Y., Ozturk O., et al.
OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.26, pp.218-235, 2022 (Peer-Reviewed Journal)
- VII. **Past, Present, and Future of Therapies for Pituitary Neuroendocrine Tumors: Need for Omics and Drug Repositioning Guidance**
Aydin B., Yildirim E., ERDOĞAN O., ARĞA K. Y., Yilmaz B., BOZKURT S., BAYRAKLI F., TURANLI B.
OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.26, no.3, pp.115-129, 2022 (Peer-Reviewed Journal)
- VIII. **MicroRNA-Mediated Drug Repurposing Unveiled Potential Candidate Drugs for Prolactinoma Treatment**
Aydin B., Arslan S., BAYRAKLI F., YILMAZ B., ARĞA K. Y.
NEUROENDOCRINOLOGY, vol.112, pp.161-173, 2022 (Peer-Reviewed Journal)
- IX. **Decreased serum levels of glycerol-3-phosphate dehydrogenase 1 and monoacylglycerol lipase act as diagnostic biomarkers for breast cancer**
KARAOŞMANOĞLU YÖNETEN K., KASAP M., ARĞA K. Y., AKPINAR G., UTKAN N. Z.
CANCER BIOMARKERS, vol.34, no.1, pp.67-76, 2022 (Peer-Reviewed Journal)
- X. **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., ARĞA K. Y., TURANLI B.
ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS, vol.715, 2022 (Peer-Reviewed Journal)
- XI. **Artificial Intelligence as Accelerator for Genomic Medicine and Planetary Health**
Gulfidan G., Beklen H., ARĞA K. Y.
OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.25, pp.745-749, 2021 (Peer-Reviewed Journal)
- XII. **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., ARĞA K. Y., Sinha R.
OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.25, pp.495-512, 2021 (Peer-Reviewed Journal)
- XIII. **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, 2021 (Peer-Reviewed Journal)

- XIV. **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 (Peer-Reviewed Journal)
- XV. **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 (Peer-Reviewed Journal)
- XVI. **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 (Peer-Reviewed Journal)
- XVII. **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 (Peer-Reviewed Journal)
- XVIII. **Overview of omics biomarkers in pituitary neuroendocrine tumors to design future diagnosis and treatment strategies**
Aydin B., Caliskan A., ARĀA K. Y.
EPMA JOURNAL, 2021 (Peer-Reviewed Journal)
- XIX. **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 (Peer-Reviewed Journal)
- XX. **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 (Peer-Reviewed Journal)
- XXI. **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 (Peer-Reviewed Journal)
- XXII. **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 (Peer-Reviewed Journal)
- XXIII. **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 (Peer-Reviewed Journal)
- XXIV. **ETS-Domain Transcription Factor Elk-1 Regulates Stemness Genes in Brain Tumors and CD133+ Brain Tumor-Initiating Cells**
SÖĞÜT 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 (Peer-Reviewed Journal)
- XXV. **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 (Peer-Reviewed Journal)
- XXVI. **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 (Peer-Reviewed Journal)

- XXVII. **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 (Peer-Reviewed Journal)
- XXVIII. **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 (Peer-Reviewed Journal)
- XXIX. **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 (Peer-Reviewed Journal)
- XXX. **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 (Peer-Reviewed Journal)
- XXXI. **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 (Peer-Reviewed Journal)
- XXXII. **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 (Peer-Reviewed Journal)
- XXXIII. **Higher proteotoxic stress rather than mitochondrial damage is involved in higher neurotoxicity of bortezomib compared to carfilzomib**
Jannuzzi A., Arslan S., Yilmaz A. M. , Sari G., Beklen H., Méndez L., Fedorova M., Arga K. Y. , Karademir Y., Alpertunga B.
REDOX BIOLOGY, vol.32, 2020 (Peer-Reviewed Journal)
- XXXIV. **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 (Peer-Reviewed Journal)
- XXXV. **Mapping the Molecular Basis and Markers of Papillary Thyroid Carcinoma Progression and Metastasis Using Global Transcriptome and microRNA Profiling.**
Akyay O., Gov E., Kenar H., Arga K. Y. , Selek A., Tarkun İ., Canturk Z., Cetinarslan B., Gurbuz Y., Sahin B.
Omics : a journal of integrative biology, vol.24, pp.148-159, 2020 (Peer-Reviewed Journal)
- XXXVI. **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 (Peer-Reviewed Journal)
- XXXVII. **Digging Deeper into Precision/Personalized Medicine: Cracking the Sugar Code, the Third Alphabet of Life, and Sociomateriality of the Cell.**
Özdemir V., Arga K. Y. , Aziz R., Bayram M., Conley S., Dandara C., Endrenyi L., Fisher E., Garvey C., Hekim N., et al.
Omics : a journal of integrative biology, vol.24, pp.62-80, 2020 (Peer-Reviewed Journal)
- XXXVIII. **Omics-Driven Biomarkers of Psoriasis: Recent Insights, Current Challenges, and Future Prospects**
Aydin B., ARĀA K. Y. , KARADAĀ A. S.
CLINICAL COSMETIC AND INVESTIGATIONAL DERMATOLOGY, vol.13, pp.611-625, 2020 (Peer-Reviewed Journal)
- XXXIX. **Interview with Prof. K. YalĀın Arga: A Pioneer of Multi-Omics Science and Health Care Innovation.**
Arga K. Y.
Omics : a journal of integrative biology, vol.23, pp.460-462, 2019 (Peer-Reviewed Journal)
- XL. **Cancer Drug Repositioning by Comparison of Gene Expression in Humans and Axolotl (<i>Ambystoma mexicanum</i>) During Wound Healing.**

Öktem E., Yazar M., Gulfidan G., Arga K. Y.

Omics : a journal of integrative biology, vol.23, pp.389-405, 2019 (Peer-Reviewed Journal)

- XLII. **Co-expression Network Analysis Elucidated a Core Module in Association With Prognosis of Non-functioning Non-invasive Human Pituitary Adenoma.**
Aydin B., Arga K. Y.
Frontiers in endocrinology, vol.10, pp.361, 2019 (Peer-Reviewed Journal)
- XLIII. **Novel Genomic Biomarker Candidates for Cervical Cancer As Identified by Differential Co-Expression Network Analysis.**
Kori M., Gov E., Arga K. Y.
Omics : a journal of integrative biology, vol.23, pp.261-273, 2019 (Peer-Reviewed Journal)
- XLIV. **Identification of Novel Components of Target-of-Rapamycin Signaling Pathway by Network-Based Multi-Omics Integrative Analysis**
Eke E. D. , ARĀA K. Y. , Dikicioglu D., Eraslan S., Erkol E., ĀELİK FUSS A., KIRDAR B., Di Camillo B.
OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.23, no.5, pp.274-284, 2019 (Peer-Reviewed Journal)
- XLV. **Multi-Omic Data Interpretation to Repurpose Subtype Specific Drug Candidates for Breast Cancer**
Turanli B., Karagoz K., Bidkhorı G., Sinha R., Gatzı M., Uhlen M., Mardinoglu A., Arga K. Y.
FRONTIERS IN GENETICS, vol.10, 2019 (Peer-Reviewed Journal)
- XLVI. **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 (Peer-Reviewed Journal)
- XLVII. **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 (Peer-Reviewed Journal)
- XLVIII. **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 (Peer-Reviewed Journal)
- XLIX. **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 (Peer-Reviewed Journal)
- L. **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 (Peer-Reviewed Journal)
- L. **Drug Repositioning for Effective Prostate Cancer Treatment**
TURANLI B., Grotli M., BOREN J., NIELSEN J., UHLEN M., ARĀA K. Y. , MARDİNOĀLU A.
FRONTIERS IN PHYSIOLOGY, vol.9, 2018 (Peer-Reviewed Journal)
- LI. **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 (Peer-Reviewed Journal)
- LII. **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 (Peer-Reviewed Journal)
- LIII. **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 (Peer-Reviewed Journal)
- LIV. **Multimomics Analysis of Tumor Microenvironment Reveals Gata2 and miRNA-124-3p as Potential Novel Biomarkers in Ovarian Cancer**
Gov E., Kori M., ARĀA K. Y.
OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.21, no.10, pp.603-615, 2017 (Peer-Reviewed Journal)
- LV. **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 (Peer-Reviewed Journal)
- LVI. **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 (Peer-Reviewed Journal)
- LVII. **Transcriptomic analysis displays the effect of (-)-roemerine on the motility and nutrient uptake in Escherichia coli**
Ayyildiz D., ARĀA K. Y., Avci F. G., ALTINIŐIK KAYA F. E., Gurer C., Toplan G. G., KAZAN D., Wozny K., Bruegger B., MERTOĖLU B., et al.
CURRENT GENETICS, vol.63, no.4, pp.709-722, 2017 (Peer-Reviewed Journal)
- LVIII. **Differential co-expression analysis reveals a novel prognostic gene module in ovarian cancer**
Gov E., ARĀA K. Y.
SCIENTIFIC REPORTS, vol.7, 2017 (Peer-Reviewed Journal)
- LIX. **Hypothesis: Are There Molecular Signatures of Yoga Practice in Peripheral Blood Mononuclear Cells?**
Ayyildiz D., ARĀA K. Y.
OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.21, no.7, pp.426-428, 2017 (Peer-Reviewed Journal)
- LX. **Analysis of transcriptional profiles of Saccharomyces cerevisiae exposed to bisphenol A**
Bereketoglu C., ARĀA K. Y., Eraslan S., MERTOĖLU B.
CURRENT GENETICS, vol.63, no.2, pp.253-274, 2017 (Peer-Reviewed Journal)
- LXI. **Ovarian Cancer Differential Interactome and Network Entropy Analysis Reveal New Candidate Biomarkers**
Ayyildiz D., Gov E., Sinha R., ARĀA K. Y.
OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.21, no.5, pp.285-294, 2017 (Peer-Reviewed Journal)
- LXII. **Multimomics Approach to Novel Therapeutic Targets for Cancer and Aging-Related Diseases: Role of Sld7 in Yeast Aging Network**
Dayan I. E., ARĀA K. Y., Ulgen K. O.
OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.21, no.2, pp.100-113, 2017 (Peer-Reviewed Journal)
- LXIII. **RNA-based ovarian cancer research from 'a gene to systems biomedicine' perspective**
Gov E., Kori M., ARĀA K. Y.
SYSTEMS BIOLOGY IN REPRODUCTIVE MEDICINE, vol.63, no.4, pp.219-238, 2017 (Peer-Reviewed Journal)
- LXIV. **Interactive cooperation and hierarchical operation of microRNA and transcription factor crosstalk in human transcriptional regulatory network**
Gov E., ARĀA K. Y.
IET SYSTEMS BIOLOGY, vol.10, no.6, pp.219-228, 2016 (Peer-Reviewed Journal)
- LXV. **Metabolic Biomarkers and Neurodegeneration: A Pathway Enrichment Analysis of Alzheimer's Disease, Parkinson's Disease, and Amyotrophic Lateral Sclerosis**
Kori M., Aydin B., ŪNAL S., ARĀA K. Y., KAZAN D.
OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.20, no.11, pp.645-661, 2016 (Peer-Reviewed Journal)
- LXVI. **Integration of multiple biological features yields high confidence human protein interactome**
Karagoz K., Sevimoglu T., ARĀA K. Y.
JOURNAL OF THEORETICAL BIOLOGY, vol.403, pp.85-96, 2016 (Peer-Reviewed Journal)
- LXVII. **Molecular signatures of ovarian diseases: Insights from network medicine perspective**

- Kori M., Gov E., ARĀA K. Y.
SYSTEMS BIOLOGY IN REPRODUCTIVE MEDICINE, vol.62, no.4, pp.266-282, 2016 (Peer-Reviewed Journal)
- LXVIII. **Systems biology perspective on diabetic nephropathy may reveal molecular mechanism of diabetic retinopathy**
Calimlioglu B., Ozturk R., Arga K.
NEW BIOTECHNOLOGY, vol.33, 2016 (Peer-Reviewed Journal)
- LXIX. **Investigating the toxic effects of nonylphenol on *Saccharomyces cerevisiae***
Bereketoglu C., ARĀA K. Y., MERTOĀLU B.
NEW BIOTECHNOLOGY, vol.33, 2016 (Peer-Reviewed Journal)
- LXX. **"Omics" of Selenium Biology: A Prospective Study of Plasma Proteome Network Before and After Selenized-Yeast Supplementation in Healthy Men**
Sinha I., Karagoz K., Fogle R. L., Hollenbeak C. S., Zea A. H., ARĀA K. Y., Stanley A. E., Hawkes W. C., Sinha R.
OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.20, no.4, pp.202-213, 2016 (Peer-Reviewed Journal)
- LXXI. **Cardiomyogenic differentiation potential of human lipoaspirate-derived stem cells on hyaluronic acid/gelatin plasma gels**
GÖV E., KENAR H., HALBUTOĀULLARI Z. S., ARĀA K. Y., KARAÖZ E.
TURKISH JOURNAL OF BIOLOGY, vol.40, no.2, pp.369-379, 2016 (Peer-Reviewed Journal)
- LXXII. **Proteomic and Metabolic Signatures of Esophageal Squamous Cell Carcinoma**
KARAGÖZ K., LEHMAN H. L., STAIRS D. B., SĪNHA R., ARĀA K. Y.
CURRENT CANCER DRUG TARGETS, vol.16, no.8, pp.721-736, 2016 (Peer-Reviewed Journal)
- LXXIII. **Computational Systems Biology of Psoriasis: Are We Ready for the Age of Omics and Systems Biomarkers?**
Sevimoglu T., ARĀA K. Y.
OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.19, no.11, pp.669-687, 2015 (Peer-Reviewed Journal)
- LXXIV. **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 (Peer-Reviewed Journal)
- LXXV. **Genomic analysis reveals the biotechnological and industrial potential of levan producing halophilic extremophile, *Halomonas smyrnensis* AAD6T**
Diken E., Ozer T., Arikan M., Emrence Z., Oner E. T., ÜSTEK D., ARĀA K. Y.
SPRINGERPLUS, vol.4, 2015 (Peer-Reviewed Journal)
- LXXVI. **Effective stimulating factors for microbial levan production by *Halomonas smyrnensis* AAD6(T)**
Sarilmiser H. K., Ates O., Ozdemir G., ARĀA K. Y., Oner E. T.
JOURNAL OF BIOSCIENCE AND BIOENGINEERING, vol.119, no.4, pp.455-463, 2015 (Peer-Reviewed Journal)
- LXXVII. **Genomic analysis of *Brevibacillus thermoruber* 423 reveals its biotechnological and industrial potential**
Yildiz S. Y., Radchenkova N., ARĀA K. Y., Kambourova M., Oner E. T.
APPLIED MICROBIOLOGY AND BIOTECHNOLOGY, vol.99, no.5, pp.2277-2289, 2015 (Peer-Reviewed Journal)
- LXXVIII. **Triple Negative Breast Cancer: A Multi-Omics Network Discovery Strategy for Candidate Targets and Driving Pathways**
Karagoz K., Sinha R., ARĀA K. Y.
OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.19, no.2, pp.115-130, 2015 (Peer-Reviewed Journal)
- LXXIX. **GENETIC MUTATIONS ARE CHARACTERIZED BY INCREASE IN ENTROPY AT THE TRANSCRIPTIONAL LEVEL**
Gov E., ARĀA K. Y.
JOURNAL OF BIOLOGICAL SYSTEMS, vol.22, no.3, 2014 (Peer-Reviewed Journal)
- LXXX. **A system based network approach to ethanol tolerance in *Saccharomyces cerevisiae***
Kasavi C., Eraslan S., ARĀA K. Y., Oner E. T., KIRDAR B.
BMC SYSTEMS BIOLOGY, vol.8, 2014 (Peer-Reviewed Journal)
- LXXXI. **Computational prediction of associations between psoriasis, rheumatoid arthritis and osteoarthritis**

- Sevimoglu T, ARĀA K. Y.
NEW BIOTECHNOLOGY, vol.31, 2014 (Peer-Reviewed Journal)
- LXXXII. **Systems biology solutions to challenges in marine biotechnology**
Gov E., ARĀA K. Y.
FRONTIERS IN MARINE SCIENCE, vol.1, 2014 (Peer-Reviewed Journal)
- LXXXIII. **The Stimulatory Effect of Mannitol on Levan Biosynthesis: Lessons from Metabolic Systems Analysis of Halomonas smyrnensis AAD6(T)**
Ates O., ARĀA K. Y., Oner E. T.
BIOTECHNOLOGY PROGRESS, vol.29, no.6, pp.1386-1397, 2013 (Peer-Reviewed Journal)
- LXXXIV. **Assessment of high-confidence protein-protein interactome in yeast**
Karagoz K., ARĀA K. Y.
COMPUTATIONAL BIOLOGY AND CHEMISTRY, vol.45, pp.1-8, 2013 (Peer-Reviewed Journal)
- LXXXV. **Draft Genome Sequence of Halomonas smyrnensis AAD6(T)**
Sogutcu E., Emrence Z., Arikian M., Cakiris A., Abaci N., Oner E. T., Ustek D., ARĀA K. Y.
JOURNAL OF BACTERIOLOGY, vol.194, no.20, pp.5690-5691, 2012 (Peer-Reviewed Journal)
- LXXXVI. **Identification of candidate genes related to ethanol tolerance in Saccharomyces cerevisiae via a systems based modular approach**
Kasavi C., ARĀA K. Y., Oner E. T., KIRDAR B.
NEW BIOTECHNOLOGY, vol.29, 2012 (Peer-Reviewed Journal)
- LXXXVII. **Combining various heterogeneous biological features to obtain a highly reliable almost complete protein interaction network of yeast**
Karagoz K., ARĀA K. Y.
NEW BIOTECHNOLOGY, vol.29, 2012 (Peer-Reviewed Journal)
- LXXXVIII. **Identification of Exopolysaccharide Biosynthesis Mechanism of Halomonas smyrnensis AAD6(T)**
Sogutcu E., Oner E. T., ARĀA K. Y.
NEW BIOTECHNOLOGY, vol.29, 2012 (Peer-Reviewed Journal)
- LXXXIX. **Genome-scale reconstruction of metabolic network for a halophilic extremophile, Chromohalobacter salexigens DSM 3043**
ATEŞ Ö., Oner E., ARĀA K. Y.
BMC SYSTEMS BIOLOGY, vol.5, 2011 (Peer-Reviewed Journal)
- XC. **A cross-sectional study of biotechnology awareness and teaching in European high schools**
Vanderschuren H., Heinzmann D., Faso C., Stupak M., ARĀA K. Y., Hoerzer H., Laizet Y., Leduchowska P., Silva N., Simkova K.
NEW BIOTECHNOLOGY, vol.27, no.6, pp.822-828, 2010 (Peer-Reviewed Journal)
- XC. **Genome-scale reconstruction of metabolic network for a halophilic extremophile, Chromohalobacter salexigens**
Ates O., Oner E. T., Arga K. Y.
NEW BIOTECHNOLOGY, vol.25, 2009 (Peer-Reviewed Journal)
- XCII. **Modeling of batch fermentation kinetics for levan production by Halomonas spp.**
Kazak H., Arga K. Y., Oner E. T.
NEW BIOTECHNOLOGY, vol.25, 2009 (Peer-Reviewed Journal)
- XCIII. **Drug targets for tumorigenesis: Insights from structural analysis of EGFR signaling network**
Tekir S. D., ARĀA K. Y., Uelgen K. O.
JOURNAL OF BIOMEDICAL INFORMATICS, vol.42, no.2, pp.228-236, 2009 (Peer-Reviewed Journal)
- XCIV. **A consensus yeast metabolic network reconstruction obtained from a community approach to systems biology**
Herrgård M. J., Swainston N., Dobson P., Dunn W. B., ARĀA K. Y., Arvas M., Bluethgen N., Borger S., Costenoble R., Heinemann M., et al.
NATURE BIOTECHNOLOGY, vol.26, no.10, pp.1155-1160, 2008 (Peer-Reviewed Journal)
- XC. **Understanding signaling in yeast: Insights from network analysis**
ARĀA K. Y., Oensan Z. I., Kirdar B., Uelgen K. O., Nielsen J.

- BIOTECHNOLOGY AND BIOENGINEERING, vol.97, no.5, pp.1246-1258, 2007 (Peer-Reviewed Journal)
- XCVI. **Flux analysis of recombinant *Saccharomyces cerevisiae* YPB-G utilizing starch for optimal ethanol production**
Cakir T., ARĀA K. Y. , Altintas M., Ulgen K.
PROCESS BIOCHEMISTRY, vol.39, no.12, pp.2097-2108, 2004 (Peer-Reviewed Journal)
- XCVII. **Transfer function approach in structured modeling of recombinant yeast utilizing starch**
ARĀA K. Y. , Cakir T., Pir P., Ozer N., Altintas M., Ulgen K.
PROCESS BIOCHEMISTRY, vol.39, no.10, pp.1237-1248, 2004 (Peer-Reviewed Journal)
- XCVIII. **Flux analysis of the recombinant *Saccharomyces cerevisiae* YPB G utilizing starch for optimum ethanol production**
ĀAKIR T., ARĀA K. Y. , ALTINTAŐ M., ŬLGEN Ő. K.
Process Biochemistry, pp.2097-2108, 2004 (Peer-Reviewed Journal)

Articles Published in Other Journals

- I. **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., ŐZBEK SARICA P., Karademir Yılmaz B., ARĀA K. Y.
Frontiers in Bioinformatics, vol.1, 2021 (Peer-Reviewed Journal)
- II. **Exopolysaccharides Synthesized by Thermophilic Microorganisms Isolated from Bulgarian Hot Springs**
KAMBOUROVA M., RADCHENKOVA N., NICOLAUS B., TOMMONARO G., POLI A., TOKSOY ŐNER E., YAŐAR YILDIZ S., ARĀA K. Y.
Acta Microbiologica Bulgarica, vol.34, pp.68-76, 2018 (Peer-Reviewed Journal)
- III. **Systems Biomedicine Acts as a Driver for the Evolution of Pharmacology**
TURANLI B., ARĀA K. Y.
Annals of Pharmacology and Pharmaceutics, vol.2, pp.1087-1088, 2017 (Peer-Reviewed Journal)
- IV. **The role of protein interaction networks in systems biomedicine**
SEVİMOĀLU T., ARĀA K. Y.
Computational and Structural Biotechnology Journal, vol.11, pp.22-27, 2014 (Peer-Reviewed Journal)
- V. **Comparison of Protein Expression Profiles of Novel *Halomonas smyrnensis* It i gt AAD6 It sup gt T It sup gt and It i gt *Halomonas salina* It i gt DSMZ 5928 It sup gt T It sup gt**
ARĀA K. Y. , KAZAN D., Dilgimen A., Erdmann V., WittmannLiebold B., Denizci A. A.
Natural Science, vol.6, pp.628-640, 2014 (Peer-Reviewed Journal)
- VI. **Draft Genome Sequence of Exopolysaccharide-Producing Thermophilic Bacterium *Brevibacillus thermoruber* Strain 423**
Yildiz S. Y. , Kambourova M., ARĀA K. Y. , TOKSOY ŐNER E.
MICROBIOLOGY RESOURCE ANNOUNCEMENTS, vol.1, no.5, 2013 (Peer-Reviewed Journal)
- VII. **DECIPHERING THE CROSS-TALK BETWEEN SPHINGOLIPID MECHANISM AND SIGNALING PATHWAYS IN BAKER'S YEAST**
Yucel E., Cankorur A., Dereli E., Alazi F., Aslandag I., Kavun B., Tekir S. D. , ARĀA K. Y. , Ulgen K. O.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.26, no.3, pp.162-174, 2008 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **A comprehensive overview of signaling pathways and their crosstalk in human cancers**
KORİ M., AYDIN B., ARĀA K. Y.
in: The Most Recent Studies in Science and Art, Arapgirlioglu H., Atik A., Elliott RL., Turgeon E, Editor, Gece Kitaplıđı,

pp.771-784, 2018

II. Overview and new perspectives on human transcriptional regulatory network

ÇALIŞKAN A., ARĞA K. Y.

in: The Most Recent Studies in Science and Art, Arapgirlioglu H., Atik A., Elliott RL., Turgeon E., Editor, Gece Kitaplığı, pp.733-740, 2018

III. Systems Biomedicine: From genome scale molecular networks to efficacious biomarkers and therapeutic targets

TURANLI B., GÜLFİDAN G., ARĞA K. Y.

in: Researches on Science and Art in 21st Century Turkey, Hasan Arapgirlioğlu Atilla Atık Robert L. Elliot Edward Turgeon, Editor, Gece Kitaplığı, Ankara, pp.2380-2388, 2017

IV. Proteins from Halophilic Bacteria: Purification and Their Applications

Turanlı B., Arğa K. Y.

in: Protein Purification - Principles and Trends, -, Editor, iConcept Press, Victoria-City, pp.1-23, 2016

Refereed Congress / Symposium Publications in Proceedings

I. Drug Repositioning in Colorectal Cancer by using Co-expression Networks of P-glycoprotein

BEKLEN H., GÜLFİDAN G., ARĞA K. Y. , NIELSEN J., TURANLI B.

13th The International Symposium on Health Informatics and Bioinformatics, Turkey, 22 - 23 October 2020

II. 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

III. Review of the Occupational Health and Safety in the Metal Sector in Turkey

ERGİN ESEN H., ARĞA K. Y.

8. International Vocational Schools Symposium, Sinop, Turkey, 11 - 13 June 2019

IV. Systems Biomarkers for Accurate Diagnosis, Prognosis and Therapy in Neurological Disorders

ARĞA K. Y.

FENS Regional Meeting, 10 - 13 July 2019

V. Understanding the metabolic reprogramming behind alkaliphilic adaptation in *Bacillus marmarensis* through a multi-omics data integration strategy

Altınışık F. E. , Arğa K. Y. , Kazan D., Sarıyar Akbulut B.

44th FEBS Congress: From molecules to living systems, Krakow, Poland, 6 - 11 July 2019

VI. 112 Ambulans ve Acil Komuta Merkezi Çalışanlarında İş Sağlığı ve Güvenliği

İŞİK BARSAN Ö., ARĞA K. Y.

3rd INTERNATIONAL OCCUPATIONAL AND ENVIRONMENTAL DISEASES CONGRESS, 3 - 07 March 2019

VII. Drug repositioning for the treatment of cervical cancer through host-pathogen protein-protein interactions

TURANLI B., Kori M., ARĞA K. Y.

6th International Bau Drug Design Congress, İstanbul, Turkey, 13 - 15 December 2018

VIII. Prostat kanserinin diferansiyel protein etkileşim ağı haritasındaki yeri.

Gulfidan G., TURANLI B., ARĞA K. Y.

19. Uluslararası Katılımlı Biyoteknoloji Kongresi, Eskişehir, Turkey, 30 November - 03 December 2018

IX. Systems Biomarkers in Cancer Diagnosis, Prognosis and Therapy

ARĞA K. Y.

2nd International Cell Death Research Congress, 1 - 04 November 2018

X. Prostate cancer-specific metabolic model as a tool for drug repositioning

TURANLI B., LOVRIC A., RUI B., Bidkhorı G., Zhang C., ARĞA K. Y. , Mardinoğlu A.

International Conference on Applied Mathematics, Modeling and Life Sciences, 3 - 05 October 2018

XI. Model driven discovery of drug targets for effective treatment of prostate cancer

TURANLI B., Benfeitas R., Lovric A., Bidkhorı G., Zhang C., ARĞA K. Y. , Mardinoğlu A.

Conference on Intelligent Systems for Molecular Biolog (ISMB2018), Chicago, United States Of America, 6 - 10 July 2018

- XII. **Model driven discovery of drug targets for effective treatment of prostate cancer (Poster)**
TURANLI B., Lovric A., Benfeitas R., Bidkhorı G., Zhang C., ARĖA K. Y. , Mardinoęlu A.
Conference on Intelligent Systems for Molecular Biolog (ISMB2018), Chicago, United States Of America, 6 - 10 July 2018
- XIII. **A metabolic network approach for the identification of drugs against prostate cancer**
TURANLI B., Al Shobky M., Benfeitas R., Bidkhorı G., Zhang C., ARĖA K. Y. , Mardinoęlu A.
Applied Bioinformatics in Life Sciences (2nd edition), Leuven, Belgium, 8 - 09 March 2018
- XIV. **Comparative Analysis Of Human Cancers Through Molecular Signatures**
TURANLI B., GÜLFİDAN G., ARĖA K. Y.
Applied Bioinformatics in Life Sciences, Leuven, Belgium, 8 March - 09 August 2018
- XV. **Kanserlerin iřaretçi moleküller yoluyla karřılařtırmalı analizi**
TURANLI B., Gulfidan G., ARĖA K. Y.
III.Yařam Bilimleri Kongresi, Kayseri, Turkey, 23 - 24 February 2018
- XVI. **Integrated analysis of transcriptome and protein interactome in colorectal cancer**
RAHMAN R., İSLAM T., SHAHJAMAN M., HAQUE M. A. , ARĖA K. Y. , MD NURUL HAQUE M.
International Conference on Biotechnology in Health and Agriculture 2017, Dhaka, Bangladesh, 29 - 30 December 2017
- XVII. **Protein-protein interaction analysis of differentially expressed genes in head and neck cancer**
İSLAM T., RAHMAN R., SHAHJAMAN M., HAQUE M. A. , GÖV E., ARĖA K. Y. , MOLLAH M. N. H.
International Conference on Biotechnology in Health and Agriculture 2017, Dhaka, Bangladesh, 29 - 30 December 2017
- XVIII. **Diferansiyel eř-anlatım analizi ile kansere yönelik teřhis ve tedavi amaçlı sistem biyobelirteçlerinin tayini**
ERDÖL M. N. , ARĖA K. Y.
19. Uluslararası Katılımlı Biyoteknoloji Kongresi, 1 - 03 December 2017
- XIX. **Biyoinformatik: Temel kavramlar ve klinik uygulamaları**
ARĖA K. Y.
Klinisyenler için Moleküler Biyoloji ve Genetik Temel Kavramlar, İstanbul, Turkey, 25 November 2017
- XX. **Transkriptom: Temel kavramlar ve klinik uygulamaları**
ARĖA K. Y.
Klinisyenler için Moleküler Biyoloji ve Genetik Temel Kavramlar Sempozyumu, İstanbul, Turkey, 25 November 2017
- XXI. **Comprehensive mapping of differential protein interactome in human cancers**
GÜLFİDAN G., TURANLI B., ARĖA K. Y.
Uluslararası Katılımlı XV. Tıbbi Biyoloji ve Genetik Kongresi, 26 - 29 October 2017
- XXII. **Transcriptome based systems biomarkers: a novel prognostic gene module in ovarian cancer**
ARĖA K. Y. , GÖV E.
Uluslararası Katılımlı XV. Tıbbi Biyoloji ve Genetik Kongresi, 26 - 29 October 2017
- XXIII. **Using Systems Based Models to Uncover the Disease Network of Psoriasis and its associations with other autoimmune-related diseases**
SEVİMOęLU T., ARĖA K. Y. , KARADAę A. S.
26th European Academy of Dermatology and Venereology Congress, 13 - 17 September 2017
- XXIV. **A novel in silico methodology for drug target identification based on differential interactome**
GÜLFİDAN G., TURANLI B., ARĖA K. Y.
Sanko Üniversitesi Tıpta İnovasyon Buluřmaları-3, 11 - 13 May 2017
- XXV. **Drug target identification through context-specific protein interaction networks with minimum uncertainty**
ÇALIřKAN A., AYYILDIZ D., GÖV E., ARĖA K. Y.
Sanko Üniversitesi Tıpta İnovasyon Buluřmaları-3, 11 - 13 May 2017

- XXVI. **Gene Expression Oriented Drug Repositioning Targets For Prostate Cancer**
TURANLI B., GÜLFİDAN G., ARĞA K. Y.
Sanko Üniversitesi Tıpta İnovasyon Buluşmaları-3, 11 - 13 May 2017
- XXVII. **Tissue specific reporter biomolecules in ovarian cancer: novel biomarkers and candidate therapeutic targets**
GÖV E., KORİ M., ARĞA K. Y.
Sanko Üniversitesi Tıpta İnovasyon Buluşmaları-3, 11 - 13 May 2017
- XXVIII. **Pea3 transkripsiyon faktörünün nöronlardaki fonksiyonuyla ilişkili yeni hedeflerin belirlenmesi**
KANDEMİR B., ARĞA K. Y. , YILMAZ B., KURNAZ I.
15. Ulusal sinirbilim kongresi- Uluslararası Katılımlı, 7 - 10 May 2017
- XXIX. **Genexpharma: Search Tool For Gene Expression Oriented Drug Repositioning**
TURANLI B., GÜLFİDAN G., ARĞA K. Y.
International DNA Day And Genome Congress, 24 - 28 April 2017
- XXX. **The High Potential of Network Entropy Based Differential Protein Interactome Analysis for Diagnostics Innovation in Oncology and Tumor Pathogenesis: A Case Study on Ovarian Cancer**
GÖV E., AYYILDIZ D., ARĞA K. Y.
International DNA Day And Genome Congress, 24 - 28 April 2017
- XXXI. **Differential coexpression network in ovarian cancer Prognostic and therapeutic targets**
GÖV E., ARĞA K. Y.
6. Multidisipliner Kanser Araştırma Kongresi, 27 - 30 October 2016
- XXXII. **Computational anti cancer agent repurposing for pancreatic cancer**
ÇALIMLIOĞLU B., GÜLFİDAN G., ÖZTÜRK R., NALBANT Z., ARĞA K. Y.
6. Multidisipliner Kanser Araştırma Kongresi, 27 - 30 October 2016
- XXXIII. **Drug repositioning strategies applied on a group of cancer**
ÇALIMLIOĞLU B., GÜLFİDAN G., ÖZTÜRK R., NALBANT Z., ARĞA K. Y.
41. FEBS CONGRESS, 3 - 08 September 2016
- XXXIV. **Roemerine limits carbohydrate uptake which leads to alternative nutrients such as acetyl coA sources**
AYYILDIZ D., AVCI F. G. , ARĞA K. Y. , SARIYAR AKBULUT B.
FEBS 2016 Congress, 3 - 08 September 2016
- XXXV. **A glance at smoking effect on preeclamptic placenta with transcriptional regulation approach**
Aydin B., Arga K. Y.
41st FEBS Congress on Molecular and Systems Biology for a Better Life, Kusadasi, Turkey, 3 - 08 September 2016, vol.283, pp.77
- XXXVI. **Resemblance of human cancer stem cells based on genome-wide expression profiles**
Gov E., Kaya N., Arga K. Y.
41st FEBS Congress on Molecular and Systems Biology for a Better Life, Kusadasi, Turkey, 3 - 08 September 2016, vol.283, pp.300
- XXXVII. **(-)-Roemerine limits carbohydrate uptake which leads to alternative nutrients as acetyl-CoA sources**
Ayyildiz D., Avci F. G. , Arga K. Y. , Akbulut B. S.
41st FEBS Congress on Molecular and Systems Biology for a Better Life, Kusadasi, Turkey, 3 - 08 September 2016, vol.283, pp.121-122
- XXXVIII. **Drug repositioning strategies applied on a group of cancer**
Calimlioglu B., Ozturk R., Nalbant Z., Gulfidan G., Arga K. Y.
41st FEBS Congress on Molecular and Systems Biology for a Better Life, Kusadasi, Turkey, 3 - 08 September 2016, vol.283, pp.140
- XXXIX. **Investigating the toxic effects of nonylphenol on Saccharomyces cerevisiae**
BEREKETOĞLU C., ARĞA K. Y. , MERTOĞLU B.
17th European Congress on Biotechnology, 3 - 06 July 2016
- XL. **Investigating the toxic effects of nonylphenol on Saccharomyces cerevisiae**
BEREKETOĞLU C., ARĞA K. Y. , MERTOĞLU B.

17th European Congress on Biotechnology, 3 - 06 July 2016

- XLII. **Investigating the toxic effects of nonylphenol on *Saccharomyces cerevisiae***
BEREKETOĞLU C., ARĞA K. Y. , MERTOĞLU B.
ECB2016 - 17. European Congress on Biotechnology, 3 - 06 July 2016
- XLIII. **Systems biology perspective on diabetic nephropathy may reveal molecular mechanism of diabetic retinopathy**
ÇALIMLIOĞLU B., ÖZTÜRK R., ARĞA K. Y.
ECB2016 17. European Congress on Biotechnology, 3 - 06 July 2016
- XLIV. **Transcriptional analysis of nonylphenol on *Saccharomyces cerevisiae* using DNA microarray**
BEREKETOĞLU C., ARĞA K. Y. , Eraslan S., MERTOĞLU B.
Gene transcription in yeast: From chromatin to RNA and back, 11 - 16 June 2016
- XLV. **Transcriptional analysis of nonylphenol on *Saccharomyces cerevisiae* using DNA microarray**
BEREKETOĞLU C., ARĞA K. Y. , ERASLAN S., MERTOĞLU B.
Gene transcription in yeast: From chromatin to RNA and back, 11 - 16 June 2016
- XLVI. **Roemerine limits carbohydrate uptake which leads to alternative nutrients as acetyl CoA sources**
AYYILDIZ D., AVCI F. G. , ARĞA K. Y. , SARIYAR AKBULUT B.
THE 41TH FEBS, 3 September - 08 June 2016
- XLVII. **Integrand roles of microRNAs and transcription factors in ovarian cancer transcriptional regulatory network**
GÖV E., ARĞA K. Y.
Innovation in Medicine Summit-2, 5 - 07 May 2016
- XLVIII. **The plant derived alkaloid roemerin is involved in the modulation of motility in *E coli***
AYYILDIZ D., AVCI F. G. , ARĞA K. Y. , BÜDEYRİ GÖKGÖZ N., SAYAR N. A. , KAZAN D., WOZNY K., BRÜGGER B., SARIYAR AKBULUT B.
BIOPHYSICAL SOCIETY 60TH ANNUAL MEETING, 27 February - 02 March 2016
- XLIX. **Sistem biyotıp arařtırmaları için bütünleřtirilmiř biyolojik ađlar yaklařımı**
ÇALIMLIOĞLU B., ARĞA K. Y.
4. ULUSAL MOLEKÜLER BİYOLOJİ VE BİYOTEKNOLOJİ KONGRESİ, Turkey, 21 - 24 August 2015
- L. **Multi Omic Stratejiler Yardımıyla Endometriyozis Hastalıđı için Biyobelirteç Tayini**
Kori M., ÇALIMLIOĞLU B., ARĞA K. Y.
4. Ulusal Moleküler Biyoloji ve Biyoteknoloji, Turkey, 21 - 24 August 2015
- LI. **Transcriptomics Reveals Association Between Psoriasis and Rheumatoid Arthritis**
SEVİMOĞLU T., ARĞA K. Y.
EuroMedLab Paris2015, Paris, France, 21 - 25 June 2015
- LII. **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
- LIII. **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
- LIV. **Deciphering triple negative breast cancer driven pathways via multi-omic networks**
Karagoz K., Sinha R., Arga K. Y.
FEBS EMBO 2014 Conference, Paris, France, 30 August - 04 September 2014, vol.281, pp.452
- LIV. **Uncovering the interconnectivity between infertility-associated woman diseases**
Kori M., Arga K. Y.
FEBS EMBO 2014 Conference, Paris, France, 30 August - 04 September 2014, vol.281, pp.276
- LV. **Computational association of autoimmune diseases: a case study**
Sevimoglu T., Arga K. Y.
FEBS EMBO 2014 Conference, Paris, France, 30 August - 04 September 2014, vol.281, pp.109-110
- LVI. **Investigation of the fructose uptake system in halophilic bacteria *Halomonas smyrnensis* AAD6T**
Aydin B., Oner E. T. , Arga K. Y.

38th Congress of the Federation-of-European-Biochemical-Societies (FEBS), Saint Peter, Guernsey And Alderney, 6 - 11 July 2013, vol.280, pp.559

- LVII. Characterization of the first extremophilic levansucrase purified from halophilic bacteria Halomonas smyrnensis AAD6T**
Calimlioglu B., Oner E. T. , Arga K. Y.
38th Congress of the Federation-of-European-Biochemical-Societies (FEBS), Saint Peter, Guernsey And Alderney, 6 - 11 July 2013, vol.280, pp.178-179
- LVIII. Biosensor production for foodborn pathogen salmonella enteritidis**
SÜNER S., ARĞA K. Y. , SESAL N. C.
The International Congress on Bioinformatics and Biomics, 18 - 22 May 2011
- LIX. LEVAN PRODUCTION BY Halomonas sp.**
Kazak H., Ates O., Kucukasik F., ARĞA K. Y. , Oner E. T.
6th International Conference on Polysaccharides-Glycoscience, Prague, Czech Republic, 29 September - 01 October 2010, pp.133-134
- LX. Integrated approach to reconstruct signal transduction networks**
ARĞA K. Y. , Kirdar B., Ulgen K., Nielsen J.
12th European Congress on Biotechnology (ECB 12), Copenhagen, Denmark, 21 - 24 August 2005, vol.118
- LXI. Structural robustness of protein interaction networks are due to modularity**
ARĞA K. Y. , Onsan Z., Kirdar B., Nielsen J., Ulgen K.
12th European Congress on Biotechnology (ECB 12), Copenhagen, Denmark, 21 - 24 August 2005, vol.118

Supported Projects

Kasavi C., Arğa K. Y. , Erzik C., Çalışkan M., Yılmaz B., TUBITAK Project, Abdominal aort anevrizmasının erken teşhis ve tedavisine yönelik biyobelirteç ve ilaç adayların belirlenmesi, 2021 - 2023

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 Deneylerle Doğrulanması, 2017 - 2021

Arğa K. Y. , ÖZBEK SARICA P., TUBITAK Project, Kolorektal kanserinde farklılaşan protein-protein etkileşimleri üzerinden ilaç repozisyonu, 2019 - 2020

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

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

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

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

Arğa K. Y. , TURANLI B., TUBITAK Project, Hesaplamalı Sistem Biyolojisi Yaklaşımı İle Kanser 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

Arğa K. Y. , Project Supported by Higher Education Institutions, Mayada TOR sinyal iletiminde yeni yollarının tespiti ve araştırılması, 2016 - 2017

Arğa K. Y. , Project Supported by Higher Education Institutions, Mezenkimal kök hücrelerin over kanser hücre hatları ile etkileşimine sistem biyolojisi yaklaşımı, 2015 - 2017

Arğa K. Y. , Akyay Z., Project Supported by Higher Education Institutions, Agresif ve agresif olmayan papiller tiroid kanserinde miRNA ve mRNA ekspresyon profillerinin ve gen miRNA ilişkisinin belirlenip biyolojik ağlarla

ilişkilendirilmesi, 2015 - 2016

Arğa K. Y. , Project Supported by Higher Education Institutions, Sistem biyolojisi yaklaşımı ile Psoriasis Sedef hastalığı ile ilintili biyobelirteç tayini, 2014 - 2016

Arğa K. Y. , Mertoğlu B., Project Supported by Higher Education Institutions, Endokrin bozucu bileşiklerin *Saccharomyces cerevisiae* genomunun transkripsiyon profilleri üzerindeki etkilerinin moleküler metotlarla araştırılması, 2013 - 2016

Arğa K. Y. , Kazan D., Project Supported by Higher Education Institutions, Biyoproses otomatik kontrol araştırma geliştirme ve eğitim kompleksi, 2013 - 2016

Arğa K. Y. , Toksoy Öner E., TÜBİTAK International Bilateral Joint Cooperation Program Project, Yeni nesil biyoyakıt teknolojileri için ekstremofiller, 2012 - 2016

Arğa K. Y. , Toksoy Öner E., TUBİTAK Project, Levan bazlı polimerlerin biyolojik aktivitelerinin in vitro ve in silico incelenmesi, 2011 - 2015

Arğa K. Y. , Project Supported by Higher Education Institutions, Artırılmış levan biyosentezi stratejileri tasarlamak için *Halomonas smyrnensis* AAD6T deki fruktoz alımının araştırılması, 2013 - 2014

Arğa K. Y. , Project Supported by Higher Education Institutions, *Halomonas smyrnensis* AAD6T den izole edilen levansukraz enziminin saflaştırılması ve karakterizasyonu, 2013 - 2014

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

Arğa K. Y. , TUBİTAK Project, Mikrobiyal biyopolimer üretiminin sistem bazlı optimizasyonu, 2011 - 2014

Arğa K. Y. , Project Supported by Higher Education Institutions, Levan üreten *Halomonas smyrnensis* AAD6 için biyoinformatik temelli metabolik ağyapı oluşturulması, 2013 - 2013

Arğa K. Y. , Project Supported by Higher Education Institutions, Biyopolimer üretim mekanizmalarının metabolik ağyapılar ile aydınlatılması, 2011 - 2013

Arğa K. Y. , Project Supported by Higher Education Institutions, Ekzopolisakkarit üreten halofilik bakterilerde gen açıklamalarının eldesi ve karşılaştırmalı genomik, 2011 - 2012

Metrics

Publication: 172

Citation (WoS): 1598

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H-Index (WoS): 21

H-Index (Scopus): 22

Non Academic Experience

TUBİTAK, ARDEB, -

Other Public Institution, KOSGEB, -