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Education Information

- I. Doctorate, Ohio State University, The Molecular, Cellular And Developmental Biology Graduate Program, United States Of America 2000 - 2007
- II. Undergraduate, Ihsan Dogramaci Bilkent University, Faculty Of Science, Department Of Molecular Biology And Genetics, Turkey 1996 - 2000

Foreign Languages

- I. English, C1 Advanced

Advising Theses

- I. Yilmaz A., Preimplantation genetic diagnosis in balanced rearrangement carriers and investigation of inter chromosomal effect, Doctorate, Ç.OĞUR(Student), 2023
- II. Yilmaz A., Discovery of Indirect Interactions Between Genes by Deep Learning Using Gene Expression Data, Postgraduate, G.ÇELEN(Student), 2022
- III. Yilmaz A., Survey of expression profiles of circular RNAs and their parent genes in context of tissue specificity, Postgraduate, E.İREM(Student), 2022
- IV. Yilmaz A., Using gene expression profiles of cancer patients with image-based deep learning approach to develop methods for classification and prediction of cancer while revealing critical genes, Postgraduate, B.NUR(Student), 2021
- V. Yilmaz A., Analysis of interplay between gene expression and miRNA expression in breast cancer next generation sequencing data, Postgraduate, S.ARI(Student), 2018
- VI. Yilmaz A., Analysis of biochemical pathway with graph based algorithms, Postgraduate, E.RAVZA(Student), 2018
- VII. Yilmaz A., Analysis of Intra-tumoral Heterogeneity in Context of Tissue Specific Gene Expression with Computational Approach, Postgraduate, H.BÜŞRA(Student), 2018
- VIII. YILMAZ A., İnsan Nöroblastoma Hücrelerinde Metal Uyarıcı Oksidatif Stresle İndüklenen Alzheimer Modeli, Postgraduate, E.KARAMAN(Student), 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Biofabrication of Acer palmatum-Mediated Multifunctional CuO Nanoparticles for Dye Removal, Antibacterial-Antifungal Activity, and Molecular Docking**
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- II. **PGT for structural chromosomal rearrangements in 300 couples reveals specific risk factors but an interchromosomal effect is unlikely**
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- III. **Effect of SARS-CoV-2 infection on host competing endogenous RNA and miRNA network.**
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- IV. **Network based multifactorial modelling of miRNA-target interactions**
Ari Yuka S., Yilmaz A.
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- V. **Important biological information uncovered in previously unaligned reads from chromatin immunoprecipitation experiments (ChIP-Seq)**
Ouma W. Z., Mejia-Guerra M. K., YILMAZ A., PAREJA-TOBES P., Li W., Doseff A. I., Grotewold E.
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- VI. **Molecular basis for the action of a dietary flavonoid revealed by the comprehensive identification of apigenin human targets**
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- VII. **Unraveling the KNOTTED1 regulatory network in maize meristems**
Bolduc N., Yilmaz A., Mejia-Guerra M. K., Morohashi K., O'Connor D., Grotewold E., Hake S.
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- VIII. **A Genome-Wide Regulatory Framework Identifies Maize Pericarp Color1 Controlled Genes**
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- X. **AGRIS: the Arabidopsis Gene Regulatory Information Server, an update**
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- XI. **Genome sequencing and analysis of the model grass Brachypodium distachyon**
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- XII. **Components and Mechanisms of Regulation of Gene Expression**
YILMAZ A., Grotewold E.
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- XIII. **The word landscape of the non-coding segments of the Arabidopsis thaliana genome**
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- XIV. **GRASSIUS: A Platform for Comparative Regulatory Genomics across the Grasses**
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- XV. **NOD/SCID mouse model of canine T-cell lymphoma with humoral hypercalcaemia of malignancy:**

cytokine gene expression profiling and in vivo bioluminescent imaging

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XVII. **Retrovirus translation initiation: Issues and hypotheses derived from study of HIV-1**

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XVIII. **Coordinate enhancement of transgene transcription and translation in a lentiviral vector**

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RETROVIROLOGY, vol.3, 2006 (SCI-Expanded)

Articles Published in Other Journals

I. **Balikesir/Antandros Antik Kenti Kazısı Toprak Örneklerinin Metagenomik Analizi**

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Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.26, no.1, pp.1-12, 2022 (Peer-Reviewed Journal)

II. **Convolutional Neural Network Approach to Predict Tumor Samples Using Gene Expression Data**

DARENDELİ KİRAZ B. N., YILMAZ A.

Zeki sistemler teori ve uygulamaları dergisi (Online), vol.4, no.2, pp.136-141, 2021 (Peer-Reviewed Journal)

III. **Assessment of Mutation Susceptibility in DNA Sequences with Word Vectors**

YILMAZ A.

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IV. **POPcorn: An Online resource providing access to distributed and diverse maize project data**

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Refereed Congress / Symposium Publications in Proceedings

I. **A New Network-Based Tool to Analyse Competing Endogenous RNAs**

Yuka S., Yilmaz A.

16th International Symposium on Bioinformatics Research and Applications, ISBRA 2020, Moscow, Russia, 1 - 04 December 2020, pp.274-281

II. **Constructing Accurate Compound Networks for Reliable Network Analysis**

Alpaydın D., Öztürk R., Yilmaz A.

12th International Symposium on Health Informatics and Bioinformatics (HIBIT) 2019, İzmir, Turkey, 17 - 18 October 2019, pp.230

III. **Reduction of Depression Symptoms via the Metabolites of Gut Microbiota**

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- VI. **Breast cancer gene expression profile analysis in terms of genes specific to non- breast tissues**
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- VII. **Batch Analysis of RNA-Seq Data with Docker in AWS Cloud**
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ICAMLS 2018 International Conference on Applied Mathematics, Modeling and Life Science Problems, İstanbul, Turkey, 3 - 05 October 2018, pp.87
- VIII. **What is the relationship between cancer DEGs and tissue specific genes**
Konuk H. B., Cesur M. R., Yilmaz A.
Lisansüstü Araştırmalar Sempozyumu ve Tanıtım Günleri, Kocaeli, Turkey, 17 - 18 May 2017
- IX. Öztürk R., Yilmaz A.
1.Temel Onkoloji Sempozyumu, İzmir, Turkey, 9 - 11 May 2018, pp.30
- X. Darendeli B. N., Al-Qabbani H., Yilmaz A.
1.Temel Onkoloji Sempozyumu, İzmir, Turkey, 9 - 11 May 2018, pp.48
- XI. **Pinpointing the importance of compounds in human metabolic network**
Öztürk E. R., Yilmaz A.
7th International Molecular Biology and Biotechnology Congress, Konya, Turkey, 25 - 27 April 2018, pp.160
- XII. **Multifactorial Modelling of MicroRNA Associated Repression and Its Subsequent Effects on Gene Expression in MicroRNA:Target Network**
Arı S., Yilmaz A.
7th International Molecular Biology and Biotechnology Congress, Konya, Turkey, 25 - 27 April 2018, pp.401
- XIII. **RIGOROUS IDENTIFICATION OF TISSUE SPECIFIC GENES IN SILICO: REVEALING THE INTERPLAY BETWEEN CANCER SPECIFIC EXPRESSION AND TISSUE SPECIFIC EXPRESSION**
KONUK H. B., YILMAZ A.
International Congress on Advances in Bioscience and Biotechnology, Saraybosna, Bosnia And Herzegovina, 25 - 29 October 2017
- XIV. **GENERATING LOSSLESS COMPRESSION OF GENOME SCALE K-MER FREQUENCY TABLE AS RASTER IMAGE**
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- XV. **IDENTIFICATION of TISSUE SPECIFIC GENES and ASSESMENT of THEIR INTERSECTION WITH DIFFERENTIALY EXPRESSED GENES in CANCER DATA to UNDERSTAND TUMOR HETEROGENEITY IN SILICO**
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- XVI. **SURVEY OF CHIMERIC mRNAs IN HIV INFECTED PATIENT RNA-SEQ DATA**
KALYON O., YILMAZ A.
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- XVII. **Prebiotics and Probiotics: Break the 'Self-Domino Effect' for obesity Treatment**
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- XVIII. **Robust and Rigorous Classification of Tissue Specific Genes**
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- XIX. **Prediction of splice site using AdaBoost with a new sequence encoding approach**

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- XX. **A Combined SVM and Markov Model approach for Splice Site Identification**
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- XXI. **A Novel Method for Splice Sites Prediction Using Sequence Component and Hidden Markov Model**
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38th Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society (EMBC), Florida, United States Of America, 16 - 20 August 2016, pp.3076-3079
- XXII. **Utilization of Multiple Mapped Sequences in Next Generation Sequencing Especially in Chip Seq Experiments**
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- XXIII. **Computational Identification of miRNA Targets Using Olive Library**
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- XXIV. **Molecular Analysis of Lipid Transfer Gene Selected from Olive *Olea europaea* ESTs Expressed Sequence Tags Collection**
Ömeroğlu Ulu Z., ÜN C., ÖZTABAK K. Ö., YILMAZ A., ÖZDEMİR ÖZGENTÜRK N.
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- XXV. **Construction and Comparison of EST Library for Expressed Genes in Normal and Tumoral Mammary Gland Tissue of the Terrier Dog**
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- XXVI. **Design and synthesis of small peptide sequences to detect concentrations of free transition metal ions**
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- XXVII. **Analyses of EST Collection from Prenatal and Postnatal Mammary Tissue of Sheep**
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- XXVIII. **Discovery of regulatory networks in plants by linking promoter and transcription factor databases.**
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- XXIX. **Construction of genomic regulatory encyclopedias: Strategies and case studies**
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Supported Projects

- I. Çakır R., Yılmaz A., Çalık H., Arı Yuka S., Maden H., Emergency R&D Project of Group A, Kolorektal Kanserde Çoklu İlaç Direncine Karşı İn Siliko Terapötik Peptit Tasarlanması ve Kitosan Nanopartikülleri ile Etkinliğinin İn Vitro İncelenmesi, 2024 - 2026
- II. YILMAZ A., Project Supported by Higher Education Institutions, İnsan Nöroblastoma Hücrelerinde Metal-Uyarıcı Oksidatif Stresle İndüklenen Alzheimer Modeli, 2016 - 2017
- III. YILMAZ A., BULUT YILGÖR M., ÖZTAŞ E. S., TÜBİTAK Project, Bazı Sonlu Halkalar Üzerinde Tanımlı Ters Sıralı-Tamlama Kodlar Ve DNA\'ya Uygulamaları, 2013 - 2015