



# YEŞİM AYDIN SON

## ASSOC. PROF.

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Enformatik Enstitüsü B-207 06800, Ankara, Türkiye

### International Researcher IDs

ScholarID: [sdALpWoAAAAJ](https://orcid.org/0000-0002-8118-4272)

ORCID: 0000-0002-8118-4272

Publons / Web Of Science ResearcherID: AAF-8696-2019

ScopusID: 14040249400

Yoksis Researcher ID: 117223

### Learning Knowledge

Post Doctorate  
2007 - 2009

City of Hope National Cancer Center, Beckman Research Institute, Molecular  
Medicine, United States Of America

Doctorate  
2000 - 2006

University of Tennessee, Knoxville, Life Sciences, Graduate School of Genome  
Sciences And Technology, United States Of America

Doctorate  
1993 - 1999

Hacettepe University, Tıp Fakültesi (Türkçe), Tıp Fakültesi, Turkey

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, DIFFERENTIAL EXPRESSION OF SKINCANCER AND HAIR-FOLLICLE CYCLEREGULATED GENES IN  
TUMORSUSCEPTIBLE K14-AGOUTI MICE, University Of Tennessee, Knoxville, Genome Science And Technology, 2006

### Academic Titles / Tasks

Associate Professor  
2024 - Continues

Middle East Technical University, Presidency Office, NÖROM

Associate Professor  
2017 - Continues

Middle East Technical University, Graduate School of Informatics, Medical  
Informatics

Assistant Professor  
2010 - 2017

Middle East Technical University, Graduate School of Informatics, Medical  
Informatics

Lecturer PhD  
2009 - 2010

Middle East Technical University, Graduate School of Informatics, Medical  
Informatics

## Supported Projects

1. AYDIN SON Y., ACAR A. C., ADEBALI O., ÇAVDARLI B., Project Supported by Higher Education Institutions, EVRİMSEL VE FONKSİYONEL ANALİZE DAYALI YAPAY ÖĞRENME MODELLERİ İLE SARKOMERİK PROTEİN AİLELERİNDEKİ GENOMİK ÇEŞİTLİLİKLERİN KLİNİK AÇIDAN DEĞERLENDİRİLMESİ, 2024 - Continues
2. AYDIN SON Y., GÜNEY E., Project Supported by Higher Education Institutions, Nadir Genetik Hastalıkların Tanısı için Uç birleştirme Splicing Varyant Öngörülerinin Doğrulanması, 2023 - Continues
3. KARAHAN A., TOHUMCU B. E., AYDIN SON Y., BLANCHOU S., Project Supported by Higher Education Institutions, Türkiye kıyılarındaki Didemnidlerden medikal ve teknoloji alanlarında kullanılacak yeni Denizel Biyoaktif İkincil Metabolitlerin (DBIM) tanımlanması, 2023 - Continues
4. Aydın Son Y., Research Project of the Presidency of Turkey Health Institutes (TÜSEB), Alzheimer Hastalığı ile ilişkili SPOCK1 Proteininin Sinir Hücrelerinde Apoptoz Üzerine Etkisinin İncelenmesi, 2023 - 2025
5. AYDIN SON Y., DURSUN USAL T., Project Supported by Higher Education Institutions, Canlı sinir hücre hatlarında protein-protein etkileşimlerinin incelenmesi için SPOCK1 geninin işaretlenmesi, 2021 - 2023
6. AYDIN SON Y., TOMBULOĞLU A., Project Supported by Higher Education Institutions, IC10 konsantrasyonunda Borik Asidin HepG2 hepatoselüler karsinoma hücre hattında harekete geçirdiği moleküler mekanizmaların farklı kimyasal koşullarla karşılaştırmalı olarak incelenmesi, 2018 - 2020
7. AYDIN SON Y., Yılmaz A., ERDOĞAN O., Gedikoğlu C., Project Supported by Higher Education Institutions, Metu-Snp: Snp Biyobelirteçlerinin Analizi Ve Hastalıklarla İlişkilendirilmesi Yazılımının Geliştirilmesi, 2011 - 2019
8. CAN T., AYDIN SON Y., TUBITAK Project, Farklı Nitelikteki Biyolojik Ağların Entegrasyonu ve Yerel Topolojik Özellik Vektörleri Tabanlı Karşılaştırılması, 2014 - 2017
9. PURUTÇUOĞLU V., Tuncer G., SÜRÜN B., Yazıcı M., AYDIN SON Y., UĞUR Ö., Project Supported by Higher Education Institutions, Biyokimyasal sistemlerin stokastik simülasyon algoritmalarıyla yaratılması ve impuls içerecek şekilde genişletilmesi, 2014 - 2016

## Published journal articles indexed by SCI, SSCI, and AHCI

1. **Revealing third-order interactions through the integration of machine learning and entropy methods in genomic studies**  
Iyigün C., Aydın Son Y.  
BIODATA MINING, vol.17, no.1, 2024 (SCI-Expanded)
2. **Multimodal data fusion using sparse canonical correlation analysis and cooperative learning: a COVID-19 cohort study**  
Aydın Son Y.  
npj Digital Medicine, vol.7, no.7, pp.1-11, 2024 (SCI-Expanded)
3. **An automated framework for evaluation of deep learning models for splice site predictions**  
Zabardast A., Tamer E. G., AYDIN SON Y., Yılmaz A.

Scientific Reports, vol.13, no.1, 2023 (SCI-Expanded)

4. **Reflections on Turkish Personal Data Protection Law and Genetic Data in Focus Group Discussions**  
Özkan Ö., Şahinol M., AYDINOĞLU A. U., AYDIN SON Y.  
NanoEthics, vol.16, no.3, pp.297-312, 2022 (SCI-Expanded)
5. **Integrative Predictive Modeling of Metastasis in Melanoma Cancer Based on MicroRNA, mRNA, and DNA Methylation Data**  
Kutlay A., AYDIN SON Y.  
FRONTIERS IN MOLECULAR BIOSCIENCES, vol.8, 2021 (SCI-Expanded)
6. **Assessing the readiness of Turkish health information systems for integrating genetic/genomic patient data: System architecture and available terminologies, legislative, and protection of personal data**  
Şık A. S., Aydınoğlu A. U., Aydın Son Y.  
HEALTH POLICY, vol.125, no.2, pp.203-212, 2021 (SCI-Expanded)
7. **Projecting the course of COVID-19 in Turkey: A probabilistic modeling approach**  
Acar A. C., Er A. G., Burduroğlu H. C., Sülkü S. N., Aydın Son Y., Akin L., Ünal S.  
TURKISH JOURNAL OF MEDICAL SCIENCES, vol.51, no.1, pp.16-27, 2021 (SCI-Expanded)
8. **In vitro effects of boric acid on human liver hepatoma cell line (HepG2) at the half-maximal inhibitory concentration**  
Tombuloglu A., Copoglu H., AYDIN SON Y., GÜRAY N. T.  
Journal of Trace Elements in Medicine and Biology, vol.62, 2020 (SCI-Expanded)
9. **Evaluation of potential novel variations and their interactions related to bipolar disorders: Analysis of genome-wide association study data**  
Açikel C., Son Y., Çelik C., Gül H.  
Neuropsychiatric Disease and Treatment, vol.12, pp.2997-3004, 2016 (SCI-Expanded)
10. **Modeling the combined effect of RNA-binding proteins and microRNAs in post-transcriptional regulation**  
Hafezqorani S., Lafzi A., De Bruin R. G., Van Zonneveld A. J., Van Der Veer E. P., Son Y., Kazan H.  
NUCLEIC ACIDS RESEARCH, vol.44, 2016 (SCI-Expanded)
11. **Reconstruction of the temporal signaling network in Salmonella-infected human cells**  
Budak G., Ozsoy O. E., Son Y., Can T., Tunçbağ N.  
FRONTIERS IN MICROBIOLOGY, vol.6, 2015 (SCI-Expanded)
12. **Evaluation of Whole Genome Association Study Data in Bipolar Disorders: Potential Novel SNPs and Genes**  
Cengiz Han A., Aydın Son Y., Çelik C., Recep T.  
KLINIK PSIKOFARMAKOLOJİ BULTENİ-BULLETIN OF CLINICAL PSYCHOPHARMACOLOGY, vol.25, pp.12-18, 2015 (SCI-Expanded)
13. **Systems-level analysis of genome wide association study results for a pilot juvenile idiopathic arthritis family study**  
AYDIN SON Y., Batu E. D., Demirkaya E., BİLGİNER Y., KASAPÇOPUR Ö., Unsal E., ALİKAŞİFOĞLU M., ÖZEN S.  
TURKISH JOURNAL OF PEDIATRICS, vol.57, no.4, pp.324-333, 2015 (SCI-Expanded)
14. **Discovering missing heritability and early risk prediction for type 2 diabetes: a new perspective for genome-wide association study analysis with the Nurses' Health Study and the Health Professionals' Follow-Up Study**  
Gul H., Aydın Son Y., Acikel C.  
TURKISH JOURNAL OF MEDICAL SCIENCES, vol.44, pp.946-982, 2014 (SCI-Expanded)
15. **Incorporation of personal Single Nucleotide Polymorphism (SNP) data into a national level electronic health record for disease risk assessment, Part 3: An evaluation of SNP Incorporated National Health Information System of Turkey for prostate cancer**  
Beyan T., AYDIN SON Y.  
Journal of Medical Internet Research, vol.16, no.8, 2014 (SCI-Expanded)
16. **Incorporation of personal Single Nucleotide Polymorphism (SNP) data into a national level**

**electronic health record for disease risk assessment, part 2: The incorporation of SNP into the national health information system of Turkey**

Beyan T., AYDIN SON Y.

Journal of Medical Internet Research, vol.16, no.8, 2014 (SCI-Expanded)

17. **A Prostate Cancer Model Build by a Novel SVM-ID3 Hybrid Feature Selection Method Using Both Genotyping and Phenotype Data from dbGaP**  
Yucebas S. C., Aydin Son Y.  
PLOS ONE, vol.9, 2014 (SCI-Expanded)
18. **Emerging technologies in health information systems: Genomics driven wellness tracking and management system (GO-WELL)**  
Beyan T., AYDIN SON Y.  
Studies in Computational Intelligence, vol.546, pp.315-339, 2014 (SCI-Expanded)
19. **Incorporation of personal single nucleotide polymorphism (SNP) data into a national level electronic health record for disease risk assessment, part 1: An overview of requirements**  
Beyan T., AYDIN SON Y.  
Journal of Medical Internet Research, vol.16, no.7, 2014 (SCI-Expanded)
20. **Selection of representative SNP sets for genome-wide association studies: a metaheuristic approach**  
Ustunkar G., Akyüz S., Weber G. W., Friedrich C. M., Aydin Son Y.  
OPTIMIZATION LETTERS, vol.6, pp.1207-1218, 2012 (SCI-Expanded)
21. **The Oak Ridge Polycystic Kidney mouse: Modeling ciliopathies of mice and men**  
Jonathan M L., Edward J M., Trenton R S., Aydin Son Y., Michael M., Bradley K Y.  
DEVELOPMENTAL DYNAMICS, vol.237, no.8, pp.1960-1971, 2008 (SCI-Expanded)
22. **Gli2 and Gli3 localize to cilia and require the intra-flagellar transport protein polaris for processing and function**  
Haycraft C., Banizs B., Aydin-Son Y., Zhang Q., Michaud E., Yoder B.  
PLOS GENETICS, vol.1, no.4, pp.480-488, 2005 (SCI-Expanded)
23. **Balanced de novo translocation T(6;7)(p25;q31) and cleft palate as an isolated finding**  
Balci S., Aypar E., Son Y., Beksac M.  
GENETIC COUNSELING, vol.15, no.3, pp.317-320, 2004 (SCI-Expanded)
24. **Twenty-nail dystrophy in a mother and her 7-year-old daughter associated with balanced translocation 46, XX, t(6q13;10p13)**  
Balci S., Kanra G., Aypar E., Son Y.  
CLINICAL DYSMORPHOLOGY, vol.11, no.3, pp.171-173, 2002 (SCI-Expanded)
25. **A female patient with frontonasal dysplasia sequence and frontonasal encephalocele**  
Balci S., Mavili M., Son Y., Benli K., Erk Y.  
ANNALS OF PLASTIC SURGERY, vol.43, no.4, pp.457-459, 1999 (SCI-Expanded)

## Articles Published in Other Journals

1. **Health-Related Work Loss: Wellness Profiles of Information Technology Employees**  
Kuru H., Sakmar E., Aydin Son Y., Ince M. L.  
Pamukkale Spor Bilimleri Dergisi, vol.14, no.3, pp.258-278, 2023 (Scopus)
2. **2012 7th International Symposium on Health Informatics and Bioinformatics, HIBIT 2012: Preface**  
AYDIN SON Y., CAN T.  
2012 7th International Symposium on Health Informatics and Bioinformatics, HIBIT 2012, 2012 (Scopus)
3. **METU-SNP: an integrated software system for SNP-complex disease association analysis.**  
Ustunkar G., Aydin Son Y.  
Journal of integrative bioinformatics, vol.8, no.1, pp.187, 2011 (Scopus)

## Books & Book Chapters

1. **Dizi Karşılaştırmaları ve Dizi-Temelli Veri Tabanı Aramaları**  
AYDIN SON Y., TAŞKIN B.  
in: Uygulamalı Biyoenformatik, Münir Tunçer, Hilal Ay, Editor, Palme, pp.35-49, 2019
2. **Emerging Technologies in Health Information Systems: Genomics Driven Wellness Tracking and Management System (GO-WELL)**  
Beyan T., Aydın Son Y.  
in: Big Data and Internet of Things: A Roadmap for Smart Environments, N. Bessis and C. Dobre, Editor, Springer, London/Berlin, London, pp.315-339, 2014

## Refereed Congress / Symposium Publications in Proceedings

1. **Yüksek Ölçekli Dizileme sonuçlarının Biyoenformatik analizi ve teknik olarak yorumu**  
AYDIN SON Y.  
13. Tıbbi Genetik Kongresi, 7 - 11 November 2018
2. **From NGS to Protein Function: A workflow for evaluation of SNVs based on their impact on the protein function**  
Yazar Ö. F., Yazar Untekin B., AYDIN SON Y.  
11th International Conference on Health Informatics and Bioinformatics, October 2018, Belek, Antalya, Antalya, Turkey, 26 - 28 October 2018
3. **Türkiye’de Genetik ve Genomik Test Raporlamadaki Güncel Durum**  
ŞIK A. S., AYDIN SON Y., AYDINOĞLU A. U., SOYSAL E.  
STS TURKEY 2018 Toplum için Bilim ve Teknoloji Çalışmaları Konferansı, Ankara, Turkey, 10 - 11 September 2018
4. **Meme Kanserinde Terapötik Hedef Olarak Kullanılabilecek Özgül Metastaz Baskılayıcı MikroRNA’ların Tespiti**  
EKENEL E., ERGENE E., AYDIN SON Y.  
19. Ulusal, Uluslararası Katılımlı Biyoteknoloji Kongresi, Eskişehir, Turkey, 1 - 03 December 2017
5. **Structural Properties of Methylated Human Promoter Regions in Terms of DNA Helical Rise**  
YALDIZ B., AYDIN SON Y.  
HIBIT 2017, Güzelyurt, Cyprus (Kktc), 28 - 30 June 2017
6. **Lossless Pruning of AHP SNP Prioritization Tree Using Random Forest Variable Importances**  
YILMAZ A., AYDIN SON Y.  
HIBIT 2017, Güzelyurt, Cyprus (Kktc), 28 - 30 June 2017
7. **A Conceptual Design for Genetic Information Exchange Coding Standards in Turkey**  
ŞIK A. S., AYDIN SON Y., SOYSAL E., AYDINOĞLU A. U.  
HIBIT 2017, Güzelyurt, Cyprus (Kktc), 28 - 30 June 2017
8. **Genome-wide Analysis of Splice Acceptor Site Motifs**  
BAHÇE KARADUMAN G., AYDIN SON Y.  
HIBIT 2017, Güzelyurt, Cyprus (Kktc), 28 - 30 June 2017
9. **A Data Mining Approach for Directing the Patient to Appropriate Treatment Method in Pain Clinic**  
MİMAROĞLU ALTINAY B., AYDIN SON Y.  
HIBIT 2017, Güzelyurt, Cyprus (Kktc), 28 - 30 June 2017
10. **Participatory Design Meetings: Genetic Information Included Personal Health Record Application**  
ÖZKAN Ö., AYDIN SON Y., AYDINOĞLU A. U., YALÇIN A., DÖM H. A., YALDIZ B., NARCI K., BALOĞLU O.  
HIBIT 2017, Güzelyurt, Cyprus (Kktc), 28 - 30 June 2017
11. **A Feature Selection Model for Genome Wide Association Studies of Schizophrenia**  
DÖM H. A., AYDIN SON Y.  
HIBIT 2017, Güzelyurt, Cyprus (Kktc), 28 - 30 June 2017
12. **Changes in gene profile of human hepatocellular carcinoma cell line (HepG2) induced by boric acid**

**at half maximal inhibitory concentration (IC50).**

TOMBULOĞLU A., ÇÖPOĞLU H., GÜRAY N. T., AYDIN SON Y.

HIBIT 2017, Güzelyurt, Cyprus (Kktc), 28 - 30 June 2017

**13. Genomic Disease Modelling**

AYDIN SON Y.

9th International Symposium on Health Informatics and Bioinformatics HIBIT 2015, Muğla, Turkey, 16 - 17 October 2015

**14. Reconstruction of the Temporal Signaling Network in Salmonella Infected Human Cells**

güngör b., EREN ÖZSOY Ö., AYDIN SON Y., CAN T., nurcan t.

23rd Annual International Conference on Intelligent Systems for Molecular Biology and the 14th European Conference on Computational Biology (ISMBECCB'2015), Dublin, Ireland, 10 - 14 July 2015

**15. A Survey to Determine Security and Privacy Measures Needed for Genetic Information Exchange in Personal Health Records**

ÖZKAN Ö., ARSEV UMUR A., AYDIN SON Y.

5th International Workshop on Infrastructures on Healthcare, 18 - 19 June 2015

**16. A novel SVM-ID3 Hybrid Feature Selection Method to Build a Disease Model for Melanoma using Integrated Genotyping and Phenotype Data from dbGaP**

AYDIN SON Y., YÜCEBAŞ S. C.

25th European Medical Informatics Conference (MIE), İstanbul, Turkey, 31 August - 03 September 2014, vol.205, pp.501-505

**17. Predicting the Disease of Alzheimer With SNP Biomarkers and Clinical Data Using Data Mining Classification Approach: Decision Tree**

Erdogan O., AYDIN SON Y.

25th European Medical Informatics Conference (MIE), İstanbul, Turkey, 31 August - 03 September 2014, vol.205, pp.511-515

**18. rs10739592 is a New Candidate Loci for Type 2 Diabetes Risk in Men**

Gul H., AYDIN SON Y., Acikel C.

25th European Medical Informatics Conference (MIE), İstanbul, Turkey, 31 August - 03 September 2014, vol.205, pp.1268

**19. Use of open linked data in bioinformatics space: A case study**

Çelebi R., GÜMÜŞ Ö., AYDIN SON Y.

2013 8th International Symposium on Health Informatics and Bioinformatics, HIBIT 2013, Ankara, Turkey, 25 - 27 September 2013

**20. M4B: A novel method for designing and ordering of the genetic devices**

Hashemikhabir S., Ersoy G., Oguz G., Yaldiz B., Tuncel Y., Budak G., Karaaslan S., AYDIN SON Y., CAN T.

2012 7th International Symposium on Health Informatics and Bioinformatics, HIBIT 2012, Cappadocia, Turkey, 19 - 22 April 2012, pp.123-127

**21. iSNP: An integrated, automatically updated SNP database**

Çarkacıoğlu L., Gedikoğlu C., AYDIN SON Y.

2012 7th International Symposium on Health Informatics and Bioinformatics, HIBIT 2012, Cappadocia, Turkey, 19 - 22 April 2012, pp.114-117

**22. GWAS with AHP based SNP prioritization approach to identify SNP biomarkers for Alzheimer's disease**

Kadioğlu O., Üstünkar G., AYDIN SON Y.

2012 7th International Symposium on Health Informatics and Bioinformatics, HIBIT 2012, Cappadocia, Turkey, 19 - 22 April 2012, pp.7-10

**23. Building Dicer1 regulation network of mouse liver hepatocytes**

Ünsal Ş., Beyge M., AYDIN SON Y.

2012 7th International Symposium on Health Informatics and Bioinformatics, HIBIT 2012, Cappadocia, Turkey, 19 - 22 April 2012, pp.88-94

**24. Analysis of SNP-Complex Disease Association by a Novel Feature Selection Method**

Ustunkar G., AKYÜZ S., Weber G. -, AYDIN SON Y.

Annual International Conference of the German-Operations-Research-Society (GOR), Neubiberg, Germany, 1 - 03 September 2010, pp.21-26

## Other Publications

### 1. Security and Privacy Concerns Regarding Genetic Data in Mobile Health Record Systems: An Empirical Study from Turkey

Özkan Ö., Aydın Son Y., Aydinoğlu A. U.

Other, pp.1-17, 2019

## Academic and Administrative Experience

2023 - Continues	<b>Applied Research Center Board Member</b>	Middle East Technical University, Presidency Office, NÖROM
2012 - Continues	<b>Head of Department</b>	Middle East Technical University, Graduate School of Informatics, Medical Informatics
2010 - 2012	<b>Institute Board Member</b>	Middle East Technical University, Graduate School of Informatics, Medical Informatics
2010 - 2012	<b>Program Coordinator</b>	Middle East Technical University, Graduate School of Informatics, Medical Informatics

## Courses

Introduction to Medical Informatics, Postgraduate, 2020 - 2021

Next Generation Sequence Analysis, Postgraduate, 2019 - 2020

MICROARRAY DATA ANALYSIS AND INFORMATICS, Doctorate, 2018 - 2019

CLINICAL BIOINFORMATICS, Postgraduate, 2018 - 2019, 2017 - 2018

PROTEIN AND DNA SEQUENCE ANALYSIS, Postgraduate, 2017 - 2018

Futures Studies in Healthcare, Postgraduate, 2015 - 2016

## Advising Theses

Aydın Son Y., BORIC ACID INDUCED TRANSCRIPTOMIC CHANGES IN HEPG2 CELL LINE AT GROWTH INHIBITORY CONCENTRATIONS, Doctorate, A.TOMBULOĞLU(Student), 2023

Aydın Son Y., Tunçbağ N., A COMPREHENSIVE ANALYSIS OF MUTATIONS IN CANCERS AND NEURODEVELOPMENTAL DISORDERS, Doctorate, B.RUKEN(Student), 2023

Aydın Son Y., Comparative analysis of brain cell cultures and tissues in alzheimer's disease based on differential expression and gene set enrichment, Postgraduate, H.CAHİT(Student), 2023

Aydın Son Y., Gökçay D., Quantification of bradykinesia in parkinson's disease by using facial images and emg recordings, Doctorate, S.CAN(Student), 2023

Aydın Son Y., Integrative predictive modeling of metastasis in melanoma cancer, Doctorate, A.KUTLAY(Student), 2022

Aydın Son Y., Ezgü F. S., Utility of resequencing and reanalysis for unsolved rare diseases, Postgraduate, Ö.FARUK(Student), 2022

Aydın Son Y., Son Ç. D., Fluorescent labeling of SPOCK1 and localization studies in live neural cell lines, Postgraduate,

Z.EDA(Student), 2022

Aydin Son Y., MFDM: MRI free decision model for diagnosis and treatment selection in patients with low back and neck pain, Doctorate, B.MİMAROĞLU(Student), 2022

Aydin Son Y., Comparison of Entropy and Ensemble-based feature selection through network analysis of Alzheimers disease-associated variants, Postgraduate, S.RAFATOV(Student), 2022

Aydin Son Y., Doğan T., Artificial learning-based analysis of molecular, clinical trials and patent data for improved drug development, Doctorate, F.ÇIRAY(Student), 2022

Aydin Son Y., Implementation of krona into QIIME 2, Postgraduate, K.BÜYÜKALTAY(Student), 2022

Aydin Son Y., Laleci Ertürkmen G. B., Implementation of A patient empowerment platform for integrated care, Postgraduate, B.SARIGÜL(Student), 2022

Aydin Son Y., Predicting multiple types of biological relationships with integrative non-negative matrix factorization, Postgraduate, O.SAVAŞ(Student), 2022

Aydin Son Y., Integration of machine learning and entropy methods for post-genome-wide association studies analysis, Doctorate, B.YALDIZ(Student), 2022

AYDIN SON Y., Identification of cellular stress related biomolecules for eventual use in targeted therapies of hepatocellular carcinoma, Doctorate, D.GÖZEN(Student), 2021

AYDIN SON Y., Systems biology analysis of kinase inhibitors in liver cancer cells using next generation sequencing data, Doctorate, K.NARCI(Student), 2021

Aydin Son Y., GENOME-WIDE SEQUENCE ANALYSIS OF HUMAN SPLICE ACCEPTOR REGIONS FOR MOTIF DISCOVERY, Doctorate, G.KARADUMAN(Student), 2020

Ergene E., Aydin Son Y., Identification and investigation of metastasis specific miRNAs in breast cancer cells for miRNA replacement therapy, Doctorate, E.EKENEL(Student), 2019

AYDIN SON Y., Optimization of weights and features in use of ahp for SNP prioritization, Doctorate, A.YILMAZ(Student), 2018

AYDIN SON Y., AYDINOĞLU A. U., Essential design components of genetic data enabled mobile personal health record systems, Doctorate, Ö.ÖZKAN(Student), 2018

AYDIN SON Y., Genomic modelling of bipolar disorders: Comparison of multifactor dimension reduction and classification-based data mining methods, Doctorate, C.AÇIKEL(Student), 2017

GÜRAY N. T., AYDIN SON Y., Investigation of the in vitro cytotoxic effects of boron on human hepatocellular carcinoma cell line, HepG2, Postgraduate, H.ÇÖPOĞLU(Student), 2017

AYDIN SON Y., Investigating the role of RNA-binding proteins (RBPs) in explaining differential gene expression in cancer, Postgraduate, A.LAFZI(Student), 2016

AYDIN SON Y., TUNÇBAĞ N., Reconstruction of the temporal signaling network in salmonella infected human cells, Postgraduate, G.BUDAK(Student), 2016

CAN T., AYDIN SON Y., A multi-layered graphical model of the relation among SNPs, genes, and pathways based on subgraph search, Postgraduate, G.ERSOY(Student), 2015

AYDIN SON Y., Modeling the combined effect of RNA-binding proteins and micrnas in post-transcriptional regulation, Postgraduate, S.HAFEZQORANI(Student), 2015

AYDIN SON Y., Integration of metu-snp databases via rdf for pi-snp web service, Postgraduate, C.GEDİKOĞLU(Student), 2014

AYDIN SON Y., Single nucleotide polymorphism (SNP) data integrated electronic health record (EHR) for personalized medicine, Doctorate, T.Beyan(Student), 2014

AYDIN SON Y., ACAR A. C., Cytokine polymorphism catalog (CytoCAT) for the analysis of phenotype associations, Postgraduate, G.OĞUZ(Student), 2014

AYDIN SON Y., Son Y., Integration of METU-SNP databases via RDF for PI\_SNP web service, Postgraduate, C.Gedikoglu(Student), 2014

AYDIN SON Y., Investigation of structural properties of methylated human promoter regions in terms of DNA helical rise, Postgraduate, B.YALDIZ(Student), 2014

AYDIN SON Y., Single nucleotide polymorphism (SNP) data integrated electronic health record (EHR) for personalized medicine, Doctorate, T.BEYAN(Student), 2014

AYDIN SON Y., A predictive model for type 2 diabetes mellitus based on genomic and phenotypic risk factors, Doctorate,



H.GÜL(Student), 2014

AYDIN SON Y., Investigation of schizophrenia related genes and pathways through genome wide association studies, Postgraduate, H.ALPER(Student), 2013

AYDIN SON Y., BAYKAL N., A hybrid feature selection model for genome wide association studies, Doctorate, S.CAN(Student), 2013

AYDIN SON Y., Son Y., A Method to improve the communication between information technology and healthcare professionals during mobile healthcare application development, Postgraduate, Y.Nasuh(Student), 2013

CAN T., AYDIN SON Y., A framework for gene co-expression network analysis of lung cancer, Postgraduate, E.AKDEMİR(Student), 2013

AYDIN SON Y., Investigation of human promoter CpG content and methylation profiles at different conservation levels, Postgraduate, B.DEMİRALAY(Student), 2012

AYDIN SON Y., Predicting the disease of alzheimer (AD) with SNP biomarkers and clinical data based decision support system using data mining classification approaches, Postgraduate, O.ERDOĞAN(Student), 2012

AYDIN SON Y., An integrative approach to structured SNP prioritization and representative snp selection for genome-wide association studies, Doctorate, G.ÜSTÜNKAR(Student), 2011

AYDIN SON Y., Determination of performance parameters for AHP based single nucleotide polymorphism (SNP) prioritization approach on Alzheimer's disease data, Postgraduate, O.Kadioğlu(Student), 2011

AYDIN SON Y., Determination of performance parameters for AHP based single nucleotide polymorphism (SNP) prioritization approach on alzheimers's disease data, Postgraduate, O.KADIOĞLU(Student), 2011

## Memberships / Tasks in Scientific Organizations

Alzheimer's Association International Society to Advance Alzheimer's Research and Treatment (ISTAART), Member, 2023 - Continues, United States Of America

Türkiye Sağlık Enstitüleri Başkanlığı (TÜSEB), Member of Science Committee, 2022 - Continues, Turkey

Tıp Bilişimi Derneği, Board Member, 2012 - 2023, Turkey

Tıp Bilişimi Derneği, Secretary General, 2012 - 2014

## Scientific Consultations

TÜSEB, Scientific Consultancy, Middle East Technical University, Graduate School of Informatics, Medical Informatics, Turkey, 2016 - 2018

AKGÜN, Project Consultancy, Middle East Technical University, Graduate School of Informatics, Medical Informatics, Turkey, 2014 - 2016

## Tasks In Event Organizations

Aydın Son Y., Karahan A., Otlu Sarıtaş B., TOHUMCU B. E., 15 th International Symposium on Health Informatics and Bioinformatics, Scientific Congress, Mersin, Turkey, Ekim 2022

## Metrics

Publication: 55

Citation (WoS): 924

Citation (Scopus): 994

H-Index (WoS): 7

H-Index (Scopus): 10

## Non Academic Experience

City of Hope National Medical Center, Duarte,CA

University of Tennessee, Knoxville

Hacettepe University Faculty of Medicine