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Education Information

Post Doctorate, University of Nebraska-Lincoln, College Of Engineering, Electrical Engineering, United States Of America
2011 - 2013

Doctorate, University of Nebraska-Lincoln, College Of Engineering, Electrical Engineering, United States Of America 2004
- 2011

Undergraduate, Bogazici University, Faculty Of Engineering, Elektrik Elektronik Müh., Turkey 2000 - 2004

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, COMPUTATIONAL GENOMIC SIGNATURES AND METAGENOMICS, University Of Nebraska-Lincoln, College Of Engineering, Electrical Engineering, 2011

Research Areas

Technical Sciences, Computer Sciences, bioinformatics, Artificial Intelligence, Computer Learning and Pattern Recognition, Knowledge Engineering, Computer Learning

Academic Titles / Tasks

Assistant Professor, Erciyes University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2018 - Continues

Assistant Professor, Erciyes University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2014 - 2018

Assistant Professor, University of Nebraska-Lincoln, College Of Engineering, Electrical Engineering, 2012 - 2013

Research Assistant PhD, University of Nebraska-Lincoln, College Of Engineering, Electrical Engineering, 2011 - 2012

Lecturer, University of Nebraska-Lincoln, College Of Engineering, Electrical Engineering, 2011 - 2011

Research Assistant, University of Nebraska-Lincoln, College Of Engineering, Electrical Engineering, 2005 - 2010

Academic and Administrative Experience

Erciyes University, 2015 - Continues

Advising Theses

NALBANTOĞLU Ö. U., Classification of Genomic Sequences by Latent Semantic Analysis, Postgraduate, S.F.(Student), 2012

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A Shotgun Metagenomics Investigation into Labeling Inaccuracies in Widely Sold Probiotic Supplements in the USA**
GÜNDOĞDU A., Karis G., Killpartrick A., ULU KILIÇ A., NALBANTOĞLU Ö. U.
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- II. **A Multicenter Randomized Controlled Trial Of Microbiome-Based Artificial Intelligence-Assisted Personalized Diet Vs Low Fodmap Diet: A Novel Approach for the Management of Irritable Bowel Syndrome**
Tunalı V., Arslan N. Ç., Ermiş B. H., Derviş Hakim G., Gündoğdu A., Hora M., Nalbantoğlu Ö. U.
AMERICAN JOURNAL OF GASTROENTEROLOGY, pp.1-31, 2024 (SCI-Expanded)
- III. **DeepGum: Deep feature transfer for gut microbiome analysis using bottleneck models**
Çiftcioğlu U. G. E., Nalbanoglu Ö. U.
BIOMEDICAL SIGNAL PROCESSING AND CONTROL, vol.91, 2024 (SCI-Expanded)
- IV. **A Comparative Analysis of Deep Learning-Based Approaches for Classifying Dental Implants Decision Support System**
Lubbad M. A. H., LEBLEBİCİOĞLU KURTULUŞ İ., KARABOĞA D., KILIÇ K., BAŞTÜRK A., AKAY B., NALBANTOĞLU Ö. U., Yilmaz O. M. D., AYATA M., YILMAZ S., et al.
JOURNAL OF IMAGING INFORMATICS IN MEDICINE, 2024 (SCI-Expanded)
- V. **Machine learning applications in detection and diagnosis of urology cancers: a systematic literature review**
Lubbad M., KARABOĞA D., BAŞTÜRK A., AKAY B., Nalbantoglu U., Pacal I.
NEURAL COMPUTING & APPLICATIONS, vol.36, no.12, pp.6355-6379, 2024 (SCI-Expanded)
- VI. **A self-supervised learning model based on variational autoencoder for limited-sample mammogram classification**
KARAGÖZ M. A., NALBANTOĞLU Ö. U.
Applied Intelligence, vol.54, no.4, pp.3448-3463, 2024 (SCI-Expanded)
- VII. **A robust deep learning model for the classification of dental implant brands**
LEBLEBİCİOĞLU KURTULUŞ İ., Lubbad M., Yilmaz O. M. D., KILIÇ K., KARABOĞA D., BAŞTÜRK A., AKAY B., Nalbantoglu U., Yilmaz S., Ayata M., et al.
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- VIII. **Metaproteogenomic analysis of saliva samples from Parkinson's disease patients with cognitive impairment**
ARIKAN M., Demir T. K., Yıldız Z., NALBANTOĞLU Ö. U., Korkmaz N. D., YILMAZ N. C., Şen A., Özcan M., Muth T., HANOĞLU L., et al.
npj Biofilms and Microbiomes, vol.9, no.1, 2023 (SCI-Expanded)
- IX. **A comparative study of YOLO models and a transformer-based YOLOv5 model for mass detection in mammograms**
COŞKUN D., KARABOĞA D., BAŞTÜRK A., AKAY B., NALBANTOĞLU Ö. U., DOĞAN S., Paçal İ., KARAGÖZ M. A.
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- X. **The role of the Mediterranean diet in modulating the gut microbiome: A review of current evidence**
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- XI. **Robust real-time polyp detection system design based on YOLO algorithms by optimizing activation functions and hyper-parameters with artificial bee colony (ABC)**
Karaman A., Pacal I., BAŞTÜRK A., AKAY B., Nalbantoglu U., Coskun S., ŞAHİN Ö., KARABOĞA D.
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- XII. **Culture-independent assessment of probiotic supplement consistency in commercially available probiotic supplements**
GÜNDOĞDU A., NALBANTOĞLU Ö. U., Sarikaya I., Karis G., Erdogan M. N., Hora M., Tunali V.
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- XIII. **Hyper-parameter optimization of deep learning architectures using artificial bee colony (ABC) algorithm for high performance real-time automatic colorectal cancer (CRC) polyp detection**
Karaman A., KARABOĞA D., Pacal I., AKAY B., BAŞTÜRK A., Nalbantoglu U., Coskun S., ŞAHİN Ö.
APPLIED INTELLIGENCE, vol.53, no.12, pp.15603-15620, 2023 (SCI-Expanded)
- XIV. **Potential associations between alterations in gut microbiome and obesity-related traits after the bariatric surgery**
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Al F., BÜYÜKTUNCER DEMİREL Z.
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- XV. **An unsupervised transfer learning model based on convolutional auto encoder for non-alcoholic steatohepatitis activity scoring and fibrosis staging of liver histopathological images**
KARAGÖZ M. A., AKAY B., BAŞTÜRK A., KARABOĞA D., NALBANTOĞLU Ö. U.
Neural Computing and Applications, vol.35, no.14, pp.10605-10619, 2023 (SCI-Expanded)
- XVI. **Efficacy of AI-Assisted Personalized Microbiome Modulation by Diet in Functional Constipation: A Randomized Controlled Trial**
Arslan N. Ç., GÜNDOĞDU A., Tunali V., Topgül O. H., Beyazgül D., NALBANTOĞLU Ö. U.
Journal of Clinical Medicine, vol.11, no.22, 2022 (SCI-Expanded)
- XVII. **Artificial intelligence-based personalized diet: A pilot clinical study for irritable bowel syndrome**
Karkan T., Gündoğdu A., Alagözlü H., Ekmen N., Özgül S., Tunali V., Hora M., Beyazgül D., Nalbantoğlu Ö. U.
GUT MICROBES, vol.14, no.1, pp.1-13, 2022 (SCI-Expanded)
- XVIII. **Acromegaly is associated with a distinct oral and gut microbiota**
Sahin S., GÜNDOĞDU A., NALBANTOĞLU Ö. U., KADIOĞLU P., ÖZDAMAR KARACA Z. C., HACIOĞLU A., URHAN M. E.,
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- XIX. **Inflammatory bowel disease biomarkers of human gut microbiota selected via different feature selection methods**
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- XX. **A new lightweight convolutional neural network for radiation-induced liver disease classification**
Alici-Karaca D., Akay B., Yay A. H., Suna P., Nalbantoğlu Ö. U., Karaboğa D., Baştürk A., Balcıoğlu E., Baran M.
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- XXI. **An efficient real-time colonic polyp detection with YOLO algorithms trained by using negative samples and large datasets**
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- XXII. **Novel alterations of CC2D1A as a candidate gene in a Turkish sample of patients with autism spectrum disorder**
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- XXIII. **Stratification of the Gut Microbiota Composition Landscape across the Alzheimer's Disease Continuum in a Turkish Cohort**
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- XXIV. **Temporal overexpression of IL-22 and Reg3 gamma differentially impacts the severity of experimental autoimmune encephalomyelitis**
Eken A., Erdem S., Haliloglu Y., Okus F. Z., Cakir M., Yetkin M. F., Akcakoyunlu M., Karayigit M. O., Azizoglu Z. B., Bicer A., et al.
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- XXV. **Gut microbiota in patients with newly diagnosed acromegaly: a pilot cross-sectional study**
HACIOĞLU A., GÜNDOĞDU A., Nalbantoglu U., Karaca Z. C., URHAN M. E., Sahin S., Dokmetas H. S., KADIOĞLU P., Kelestimur F.
PITUITARY, vol.24, no.4, pp.600-610, 2021 (SCI-Expanded)
- XXVI. **Discovering Potential Taxonomic Biomarkers of Type 2 Diabetes From Human Gut Microbiota via Different Feature Selection Methods**
Bakir-Gungor B., Bulut O., Jabeer A., NALBANTOĞLU Ö. U., Yousef M.
FRONTIERS IN MICROBIOLOGY, vol.12, 2021 (SCI-Expanded)
- XXVII. **MicroRNA profiling identifies Forkhead box transcription factor M1 (FOXM1) regulated miR-186 and miR-200b alterations in triple negative breast cancer**
Hamurcu Z., Sener E. F., Taheri S., Nalbantoglu U., Kokcu N. D., Tahtasakal R., Cinar V., Guler A., Ozkul Y., Dönmez-Altuntas H., et al.
CELLULAR SIGNALLING, vol.83, 2021 (SCI-Expanded)
- XXVIII. **Taxonomic classification of metagenomic sequences from Relative Abundance Index profiles using deep learning**
KARAGÖZ M. A., NALBANTOĞLU Ö. U.
Biomedical Signal Processing and Control, vol.67, 2021 (SCI-Expanded)
- XXIX. **Potential associations between alterations in gut microbiome and obesity-related traits after the bariatric surgery**
Özdemir A., Yozgat A., Işgın Atıcı K., Avcı E., Yıldız B. D., Gündoğdu A., Nalbantoğlu Ö. U., Turhan T., Büyüktuncer Demirel Z.
Proceedings Of The Nutrition Society, vol.80, pp.29-30, 2021 (SCI-Expanded)
- XXX. **Arsenic and selenium measurements in nail and hair show important relationships to Alzheimer's disease in the elderly**
KÖSEOĞLU E., KÜTÜK B., NALBANTOĞLU Ö. U., KÖSEOĞLU R., KENDİRCİ M.
JOURNAL OF TRACE ELEMENTS IN MEDICINE AND BIOLOGY, vol.64, 2021 (SCI-Expanded)
- XXXI. **Information Theoretic Metagenome Assembly Allows the Discovery of Disease Biomarkers in Human Microbiome**
NALBANTOĞLU Ö. U.
ENTROPY, vol.23, no.2, 2021 (SCI-Expanded)
- XXXII. **A comprehensive review of deep learning in colon cancer**
Pacal I., KARABOĞA D., BAŞTÜRK A., AKAY B., Nalbantoglu U.
COMPUTERS IN BIOLOGY AND MEDICINE, vol.126, 2020 (SCI-Expanded)
- XXXIII. **COVID-19 Pandemic: Group Testing**
Nalbantoğlu Ö. U., Gündoğdu A.
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- XXXIV. **Group testing performance evaluation for SARS-CoV-2 massive scale screening and testing**
NALBANTOĞLU Ö. U.
BMC MEDICAL RESEARCH METHODOLOGY, vol.20, no.1, 2020 (SCI-Expanded)
- XXXV. **FOXM1 plays a role in autophagy by transcriptionally regulating Beclin-1 and LC3 genes in human triple-negative breast cancer cells**
Hamurcu Z., Delibaşı N., Nalbantoglu U., Şener E. F., Nurdinov N., Taşçı B., Taheri S., Özkul Y., Donmez-Altuntas H., Canatan H., et al.
JOURNAL OF MOLECULAR MEDICINE-JMM, vol.97, no.4, pp.491-508, 2019 (SCI-Expanded)
- XXXVI. **The first report of mobile colistin resistance gene (mcr-1) carrying Escherichia coli in Turkey**

- KUREKCI C., AYDIN M., NALBANTOĞLU Ö. U., GÜNDOĞDU A.
JOURNAL OF GLOBAL ANTIMICROBIAL RESISTANCE, vol.16, 2018 (SCI-Expanded)
- XXXVII. **Human genome-microbiome interaction: metagenomics frontiers for the aetiopathology of autoimmune diseases**
GÜNDOĞDU A., Nalbantoglu U.
MICROBIAL GENOMICS, vol.3, no.4, 2017 (SCI-Expanded)
- XXXVIII. **Reclassification of Wolbachia persica as Francisella persica comb. nov and emended description of the family Francisellaceae**
LARSON M. A., Nalbantoglu U., Sayood K., ZENTZ E. B., CER R. Z., Iwen P. C., Francesconi S. C., BISHOP-LILLY K. A., MOKASHI V. P., Sjostedt A., et al.
INTERNATIONAL JOURNAL OF SYSTEMATIC AND EVOLUTIONARY MICROBIOLOGY, vol.66, pp.1200-1205, 2016 (SCI-Expanded)
- XXXIX. **Francisella tularensis Subtype A.II Genomic Plasticity in Comparison with Subtype A.I**
LARSON M. A., Nalbantoglu U., Sayood K., ZENTZ E. B., BARTLING A. M., Francesconi S. C., Fey P. D., Dempsey M. P., Hinrichs S. H.
PLOS ONE, vol.10, no.4, 2015 (SCI-Expanded)
- XL. **Metagenomic analysis of the microbial community in kefir grains**
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FOOD MICROBIOLOGY, vol.41, pp.42-51, 2014 (SCI-Expanded)
- XLI. **RAIphy: Phylogenetic classification of metagenomics samples using iterative refinement of relative abundance index profiles**
Nalbantoglu O. U., Way S. F., Hinrichs S. H., Sayood K.
BMC BIOINFORMATICS, vol.12, 2011 (SCI-Expanded)
- XLII. **Large Direct Repeats Flank Genomic Rearrangements between a New Clinical Isolate of Francisella tularensis subsp tularensis A1 and Schu S4**
Nalbantoglu U., Sayood K., Dempsey M. P., Iwen P. C., Francesconi S. C., Barabote R. D., Xie G., Brettin T. S., Hinrichs S. H., Fey P. D.
PLOS ONE, vol.5, no.2, 2010 (SCI-Expanded)
- XLIII. **Data Compression Concepts and Algorithms and Their Applications to Bioinformatics**
Nalbantoglu O. U., Russell D. J., Sayood K.
ENTROPY, vol.12, no.1, pp.34-52, 2010 (SCI-Expanded)

Articles Published in Other Journals

- I. **Metagenomic Profiling of Human Protozoan Parasites in Wastewater and Hospital Effluents**
GÜNDOĞDU A., Charyyeva A., NALBANTOĞLU Ö. U.
JOURNAL OF CLINICAL PRACTICE AND RESEARCH, no.5, pp.435-446, 2023 (ESCI)
- II. **Humans as a source of colistin resistance: In silico analysis of public metagenomes for the mcr-1 gene in the gut microbiome**
GÜNDOĞDU A., NALBANTOĞLU Ö. U.
Erciyes Tıp Dergisi, vol.38, no.2, pp.59-61, 2016 (ESCI)

Books & Book Chapters

- I. **Mikrobiyota, Probiyotikler ve Akılcı Beslenme**
NALBANTOĞLU Ö. U., GÜNDOĞDU A.
in: Mikrobiyota, Probiyotikler ve Akılcı Beslenme, Mikrobiyota, Probiyotikler ve Akılcı Beslenme, Editor, Nobel Akademik Yayıncılık, pp.93-190, 2020
- II. **Data Compression**

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in: Computing Handbook, Third Edition: Computer Science and Software Engineering, Teofilo Gonzales, Jorge Diaz-Herrera, Allen Tucker, Editor, Chapman And Hall/Crc, Boca Raton, pp.48-1, 2014

III. Dynamic programming

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IV. Computational Genomic Signatures

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Refereed Congress / Symposium Publications in Proceedings

I. An Improved Crow Search Algorithm with Grey Wolf Optimizer for High-Dimensional Optimization Problems

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3rd International Conference on Soft Computing and its Engineering Applications, icSoftComp 2021, Anand, India, 10 - 11 December 2021, vol.1572 CCIS, pp.51-64

II. Identifying Taxonomic Biomarkers of Colorectal Cancer in Human Intestinal Microbiota Using Multiple Feature Selection Methods

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III. Developing A Deep Learning Network For Recognition of Dental Implant Systems

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IV. In silico discovery of antibiotic resistance patterns and artificialintelligence-based decision support systems for rational drug use

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V. De novo mutations in lipopolysaccharide biosynthesis pathways reveal thecolistin resistance mechanism in Acinetobacter baumannii strains

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VI. Atypical pathobiome of prosthetic joint infections revealed by hybrid approaches of shotgun metagenomics

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VII. Patojenlerin Hızlı Tespitinde Gerçek Zamanlı Nanopor Dizileme Teknolojisinin Kullanımı

GÜNDOĞDU A., ULU KILIÇ A., TÜRE YÜCE Z., KILIÇ H., NALBANTOĞLU Ö. U.

7. TÜRKİYE EKMUD BİLİMSSEL PLATFORMU, Antalya, Turkey, 03 April 2019

VIII. Machine Learning Analysis of Inflammatory Bowel Disease-Associated Metagenomics Dataset

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2018 3rd International Conference on Computer Science and Engineering (UBMK), 20 - 23 September 2018

IX. Comparison of Gut Microbiota in Patients of Mild-Cognitive Impairment and Alzheimer's Disease with Age and Sex Matched Normal Controls: A Multicenter Study.

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- X. **Gündoğdu A., Kilic H., Ulu Kilic A. , Gündoğan K., Aslan E. , Ufuk N., "Limited sensitivity and enrichment bias of culture-based pathogen detection in intensive care unit environment revealed by metagenomic sequence", ESCMID Madrid, Spain 21-24 April 2018, Madrid, ISpanya, 21-24 Nisan 2018, vol.28th, no.28th, pp.116-116 (Link)**
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- XI. **Potential microbial biomarkers of lung cancer**
GÜNDOĞDU A., ÖNAL Ö., DEMİR Ö. F., ÖNAL M. G., NALBANTOĞLU Ö. U.
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- XII. **Potential microbial biomarkers of lung cancer .**
GÜNDOĞDU A., ÖNAL Ö., DEMİR Ö. F., ÖNAL M. G., NALBANTOĞLU Ö. U.
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- XIII. **Persistence of Microbial Communities in the Hospital Environment**
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- XIV. **Towards Microbiome-Based Liquid Biopsy: Oral Microbiota Harbors Highly Accurate Biomarkers of Lung Cancer**
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- XV. **Gut Microbiota Dysbiosis in Substance Use Disorders and Its Partial Recovery by Detoxification Treatment is Revealed by 16S rRNA Gene Deep Sequencing**
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- XVI. **Should Bacterial Etiologies Be Considered in Aseptic Loosening?**
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- XVII. **Accurate Classification and Biomarker Discovery in Disease Microbiome Using a Novel De Novo Bioinformatics Approach**
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- XVIII. **Microbiome Network Analysis Reveals Highly Symbiotic Interaction of Core Metabolic Pathways**
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- XIX. **General Compositional Trends in Human Gut Microbiome: Diverse Phylogenetic Profiles Converge in Function According to Latent Structure Analysis**
Elgun U. G., GÜNDOĞDU A., NALBANTOĞLU Ö. U.
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- XX. **Whole-genome sequencing reveals recently acquired virulence islands in Ralstonia mannitolilytica isolated from high-risk patients**
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- XXI. **Comparison of antimicrobial resistance-gene diversity in gut microbiome of healthy individuals from Turkey, Europe, America and China**
GÜNDOĞDU A., Yalçın K., ULU KILIÇ A., Saka S., NALBANTOĞLU Ö. U.
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- XXII. **Mobil Kolistin Direncinin Türkiye Rezistom Ekosistemindeki İlk Sinyalleri: Besin Kaynaklı E. coli Suşlarında mcr-1 Geninin Tespiti**
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13. Antimikrobik Kemoterapi Günleri, İstanbul, Turkey, 6 - 08 April 2018, pp.88
- XXIII. **Oral mikrobiyomdan potansiyel karaciğer kanseri biyobelirteçlerinin Keşfi**
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3. Yaşam Bilimleri Kongresi, Kayseri, Turkey, 24 - 25 February 2018, pp.1
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