

Assoc. Prof. ÖZKAN UFUK NALBANTOĞLU

Personal Information

Office Phone: [+90 352 207 6666](tel:+903522076666)

Email: nalbantoglu@erciyes.edu.tr

Web: <https://avesis.erciyes.edu.tr/nalbantoglu>

Address: Erciyes Üniversitesi Mühendislik Fakültesi Bilgisayar Mühendisliği Bölümü 38039 Melikgazi Kayseri

International Researcher IDs

ORCID: 0000-0002-2278-7786

Yoksis Researcher ID: 218792

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. **Disrobiom: A novel approach to discover robust biomarkers from gut microbiome datasets with deep-learning algorithms**
Çiftcioğlu U. G. E., NALBANTOĞLU Ö. U.
Biomedical Signal Processing and Control, vol.100, 2025 (SCI-Expanded)
- II. **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., Yılmaz O. M. D., AYATA M., YILMAZ S., et al.
JOURNAL OF IMAGING INFORMATICS IN MEDICINE, vol.37, no.5, pp.2559-2580, 2024 (SCI-Expanded)
- III. **The comprehensive evaluation of oral and fecal microbiota in patients with acromegaly**
ŞAHİN S., GÜNDOĞDU A., NALBANTOĞLU Ö. U., ÖZDAMAR KARACA Z. C., HACIOĞLU A., URHAN M. E., ÜNLÜHİZARCI K., Hora M., Tanriverdi E. S., DURCAN E., et al.
PITUITARY, vol.27, pp.555-566, 2024 (SCI-Expanded)
- IV. **A robust deep learning model for the classification of dental implant brands**
LEBLEBİCİOĞLU KURTULUŞ İ., Lubbad M., Yılmaz O. M. D., KILIÇ K., KARABOĞA D., BAŞTÜRK A., AKAY B., Nalbantoglu U., Yılmaz S., Ayata M., et al.
JOURNAL OF STOMATOLOGY ORAL AND MAXILLOFACIAL SURGERY, vol.125, no.5, 2024 (SCI-Expanded)
- V. **A Multicenter Randomized Controlled Trial of Microbiome-Based Artificial Intelligence-Assisted Personalized Diet vs Low-Fermentable Oligosaccharides, Disaccharides, Monosaccharides, and Polyols Diet: A Novel Approach for the Management of Irritable Bowel Syndrome**
Tunali V., Arslan N. c., Ermis B. H., Hakim G. D., GÜNDOĞDU A., Hora M., NALBANTOĞLU Ö. U.
AMERICAN JOURNAL OF GASTROENTEROLOGY, vol.119, no.9, pp.1901-1912, 2024 (SCI-Expanded)
- VI. **Comparing microbial communities in mucilage and seawater samples: Metagenomic insights into mucilage formation in the Marmara Sea**
Gündoğdu A., Nalbantoglu Ö. U., Karis G., Sarikaya I., Erdogan M. N., Hora M., Aslan H.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, pp.1-12, 2024 (SCI-Expanded)
- VII. **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.
Molecular Nutrition and Food Research, vol.68, no.12, 2024 (SCI-Expanded)
- VIII. **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)
- IX. **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)
- X. **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)

- XI. **Response to Dahly and Morris**
Tunali V., Ermiş B. H., NALBANTOĞLU Ö. U.
American Journal of Gastroenterology, 2024 (SCI-Expanded)
- XII. **Deep learning-based breast cancer diagnosis with multiview of mammography screening to reduce false positive recall rate**
KARAGÖZ M. A., Nalbantoglu Ö. U., KARABOĞA D., AKAY B., Basturk A., ULUTABANCA H., DOĞAN S., Coskun D., Demir O.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.32, no.3, 2024 (SCI-Expanded)
- XIII. **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)
- XIV. **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.
Turkish Journal of Electrical Engineering and Computer Sciences, vol.31, no.7, pp.1294-1313, 2023 (SCI-Expanded)
- XV. **The role of the Mediterranean diet in modulating the gut microbiome: A review of current evidence**
GÜNDOĞDU A., NALBANTOĞLU Ö. U.
Nutrition, vol.114, 2023 (SCI-Expanded)
- XVI. **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.
EXPERT SYSTEMS WITH APPLICATIONS, vol.221, 2023 (SCI-Expanded)
- XVII. **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.
Food Bioscience, vol.53, 2023 (SCI-Expanded)
- XVIII. **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)
- XIX. **Potential associations between alterations in gut microbiome and obesity-related traits after the bariatric surgery**
ÖZDEMİR A., Yozgat A., Işgin-Atıcı K., Avci E., Yildiz B. D., GÜNDOĞDU A., NALBANTOĞLU Ö. U., Turhan T., Dogruman-AI F., BÜYÜKTUNCER DEMİREL Z.
JOURNAL OF HUMAN NUTRITION AND DIETETICS, vol.36, no.3, pp.981-996, 2023 (SCI-Expanded)
- XX. **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)
- XXI. **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)
- XXII. **Artificial intelligence-based personalized diet: A pilot clinical study for irritable bowel syndrome**
Karakan T., Gündoğdu A., Alagözlü H., Ekmen N., Özgül S., Tunali V., Hora M., Beyazgül D., Nalbantoglu Ö. U.
GUT MICROBES, vol.14, no.1, pp.1-13, 2022 (SCI-Expanded)
- XXIII. **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., ÜNLÜHİZARCI K., DEMİR A. N., Hora M., et al.

PITUITARY, vol.25, no.3, pp.520-530, 2022 (SCI-Expanded)

- XXIV. **Inflammatory bowel disease biomarkers of human gut microbiota selected via different feature selection methods**
Bakir-Gungor B., Lar H. H., Jabeer A., NALBANTOĞLU Ö. U., Aran O., Yousef M.
PEERJ, vol.10, 2022 (SCI-Expanded)
- XXV. **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., Balcioğlu E., Baran M.
BIOMEDICAL SIGNAL PROCESSING AND CONTROL, vol.73, 2022 (SCI-Expanded)
- XXVI. **An efficient real-time colonic polyp detection with YOLO algorithms trained by using negative samples and large datasets**
Pacal I., Karaman A., KARABOĞA D., AKAY B., BAŞTÜRK A., Nalbantoglu U., Coskun S.
COMPUTERS IN BIOLOGY AND MEDICINE, vol.141, 2022 (SCI-Expanded)
- XXVII. **Stratification of the Gut Microbiota Composition Landscape across the Alzheimer's Disease Continuum in a Turkish Cohort**
YILDIRIM S., NALBANTOĞLU Ö. U., Bayraktar A., Ercan F. B., GÜNDOĞDU A., Velioglu H. A., GÖL M. F., Soylu A. E., Koc F., Gulpinar E. A., et al.
MSYSTEMS, vol.7, no.1, 2022 (SCI-Expanded)
- XXVIII. **Novel alterations of CC2D1A as a candidate gene in a Turkish sample of patients with autism spectrum disorder**
ŞENER E. F., ÖNAL M. G., Dal F., Nalbantoglu U., ÖZKUL Y., CANATAN H., Oztop D. B.
INTERNATIONAL JOURNAL OF NEUROSCIENCE, vol.132, no.11, pp.1072-1079, 2022 (SCI-Expanded)
- XXIX. **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.
IMMUNOLOGY, vol.164, no.1, pp.73-89, 2021 (SCI-Expanded)
- XXX. **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)
- XXXI. **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)
- XXXII. **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)
- XXXIII. **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)
- XXXIV. **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)
- XXXV. **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)
- XXXVI. **Information Theoretic Metagenome Assembly Allows the Discovery of Disease Biomarkers in Human Microbiome**
NALBANTOĞLU Ö. U.
ENTROPY, vol.23, no.2, 2021 (SCI-Expanded)
- XXXVII. **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)
- XXXVIII. **COVID-19 Pandemic: Group Testing**
Nalbantoğlu Ö. U., Gündoğdu A.
FRONTIERS IN MEDICINE, vol.7, 2020 (SCI-Expanded)
- XXXIX. **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)
- XL. **FOX M1 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)
- XL I. **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)
- XL II. **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)
- XL III. **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)
- XL IV. **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 V. **Metagenomic analysis of the microbial community in kefir grains**
Nalbantoglu U., Cakar A., Dogan H., Abaci N., Ustek D., Sayood K., Can H.
FOOD MICROBIOLOGY, vol.41, pp.42-51, 2014 (SCI-Expanded)
- XL VI. **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)
- XL VII. **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., Baraboté R. D., Xie G., Brettin T. S., Hinrichs S. H., Fey P. D.
PLOS ONE, vol.5, no.2, 2010 (SCI-Expanded)
- XL VIII. **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. **The diagnosis of Helicobacter Pylori with the improved EfficientNet-B0 architecture**
KARACA D. A., AKAY B., AKAY B., KARABOĞA D., KARABOĞA D., BAŞTÜRK A., BAŞTÜRK A., NALBANTOĞLU Ö., NALBANTOĞLU Ö.
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.12, no.2, pp.729-742, 2024 (Peer-Reviewed Journal)
- II. **Metagenomic Profiling of Human Protozoan Parasites in Wastewater and Hospital Effluents**
GÜNDOĞDU A., Charyyeva A., NALBANTOĞLU Ö. U.
JOURNAL OF CLINICAL PRACTICE AND RESEARCH, vol.45, no.5, pp.435-446, 2023 (ESCI)
- III. **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**
NALBANTOĞLU Ö. U., Sayood K.
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**
NALBANTOĞLU Ö. U.
in: Multiple Sequence Alignment Methods, David J. Russell, Editor, Springer, London/Berlin , New York, pp.3-27, 2013
- IV. **Computational Genomic Signatures**
NALBANTOĞLU Ö. U., Sayood K.
Morgan & Claypool Publishers, N/A, 2011

Refereed Congress / Symposium Publications in Proceedings

- I. **Efficient Unsupervised Domain Adaptation with PEFT Combinations**
Rawhani M., KARABOĞA D., NALBANTOĞLU Ö. U., BAŞTÜRK A., AKAY B.
International Conference on Computer Science and Engineering (UBMK), Antalya, Turkey, 26 October 2024
- II. **Identifying Taxonomic Biomarkers of Colorectal Cancer in Human Intestinal Microbiota Using Multiple Feature Selection Methods**
Jabeer A., KOÇAK A., AKKAŞ H., Yeniser F., NALBANTOĞLU Ö. U., Yousef M., Bakir Gungor B.
2022 Innovations in Intelligent Systems and Applications Conference, ASYU 2022, Antalya, Turkey, 7 - 09 September 2022
- III. **An Improved Crow Search Algorithm with Grey Wolf Optimizer for High-Dimensional Optimization Problems**
Abudayor A., NALBANTOĞLU Ö. U.
3rd International Conference on Soft Computing and its Engineering Applications, icSoftComp 2021, Anand, India, 10 - 11 December 2021, vol.1572 CCIS, pp.51-64
- IV. **Developing A Deep Learning Network For Recognition of Dental Implant Systems**

Lelebicioğlu Kurtuluş İ., Karaboğa D., Akay B., Baştürk A., Durmaz Yılmaz Ö. M., Kılıç K., Nalbantoğlu Ö. U., Yılmaz S. 25th Scientific Congress of Turkish Prosthodontics and Implantology Association, Muğla, Turkey, 4 - 07 November 2021

- V. **De novo mutations in lipopolysaccharide biosynthesis pathways reveal the colistin resistance mechanism in *Acinetobacter baumannii* strains**
ULU KILIÇ A., GÜNDOĞDU A., NALBANTOĞLU Ö. U., ASLAN E.
29th ECCMID, 13 - 17 April 2019
- VI. **In silico discovery of antibiotic resistance patterns and artificial intelligence-based decision support systems for rational drug use**
ULU KILIÇ A., GÜNDOĞDU A., NALBANTOĞLU Ö. U.
29TH ECCMID, 13 - 16 April 2019
- VII. **Atypical pathobiome of prosthetic joint infections revealed by hybrid approaches of shotgun metagenomics**
ULU KILIÇ A., GÜNDOĞDU A., NALBANTOĞLU Ö. U., KAFADAR İ. H., GÜNEY A., KILIÇ H., ALP MEŞE E.
29th ECCMID, 13 - 16 April 2019
- VIII. **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 BİLİMSEL PLATFORMU, Antalya, Turkey, 03 April 2019
- IX. **Machine Learning Analysis of Inflammatory Bowel Disease-Associated Metagenomics Dataset**
Hacılar H., NALBANTOĞLU Ö. U., GÜNGÖR B.
2018 3rd International Conference on Computer Science and Engineering (UBMK), 20 - 23 September 2018
- X. **Comparison of Gut Microbiota in Patients of Mild-Cognitive Impairment and Alzheimer's Disease with Age and Sex Matched Normal Controls: A Multicenter Study.**
NALBANTOĞLU Ö. U., Sezgin B., GÜNDOĞDU A., Koç F., GÖL M. F., Hanoğlu L., KÖSEOĞLU E., Yıldırım S.
The 7th annual International Human Microbiome Consortium Meeting (IHMC2018), Killarney, Ireland, 26 - 28 June 2018, pp.165
- XI. **Potential microbial biomarkers of lung cancer .**
GÜNDOĞDU A., ÖNAL Ö., DEMİR Ö. F., ÖNAL M. G., NALBANTOĞLU Ö. U.
28th European Congress of Clinical Microbiology and Infectious Diseases, Madrid, Spain, 21 - 24 April 2018
- XII. **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, SPAIN, 21-24 Nisan 2018, vol.28th, no.28th, pp.116-116 (Link)**
GÜNDOĞDU A., ULU KILIÇ A., KILIÇ H., NALBANTOĞLU Ö. U.
.28th ESCMID 2018, Madrid, Spain, 21 - 24 April 2018
- XIII. **Potential microbial biomarkers of lung cancer**
GÜNDOĞDU A., ÖNAL Ö., DEMİR Ö. F., ÖNAL M. G., NALBANTOĞLU Ö. U.
28th European Congress of Clinical Microbiology and Infectious Diseases, 21 - 24 April 2018
- XIV. **Persistence of Microbial Communities in the Hospital Environment**
Aslan-Gürpınar E., NALBANTOĞLU Ö. U., KILIÇ H., ULU KILIÇ A., GÜNDOĞAN K., GÜNDOĞDU A.
2nd International Human Microbiota: In health and diseases congress, Antalya, Turkey, 18 - 22 April 2018, pp.44
- XV. **Towards Microbiome-Based Liquid Biopsy: Oral Microbiota Harbors Highly Accurate Biomarkers of Lung Cancer**
GÜNDOĞDU A., NALBANTOĞLU Ö. U., ÖNAL Ö., Önal M. G.
2nd International Human Microbiota: In health and diseases congress, Antalya, Turkey, 18 - 22 April 2018, pp.60-61
- XVI. **Gut Microbiota Dysbiosis in Substance Use Disorders and Its Partial Recovery by Detoxification Treatment is Revealed by 16S rRNA Gene Deep Sequencing**
Kargin M., Celebi E., NALBANTOĞLU Ö. U., GÜNDOĞDU A.
2nd International Human Microbiota: In health and diseases congress, Antalya, Turkey, 18 - 22 April 2018, pp.83
- XVII. **Should Bacterial Etiologies Be Considered in Aseptic Loosening?**

- GÜNDOĞDU A., NALBANTOĞLU Ö. U., ULU KILIÇ A., KAFADAR I. H., GÜNEY A., KILIÇ H.
2nd International Human Microbiota: In health and diseases congress, Antalya, Turkey, 18 - 22 April 2018, pp.71
- XVIII. **Accurate Classification and Biomarker Discovery in Disease Microbiome Using a Novel De Novo Bioinformatics Approach**
NALBANTOĞLU Ö. U., Yalçın K., GÜNDOĞDU A.
2nd International Human Microbiota: In health and diseases congress, Antalya, Turkey, 18 - 22 April 2018, pp.63
- XIX. **Microbiome Network Analysis Reveals Highly Symbiotic Interaction of Core Metabolic Pathways**
Taylan B., GÜNDOĞDU A., NALBANTOĞLU Ö. U.
2nd International Human Microbiota: In health and diseases congress, Antalya, Turkey, 18 - 22 April 2018, pp.95
- XX. **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.
2nd International Human Microbiota: In health and diseases congress, Antalya, Turkey, 18 - 22 April 2018, pp.62
- 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.
28th European Congress of Clinical Microbiology and Infectious Diseases 8th European Congress of Clinical Microbiology and Infectious Diseases, Madrid, Spain, 21 April 2018, pp.1512
- XXII. **Whole-genome sequencing reveals recently acquired virulence islands in *Ralstonia mannitolilytica* isolated from high-risk patients**
NALBANTOĞLU Ö. U., KILIÇ H., ULU KILIÇ A., Hora M., GÜNDOĞDU A.
28th European Congress of Clinical Microbiology and Infectious Diseases 8th European Congress of Clinical Microbiology and Infectious Diseases, Madrid, Spain, 21 April 2018, pp.1765
- XXIII. **Mobil Kolistin Direncinin Türkiye Rezistom Ekosistemindeki İlk Sinyalleri: Besin Kaynaklı *E. coli* Suşlarında *mcr-1* Geninin Tespiti**
KUREKCI C., AYDIN M., NALBANTOĞLU Ö. U., GÜNDOĞDU A.
13. Antimikrobik Kemoterapi Günleri, İstanbul, Turkey, 6 - 08 April 2018, pp.88
- XXIV. **Oral mikrobiyomdan potansiyel karaciğer kanseri biyobelirteçlerinin Keşfi**
Yalçın K., GÜNDOĞDU A., NALBANTOĞLU Ö. U.
3. Yaşam Bilimleri Kongresi, Kayseri, Turkey, 24 - 25 February 2018, pp.1
- XXV. **Nanogözenek DNA dizilemede kullanılan baz çağırma yazılımlarının performans analizi**
Saka S., Hora M., Yalçın K., GÜNDOĞDU A., NALBANTOĞLU Ö. U.
3. Yaşam Bilimleri Kongresi, Kayseri, Turkey, 23 - 24 February 2018, pp.1
- XXVI. **Parkinson Hastalığında Bağırsak Mikrobiyomu Değişikliklerinin in silico incelenmesi**
Hora M., Yalçın K., Saka S., NALBANTOĞLU Ö. U., GÜNDOĞDU A.
3. Yaşam Bilimleri Kongresi, Kayseri, Turkey, 23 - 24 February 2018, pp.1
- XXVII. **Metagenomik Analizler Üzerinden Sağlıklı İnsan Bağırsağındaki Rezistom Çeşitliliğinin Ortaya Çıkarılması**
GÜNDOĞDU A., NALBANTOĞLU Ö. U., YALÇIN K.
4. Ulusal Klinik Mikrobiyoloji Kongresi, Turkey, 8 - 12 November 2017
- XXVIII. **METAGENOMİK ANALİZLER ÜZERİDEN SAĞLIKLI İNSAN BAĞIRSAGINDAKİ REZİSTOM ÇEŞİTLİLİĞİNİN ORTAYA ÇIKARILMASI**
GÜNDOĞDU A., NALBANTOĞLU Ö. U., Yalçın K.
4. Ulusal Klinik Mikrobiyoloji Kongresi, Antalya, Turkey, 8 - 12 November 2017, pp.208-209
- XXIX. **Kültür Bağımlı ve Kültür Bağımsız Yöntemler ile Yoğun Bakım Ünitesi Çevresel Flora Analizi**
GÜNDOĞDU A., KILIÇ H., ULU KILIÇ A., Aslan E., NALBANTOĞLU Ö. U.
4. Ulusal Klinik Mikrobiyoloji Kongresi, Turkey, 8 - 12 November 2017
- XXX. **Kültür Bağımlı ve Kültür Bağımsız Yöntemler İle Yoğun Bakım Ünitesi Çevresel Flora Analizi**
GÜNDOĞDU A., KILIÇ H., ULU KILIÇ A., Gürpınar E. A., NALBANTOĞLU Ö. U.
4. Ulusal Klinik Mikrobiyoloji Kongresi, Antalya, Turkey, 8 - 12 November 2017
- XXXI. **A phylogeny-free microbiome dysbiosis detection pipeline for non-invasive disease diagnosis**

- NALBANTOĞLU Ö. U., Onuk A. E.
IEEE International Conference on Electro Information Technology (eit2017), 14 May 2016 - 17 May 2017
- XXXII. **Hyperthermia and Plasma Membrane Ca ATPase: Is there any effect of HT on PMCA?**
CANER A., NALBANTOĞLU Ö. U.
1. Uluslararası Kanser ve İyon Kanalları Kongresi (IONCC2017), 21 - 23 September 2017
- XXXIII. **Human Protozoan Parasite Diversity In Waste and Treated Water: An Environmental Metagenomics Analysis**
GÜNDOĞDU A., CHARYEVA A., KILIÇ H., NALBANTOĞLU Ö. U.
7th Congress of European Microbiologists (FEMS2017), 9 - 13 July 2017
- XXXIV. **A NEW COLISTIN RESISTANCE GENE HOMOLOGOUS FOUND IN WASTEWATER METAGENOME**
GÜNDOĞDU A., Önal M. G., ULU KILIÇ A., NALBANTOĞLU Ö. U.
The 7th Congress of European Microbiologists (FEMS 2017), Valensiya, Spain, 9 - 13 July 2017, pp.1998
- XXXV. **HUMAN PROTOZOAN PARASITE DIVERSITY IN WASTE AND TREATED WATER: AN ENVIRONMENTAL METAGENOMICS ANALYSIS**
GÜNDOĞDU A., Charyyeva A., KILIÇ H., NALBANTOĞLU Ö. U.
The 7th Congress of European Microbiologists (FEMS 2017), 9 - 13 July 2017
- XXXVI. **Inferring pathogen transmission networks in Intensive Care Units**
NALBANTOĞLU Ö. U.
IEEE International Conference on Electro Information Technology (eit2017), 14 January - 17 May 2017
- XXXVII. **Rapid pathogen detection in ambiguous infections using real-time nanopore sequencing technology**
GÜNDOĞDU A., KILIÇ H., ULU KILIÇ A., NALBANTOĞLU Ö. U.
27th European Congress of Clinical Microbiology and Infectious Diseases, 22 - 25 April 2017
- XXXVIII. **A high resistome diversity in a metropolitan hospital wastewater in Turkey revealed using shotgun metagenomic**
GÜNDOĞDU A., NALBANTOĞLU Ö. U., KILIÇ H.
27th European Congress of Clinical Microbiology and Infectious Diseases, 22 - 25 April 2017
- XXXIX. **Rapid pathogen detection in ambiguous infections using real-time nanopore sequencing technology**
GÜNDOĞDU A., KILIÇ H., ULU KILIÇ A., NALBANTOĞLU Ö. U.
27th European Congress of Clinical Microbiology and Infectious Diseases, 22 - 25 April 2017
- XL. **A high resistome diversity in a metropolitan hospital wastewater in Turkey revealed using shotgun metagenomics**
GÜNDOĞDU A., NALBANTOĞLU Ö. U., KILIÇ H.
27th European Congress of Clinical Microbiology and Infectious Diseases, 22 - 25 April 2017
- XLI. **Rare Members of the Microbiome as Contributors to Dysbiosis**
NALBANTOĞLU Ö. U.
THE 6TH INTERNATIONAL HUMAN MICROBIOME CONSORTIUM CONGRESS, 8 - 11 November 2016
- XLII. **Plasmids with a potential of pandrug resistance coding found in human gut microbiome**
GÜNDOĞDU A., NALBANTOĞLU Ö. U.
The 6th annual International Human Microbiome Consortium Congress, Houston, United States Of America, 8 - 11 November 2016, pp.36
- XLIII. **Strain level pathogen detection in metagenomic samples using posterior profile corrections**
NALBANTOĞLU Ö. U., GÜNDOĞDU A.
The 6th annual International Human Microbiome Consortium Congress, Houston, United States Of America, 8 - 11 November 2016, pp.41
- XLIV. **Human as a source of colistin resistance: presence of the mcr-1 gene in the gut microbiome**
GÜNDOĞDU A., NALBANTOĞLU Ö. U.
26th European Congress of Clinical Microbiology and Infectious Diseases, Amsterdam, Netherlands, 9 - 12 April 2016
- XLV. **Characterization of Protein Sequences Using Latent Semantic Analysis**
NALBANTOĞLU Ö. U., Sayood K., Garrity G.
9th International Symposium on Health Informatics and Bioinformatics HIBIT 2015, 16 - 17 October 2015

- XLVI. Compression of Next Generation Sequencing Data**
NALBANTOĞLU Ö. U., Riffle A., Sayood K.
2015 Data Compression Conference, Snowbird, UT, USA, 7 - 09 April 2015
- XLVII. Compression of Quality Factors in Next Generation Sequencing**
NALBANTOĞLU Ö. U., Sayood K.
2014 Data Compression Conference, Snowbird, UT, USA, 26 - 28 March 2014

Supported Projects

- HACIOĞLU A., ÖZDAMAR KARACA Z. C., DÖKMETAŞ H. S., NALBANTOĞLU Ö. U., DEMİR A. N., URHAN M. E., ORAL Ş., ŞAHİN S., TANRIÖVER N., KADIOĞLU P., et al., Project Supported by Higher Education Institutions, Yeni tanı akromegali hastalarında oral ve intestinal mikrobiyotanın tedavi ile değişiminin incelenmesi, 2022 - Continues
- NALBANTOĞLU Ö. U., Other International Funding Programs, Systems Biological Modeling of Pathogen-Host Interactome-Immune, 2017 - Continues
- NALBANTOĞLU Ö. U., TUBITAK Project, Parkinson Demansinin Erken Teşhisinde Kullanılabilecek İnvaziv Olmayan, Yenilikçi Ve Kombinatoriyal Biyobelirteçler, 2016 - Continues
- KÖSEOĞLU E., NALBANTOĞLU Ö. U., GÜNDOĞDU A., TUBITAK Project, Alzheimer Hastalığı ile İntestinal Mikrobiyomun Potansiyel İlişkisinin Metagenomik Analizlerle Değerlendirilmesi, 2016 - Continues
- Gündoğdu A., Nalbantoğlu Ö. U., Önal Ö., Baran Ketencioğlu B., Oral A., TUBITAK Project, Developing an artificial intelligence-based diagnostic method based on oral microbiome for non-invasive diagnosis of lung cancer, 2023 - 2026
- Mutlu Sarigüzel F., Nalbantoğlu Ö. U., Gün İ., Orak F., Gündoğdu A., Borlu A., TUBITAK Project, Deprem afeti sonrası Kahramanmaraş'ta içme sularında görülen artan bulanıklık seviyesinin sulardaki bakteriyel yük ile ilişkisinin ve suyu kullanan halk üzerindeki etkisinin incelenmesi, 2024 - 2025
- Gündoğdu A., Ulu Kılıç A., Nalbantoğlu Ö. U., Demirtaş A., Sezer Z., Ölmez H., R&D Project of Group B, Çoklu ilaca dirençli gram negatiflerin etken olduğu üriner sistem enfeksiyonlarında bakteriyofaj tedavisinin etkinliğinin araştırılması, 2023 - 2025
- Gündoğdu A., Nalbantoğlu Ö. U., TUBITAK Project, İnsan Kaynaklı Probiyotik Adaylarının İzolasyonu Ve Tüm Genom Analizleriyle Karakterizasyonu, 2023 - 2023
- KARABOĞA D., BAŞTÜRK A., NALBANTOĞLU Ö. U., LEBLEBİCİOĞLU KURTULUŞ İ., DURMAZ YILMAZ Ö. M., KILIÇ K., YILMAZ S., TUBITAK Project, Dental İmplant Sistemlerinin Tanınması İçin Derin Öğrenme Ağı Geliştirilmesi, 2021 - 2023
- NALBANTOĞLU Ö. U., AKALIN H., GÖNEN Z. B., YAY A. H., DOĞAN M. E., BORLU M., ÖZKUL Y., EKEN A., GÜNDOĞDU A., YETKİN M. F., TUBİTAK International Multi-Cooperation Project, Fare Modelinde T-Reg Kaynaklı Eksozomların Multiple Skleroz Ve Psoriasisde Önleyici Ve Tedavi Edici Etkilerinin Araştırılması , 2021 - 2023
- Nalbantoğlu Ö. U., ÖNAL M. G., TUBITAK Project, New Problem Definitions in Microbiome Analysis and Investigating Artificial Intelligence Solutions Addressing Them, 2020 - 2023
- GÜNDOĞDU A., KÜREKÇİ C., KILIÇ H., NALBANTOĞLU Ö. U., Project Supported by Higher Education Institutions, Hastane ve kentsel atık/arıtılmış su metagenomunda de nova mikrobiyal çeşitlilik rezistom virülo ve mobilom analizlerinin yapılması, 2016 - 2023
- ULU KILIÇ A., KILIÇ H., GÜNDOĞDU A., ALP MEŞE E., NALBANTOĞLU Ö. U., TUBITAK Project, Kolistin Dirençli Gram-Negatif Patojenlerde Direnç Kazanım Paternlerinin Tüm Genom Dizi Analizleriyle Ortaya Çıkarılması, 2017 - 2019
- NALBANTOĞLU Ö. U., GÜNDOĞDU A., ULU KILIÇ A., ALP MEŞE E., COŞKUN R., ÖZTÜRK C., TUBITAK Project, Yoğunbakım Ünitelerinde Mikrobiyom Bulaş Ağının Çıkarımı İçin Hesaplamalı Kaynak İz sürümü Yöntemlerinin Araştırılması Ve Geliştirilmesi, 2016 - 2019
- NALBANTOĞLU Ö. U., TAYLAN B., Project Supported by Higher Education Institutions, MİKROBİYOMU OLUŞTURAN TAKSONOMİK ÜNİTELERİN AĞ ANALİZİ İLE İNCELENMESİ, 2017 - 2018
- NALBANTOĞLU Ö. U., GÜNDOĞDU A., TUBITAK Project, Nanogözenek DNA Dizilemesi İle Hızlı Patojen Tanıma Yapabilen Algoritmaların Geliştirilmesi, 2016 - 2017
- NALBANTOĞLU Ö. U., Other International Funding Programs, ATD: Algorithms for the analysis of microbiomes, 2011 - 2014
- NALBANTOĞLU Ö. U., Other International Funding Programs, Identification of Biological Materials of Unknown Origin,

2006 - 2012

Patent

Nalbantođlu Ö. U., Köseođlu E., Gündođdu A., BAđIRSAK MİKROBİYOMUNDAN ALZHEİMER HASTALIđININ TEŞHİSİ İÇİN MİNİMAL BİYOBELİRTEÇLER VE İLGİLİ YENİ NESİL DİZİLEME KİTİ, Patent, CHAPTER A Human Needs, The Invention Registration Number: 2018 18373 , Standard Registration, 2023

Nalbantođlu Ö. U., Gündođdu A., BİR MİKROBİYAL GEN TANIMLAMA YÖNTEMİ, BU YÖNTEMİN KULLANILDIđI TANIMLAMA KİTİ VE SİROZA İLİŞKİN BİYOBELİRTEÇLER, Patent, CHAPTER A Human Needs, The Invention Registration Number: 2017 21166 , Standard Registration, 2022

NALBANTOđLU Ö. U., Classification of nucleotide sequences by latent semantic analysis, Patent, CHAPTER A Human Needs, Standard Registration, 2017

Metrics

Publication: 106

Citation (WoS): 749

Citation (Scopus): 878

H-Index (WoS): 14

H-Index (Scopus): 14

Awards

Gündođdu A., Ulu Kılıç A., Kılıç H., Nalbantođlu Ö. U., poster bildiri BİRİNCİLİK ÖDÜLÜ, 7. Türkiye Ekmud Bilimsel Platformu "Uluslararası Kongre", April 2019