

## Res. Asst. SERBÜLENT ÜNSAL

### Personal Information

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### Education Information

Doctorate, Middle East Technical University, Graduate School Of Informatics, Tıp Bilişimi, Turkey 2014 - Continues

Postgraduate, Middle East Technical University, Graduate School Of Informatics, Tıp Bilişimi, Turkey 2010 - 2014

Undergraduate, Karadeniz Technical University, Fen Edebiyat, İstatistik Ve Bilgisayar Bilimleri, Turkey 2000 - 2007

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Postgraduate, Multiscale Tumor Modeling, Middle East Technical University, Enformatik Enstitüsü, Tıp Bilişimi, 2014

### Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences, Biostatistics and Medical Informatics

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

- I. **A prospective study for gestational diabetes mellitus: Analysis of risk factors in Turkish women for early prediction**  
KURT B., Gurlek B., Keskin S., Kurt T., Kirkbir I. B., KART C., ÖZDEMİR S., Baki N., ÜNSAL S., TURHAN K.  
INTERNATIONAL JOURNAL OF GYNECOLOGY & OBSTETRICS, vol.161, no.2, pp.525-535, 2023 (SCI-Expanded)
- II. **Learning functional properties of proteins with language models**  
Unsal S., Atas H., Albayrak M., Turhan K., Acar A. C., Doğan T.  
NATURE MACHINE INTELLIGENCE, vol.4, no.3, pp.227-245, 2022 (SCI-Expanded)
- III. **DISCOVERY OF METHYLATION BASED IMMUNE-ESCAPE MECHANISMS IN RARE CANCERS**  
TURHAN K., ÜNSAL S., Kasap B., ZİHNİ N. B., AYDIN KASAP Z., ACAR A. C.  
TURKISH JOURNAL OF BIOCHEMISTRY-TÜRK BIYOKIMYA DERGISI, no.44, pp.30-31, 2019 (SCI-Expanded)

### Articles Published in Other Journals

- I. **On the Human Vomeronasal Organ: A Preliminary Study of Radiology and Bioinformatics**  
Salihoglu A. K., Ünsal S., Aydoğan C., Celep M., Teymur A., Sarı A., Ayar A.

Anatomy: An International Journal of Experimental and Clinical Anatomy, vol.13, pp.40-41, 2019 (Peer-Reviewed Journal)

**II. Developing Questionnaires as a Tool of Collecting Information for Program Evaluation in Medical Education**

TURHAN K., KURT B., YAZAĞAN A., TOPRAK U., ÜNSAL S.

Journal of Medical Education and Informatics, vol.3, no.2, pp.11-19, 2017 (Peer-Reviewed Journal)

**Papers Published in Refereed Scientific Meetings**

- I. **Bir Hastane Bilgi Sistemi Çağrı Merkezine Gelen İsteklerin Türkiye'deki Hastane Bilgi Sistemi Profili Açısından Analizi**  
TURHAN K., KALAYCI N., ÜNSAL S., KAYIKÇI V.  
3. Ulusal Tıp Bilişimi Kongresi, Antalya, Turkey, pp.19
- II. **Sağlık Alanında WEB Servisleri ve Bir Uygulama**  
TURHAN K., ŞENEL Y., ÜNSAL S.  
Tıp Bilişimi 2005, Antalya, Turkey, pp.96
- III. **Ardahan Propolis Etanol Ekstraktının Herpes Simpleks Virüs Tip 1 Üzerine Antiviral Etkisinin Araştırılması**  
CORA M., KAKLIKKAYA N., KOLAYLI S., BURUK C. K., ÜNSAL S., AYDIN F.  
Uluslararası 38. Türk Mikrobiyoloji Kongresi, Antalya, Turkey, 4 - 08 November 2018, pp.241
- IV. **Music, Genetics and Bioinformatics: An Introductory Review**  
TURHAN K., ÜNSAL S., KURT B.  
The International Symposium on Health Informatics and Bioinformatics 2018, 25 - 27 October 2018, pp.96
- V. **A Clinical Bioinformatics Data Analysis Pipeline Example**  
ŞILBİR G. M. Ç., ÜNSAL S., ÇEBİ A. H., TURHAN K.  
The International Symposium on Health Informatics and Bioinformatics 2018, Turkey, 25 - 27 October 2018
- VI. **PLANNING OF COURSE CONTENTS, LEARNING OUTCOMES AND COURSE PROGRAM ONCORE COMPETENCIES IN BIOINFORMATICS PhD DEGREE EDUCATION**  
TURHAN K., KURT B., ÜNSAL S., ŞILBİR G. M. Ç.  
The International Symposium on Health Informatics and Bioinformatics 2018, Turkey, 25 - 27 October 2018, pp.56
- VII. **"Tıp Fakültesi Öğrencilerinin Öğrenme Stillerinin Belirlenmesi: Kapsamlı bir Yapısal Eşitlik Modellemesi için Ön Çalışma"**  
TURHAN K., KURT B., AYDIN KASAP Z., ÜNSAL S., MOLLAHASANOĞLU E., KALAYCI E., ÇAKMAK ŞILBİR M. G., BAYKAL Y., YÜRÜYEN M., PAK A., et al.  
XX. Ulusal ve III. Uluslararası Biyoistatistik Kongresi, Gaziantep, Turkey, 26 October - 29 November 2018, pp.20
- VIII. **Kalıtısal nonsendromik yarık dudak/damak hastalığında genetik etiyolojinin araştırılması**  
TORAMAN B., LİVAOĞLU M., DİNÇER T., BUDAK G., NALKIRAN İ., ÜNSAL S., YILDIZ G., AKARSU A. N., KALAY E.  
XV. Ulusal Tıbbi Biyoloji ve Genetik Kongresi, Muğla, Turkey, 26 - 29 October 2017
- IX. **Radyoterapi Yanıtındaki Değişimleri Etkileyen İnsan Genlerinin Model Organizmalar Yardımıyla Çıkarımı**  
KURT B., ÜNSAL Ü., ÜNSAL S., TURHAN K.  
Uluslararası Katılımlı 10. Tıp Bilişimi Kongresi, Antalya, Turkey, 13 - 15 October 2017
- X. **Mathematical Modelling of Chemotherapy for Non-Small Cell Lung Cancer**  
İTİK M., ÜNSAL S., ZİHNİ N. B., TURHAN K.  
Sixth RECOMB Satellite Workshop on Computational Cancer Biology (RECOMB-CCB), Los Angeles, United States Of America, 28 - 29 July 2017
- XI. **A framework for applying bioinformatics analysis of drug resistance to mathematical tumor models**  
ÜNSAL S., ACAR A. C., İTİK M., KURT B., ÜNSAL Ü., TURHAN K.  
NGS Tech Applications Congress 2017, United States Of America, 25 - 26 July 2017
- XII. **A Method for Exploring Roots of Radiation Resistance in Cancer**

TURHAN K., KURT B., ÜNSAL S., İTİK M., ÜNSAL Ü.

NGS&Clinical Applications, Philadelphia, United States Of America, 25 - 29 July 2017

- XIII. **Survival and Enrichment Analyzes of Cisplatin-Based Drug Resistance-Related Genes for Non-Small Cell Lung Cancer**  
KURT B., ÜNSAL S., BUÇAN KIRKBİR İ., TURHAN K.  
10th International Symposium on Health Informatics and Bioinformatics, Cyprus (Kktc), 28 - 30 June 2017
- XIV. **A Method Proposal for Revealing Epigenetic Immune-Escape Mechanisms Using 450k Methylation Array Data**  
KASAP B., ÜNSAL S., AYDIN KASAP Z., ACAR A. C., TURHAN K.  
10. International Symposium on Health Informatics and Bioinformatics (HIBIT), Güzelyurt, Cyprus (Kktc), 28 - 30 June 2017, pp.12
- XV. **Comparing Survival Times of Lung Squamous Cell Carcinoma Patients from Combined RNA-seq and Methylation Data by Estimating Risk Groups**  
TOPRAK U., ÜNSAL S., TURHAN K.  
HIBIT 2017 KIBRIS, 28 - 30 June 2017
- XVI. **Küçük Hücreli Dışı Akciğer Kanseri için Cisplatin Tabanlı İlaç Direnci ile İlişkili Genlerin Yaşam Analizleri**  
TURHAN K., KURT B., ÜNSAL S.  
Tıp Bilişiminde Yenilikler Sempozyumu, 2017, Ankara, Turkey, 25 March 2017
- XVII. **Kişiselleştirilmiş Tıp Uygulamaları ve Bir Örnek**  
ÜNSAL S., ACAR A. C., İTİK M., KABATAŞ A., GEDİKLİ Ö., TURHAN K.  
Tıp Bilişiminde Yenilikler Sempozyumu, Turkey, 25 March 2017
- XVIII. **Effects of Methylation Data Normalization Methods on Perturbated Pathway**  
TURHAN K., ÜNSAL S., ACAR A. C.  
18th National and 1st International Boistatistics Congress, 22 - 26 October 2016
- XIX. **Discovery of Tumor Immune Escape Pathways in Non-Small Cell Lung Cancer Using Abberant DNA**  
AYDIN KASAP Z., ÜNSAL S., KASAP B., ACAR A. C., TURHAN K.  
18. Ulusal Biyoistatistik Kongresi ve 1. Uluslararası Biyoistatistik Kongresi, Antalya, Turkey, 26 - 29 October 2016, pp.42
- XX. **Discovery of Tumor Immune Escape Pathways in Non-Small Cell Lung Cancer Using Abberant DNA Methylation Patterns With Signaling Pathway Impact Analysis**  
AYDIN KASAP Z., ÜNSAL S., KASAP B., ACAR A. C., TURHAN K.  
18. Ulusal Biyoistatistik Kongresi ve 1. Uluslararası Biyoistatistik Kongresi, Antalya, Turkey, 26 - 29 October 2016, pp.11-12
- XXI. **Effects of Methylation Data Normalization Methods on Perturbated Pathway Discovery**  
TURHAN K., ÜNSAL S., ACAR A. C.  
18th National and 1st International Boistatistics Congress, Antalya, Turkey, 26 - 29 October 2016, pp.32
- XXII. **Prediction of Prognosis After Radiotherapy in Non-Small Cell Lung Carcinoma Using SVM**  
ÜNSAL S., Çakmak I., HACIİSLAMOĞLU E., Demir A., YÖNEY A., TURHAN K.  
18th National and 1st International Boistatistics Congress, Antalya, Turkey, 26 October - 29 December 2016, pp.29
- XXIII. **Inferring Ancestral History of Somatic Mutations with Bayesian Networks**  
TOPRAK U., ÜNSAL S., TURHAN K.  
9th International Symposium on Health Informatics and Bioinformatics HIBIT 2015, Muğla, Turkey, 16 - 17 October 2015, pp.34-35
- XXIV. **A DNA Methylation Analysis Pipeline Example**  
ÜNSAL S., ACAR A. C., TURHAN K.  
9th International Symposium on Health Informatics and Bioinformatics HIBIT 2015, Muğla, Turkey, 16 - 17 October 2015, pp.29
- XXV. **A Personalized Tumor Modeling Framework**  
ÜNSAL S., ACAR A. C., İTİK M., KABATAŞ A., GEDİKLİ Ö., TURHAN K.  
9th International Symposium on Health Informatics and Bioinformatics HIBIT 2015, Muğla, Turkey, 16 - 17 October

2015, pp.30

**XXVI. Building Bayesian Networks with Statistical Inference to Model Temporal Order and Dependencies of Somatic Mutations**

TOPRAK U., ÜNSAL S., TURHAN K.

3rd International Work-Conference on Bioinformatics and Biomedical Engineering, Granada, Nicaragua, 15 - 17

April 2015, pp.45

**XXVII. TACIT KNOWLEDGE EXTRACTION FOR SOFTWARE REQUIREMENT SPECIFICATION (SRS): A PROPOSAL OF RESEARCH METHODOLOGY DESIGN AND EXECUTION FOR KNOWLEDGE VISUALIZATION**

MEDENİ T. D., ÜNSAL S., AYAS M., MEDENİ İ. T.

55th Annual Meeting of the International Society for the Systems Sciences, 17 - 22 July 2011

**XXVIII. Computer Supported Clinically Oriented Reasoning Exam Management System with Client/Server Architecture : COREBuilder**

TURHAN K., ÜNSAL S., KALAYCI N., KAYIKÇI V., UZUN YAYLACI E.

Proc. IV. International Conference on Multimedia and Information and Communication Technologies in Education, Sevilla, Spain, 22 - 25 November 2006, pp.1203-1207

## **Metrics**

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