

# Prof. NİLÜFER CİHANGİR

## Personal Information

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## International Researcher IDs

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Yoksis Researcher ID: 5008

## Education Information

Doctorate, Hacettepe University, Fen Fakültesi, Biyoloji/ Biyoteknoloji, Turkey 1987 - 1992

Postgraduate, Hacettepe University, Tıp Fakültesi, Mikrobiyoloji, Turkey 1986 - 1987

Undergraduate, Hacettepe University, Fen Fakültesi, Biyoloji, Turkey 1979 - 1984

## Foreign Languages

English, B2 Upper Intermediate

## Dissertations

Doctorate, *Aspergillus niger*'den gibberellik asit üretimi, Hacettepe Üniversitesi, Fen Bilimleri, Biyoloji/Biyoteknoloji, 1992

Postgraduate, Protez enzimin bakteriyel kaynaklardan saflaştırılması ve bazı kinetik özelliklerinin incelenmesi, Hacettepe Üniversitesi, Sağlık Birimleri Enstitüsü, Mikrobiyoloji, 1987

## Research Areas

Life Sciences, Microbiology, Natural Sciences

## Academic Titles / Tasks

Professor, Hacettepe University, Fen Fakültesi, Biyoloji, 2003 - Continues

Associate Professor, Hacettepe University, Fen Fakültesi, Biyoloji, 1996 - 2003

Assistant Professor, Hacettepe University, Fen Fakültesi, Biyoloji, 1995 - 1996

Research Assistant PhD, Hacettepe University, Fen Fakültesi, Biyoloji, 1992 - 1995

Research Assistant, Hacettepe University, Fen Fakültesi, Biyoloji, 1986 - 1992

## Academic and Administrative Experience

## Advising Theses

- CİHANGİR N., MİKROBİYAL BİYOPOLİMER ÜRETİMİ VE ANTİMİKROBİYAL YÜZEY OLARAK KULLANIMININ ARAŞTIRILMASI, Doctorate, G.KOŞARSOY(Student), 2017
- CİHANGİR N., Mikro kirletici bazı ilaçların fungal kaynaklar ile biyodegradasyonun araştırılması, Doctorate, Y.DORUK(Student), 2016
- CİHANGİR N., Çeşitli fungus türlerinin bazı tekstil boya atıklarının renk giderimi üzerine etkisinin araştırılması, Postgraduate, S.REZAEİ(Student), 2014
- CİHANGİR N., Trametes versicolor ile tekstil boyar maddelerinin renginin giderimi, Postgraduate, Ö.ERDEM(Student), 2014
- CİHANGİR N., Rhodotorula mucilaginosa'dan lipaz enzimi üretimi ve aktivitesine etkili parametrelerin belirlenmesi, Postgraduate, H.HAMMAMCHİ(Student), 2014
- CİHANGİR N., Farklı maya kültürlerinden lipaz üretimi ve verim artırımı, Doctorate, Ö.KEBABCI(Student), 2010
- CİHANGİR N., Kahramanmaraş ve çevresinde dermatofitozis etkenlerinin belirlenmesi ve Trichophyton rubrum, Trichophyton mentagrophytes'in proteaz aktivitesinin araştırılması, Doctorate, H.TANIŞ(Student), 2008

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

- I. **Novel levan/bentonite/essential oil films: characterization and antimicrobial activity**  
KOŞARSOY AĞÇELİ G., Hammamchi H., CİHANGİR N.  
JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-MYSORE, vol.59, no.1, pp.249-256, 2022 (SCI-Expanded)
- II. **Fungal biosorption of cadmium(II) onto Fennelia nivea from aqueous solution: equilibrium, thermodynamics, and kinetics**  
ARACAGÖK Y. D., Ogun E., TORUN M., Akyil H., CİHANGİR N., Sanin S. L.  
DESALINATION AND WATER TREATMENT, vol.222, pp.386-393, 2021 (SCI-Expanded)
- III. **Comparison of molecularly imprinted plasmonic nanosensor performances for bacteriophage detection**  
Erdem O., CİHANGİR N., SAYLAN Y., DENİZLİ A.  
NEW JOURNAL OF CHEMISTRY, vol.44, no.41, pp.17654-17663, 2020 (SCI-Expanded)
- IV. **A Novel Approach to Synthesize TiO<sub>2</sub> Nanoparticles: Biosynthesis by Using Streptomyces sp. HC1**  
Ağçeli G., Hammachi H., KODAL S. P., CİHANGİR N., AKSU Z.  
Journal of Inorganic and Organometallic Polymers and Materials, vol.30, no.8, pp.3221-3229, 2020 (SCI-Expanded)
- V. **Nano-sized biopolymer levan: Its antimicrobial, anti-biofilm and anti-cancer effects**  
KOŞARSOY AĞÇELİ G., CİHANGİR N.  
CARBOHYDRATE RESEARCH, vol.494, 2020 (SCI-Expanded)
- VI. **Detecting Fingerprints of Waterborne Bacteria on a Sensor**  
SAYLAN Y., Erdem O., CİHANGİR N., DENİZLİ A.  
CHEMOSENSORS, vol.7, no.3, 2019 (SCI-Expanded)
- VII. **Partially sulfonated styrene-(ethylene-butylene)-styrene copolymers: Nanostructures, bio and electro-active properties**  
Orujalipoor I., Polat K., Huang Y., İde S., Şen M., Jeng U., Ağçeli G., Cihangir N.  
Materials Chemistry and Physics, vol.225, pp.399-405, 2019 (SCI-Expanded)
- VIII. **Molecularly imprinted nanoparticles based plasmonic sensors for real-time Enterococcus faecalis detection**  
Erdem O., SAYLAN Y., CİHANGİR N., DENİZLİ A.  
BIOSENSORS & BIOELECTRONICS, vol.126, pp.608-614, 2019 (SCI-Expanded)
- IX. **Biodegradation of diclofenac with fungal strains**

- ARACAGÖK Y. D., Goker H., CİHANGİR N.  
ARCHIVES OF ENVIRONMENTAL PROTECTION, vol.44, no.1, pp.55-62, 2018 (SCI-Expanded)
- X. **Biodegradation of micropollutant naproxen with a selected fungal strain and identification of metabolites**  
ARACAGÖK Y. D., Goker H., CİHANGİR N.  
ZEITSCHRIFT FÜR NATURFORSCHUNG SECTION C-A JOURNAL OF BIOSCIENCES, vol.72, pp.173-179, 2017 (SCI-Expanded)
- XI. **Comparison of three Yarrowia lipolytica strains for lipase production: NBRC 1658, IFO 1195, and a local strain**  
KEBABCI O., Cihangir N.  
TURKISH JOURNAL OF BIOLOGY, vol.36, no.1, pp.15-24, 2012 (SCI-Expanded)
- XII. **Removal of chlorophenols from aquatic systems using the dried and dead fungus Pleurotus sajor caju**  
Denizli A., Cihangir N., Tuzmen N., Alsancak G.  
BIORESOURCE TECHNOLOGY, vol.96, no.1, pp.59-62, 2005 (SCI-Expanded)
- XIII. **Stimulation of the gibberellic acid synthesis by Aspergillus niger in submerged culture using a precursor**  
Cihangir N.  
WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY, vol.18, no.8, pp.727-729, 2002 (SCI-Expanded)
- XIV. **Removal of cadmium by Pleurotus sajor-caju basidiomycetes**  
Cihangir N., SAGLAM N.  
ACTA BIOTECHNOLOGICA, vol.19, no.2, pp.171-177, 1999 (SCI-Expanded)
- XV. **Evaluation of some food industry wastes for production of gibberellic acid by fungal source**  
Cihangir N., Aksoza N.  
ENVIRONMENTAL TECHNOLOGY, vol.18, no.5, pp.533-537, 1997 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Biosynthesis of Zirconium dioxide Nanoparticles by Streptomyces sp. HC1: Characterization and Bioactivity**  
KOŞARSOY AĞÇELİ G., Hammamchi H., CİHANGİR N., AKSU Z.  
Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.16, no.1, pp.224-238, 2023 (Peer-Reviewed Journal)
- II. **In Vitro Evaluation Of Naproxen Metabolite, O-Desmethylnaproxen On A Mouse Connective Tissue Fibroblast Cells**  
Çetin E., Aracagök Y. D., Göker H., Onur M. A., Cihangir N.  
Hacettepe Journal of Biology and Chemistry, vol.49, no.1, pp.25-36, 2021 (Peer-Reviewed Journal)
- III. **Synthesis, characterization and antimicrobial performance of novel nanostructured biopolymer film based on levan/clay/LL-37 antimicrobial peptide**  
Ağçeli G., CİHANGİR N.  
Biocatalysis and Agricultural Biotechnology, vol.23, 2020 (ESCI)
- IV. **Decolorization of Reactive Blue 19 Dye by Bacillus megaterium Isolated from soil.**  
ERDEM Ö., ERKAN TÜRKMEN K., ERDÖNMEZ D., ARACAGÖK Y. D., CİHANGİR N.  
Hacettepe journal of biology and chemistry, vol.47, no.2, pp.193-201, 2019 (Peer-Reviewed Journal)
- V. **Yeryüzünde Petrol Kirliliği ve Biyolojik Arıtımı**  
CİHANGİR N.  
POPÜLER BİLİM, pp.34-38, 2017 (Peer-Reviewed Journal)
- VI. **Production of Lipase by Newly Isolated Rhodotorula musilaginosa by Using Molasses ,Important Environmental Pollutant.**  
HAMMAMCHİ H., CİHANGİR N.  
CEST 2017, vol.1, pp.1-5, 2017 (Peer-Reviewed Journal)

- VII. **Color Removal of Some Textile Dyes from Aqueous Solutions Using *Trametes versicolor*** .  
ERDEM Ö., CİHANGİR N.  
Hacettepe Journal of Biology and Chemistry, vol.45, 2017 (Peer-Reviewed Journal)
- VIII. **Enfeksiyon Hastalıklarının Türk ve Dünya Edebiyatı Üzerine Etkisi**  
CİHANGİR N.  
POPÜLER BİLİM DERGİSİ, pp.40-41, 2016 (Peer-Reviewed Journal)
- IX. **Yaşam Mikroorganizmalar Sayesinde Sürüyor**  
CİHANGİR N.  
Herkes Bilim ve Teknoloji Dergisi, pp.8, 2016 (Peer-Reviewed Journal)
- X. **Decolorization of Reactive Blue 24 Dye by *Fennellia nivea***  
ARACAGÖK Y. D., AKYIL M. H., ERDEM Ö., CİHANGİR N.  
Eur Asia 2016 Waste Management Symposium Proceeding Book, pp.1-5, 2016 (Peer-Reviewed Journal)
- XI. **Decolorization of Reactive Black 5 by *Yarrowia lipolytica* NBRC 1658**  
ARACAGÖK Y. D., CİHANGİR N.  
American Journal of Microbiological Research, vol.1, pp.16-20, 2013 (Peer-Reviewed Journal)
- XII. **Klinik İzolatlardan Elde Edilen *Trichophyton rubrum* ve *Trichophyton mentagrophytes* in Proteaz Aktivitelerinin Araştırılması**  
CİHANGİR N., TANIŞ H.  
Fırat Üniv.Tıp Fak.Dergisi, vol.3, pp.137-144, 2009 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Sensor Applications For Environmental Pollutants.**  
SAYLAN Y., ERDEM Ö., YILMAZ F., CİHANGİR N., DENİZLİ A.  
in: Affinity Sensors, Adil denizli, Editor, Kukla Kırtasiye Bilgisayar ve Malzeme Tic.Ltd.Şti.Beytepe, ANKARA, Ankara, pp.53-77, 2018

## Refereed Congress / Symposium Publications in Proceedings

- I. **Preparation and Characterization of Levan-clay Nanocomposite Films and Their Antimicrobial Activities.**  
KOŞARSOY AĞÇELİ G., HAMMAMCHİ H., CİHANGİR N.  
14th Nanoscience and Nanotechnology Conference, İzmir, Turkey, 22 - 25 September 2018
- II. **Green Synthesis Zirconia (  $ZrO_2$  ) Nanoparticles Using *Opuntia Ficus indica*.**  
KOŞARSOY AĞÇELİ G., HAMMAMCHİ H., KODAL S. P., CİHANGİR N.  
14th Nanoscience and Nanotechnology Conference, İzmir, Turkey, 22 - 25 September 2018
- III. **Production of Microbial Biopolymer of Levan and Its Characterization**  
KOŞARSOY AĞÇELİ G., CİHANGİR N., Hammamchi H.  
ULUSLARARASI KATILIMLI VII. POLİMER BİLİM VE TEKNOLOJİ KONGRESİ, Eskişehir, Turkey, 9 - 12 September 2018
- IV. **Microbial Production of Pullulan Biyopolimer by *Aureobasidium Pullulans* and Determined Its Bioactivities**  
Hammamchi H., KOŞARSOY AĞÇELİ G., CİHANGİR N.  
ULUSLARARASI KATILIMLI VII. POLİMER BİLİM VE TEKNOLOJİ KONGRESİ, Eskişehir, Turkey, 09 September 2018
- V. **Adsorbtion of Copper by *Fennellia nivea* Powder**  
AKYIL M. H., Şen S., Özacar S., Gümüş M., ARACAGÖK Y. D., CİHANGİR N.  
International Eurasian Conference on Biological and Chemical Sciences, 26 - 27 April 2018
- VI. **Preparation of Molecularly Imprinted Polymers for *Enterococcus faecalis* Detection** .  
ERDEM Ö., SAYLAN Y., CİHANGİR N., DENİZLİ A.

13 th Nanoscience and Nanotechnology Conference, Antalya, Turkey, 22 - 25 October 2017

VII. **Biological Production of TiO<sub>2</sub>, BIO-NPS by Soil Isolated Bacteria.**

HAMMAMCHİ H., KOŞARSOY AĞÇELİ G., KODAL S. P., CİHANGİR N.

13 th Nanoscience and Nanotechnology Conference, Antalya, Turkey, 22 - 25 October 2017

VIII. **Biosynthesis of Exopolysaccharide Nanoparticles and Determined Their Bioactivity.**

HAMMAMCHİ H., KOŞARSOY AĞÇELİ G., ŞENGÜR E., CİHANGİR N.

13 th Nanoscience and Nanotechnology Conference, Antalya, Turkey, 22 - 25 October 2017

IX. **Antibacterial and Antibiofilm Activity of Extracellular Synthesized Zirconia Nps From Bacteria.**

KOŞARSOY AĞÇELİ G., HAMMAMCHİ H., KODAL S. P., CİHANGİR N.

13 th Nanoscience and Nanotechnology Conference, Antalya, Turkey, 22 - 25 October 2017

X. **Bacterial Surface Protein Imprinted Nanoparticles for Surface Plasmon Resonance Sensor Applications.**

ERDEM Ö., SAYLAN Y., CİHANGİR N., DENİZLİ A.

Microbiologia Balkanika 10th Balkan Congress of Microbiology, Sofija, Bulgaria, 16 - 18 October 2017

XI. **Isolation of Bioflocculant Producing Bacteria from Waste Water and Soil.**

ERKAN TÜRKMEN K., ERDEM Ö., CİHANGİR N.

Microbiologia Balkanika 10th Balkan Congress of Microbiology, Sofija, Bulgaria, 16 - 18 October 2017

XII. **Synthesis and Characterization of Bacterial Surface Protein Imprinted Nanoparticles.**

ERDEM Ö., SAYLAN Y., CİHANGİR N., DENİZLİ A.

Microbiologia Balkanika 10th Balkan Congress of Microbiology, Sofija, Bulgaria, 16 - 18 October 2017

XIII. **Rhodotorula glutinis : Extracellular synthesis of Silver Nanoparticles and Lipase Production Using Food Industry Waste, Molasses.**

HAMMAMCHİ H., CİHANGİR N.

15th International Conference on Environmental Science and Technology, RHODES, 31 August - 02 September 2017

XIV. **Biosynthesis of Zirconia Nanoparticles by Microorganisms**

KODAL S. P., HAMMAMCHİ H., KOŞARSOY AĞÇELİ G., CİHANGİR N., AKSU Z.

FEMS 7th Congress of European Microbiologists, Valencia, Spain, 9 - 13 July 2017

XV. **Determination of Nanoparticle by Extracellular Synthesis of TiO<sub>2</sub> Bio-NPS from Microorganisms and its Biological Activity.**

KODAL S. P., KOŞARSOY AĞÇELİ G., HAMMAMCHİ H., AKSU Z., CİHANGİR N.

FEMS 7th Congress of European Microbiologists, Valencia, Spain, 9 - 13 July 2017

XVI. **Sunlight Mediated Synthesis of Silver Nanoparticles by Yarrowia lypolitica NBRC 1658 and Saccharomyces cerevisiae and Determination of Antimicrobial Activity**

HAMMAMCHİ H., KOŞARSOY AĞÇELİ G., CİHANGİR N.

FEMS 7th Congress of European Microbiologists, Valencia, Spain, 9 - 13 July 2017

XVII. **Extracellular Synthesis of Silver Nanoparticles by Monascus sp. and its Biomedical Applications**

HAMMAMCHİ H., KOŞARSOY AĞÇELİ G., CİHANGİR N.

FEMS 7th Congress of European Microbiologists, Valencia, Spain, 9 - 13 July 2017

XVIII. **Anti-biofilm Activity of the Metabolites of Streptomyces Isolates Against Enterobacteriaceae.**

AKYIL M. H., CİHANGİR N.

FEMS 7th Congress of European Microbiologists, Valencia, Spain, 9 June - 13 July 2017

XIX. **Effect Of Contact-Dependent Growth Inhibition (CDI) On Biofilm Formation Of E.coli 25922.**

AKYIL M. H., CİHANGİR N., GENÇ S., SAYIN M.

FEMS 7th Congress of European Microbiologists, Valencia, Spain, 9 - 13 July 2017

XX. **Biosynthesis of Zirconia Nanoparticles by Microorganisms**

KODAL S. P., HAMMAMCHİ H., KOŞARSOY AĞÇELİ G., CİHANGİR N., AKSU Z.

7th Congress of European Microbiologists FEMS 2017, 9 - 13 July 2017

XXI. **Determination of nanoparticle by extracellular synthesis of TiO<sub>2</sub> Bio-NPS from Microorganisms and Its Biological Activity**

KODAL S. P., KOŞARSOY AĞÇELİ G., HAMMAMCHİ H., CİHANGİR N., AKSU Z.

7th Congress of European Microbiologists FEMS 2017, 9 - 13 July 2017

- XXII. **Determination of Nanoparticle by Extracellular Synthesis of TiO<sub>2</sub>-NPS from Microorganisms and Its Biological Activity**  
KODAL S. P., KOŞARSOY AĞÇELİ G., HAMMAMCHI H., CİHANGİR N., AKSU Z.  
7th Congress on European Microbiologists, 9 - 13 July 2017
- XXIII. **Aminoasit Temelli Nanopartiküllerin Sentezlenmesi Ve Karakterizasyonu**  
ERDEM Ö., SAYLAN Y., DENİZLİ A., CİHANGİR N.  
11. Ulusal Afinite Teknikleri Kongresi Adnan Menderes Üniversitesi, Aydın, Turkey, 15 - 17 June 2017
- XXIV. **Cadmium (II) Biosorption from Aqueous Solutions by Fennelia nivea Powder: Effect of Physicochemical Conditions**  
ÖĞÜN E., ARACAGÖK Y. D., CİHANGİR N., SANİN S. L.  
ICOCEE International Conference on Civil and Environmental Engineering, Turkey, 8 - 10 May 2017
- XXV. **Comparison of the Fennelia nivea Powder and Activated Charcoal on Bioremoval of Reactive Blue 24 Dye**  
AKYIL M. H., ARACAGÖK Y. D., CİHANGİR N.  
2nd International Conference on Environmental Science and Technology (ICOEST), 28 September - 02 October 2016
- XXVI. **Decolorization of Reactive Red 120 Dye by Fennelia nivea Powder**  
AKYIL M. H., ERDEM Ö., ARACAGÖK Y. D., CİHANGİR N.  
European Biotechnology Congress, Riga, Lithuania, 5 - 07 May 2016, vol.231, pp.587
- XXVII. **Biosynthesized Silver Bio Nanoparticles from Different Yeasts Sources for Several Biological Applications**  
HAMMACHI H., KOŞARSOY AĞÇELİ G., MOSAYYEBİ S., CİHANGİR N.  
12th International Nanoscience and Nanotechnology Conference, Kocaeli, Turkey, 3 - 05 July 2016
- XXVIII. **Rhodotorula glutinis Effect of Synthesised Silver Nanoparticle on Lipase Activity**  
HAMİDEH H., KOŞARSOY AĞÇELİ G., CİHANGİR N.  
12th International Nanoscience and Nanotechnology Conference, Kocaeli, Turkey, 3 - 05 July 2016
- XXIX. **Green Synthesis of Silver Nanoparticles Using Candida Species and Its Application in Biomedicine**  
KOŞARSOY AĞÇELİ G., hammamchi h., CİHANGİR N.  
12th International Nanoscience and Nanotechnology Conference, 3 - 05 June 2016
- XXX. **Extracellular Synthesis of Silver Bio Nanoparticles from Fungi Sources under Different Condition**  
KOŞARSOY AĞÇELİ G., hammamchi h., Mosayyebi s., CİHANGİR N.  
12th International Nanoscience and Nanotechnology Conference, 3 - 05 June 2016
- XXXI. **Synthesis of Silver Nanoparticle from Gram Negative and Gram Positive Bacteria and Detection of Its Antimicrobial Activities**  
hammamchi h., KOŞARSOY AĞÇELİ G., CİHANGİR N.  
12th International Nanoscience and Nanotechnology Conference, 3 - 05 June 2016
- XXXII. **Decolorization of Reactive Blue 24 Dye by Fennelia nivea biomass**  
ARACAGÖK Y. D., AKYIL M. H., ERDEM Ö., CİHANGİR N.  
Eurasia 2016 Waste Management Symposium, İstanbul, Turkey, 2 - 04 May 2016
- XXXIII. **Decolorization of Reactive Red 120 and Infaset Black Dyes By Fennelia nivea Biomass**  
ERDEM Ö., ARACAGÖK Y. D., AKYIL M. H., CİHANGİR N.  
1 st International Conference on Environmental Science and Technology, Sarajevo, Bosnia And Herzegovina, 9 - 13 September 2015
- XXXIV. **Production of Lipase Enzyme by a Novel Fungal Source Trichoderma Sp**  
AKYIL M. H., CİHANGİR N.  
6th Congress of European Microbiologists. FEMS 2015, Maastricht, Netherlands, 7 - 11 June 2015
- XXXV. **Degradation of Naproxen by a Selected Fungal Strain**  
ARACAGÖK Y. D., CİHANGİR N., GÖKER A. H.  
6. Avrupa Biyoteknoloji Kongresi, 5 - 11 June 2015
- XXXVI. **Parameters Affecting the Production of Lipase Enzyme by a New Isolate Yeast**

HAMMAMCHİ H., CİHANGİR N.

6th Congress of European Microbiologists. FEMS 2015, Maastricht, Netherlands, 7 - 11 June 2015

XXXVII. **Biodegradation of naproxen by Aspergillus niger and identification of some intermediates**

ARACAGÖK Y. D., Goker H., CİHANGİR N.

European Biotechnology Congress, Bratislava, Slovakia, 16 - 18 May 2013, vol.24

## Supported Projects

GÜNAN YÜCEL H., HAMMAMCHİ H., AKSU Z., KOŞARSOY AĞÇELİ G., CİHANGİR N., Project Supported by Higher Education Institutions, Mikrobiyal Yöntemlerle Üretilen ZnO Nanopartikülleri ve Curdlan Biyopolimerinden Polimer Nanokompozit Malzeme Geliştirilmesi, 2020 - 2022

CİHANGİR N., Sayın M., Project Supported by Higher Education Institutions, Yeni İzolat Streptomyces Türlerinden Sekonder Metabolit Üretimi ve Biyolojik Aktivitelerinin İncelenmesi, 2019 - 2021

CİHANGİR N., Hammamchi H., Project Supported by Higher Education Institutions, Mikrobiyal Yollar İle Sentezlenen Gümüş Nanopartiküllerinin Biyoaktivitelerinin Belirlenmesi, 2018 - 2020

KODAL S. P., Hammamchi H., CİHANGİR N., KOŞARSOY AĞÇELİ G., Project Supported by Higher Education Institutions, Mikrobiyal Yolla Elde Edilen Biyopolimerik Hidrojel Yapılı Taşıyıcı Sistem Geliştirilmesi, Karakterizasyonu ve in-vivo ve in-vitro Çalışmalarının İncelenmesi, 2018 - 2020

CİHANGİR N., Erdem Ö., SAYLAN Y., Project Supported by Higher Education Institutions, Sularda Fekal Kirlilik Tayinine Yönelik Biyosensör Geliştirilmesi, 2019 - 2019

SAYLAN İNCİ Y., CİHANGİR N., Erdem Ö., Project Supported by Higher Education Institutions, Yüzey Plazmon Rezonans Sensör Uygulamaları için Bakteri Yüzey Proteini Baskılanmış Nanopartiküllerin Hazırlanması, 2018 - 2019

KOŞARSOY AĞÇELİ G., CİHANGİR N., HAMMAMCHİ H., Project Supported by Higher Education Institutions, Farklı Esansiyel Yağlarla Zenginleştirilmiş Mikrobiyal Biyopolimer Esaslı Filmlerin Antimikrobiyal Etkisinin Belirlenmesi, 2018 - 2019

CİHANGİR N., AKYIL M. H., Project Supported by Higher Education Institutions, Bazı Gram Negatif Bakterilerde CDI Contact Dependent Growth Inhibition Kontakt bağımlı inhibisyon mekanizmasının araştırılması, 2017 - 2018

CİHANGİR N., ERDEM Ö., SAYLAN Y., Project Supported by Higher Education Institutions, Sularda Fekal Kirlilik Tayinine Yönelik Sensör Geliştirilmesi, 2017 - 2018

CİHANGİR N., KOŞARSOY AĞÇELİ G., Project Supported by Higher Education Institutions, MİKROBİYAL BİYOPOLİMER ÜRETİMİ VE ANTİMİKROBİYAL YÜZEY OLARAK KULLANIMININ ARAŞTIRILMASI, 2016 - 2017

KODAL S. P., AKSU Z., CİHANGİR N., KOŞARSOY AĞÇELİ G., HAMMAMCHİ H., Project Supported by Higher Education Institutions, BİYOLOJİK YOLLARLA SENTEZLENEN NANOPARTİKÜLLERİN BİYOAKTİVİTELERİNİN BELİRLENMESİ, 2016 - 2017

CİHANGİR N., ARACAGÖK Y. D., Project Supported by Higher Education Institutions, Mikro Kirlitici Bazı İlaçların Fungal Kaynaklar İle Biyodegradasyonun Araştırılması, 2016 - 2016

CİHANGİR N., ARACAGÖK Y. D., Project Supported by Higher Education Institutions, Ağrı Kesici Diclofenac Etken Maddesinin Fungal Kaynaklar ile Biyoyıkımının Araştırılması, 2015 - 2016

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