

Asst. Prof. Alper YILMAZ

Personal Information

Office Phone: [+90 212 383 4627](tel:+902123834627)

Fax Phone: [+90 212 383 4625](tel:+902123834625)

Web: <https://avesis.yildiz.edu.tr/alyilmaz>

Biography

Alper Yilmaz completed his bachelor in 2000 in field of Molecular Biology and Genetics. Then he started his PhD at the Ohio State Universtiy, studied translational control of HIV mRNAs. After completing his PhD in 2007 he studied on DNA words in genomes and next-generation sequencing analysis as a post-doc in same university. He started faculty position in 2012 and is interested in genome grammar, next-generation sequencing analysis and analysis of gene expression via deep learning.

Education Information

Doctorate, The Ohio State University, The Molecular, Cellular And Developmental Biology Graduate Program, Turkey
Continues

Under Graduate, Bilkent Üniversitesi, Moleküler Biyoloji Ve Genetik, Turkey Continues

Foreign Languages

English, C1 Advanced

Research Areas

Life Sciences, Bioinformatics, Molecular Biology and Genetics, Genomics, Natural Sciences

Academic Titles / Tasks

Assistant Professor, Yıldız Teknik Üniversitesi, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING,
Biyomühendislik, 2018 - Continues

Assistant Professor, Yıldız Teknik Üniversitesi, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING,
Biyomühendislik, 2012 - 2018

Courses

Introductory Computer Sciences, Under Graduate, 2019 - 2020

Advising Theses

Yilmaz A., Analysis of interplay between gene expression and miRNA expression in breast cancer next generation sequencing data, Post Graduate, S.ARI(Student), 2018
Yilmaz A., Analysis of biochemical pathway with graph based algorithms, Post Graduate, E.RAVZA(Student), 2018
Yilmaz A., Analysis of Intra-tumoral Heterogeneity in Context of Tissue Specific Gene Expression with Computational Approach, Post Graduate, H.BÜŞRA(Student), 2018
YILMAZ A., İnsan Nöroblastoma Hücrelerinde Metal Uyarıcı Oksidatif Stresle İndüklenen Alzheimer Modeli, Post Graduate, E.KARAMAN(Student), 2017

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **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.
SCIENTIFIC REPORTS, vol.5, 2015 (Journal Indexed in SCI)
- II. **Molecular basis for the action of a dietary flavonoid revealed by the comprehensive identification of apigenin human targets**
Arango D., Morohashi K., Yilmaz A., Kuramochi K., Parihar A., Brahimaj B., Grotewold E., Doseff A. I.
PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, vol.110, 2013
(Journal Indexed in SCI)
- III. **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.
GENES & DEVELOPMENT, vol.26, pp.1685-1690, 2012 (Journal Indexed in SCI)
- IV. **A Genome-Wide Regulatory Framework Identifies Maize Pericarp Color1 Controlled Genes**
Morohashi K., Casas M. I. , Falcone Ferreyra L., Mejia-Guerra M. K. , Pourcel L., Yilmaz A., Feller A., Carvalho B., Emiliani J., Rodriguez E., et al.
PLANT CELL, vol.24, pp.2745-2764, 2012 (Journal Indexed in SCI)
- V. **Thriving under Stress: Selective Translation of HIV-1 Structural Protein mRNA during Vpr-Mediated Impairment of eIF4E Translation Activity**
Sharma A., Yilmaz A., Marsh K., Cochrane A., Boris-Lawrie K.
PLOS PATHOGENS, vol.8, 2012 (Journal Indexed in SCI)
- VI. **AGRIS: the Arabidopsis Gene Regulatory Information Server, an update**
Yilmaz A., Mejia-Guerra M. K. , Kurz K., Liang X., Welch L., Grotewold E.
NUCLEIC ACIDS RESEARCH, vol.39, 2011 (Journal Indexed in SCI)
- VII. **Genome sequencing and analysis of the model grass Brachypodium distachyon**
Vogel J. P. , Garvin D. F. , Mockler T. C. , Schmutz J., Rokhsar D., Bevan M. W. , Barry K., Lucas S., Harmon-Smoth M., Lail K., et al.
NATURE, vol.463, pp.763-768, 2010 (Journal Indexed in SCI)
- VIII. **The word landscape of the non-coding segments of the Arabidopsis thaliana genome**
Lichtenberg J., Yilmaz A., Welch J. D. , Kurz K., Liang X., Drews F., Ecker K., Lee S. S. , Geisler M., Grotewold E., et al.
BMC GENOMICS, vol.10, 2009 (Journal Indexed in SCI)
- IX. **GRASSIUS: A Platform for Comparative Regulatory Genomics across the Grasses**
Yilmaz A., Nishiyama M. Y. , Fuentes B. G. , Souza G. M. , Janies D., Gray J., Grotewold E.
PLANT PHYSIOLOGY, vol.149, pp.171-180, 2009 (Journal Indexed in SCI)
- X. **NOD/SCID mouse model of canine T-cell lymphoma with humoral hypercalcaemia of malignancy: cytokine gene expression profiling and in vivo bioluminescent imaging**
Nadella M. V. P. , Kisseberth W. C. , Nadella K. S. , Thudi N. K. , Thamm D. H. , McNeil E. A. , Yilmaz A., Boris-Lawrie K., Rosol T. J.
VETERINARY AND COMPARATIVE ONCOLOGY, vol.6, pp.39-54, 2008 (Journal Indexed in SCI)
- XI. **RNA helicase A interacts with divergent lymphotropic retroviruses and promotes translation of human T-cell leukemia virus type 1**

Bolinger C., Yilmaz A., Hartman T. R. , Kovacic M. B. , Fernandez S., Ye J., Forget M., Green P. L. , Boris-Lawrie K.
NUCLEIC ACIDS RESEARCH, vol.35, pp.2629-2642, 2007 (Journal Indexed in SCI)

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

Yilmaz A., BOLINGER C., BORIS-LAWRIE K.

CURRENT HIV RESEARCH, vol.4, pp.131-139, 2006 (Journal Indexed in SCI)

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

Yilmaz A., FERNANDEZ S., LAIRMORE M. D. , BORIS-LAWRIE K.

RETROVIROLOGY, vol.3, 2006 (Journal Indexed in SCI)

Articles Published in Other Journals

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

Cannon E. K. , Birkett S. M. , Braun B. L. , Kodavali S., Jennewein D. M. , Yilmaz A., Antonescu V., Antonescu C., Harper L. C. , Gardiner J. M. , et al.

International Journal of Plant Genomics, vol.2011, 2011 (Refereed Journals of Other Institutions)

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. Batch Analysis of RNA-Seq Data with Docker in AWS Cloud

YILMAZ A.

ICAMLS 2018 International Conference on Applied Mathematics, Modeling and Life Science Problems, 3 - 05 October 2018

III. What is the relationship between cancer DEGs and tissue specific genes

KONUĞ H. B. , CESUR M. R. , YILMAZ A.

Lisansüstü Araştırmalar Sempozyumu ve Tanıtım Günleri, Turkey, 17 - 18 May 2017

IV. Multifactorial Modelling of MicroRNA Associated Repression and Its Subsequent Effects on Gene Expression in MicroRNA:Target Network

ARI S., YILMAZ A.

7. International Molecular Biology and Biotechnology Congress, Konya, Turkey, 25 - 27 April 2018

V. RIGOROUS IDENTIFICATION OF TISSUE SPECIFIC GENES IN SILICO: REVEALING THE INTERPLAY BETWEEN CANCER SPECIFIC EXPRESSION AND TISSUE SPECIFIC EXPRESSION

KONUĞ H. B. , YILMAZ A.

International Congress on Advances in Bioscience and Biotechnology, Saraybosna, Bosnia And Herzegovina, 25 - 29 October 2017

VI. GENERATING LOSSLESS COMPRESSION OF GENOME SCALE K-MER FREQUENCY TABLE AS RASTER IMAGE

KONUĞ H. B. , YILMAZ A.

International Congress on Advances in Bioscience and Biotechnology, Saraybosna, Bosnia And Herzegovina, 25 - 29 October 2017

VII. Identification of Tissue Specific Genes and Assessment of Their Intersection with Differentially Expressed Genes in Cancer Data to Understand Tumor Heterogeneity in silico

KONUĞ H. B. , CESUR M. R. , YILMAZ A.

10th The International Symposium on Health Informatics and Bioinformatics (HIBIT), Cyprus (Kktc), 28 - 30 June 2017

VIII. SURVEY OF CHIMERIC mRNAs IN HIV INFECTED PATIENT RNA-SEQ DATA

KALYON O., YILMAZ A.

10th International Symposium on Health Informatics and Bioinformatics, Güzelyurt, Cyprus (Kktc), 28 June 2017

- IX. **IDENTIFICATION of TISSUE SPECIFIC GENES and ASSESMENT of THEIR INTERSECTION WITH DIFFERENTIALY EXPRESSED GENES in CANCER DATA to UNDERSTAND TUMOR HETEROGENEITY IN SILICO**
KONUĞ H. B. , CESUR M. R. , YILMAZ A.
10 th International Symposium on Health Informatics and Bioinformatics, Güzelyurt, Cyprus (Kktc), 28 June 2017
- X. **Prebiotics and Probiotics: Break the 'Self-Domino Effect' for obesity Treatment**
Özel C., Yılmaz A.
IVEK 3rd International Convention of Pharmaceuticals and Pharmacies, İstanbul, Turkey, 26 April 2017, pp.338
- XI. **Robust and Rigorous Classification of Tissue Specific Genes**
KONUĞ H. B. , YILMAZ A.
INTERNATIONAL DNA DAY AND GENOME CONGRESS (IDDGC) 2017, Kırşehir, Turkey, 24 April 2017
- XII. **Prediction of splice site using AdaBoost with a new sequence encoding approach**
Pashaei E., YILMAZ A., ÖZEN M., AYDIN N.
2016 IEEE International Conference on Systems, Man, and Cybernetics, 9 - 12 October 2016
- XIII. **A Combined SVM and Markov Model approach for Splice Site Identification**
Pashaei E., YILMAZ A., Aydini N.
6th International Conference on Computer and Knowledge Engineering (ICCKE), Mashhad, Iran, 20 - 21 October 2016, pp.200-204
- XIV. **A Novel Method for Splice Sites Prediction Using Sequence Component and Hidden Markov Model**
Pashaei E., YILMAZ A., Ozen M., AYDIN N.
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
- XV. **Utilization of Multiple Mapped Sequences in Next Generation Sequencing Especially in Chip Seq Experiments**
ZOR S., YILMAZ A.
International Health Informatics and Bioinformatics Symposium, Muğla, Turkey, 16 - 17 October 2015
- XVI. **Computational Identification of miRNA Targets Using Olive Library**
Ömerođlu Ulu Z., ÜN C., ÖZTABAK K. Ö. , YILMAZ A., ÖZDEMİR ÖZGENTÜRK N.
Post-Transcriptional Gene Regulation in Plants, Paris, 10 - 11 July 2015
- XVII. **Construction and Comparison of EST Library for Expressed Genes in Normal and Tumoral Mammary Gland Tissue of the Terrier Dog**
Ömerođlu Ulu Z., ÜN C., ÖZTABAK K. Ö. , YILMAZ A., ÖZDEMİR ÖZGENTÜRK N.
International Symposium on Molecular Chemistry, 18 - 19 December 2014
- XVIII. **Molecular Analysis of Lipid Transfer Gene Selected from Olive Olea europaea ESTs Expressed Sequence Tags Collection**
Ömerođlu Ulu Z., ÜN C., ÖZTABAK K. Ö. , YILMAZ A., ÖZDEMİR ÖZGENTÜRK N.
International Symposium on Molecular Chemistry, 18 - 19 December 2014
- XIX. **Design and synthesis of small peptide sequences to detect concentrations of free transition metal ions**
YÜCESAN G., Yılmaz A., Adıyaman R.
American Chemical Society, 01 March 2014
- XX. **Analyses of EST Collection from Prenatal and Postnatal Mammary Tissue of Sheep**
Ömerođlu Ulu Z., ÜN C., ÖZTABAK K. Ö. , YILMAZ A., ÖZDEMİR ÖZGENTÜRK N.
HIBIT 2013 The 8th International Symposium on Health Informatics and Bioinformatics, 25 - 27 September 2013
- XXI. **Construction of genomic regulatory encyclopedias: Strategies and case studies**
Alam M., Bitterman T., Drews F., Ecker K., Elnitski L., Evans S., YILMAZ A., Welch L.
Proceedings of the Ohio Collaborative Conference on Bioinformatics, 01 June 2009
- XXII. **Discovery of regulatory networks in plants by linking promoter and transcription factor databases.**
YILMAZ A., Palaniswamy S., Davuluri R., Grotewold E.

Supported Projects

YILMAZ A., Project Supported by Higher Education Institutions, İnsan Nöroblastoma Hücrelerinde Metal-Uyarıcı Oksidatif Stresle İndüklenen Alzheimer Modeli, 2016 - 2017

YILMAZ A., BULUT YILGÖR M., ÖZTAŞ E. S. , TUBITAK Project, Bazı Sonlu Halkalar Üzerinde Tanımlı Ters Sıralı-Tamlama Kodlar Ve DNA'ya Uygulamaları, 2013 - 2015

Scientific Refereeing

Plant Methods dergisi için makale değerlendirilmesi, SCI Journal, June 2013

Türk Biyoloji Dergisi, BIY-1111-23 nolu makalenin değerlendirilmesi, National Scientific Refreed Journal, March 2012

Citations

Total Citations (WOS):1945

h-index (WOS):11