

Assoc. Prof. RAFİG GURBANOV

Personal Information

Office Phone: [+90 228 214 1425](tel:+902282141425)

Email: rafig.gurbanov@bilecik.edu.tr

Web: <https://avesis.bilecik.edu.tr/rafig.gurbanov>

Address: Bilecik Şeyh Edebali Üniversitesi, Merkezi Araştırma Laboratuvarı Uygulama ve Araştırma Merkezi (BARUM), 11230 Gölümbe Kampüsü / Bilecik, Türkiye

International Researcher IDs

ScholarID: NOn0BPAAAAAJ

ORCID: 0000-0002-5293-6447

Publons / Web Of Science ResearcherID: AFH-3654-2022

ScopusID: 36866012100

Yoksis Researcher ID: 338577

Education Information

Doctorate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Biyokimya (Dr), Turkey 2010 - 2016

Postgraduate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Biyokimya (YI) (Tezli), Turkey 2005 - 2010

Undergraduate, Hazar Üniversitesi, TIP, Tıbbi Biyoloji, Azerbaijan 2000 - 2005

Foreign Languages

English, C2 Mastery

Dissertations

Doctorate, Characterization of heavy metal resistant bacteria using infrared spectroscopy together with chemical pattern recognition techniques, Middle East Technical University, Fen Bilimleri Enstitüsü, Biyokimya (Dr), 2016

Postgraduate, The effects of selenium on STZ-induced diabetic rat kidney plasma membrane, Middle East Technical University, Fen Bilimleri Enstitüsü, Biyokimya (YI) (Tezli), 2010

Research Areas

Biochemistry

Courses

Temel Ölçme Teknikleri Laboratuvarı, Undergraduate, 2023 - 2024

Biyoenstrümantasyon, Undergraduate, 2023 - 2024

Glikobiyoloji, Doctorate, 2023 - 2024

Biyoproses Mühendisliği, Undergraduate, 2023 - 2024
Biyomühendislik Laboratuvarı, Undergraduate, 2023 - 2024
Biyomedikal Araştırmalarda Makine Öğrenimine Giriş, Postgraduate, 2023 - 2024
Mikrobiyal Metabolizma, Postgraduate, 2023 - 2024
Biyomedikal Elektronik, Undergraduate, 2023 - 2024
Biyokimya I, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018
Uzman Alan, Postgraduate, 2020 - 2021
Tez çalışması, Postgraduate, 2020 - 2021
Moleküler Biyolojide Uygulamalar I, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018
Yüksek Lisans Tez Çalışması, Postgraduate, 2019 - 2020
Moleküler Biyolojide Uygulamalar II, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018
Biyokimya II, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017
Canlıların Moleküler Yapıları, Postgraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018
Ders Dışı Etkinlik, Undergraduate, 2019 - 2020
Uzmanlık Alan Dersi, Postgraduate, 2019 - 2020
Biyoteknoloji, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017
Moleküler Teknoloji, Undergraduate, 2019 - 2020
Enzimoloji, Undergraduate, 2018 - 2019, 2017 - 2018
Tıbbi Mikrobiyoloji, Undergraduate, 2018 - 2019
Moleküler Teknikler, Undergraduate, 2018 - 2019
Protein Biyokimyası, Doctorate, 2018 - 2019
Virüslerin Moleküler Biyolojisi, Postgraduate, 2018 - 2019, 2017 - 2018
Histoloji, Undergraduate, 2017 - 2018
Model Organizmalar, Undergraduate, 2017 - 2018, 2016 - 2017
Moleküler Terminoloji, Undergraduate, 2017 - 2018
Endüstriyel Mikrobiyoloji, Undergraduate, 2017 - 2018, 2016 - 2017
Mikrobiyoloji, Undergraduate, 2016 - 2017
Biyokimya Laboratuvarı II, Undergraduate, 2016 - 2017
Viroloji, Undergraduate, 2016 - 2017

Advising Theses

GURBANOV R., Escherichia coli'de klorheksidin ve azitromisin sinerjistik etkisinin biyomoleküler düzeyde kapsamlı incelenmesi, Postgraduate, G.SAMGANE(Student), 2023
GURBANOV R., Karsinoembriyonik antijen (CEA) Proteinin Tespiti için Yapay Zeka ve Makine Öğrenimi destekli Spektrokimyasal Tekniğin Geliştirilmesi, Doctorate, S.KARAÇAM(Student), 2023
GURBANOV R., Antimicrobial and anti-biofilm activities of lipids extracted from Schizochytrium sp. S31 microalgae, Postgraduate, D.ABDULLAH(Student), 2022
GURBANOV R., Ticari marka tavuk etlerinin protein kalite farklılıklarının hızlı tespitine yönelik örüntü tanıma algoritmaları temelli parmak izi yöntem tasarımı, Postgraduate, B.KALKANCI(Student), 2022
GURBANOV R., Tapyoka nişastası fermantasyonu ile probiyotik bakteriyel metabolitlerin üretimi ve karakterizasyonu, Postgraduate, H.KARADAĞ(Student), 2021
GURBANOV R., Streptococcus salivarius M18 hücresiz süpernatantinin, patojen bakterilerde anti-bakteriyel ve kolon kanseri hücrelerinde anti-kanser etkilerinin araştırılması, Postgraduate, S.KARAÇAM(Student), 2021
GURBANOV R., Habitat farklılıklarının rattus rattus bağırsak mikrobiyotası üzerine etkilerinin moleküler tanımlama teknikleri ile analizi (Rodentia: Muridae), Postgraduate, U.KABAOĞLU(Student), 2020

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Decoding myasthenia gravis: advanced diagnosis with infrared spectroscopy and machine learning**
Severcan F., Ozyurt I., Dogan A., Severcan M., GURBANOV R., Kucukcankurt F., Elibol B., Tiftikcioglu I., Gursoy E., Yangin M. N., et al.
Scientific Reports, vol.14, no.1, 2024 (SCI-Expanded)
- II. **Spectrochemical and explainable artificial intelligence approaches for molecular level identification of the status of critically ill patients with COVID-19**
Tokgoz G., KIRBOĞA K. K., ÖZEL F., YÜCEPUR S., ARDAHANLI İ., GURBANOV R.
Talanta, vol.279, 2024 (SCI-Expanded)
- III. **Promoting longevity in aged liver through NLRP3 inflammasome inhibition using tauroursodeoxycholic acid (TUDCA) and SCD probiotics**
Baba B., Ceylani T., GURBANOV R., Açıkgöz E., Keskin S., Allahverdi H., Samgane G., Tombuloglu H., Teker H. T.
Archives of Gerontology and Geriatrics, vol.125, 2024 (SCI-Expanded)
- IV. **Understanding the transition to viable but non-culturable state in Escherichia coli W3110: a comprehensive analysis of potential spectrochemical biomarkers**
İzğördü Ö., GURBANOV R., DARCAN C.
World Journal of Microbiology and Biotechnology, vol.40, no.7, 2024 (SCI-Expanded)
- V. **Modulation of bacterial membranes and cellular macromolecules by dimethyl sulfoxide: A dose-dependent study providing novel insights**
Tunçer Çağlayan S., Gurbanov R.
International Journal of Biological Macromolecules, vol.267, 2024 (SCI-Expanded)
- VI. **Supplementing probiotics during intermittent fasting proves more effective in restoring ileum and colon tissues in aged rats**
Teker H. T., Ceylani T., Keskin S., Samgane G., Allahverdi H., Açıkgöz E., GURBANOV R.
Journal of Cellular and Molecular Medicine, vol.28, no.6, 2024 (SCI-Expanded)
- VII. **Marine Microalgae Schizochytrium sp. S31: Potential Source for New Antimicrobial and Antibiofilm Agent**
Hammadi Al-Ogaidi D. A., Karaçam S., Gurbanov R., Vardar-Yel N.
Current Pharmaceutical Biotechnology, vol.25, no.11, pp.1478-1488, 2024 (SCI-Expanded)
- VIII. **Reduced liver damage and fibrosis with combined SCD Probiotics and intermittent fasting in aged rat**
Teker H. T., Ceylani T., Keskin S., Samgane G., Baba B., Açıkgöz E., GURBANOV R.
Journal of Cellular and Molecular Medicine, vol.28, no.1, 2024 (SCI-Expanded)
- IX. **Exploring the biotechnological prospects of a recently discovered fungus isolated from marine mucilage**
Bayazıt G., GÜL Ü. D., ERTİT TAŞTAN B., TOZOĞLU F., GURBANOV R.
Biomass Conversion and Biorefinery, 2024 (SCI-Expanded)
- X. **Synthesis and Photophysical Characterizations of Benzimidazole Functionalized BODIPY Dyes**
Sevinç G., Doğan E., Mansuroğlu S., Gurbanov R.
Journal of Fluorescence, 2024 (SCI-Expanded)
- XI. **The rejuvenating influence of young plasma on aged intestine**
Ceylani T., Teker H. T., Keskin S., Samgane G., Açıkgöz E., GURBANOV R.
Journal of Cellular and Molecular Medicine, vol.27, no.18, pp.2804-2816, 2023 (SCI-Expanded)
- XII. **Evaluation of copper-induced biomolecular changes in different porin mutants of Escherichia coli W3110 by infrared spectroscopy**
Kilicaslan G., GURBANOV R., DARCAN C.
Journal of Biological Physics, vol.49, no.3, pp.309-327, 2023 (SCI-Expanded)
- XIII. **Age-related differences in response to plasma exchange in male rat liver tissues: insights from histopathological and machine-learning assisted spectrochemical analyses**
Teker H. T., Ceylani T., Keskin S., Samgane G., Mansuroglu S., Baba B., Allahverdi H., Açıkgöz E., GURBANOV R.
Biogerontology, vol.24, no.4, pp.563-580, 2023 (SCI-Expanded)
- XIV. **Dose-dependent Plant-promoting Effect of Macroalgae Stypopodium schimperi Extracts in Solanum lycopersicum and Detection of Phloroglucinol Composition**

- ÜNAL D., GURBANOV R., Sevim G., Samgane G., Varış G., ÖZDEMİR KOÇAK F., Tuney-Kizilkaya I.
Journal of Soil Science and Plant Nutrition, vol.23, no.2, pp.2018-2029, 2023 (SCI-Expanded)
- XV. **The importance of habitat in the tumor-associated Pten, Mtor, and Akt gene expressions and chromosomal aberrations for wild rats**
YAĞCI T., Kabaoğlu U., GURBANOV R.
Biologia, vol.78, no.3, pp.779-789, 2023 (SCI-Expanded)
- XVI. **Effect of Micromonospora sp. KSC08 on nitrogen conservation throughout composting**
Kumas A., Ertekin S. G., GURBANOV R., ŞİMŞEK Y. E., Kocak F., DEĞİRMENCİ L.
Biomass Conversion and Biorefinery, vol.13, no.3, pp.2375-2390, 2023 (SCI-Expanded)
- XVII. **Non-growth inhibitory doses of dimethyl sulfoxide alter gene expression and epigenetic pattern of bacteria**
TUNÇER S., GURBANOV R.
Applied Microbiology and Biotechnology, vol.107, no.1, pp.299-312, 2023 (SCI-Expanded)
- XVIII. **Rapid diagnosis of malignant pleural mesothelioma and its discrimination from lung cancer and benign exudative effusions using blood serum**
Yonar D., Severcan M., GURBANOV R., Sandal A., Yılmaz U., Emri S., Severcan F.
Biochimica et Biophysica Acta - Molecular Basis of Disease, vol.1868, no.10, 2022 (SCI-Expanded)
- XIX. **Infrared spectrochemical findings on intermittent fasting-associated gross molecular modifications in rat myocardium**
ARDAHANLI İ., ÖZKAN H. İ., ÖZEL F., GURBANOV R., Teker H. T., Ceylani T.
Biophysical Chemistry, vol.289, 2022 (SCI-Expanded)
- XX. **Intermittent fasting-induced biomolecular modifications in rat tissues detected by ATR-FTIR spectroscopy and machine learning algorithms**
Ceylani T., Teker H. T., Samgane G., GURBANOV R.
Analytical Biochemistry, vol.654, 2022 (SCI-Expanded)
- XXI. **Metagenomic analysis of intestinal microbiota in wild rats living in urban and rural habitats**
GURBANOV R., Kabaoğlu U., YAĞCI T.
Folia Microbiologica, vol.67, no.3, pp.469-477, 2022 (SCI-Expanded)
- XXII. **Tapioca starch and skim milk support probiotic efficacy of Lactiplantibacillus plantarum post-fermentation medium against pathogens and cancer cells**
Karadağ H., TUNÇER S., Karaçam S., GURBANOV R.
Archives of Microbiology, vol.204, no.6, 2022 (SCI-Expanded)
- XXIII. **Myocardial performance index increases at long-term follow-up in patients with mild to moderate COVID-19**
ARDAHANLI İ., Akhan O., Sahin E., Akgun O., GURBANOV R.
Echocardiography, vol.39, no.4, pp.620-625, 2022 (SCI-Expanded)
- XXIV. **Pb intoxicated biomolecular changes in Cladonia convoluta studied using 2DCOS infrared spectroscopy coupled with chemometric analysis**
Karthikeyan S., GURBANOV R., ÜNAL D.
Vibrational Spectroscopy, vol.119, 2022 (SCI-Expanded)
- XXV. **Evaluation of ventricular repolarization parameters in erectile dysfunction: a predictor of cardiac diseases**
ARDAHANLI İ., Yılmaz A. H., Akgün O., GURBANOV R.
Journal of Men's Health, vol.18, no.3, 2022 (SCI-Expanded)
- XXVI. **Optimization the removal of lead ions by fungi: Explanation of the mycosorption mechanism**
HASDEMİR Z. M., GÜL Ü. D., GURBANOV R., ŞİMŞEK S.
Journal of Environmental Chemical Engineering, vol.9, no.2, 2021 (SCI-Expanded)
- XXVII. **Tapioca Starch Modulates Cellular Events in Oral Probiotic Streptococcus salivarius Strains**
GURBANOV R., Karadağ H., Karaçam S., Samgane G.
Probiotics and Antimicrobial Proteins, vol.13, no.1, pp.195-207, 2021 (SCI-Expanded)
- XXVIII. **CoronaVac (Sinovac) COVID-19 vaccine-induced molecular changes in healthy human serum by**

infrared spectroscopy coupled with chemometrics

Dogan A., GURBANOV R., Severcan M., Severcan F.

Turkish Journal of Biology, vol.45, no.Special Issue 1, pp.549-558, 2021 (SCI-Expanded)

- XXIX. **A novel approach for the discrimination of culture medium from Vascular Endothelial Growth Factor (VEGF) overexpressing colorectal cancer cells**
TUNÇER S., GURBANOV R.
Turkish Journal of Biochemistry, vol.45, no.6, pp.715-724, 2020 (SCI-Expanded)
- XXX. **The impact of the different habitats on skull variation in the fossorial subterranean rodents (Rodentia: Spalacidae) from Middle Anatolia**
YAĞCI T., GURBANOV R.
Ecological Research, vol.34, no.6, pp.802-812, 2019 (SCI-Expanded)
- XXXI. **Methylation, sugar puckering and Z-form status of DNA from a heavy metal-acclimated freshwater *Gordonia* sp.**
GURBANOV R., TUNÇER S., Mingu S., Severcan F., GÖZEN A. G.
Journal of Photochemistry and Photobiology B: Biology, vol.198, 2019 (SCI-Expanded)
- XXXII. **Comparison of microbially induced calcium carbonate precipitation eligibility using *Sporosarcina pasteurii* and *Bacillus licheniformis* on two different sands**
Saricicek Y. E., GURBANOV R., PEKCAN O., GÖZEN A. G.
Geomicrobiology Journal, vol.36, no.1, pp.42-52, 2019 (SCI-Expanded)
- XXXIII. **Low dose dimethyl sulfoxide driven gross molecular changes have the potential to interfere with various cellular processes**
TUNÇER S., GURBANOV R., Sheraj I., Solel E., ESENTÜRK O., BANERJEE S.
Scientific Reports, vol.8, no.1, 2018 (SCI-Expanded)
- XXXIV. **The biomolecular alterations in *Cladonia convoluta* in response to lead exposure**
GURBANOV R., ÜNAL D.
Spectroscopy Letters, vol.51, no.10, pp.563-570, 2018 (SCI-Expanded)
- XXXV. **Synthesis and structural characterization of geminal and non-geminal 1,1,3,3-tetramethylguanidine substituted derivatives of cyclotriphosphazene: Thermal and spectroscopic investigations of the products**
TÜRE S., GURBANOV R.
Phosphorus, Sulfur and Silicon and the Related Elements, vol.193, no.10, pp.620-629, 2018 (SCI-Expanded)
- XXXVI. **Reactions of cyclochlorotriphosphazatriene with 2-mercaptoethanol. Calorimetric and spectroscopic investigations of the derived products**
TÜRE S., GURBANOV R., Tuna M.
Phosphorus, Sulfur and Silicon and the Related Elements, vol.193, no.9, pp.600-610, 2018 (SCI-Expanded)
- XXXVII. **Aspects of silver tolerance in bacteria: infrared spectral changes and epigenetic clues**
GURBANOV R., S. Ozek N., TUNÇER S., Severcan F., GÖZEN A. G.
Journal of Biophotonics, vol.11, no.5, 2018 (SCI-Expanded)
- XXXVIII. **Rapid classification of heavy metal-exposed freshwater bacteria by infrared spectroscopy coupled with chemometrics using supervised method**
GURBANOV R., GÖZEN A. G., Severcan F.
Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, vol.189, pp.282-290, 2018 (SCI-Expanded)
- XXXIX. **Using ISSR markers in determination of genetic relationship between $2n = 54$ and $2n = 60$ cytotypes of *Nannospalax xanthodon* (Nordmann, 1840) (Mammalia, Rodentia) from Central Anatolia**
Использование ISSR маркеров в определении генетической связи между $2n = 54$ и $2n = 60$ цитотипами *Nannospalax xanthodon* (Nordmann, 1840) (Mammalia, Rodentia) из Центральной Анатолии
YAĞCI T., Şen E., GURBANOV R.
Russian Journal of Theriology, vol.17, no.2, pp.100-107, 2018 (SCI-Expanded)
- XL. **Restoring effect of selenium on the molecular content, structure and fluidity of diabetic rat kidney**

brush border cell membrane

GURBANOV R., Bilgin M., Severcan F.

Biochimica et Biophysica Acta - Biomembranes, vol.1858, no.4, pp.845-854, 2016 (SCI-Expanded)

XLI. Quick Discrimination of Heavy Metal Resistant Bacterial Populations Using Infrared Spectroscopy Coupled with Chemometrics

GURBANOV R., Simsek Ozek N., GÖZEN A. G., Severcan F.

Analytical Chemistry, vol.87, no.19, pp.9653-9661, 2015 (SCI-Expanded)

XLII. FT-IR spectroscopy in diagnosis of diabetes in rat animal model

Severcan F., Bozkurt O., GURBANOV R., Gorgulu G.

Journal of Biophotonics, vol.3, no.8-9, pp.621-631, 2010 (SCI-Expanded)

Articles Published in Other Journals

- I. **From Mass Spectrometry to Glycan Microarrays: An Overview of Analytical Techniques in Glycomics**
TEKİN B., GURBANOV R.
Bilecik Şeyh Edebali Üniversitesi Fen Bilimleri Dergisi, 2024 (Peer-Reviewed Journal)
- II. **Yeşil Sentez Yöntemi İle Althaea officinalis Bitkisi Kullanılarak Elde Edilen Nanokompozitlerin Karakterizasyonu ve Hemolitik Aktivitelerinin Değerlendirilmesi**
Şensoy Gün B., Tunalı B., Gurbanov R.
JOURNAL OF GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES OF MEHMET AKIF ERSOY UNIVERSITY, vol.2024, pp.1-15, 2024 (Peer-Reviewed Journal)
- III. **Alphafold: Derin Öğrenme ve Sinir Ağları Yoluyla Protein Katlamasında Devrim Yaratmak**
TEKİN B., GURBANOV R.
İstanbul Ticaret Üniversitesi Fen Bilimleri Dergisi, vol.22, no.44, pp.445-466, 2023 (Peer-Reviewed Journal)
- IV. **Assessment of left ventricular functions with myocardial performance index in coronary slow flow phenomenon**
ARDAHANLI İ., AKGÜN O., ÖZMEN M., GURBANOV R., MIHALJEVIC O.
ANNALS OF CLINICAL AND ANALYTICAL MEDICINE, vol.13, no.12, pp.1414-1418, 2022 (Peer-Reviewed Journal)
- V. **Association between the atrial septal aneurysm and frequent premature ventricular complexes**
ARDAHANLI İ., ÖZMEN M., AKGÜN E. O., KARAKURT D., GURBANOV R., MIHALJEVIC O.
ANNALS OF CLINICAL AND ANALYTICAL MEDICINE, vol.13, no.10, pp.1143-1147, 2022 (Peer-Reviewed Journal)
- VI. **The Use of Fourier-Transform Infrared Spectroscopy to Determine Potential Starch-based Prebiotics**
GURBANOV R., TUNÇER S.
KSU TARIM VE DOĞA DERGİSİ-KSU JOURNAL OF AGRICULTURE AND NATURE, vol.24, no.1, pp.22-30, 2021 (ESCI)
- VII. **HEAVY METAL-ASSOCIATED CHROMOSOMAL ABERRATIONS IN SUBTERRANEAN MAMMALS (RODENTIA: SPALACIDAE) FROM POLLUTED SOILS**
YAĞCI T., GURBANOV R.
Eskişehir Teknik Üniversitesi Bilim ve Teknoloji Dergisi C- yaşam Bilimleri ve Biyoteknoloji (Online), vol.9, no.2, pp.169-178, 2020 (Peer-Reviewed Journal)
- VIII. **TPH1 (tryptophan hydroxylase 1)**
GURBANOV R., Karaçam S.
Atlas of Genetics and Cytogenetics in Oncology and Haematology, vol.24, no.11, pp.414-423, 2020 (Scopus)
- IX. **A2M (alpha-2-macroglobulin)**
GURBANOV R., Samgane G.
Atlas of Genetics and Cytogenetics in Oncology and Haematology, vol.24, no.12, pp.457-469, 2020 (Scopus)
- X. **HTR4 (5-hydroxytryptamine receptor 4)**
GURBANOV R., Karadag H.
Atlas of Genetics and Cytogenetics in Oncology and Haematology, vol.24, no.6, pp.224-233, 2020 (Scopus)
- XI. **SLC6A4 (solute carrier family 6 member 4)**
GURBANOV R., Kalkancı B.

- Atlas of Genetics and Cytogenetics in Oncology and Haematology, vol.24, no.1, pp.39-50, 2020 (Scopus)
- XII. **Molecular Aspects of Autism Spectrum Disorder: The Findings on the Immune System and Microbiome**
GURBANOV R.
ARSIV KAYNAK TARAMA DERGISI, vol.29, 2020 (Peer-Reviewed Journal)
- XIII. **NMR and DSC studies on the reactions of pentanedioxy spiro-ansacyclochlorotriphosphazene and pentanedioxy triple-bridgedcylochlorotriphosphazene with monofunctional nucleophiles**
GURBANOV R., TUNA M., TÜRE S.
SAKARYA UNIVERSITY JOURNAL OF SCIENCE, vol.23, no.6, pp.1177-1189, 2019 (Peer-Reviewed Journal)
- XIV. **The effects of repeated antibiotic administration to juvenile BALB/c mice on the microbiota status and animal behavior at the adult age**
Ceylani T., Jakubowska-Doğru E., GURBANOV R., Teker H. T., GÖZEN A. G.
Heliyon, vol.4, no.6, 2018 (Scopus)
- XV. **Reactions of cyclochlorotriphosphazatriene with 1-amino-2-propanol. Calorimetric and spectroscopic investigations of the derived products**
TÜRE S., GURBANOV R., TUNA M.
SAKARYA UNIVERSITY JOURNAL OF SCIENCE, vol.22, pp.1033-1047, 2018 (Peer-Reviewed Journal)
- XVI. **PNP (Purine Nucleoside Phosphorylase)**
GURBANOV R., TUNÇER S.
Atlas of Genetics and Cytogenetics in Oncology and Haematology, vol.22, no.11, pp.431-438, 2018 (Scopus)
- XVII. **MOLECULAR PROFILE OF ORAL PROBIOTIC BACTERIA TO BE USED WITH FUNCTIONAL FOODS**
GURBANOV R., YILDIZ F.
Journal of Food and Health Science, vol.3, pp.117-131, 2017 (Peer-Reviewed Journal)
- XVIII. **CFAP99 (Cilia and Flagella Associated Protein 99)**
Tunçer S., Gurbanov R.
ATLAS OF GENETICS AND CYTOGENETICS IN ONCOLOGY AND HAEMATOLOGY, no.3, 2016 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Phosphorus solubilizing microorganisms**
GURBANOV R., KALKANCI B., KARADAĞ H., SAMGANE G.
in: Biofertilizers : Study and Impact, Inamuddin, Editor, Wiley-Scrivener, New York, pp.151-182, 2021
- II. **Synthetic polysaccharide-based vaccines: Progress and achievements**
GURBANOV R.
in: Polysaccharides: Properties and Applications, Inamuddin, Editor, Wiley, New York, pp.683-699, 2021
- III. **Bacterial Biofilms in Bioremediation of Metal-Contaminated Aquatic Environments**
GURBANOV R., SEVERCAN F.
in: Methods for Bioremediation of Water and Wastewater Pollution, Inamuddin, Mohd Imran Ahamed, Eric Lichtfouse, Abdullah M. Asiri, Editor, Springer Nature, Cham, pp.117-135, 2020
- IV. **Bağırsak Mikrobiyotası Ekseninde Multipl Skleroz: Probiyotiklerin Rolü**
GURBANOV R., UZUN C.
in: Güncel Temel Tıp Bilimleri Çalışmaları I, , Editor, Akademisyen Kitabevi, Ankara, pp.83-97, 2019

Refereed Congress / Symposium Publications in Proceedings

- I. **PRODUCTION OF ANTIMICROBIAL NANOCOMPOSITE FILM CONTAINING SILVER NANOPARTICLES BY GREEN SYNTHESIS METHOD**
ŞENSOY GÜN B., AYTİMUR A., Karagöl Ç., GURBANOV R.

4. BİLSEL INTERNATIONAL HARPUR SCIENTIFIC RESEARCHES CONGRESS, 09 November 2024

- II. **A METHODOLOGICAL APPROACH FOR THE DIRECT ANALYSIS OF AIRBORNE PLASTIC PARTICLES BY PYROLYSIS-GC/MS**
Dana P. A., Şensoy Gün B., Gurbanov R., Gedik K.
7th International Congress on Agriculture, Environment and Health, Bursa, Turkey, 30 May - 01 June 2024, pp.137
- III. **Use of Olive leaf Extract as a Preservative in Commercial and Homemade Tomato Pastes**
TOZOĞLU F., Ekiz E., Tokgöz G., GURBANOV R.
2. Uluslararası Gıda Kimyası Kongresi, Antalya, Turkey, 14 - 16 May 2023
- IV. **BİLİMİN YENİ KAHRAMANI: AlphaFold TEKNOLOJİSİ ve SAĞLIK ALANINDAKİ DEVRİMİ**
TEKİN B., GURBANOV R.
1. Ulusal Sağlık Hizmetleri ve Bilimleri Kongresi, İstanbul, Turkey, 12 May 2023
- V. **TIPTA YAPAY ZEKA DEVRİMİ: ZORLUKLAR VE FIRSATLAR**
GURBANOV R.
1. Ulusal Sağlık Hizmetleri ve Bilimleri Kongresi, İstanbul, Turkey, 11 May 2023
- VI. **Investigation of the Synergistic Effects of Treatment with Chlorhexidine and zithromycin on Escherichia coli by Infrared Spectroscopy**
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