



ÖZGEÇMİŞ

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Yabancı diller : İngilizce

Eğitim

Derece	Bölüm/Program	Üniversite	Tarih
Lisans	Biyomühendislik	Tokat Gaziosmanpaşa Üniversitesi	2014
Yüksek Lisans	Biyomühendislik	Tokat Gaziosmanpaşa Üniversitesi	2018
Doktora	Biyomühendislik	Tokat Gaziosmanpaşa Üniversitesi	2021

Tezler

- Doktora Tezi** : COX-2 Geninin CRISPR/Cas9 aracılı düzenlenmesi için polimerik nanopartikül temelli transfeksiyon ajanının kullanılabilirliğinin araştırılması

Projeler

- 2019-2020, Coordinator**, Expression, Purification and Characterization of Recombinant Human Erythropoietin in Soluble Form in E. coli Expression System, Enforcing Institution: Bartın University, Sponsor Institution: The Scientific and Technological Research Council of Turkey (TÜBİTAK)-1002, Türkiye
- 2017-2020, Coordinator**, Production of Medical Diagnostic Kit for Hepatitis B and Hepatitis C Diseases, Enforcing Institution: Hidrogen Biyoteknoloji Araş. Geliştirme Medikal Sađl. Kimya Eğit. Hizm. İmalat İhr. İth. San. Tic. Ltd. Şti., Sponsor Institution: KOSGEB Cooperation Collaboration Support Program, Türkiye
- 2020-2020, Researcher**, Recombinant Production of Main Protease Enzyme for Establishment of In-Vitro Drug Screening System (BAKKA - Batı Karadeniz Development Agency), Türkiye
- 2019-2021, Researcher**, Investigation of the Effect of Secretome of Lactobacillus Acidophilus, a Probiotic Bacteria, and Pyruvate Kinase on Human Colon Cancer Cells The Scientific and Technological Research Council of Turkey (TÜBİTAK)-1002, Türkiye
- 2015-2016, Coordinator**, Removal of Bitterness in Fruit Juice Industry with Recombinant Naringinase Enzyme, Ministry of Science, Industry and Technology, Türkiye
- 2017-2018, Researcher**, Recombinant Production and Purification of Different Fluorescence Proteins and Investigation of their Usage in Paint-Sensitive Solar Batteries (TÜBİTAK)-1001, Türkiye
- 2021-2022, Researcher**, Production of HRP (Horseradish peroxidase) and GOX (Glucose oxidase) enzymes for Medical Diagnostic Kit Production, Sponsor Scientific Research Project Supported by Higher Education Institutions, Türkiye
- 2020-2022, Researcher**, Endemic *Centaurea cadmea subsp.* Investigation of Inhibitory Effects and Phenolic

Compound Contents on the Activities of Some Medicinal Enzymes of Pontica Plant, Scientific Research Project Supported by Higher Education Institutions, Türkiye

- **2022-2025, Researcher**, Production of high value-added carotenoids in engineered microorganisms and investigation of their antiviral properties against Hepatitis C Virus, Sponsor Institution: The Scientific and Technological Research Council of Turkey (TÜBİTAK)-3001, Türkiye
- **2022-2024, Researcher** Development of Filling Material from Regional Marine Waste to Biodegradable Composites for Natural Gas Processing Logistics, Sponsor Scientific Research Project Supported by Higher Education Institutions, Türkiye
- **2022-2024, Researcher** Recombinant production of GDH enzyme in a bioreactor system for use in bedside glucose measurement devices, Sponsor Health Institutes of Türkiye (TUSEB)
- **2024-2025, Researcher**, Production of recombinant DHFR enzyme in bioreactor system for use in in vitro drug inhibition tests, Sponsor Health Institutes of Türkiye (TUSEB)
- **2023-2025, Researcher**, Akıllı ve Sürdürülebilir Çevre Kapsamında Biyokütle Deniz Atığının Biyo-Bozunur Kompozitlerde Ekolojik Eklenti Olarak Değerlendirilmesi,
- **2025- Researcher**, CAR-T Hücre ve Gen Tedavi Ürünlerinin Klinik Validasyon ve Altyapı Geliştirme Projesi, (TUSEB)
- **2025-Coordinator**, Kutup Bölgesinde Elde Edilecek Bazı Alglerden Ve Bitkilerden Viral Protezlara Karşı Potansiyel Yeni İlaç Aday Moleküllerin Araştırılması(TÜBİTAK-1001)

Posterler, Bildiriler ve Sözlü Sunumlar

- Çelebioğlu H. U., **İmamoğlu R.**, Taş R., Biogenic synthesis of silver nanoparticles using *Trachystemon orientalis* L. and their antibacterial activities (20.10.2021), NANOCON 20.10.2021, Brno
- Çelik A., **İmamoğlu R.**, Kısa D., Recombinant production of β -glucosidase enzyme for biotechnological applications and investigation of the anti-glucosidase effect of endemic plants, Oral Presentation, 5th International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2022)
- T. N. Gökşen., Kaplan Ö., **İmamoğlu R.**, Türkel İ., Gökçe İ., Özgür A., Green Synthesized Iron Nanoparticles Induced Apoptotic Pathways in Breast Cancer Lines by Inhibition of Heat Shock Proteins, 4rd Eurasia Biochemical Approaches & Technologies Congress (EBAT)
- Gökçe İ., Özgür A., Tayhan Y., Kaplan Ö., **İmamoğlu R.**, Tosun N. G., Erden T. S., & Bilgin S., Development of One-Step RT-PCR Kit for Diagnosis of COVID-19, Oral Presentation, 3rd Eurasia Biochemical Approaches & Technologies Congress (EBAT), December 4-5, 2021, Antalya.
- Kaplan Ö., Gökçe İ. & **İmamoğlu R.**, Expression of Recombinant Moloney Murine Leukemia Virus (MMLV) Reverse Transcriptase Enzyme for Development of Viral Diagnostic Kits, 1st International Symposium on Graduate Research in Science Focus on Entrepreneurship and Innovation (ISGRS 2018) October 4-6, 2018, İstanbul.
- **İmamoğlu R.**, Gökçe İ., & Kaplan Ö., Expression of Recombinant Narenginase Enzyme for Debittering of Juices, 1st International Symposium on Graduate Research in Science Focus on Entrepreneurship and Innovation (ISGRS 2018) October 4-6, 2018, İstanbul.
- **İmamoğlu R.**, Kaplan Ö., Bilgin S. & Gökçe İ., Expression, Purification and Characterization of Recombinant Proteinase K From *Tritirachium Album* Limber, *Pichia* 2016, April 3-6, 2016, Antalya.
- Kısa D., **İmamoğlu R.**, Kaya Z., Investigation of the inhibition potential of *Centaurea cadmea* subsp. *pontica* on medicinally important enzymes and its chemical composition 01.11.2021 -03.11.2021), ICAENS2021 (International Conference on Applied Engineering and Natural Sciences) , 2021
- Production of Recombinant Blue Fluorescent Protein (mKate) for Further Researchs in Bioimaging, Buldağ A., **İmamoğlu R.**, Düzgün D., Gökçe İ., Sönmezoğlu S. (02.11.2017 -04.11.2017), Yayın Yeri:International Symposium on Multidisciplinary Studies and Innovative Technologies , 2017
- H. Kuduğ Ceylan, **İmamoğlu R.**, D. Düzgün, İ. Gökçe, S. Sönmezoğlu Red (orange) fluorescent protein TurboRFP from sea anemon: Expression recombinantly in *E. coli* using by bioreactor, purification and characterization, (02.11.2017 -04.11.2017), International Symposium on Multidisciplinary Studies and Innovative Technologies,2017
- D. Düzgün, H. K. Ceylan, **İmamoğlu R.**, İ. Gökçe Prokaryotic Overexpression of A Green Fluorescent Protein(mEmerald) in Bioreactor and its Purifications (24.04.2017 -28.04.2017), International DNA Day and Genome Congress, 2017
- D. Düzgün, S. E. Tayhan, S. Bilgin, İ. Gökçe, **İmamoğlu R.**, Production, Purification and Characterization of EPO as a Medical Biotechnological Product, (19.10.2017 -21.10.2017), 5th International BAU Drug Design Congress, 2017
- **İmamoğlu R.**, D. Duygu, H. K. Ceylan, S. Sönmezoğlu, İ. Gökçe Production of Recombinant Blue Fluorescent Protein (mTagBFP) for Further Researchs in Bioimaging, (02.11.2017 -04.11.2017), Yayın Yeri:International Symposium on Multidisciplinary Studies and Innovative Technologies , 2017
- **İmamoğlu R.**, D. Duygu, H. K. Ceylan, S. Bilgin, İ. Gökçe High Yield Bacterial Expression of sGFP Green Fluorescent Protein Using Inducible *E.coli* Expression System in Bioreactor, (02.11.2017 -04.11.2017), International Symposium on Multidisciplinary Studies and Innovative Technologies, 2017

Yayınlar

- Topcu, K. S. B., Sağ, V., Genç, N., Celik, A., **İmamoğlu, R.**, & Kisa, D. (2025), Phytochemical and Biological Evaluation of Cyanus celikhanensis Extract: An In Silico and In Vitro Approach. *Chemistry & Biodiversity*, e202402247.
- Korkmaz, N., Ceylan, Y., **İmamoğlu, R.**, Kısa, D., Şen, F., & Karadağ, A. H. M. E. T. (2025). Eco-friendly biogenic silver nanoparticles: synthesis, characterization and biological applications. *International Journal of Environmental Science and Technology*, 1-10.
- Kaya, B., Yurttas, L., Baysal, M., Korkut Çelikeş, B., Kaplancıklı, Z. A., & **İmamoğlu, R.** (2024). Synthesis and anticancer activity evaluation of some novel imidazo [1, 2-a] pyridine based heterocycles containing S-alkyl/aryl moiety. Phosphorus, Sulfur, and Silicon and the Related Elements, 1-11.
- Kısa, D., Baş Topcu, K. S., Tunçkol, B., Genç, N., & **İmamoğlu, R.** (2024). Evaluation of Biological Potency of two Endemic Species Integrated with in vitro and in silico Approches: LC–MS/MS Analysis of the Plants. *Chemistry and Biodiversity*, 21(3). <https://doi.org/10.1002/cbdv.202301351>
- Kısa D., Koç E., Topcu Baş S. K., and **İmamoğlu R.** (2024) Heterocyclic compounds with different moieties: synthesis and evaluation of biological activities assisted with the computational study, *Journal of Biomolecular Structure and Dynamics*, DOI: 10.1080/07391102.2023.2268182
- Kaya, Z.; **İmamoğlu, R.**; Ceylan, K.B.; Genç, N.; Kısa, D. Evaluation of Metabolic Enzyme Inhibitory Potency with Molecular Docking Assisted Studies: Phenolic Compound Analysis of Seseli Resinosum. *Journal of Biologically Active Products from Nature* 2023, 13, doi:10.1080/22311866.2023.2186488.
- Kısa, D.; **İmamoğlu, R.**; Genç, N.; Taslimi, P.; Kaya, Z.; Taskin-Tok, T. HPLC Analysis, Phytochemical Content, and Biological Effects of Centaurea Kilae Against Some Metabolic Enzymes: In Vitro and In Silico Studies. *ChemistrySelect* 2023, 8, doi:10.1002/slct.202204196.
- Senocak, A.; **İmamoğlu, R.**; Yılmaz, S. Synthesis of Nickel Oxide Nanoparticles as an Agent for Antibacterial and Wastewater Remediation Applications by Calcination. *International Journal of Materials Research* 2023, 114, doi:10.1515/ijmr-2022-0260.
- Korkmaz, N.; Kısa, D.; Kaplan, Ö.; Tosun, N.G.; Özgür, A.; **İmamoğlu, R.**; Karadağ, A. A Silver Compound with Potential Applications as an Anticancer, Antibacterial, Antifungal, and Anti-Alzheimer's Agent. *Chem Biodivers* 2023, 20, doi:10.1002/cbdv.202300038.
- Kısa, D.; Ceylan, Y.; **İmamoğlu, R.** Accumulation of Phenolic Compounds and Expression of Phenylpropanoid Biosynthesis-Related Genes in Leaves of Basil Transformed with A. Rhizogenes Strains. *Physiology and Molecular Biology of Plants* 2023, 29, doi:10.1007/s12298-023-01320-w.
- **İmamoğlu, R.**, Koç, E., & Kısa, D. (2022). Polyphenolic compounds: Synthesis, assessment of antimicrobial effect and enzymes inhibition against important medicinal enzymes with computational details. *Bioorganic & Medicinal Chemistry Letters*, 65, 128722. <https://doi.org/10.1016/J.BMCL.2022.128722>
- Alp E, **İmamoğlu R**, Savacı U, Turan S, Kazmanlı MK, Genç A. Plasmon-enhanced photocatalytic and antibacterial activity of gold nanoparticles-decorated hematite nanostructures. *J Alloys Compd.* 2021. doi:10.1016/j.jallcom.2020.157021
- Korkmaz N, Akar KB, **İmamoğlu R**, Kısa D, Karadağ A. Synthesis of silver nanowires in a two-phase system for biological applications. *Appl Organomet Chem.* 2021. doi:10.1002/aoc.6213
- Kısa D, **İmamoğlu R**, Genç N, Şahin S, Qayyum MA, Elmastaş M. The interactive effect of aromatic amino acid composition on the accumulation of phenolic compounds and the expression of biosynthesis-related genes in Ocimum basilicum. *Physiol Mol Biol Plants.* 2021. doi:10.1007/s12298-021-01068-1
- Kaplan Ö, Gökşen Tosun N, **İmamoğlu R**, Türkel İ, Gökçe İ, Özgür A. Biosynthesis and characterization of silver nanoparticles from Tricholoma ustale and Agaricus arvensis extracts and investigation of their antimicrobial, cytotoxic, and apoptotic potentials. *J Drug Deliv Sci Technol.* 2022;69(February):103178. doi:10.1016/j.jddst.2022.103178
- Kısa, D., Kaya, Z., **İmamoğlu, R.**, Genç, N., Taslimi, P., & Taskin-Tok, T. (2022). Assessment of antimicrobial and enzymes inhibition effects of Allium kastambulense with in silico studies: Analysis of its phenolic compounds and flavonoid contents. *Arabian Journal of Chemistry.* <https://doi.org/10.1016/j.arabjc.2022.103810>
- Tosun, N. G., Kaplan, Ö., **İmamoğlu, R.**, Türkel, İ., Gökçe, İ., & Özgür, A. (2022). Green synthesized silver nanoparticles with mushroom extracts of Paxina leucomelas and Rhizopogon luteolus induce ROS-Induced intrinsic apoptotic pathway in cancer cells. 1–10. <https://doi.org/10.1080/24701556.2022.2081200>
- Korkmaz, N., Korkmaz, Ş. A., Ceylan, Y., **İmamoğlu, R.**, Bülbül, A. S., Karadağ, A., (2022). New dinuclear cyanido complexes with amine alcohol ligand: synthesis, characterization and biotechnological application potential. *The Ukrainian Biochemical Journal*, 94(1), 75–85. <https://doi.org/10.15407/UBJ94.01.075>
- Kısa, D., Çelik, A., & **İmamoğlu, R.** (2024). Assessment of Inhibitory Ability Against Medicinally Important Enzymes with Invitro and In Silico Studies: Phenolic Content of Endemic Centaurea cadmea subsp. pontica. *Kahramanmaraş Sütçü İmam Üniversitesi Tarım ve Doğa Dergisi*, 27(1). <https://doi.org/10.18016/ksutarimdogva.vi.1294720>
- **İmamoğlu, R.**, Kaplan, Ö., Gök, M. K., & Gökçe, İ. (2022). Polymer-Based Transfection Agents Used In Crispr-Cas9 System. *Türk Doğa ve Fen Dergisi.* <https://doi.org/10.46810/tdfd.795053>

- Kaplan, Ö., **İmamoğlu, R.**, & Gökçe, İ. (2021). High-Level Production of MMLV Reverse Transcriptase Enzyme in Escherichia Coli. *International Journal of Advances in Engineering and Pure Sciences*. <https://doi.org/10.7240/jeps.877806>
- Kaplan, Ö., **İmamoğlu, R.**, & Gökçe, İ. (2021). Recombinant Production of E. coli NAD⁺-dependent DNA ligase as a Target for Antibacterial Drug Discovery. *Kahramanmaraş Sütçü İmam Üniversitesi Tarım ve Doğa Dergisi*. <https://doi.org/10.18016/ksutarimdog.vi.884279>
- Kaplan, Ö., **İmamoğlu, R.**, Şahingöz, İ., & Gökçe, İ. (2021). Recombinant production of Thermus aquaticus single-strand binding protein for usage as PCR enhancer. *International Advanced Researches and Engineering Journal*. <https://doi.org/10.35860/iarej.766741>
- Kuduğ Ceylan, H., **İmamoğlu, R.**, & Gökçe, İ. (2020). Siyan (mavi) Fluoresan Protein Aquamarine'nin Biyoreaktörde Üretilmesi ve Saflaştırılması. *European Journal of Science and Technology*. <https://doi.org/10.31590/ejosat.660492>
- Şenol, B., Kaplan, Ö., **İmamoğlu, R.**, & Gökçe, İ. (2021). Recombinant production and characterization of Aspergillus niger prolyl endopeptidase enzyme for gluten-free food production. *International Journal of Agriculture, Environment and Food Sciences*. <https://doi.org/10.31015/jaefs.2021.3.5>
- Kuduğ, H. , Ataman, B. , **İmamoğlu, R.** , Düzgün, D. & Gökçe, İ. (2019). Production of red fluorescent protein (mCherry) in an inducible E. coli expression system in a bioreactor, purification and characterization . *International Advanced Researches and Engineering Journal* , 3 (1) , 20-25 . Retrieved from <https://dergipark.org.tr/en/pub/iarej/issue/44303/429547>

Görev Alınan Organizasyonlar

- V. Ar-Ge Proje Pazarı(Bartın Üniversitesi),Organizasyon Sorumlusu, Proje PazarıTEYDEB-1503-Proje Pazarları Destekleme Programı, 8220011
- IV. Ar-Ge Proje Pazarı(Bartın Üniversitesi),Düzenleme Kurulu,
- III. Ar-Ge Proje Pazarı(Bartın Üniversitesi),Düzenleme Kurulu,

Kazanılan Ödüller ve Burslar

- 2024-Hitit Üniversitesi Proje Pazarı, 3.lük
- 2023-AOSB Sanayi Odaklı Ar-Ge İnovasyon Proje Pazarı 2.lik
- 2023-TEKNOFEST Biyoteknoloji İnovasyon Yarışması Fikir Kategorisi 2.lik
- 2022-Uşak Üniversitesi TTO 3.Ar-Ge ve Tasarım Proje Pazarı: UTTO, 3. Lük
- 2021-AOSB Sanayi Odaklı Ar-Ge İnovasyon Proje Pazarı
- 2019-Kocaeli 5. Uluslararası Arge Proje Pazarı 2. lik
- 2018-2021- 100/2000 Scholarship (YÖK),2017-Mersin Ar-ge Proje Pazarı 2017 (Mersin Üniversitesi TTO, Jüri Özel Ödülü
- 7. Ar-Ge Proje Pazarı,İstanbul Kimyevi Maddeler ve Mamulleri İhracatçıları Birliği 3.lük
- 2015-2016-2210-C-Domestic Priority Graduate Scholarship Program-TÜBİTAK Directorate of Science Fellowships and Grant Programmes (BİDEB) Supports
- 2016- Karadeniz Technical University Project Competition - First prize-June 2016
- 2015- Zonguldak Bülent Ecevit Universtiy Project Competition- Mansion prize-May 2015

Stajlar ve İş Deneyimleri

Görev Unvanı	Görev Yeri	Tarih
Arş. Gör	Bartın Üniversitesi	2018-2021
Dr. Öğr. Üyesi	Bartın Üniversitesi	2021-
Araştırmacı	TÜSEB-TÜKİYE Kanser Enstitüsü	2023-2024
Araştırmacı	TÜSEB-TÜKİYE Biyoteknoloji Enstitüsü	2024-
Müdür	TÜSEB-Teknoloji Transfer Ofisi	2023-2024
Yönetici	Hidrojen Biyoteknoloji	2017-
Kurucu	imgen Biyoteknoloji	2015-2017

Nitelikler

Rekombinant DNA Teknolojisi, Rekombinant Protein Üretimi, Kütle Spektroskopisi, Biyoinformatik, Biyomühendislik

Metrikler

- Yayın:33
- Atıf :225
- h-index:7
- I10-index:7