

# BURAK BARUT

## ASSOC. PROF.

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAW-5701-2020

ScopusID: 56798054200

Yoksis Researcher ID: 215118



### Education

Doctorate 2016 - 2020	Karadeniz Technical University, Sağlık Bilimleri Enstitüsü, Eczacılıkta Biyokimya, Turkey
Postgraduate 2014 - 2016	Karadeniz Technical University, Sağlık Bilimleri Enstitüsü, Eczacılık Biyokimya, Turkey
Postgraduate 2013 - 2016	Karadeniz Technical University, Fen Bilimleri Enstitüsü, Kimya Anabilim Dalı, Turkey
Undergraduate 2009 - 2013	Karadeniz Technical University, Fen Fakültesi, Kimya, Turkey

### Foreign Languages

English, B2 Upper Intermediate

### Certificates, Courses and Trainings

Vocational Training, Good Manufacturing Practices (GMP)-Good Laboratory Practices (GLP) Requirements and Internal Audit, ETC Danışmanlık, 2019

Vocational Training, ISO 13485: 2016 Medical Devices Quality Management System Requirements and Internal Audit, ETC Danışmanlık, 2019

Vocational Training, ISO 17025:2017 General Requirements For The Competence of Testing and Calibration Laboratories, ETC Danışmanlık, 2019

Vocational Training, Öğreticilerin Eğitimi Sertifika Programı, Trabzon Üniversitesi Sürekli Eğitim Uygulama ve Araştırma Merkezi, 2019

Vocational Training, Kooperatifçilik Geliştirme ve Uyum Eğitimi, Milli Eğitim Bakanlığı Hayat Boyu Öğrenme Genel Müdürlüğü, 2018

Vocational Training, Kişiselleştirilmiş Kansere Tedavisinde Hücre Kültürü, Proteomik & Genomik Uygulamalar Kursu, ARGEFAR (Ege Üniversitesi İlaç Geliştirme ve Farmakokinetik Uygulama Araştırma Merkezi), 2016

Vocational Training, DNA Komet Analiz Yöntemi Kursu, Türkiye Atom Enerjisi Kurumu, 2015

Vocational Training, TÜBİTAK Bilimsel Araştırma Projesi Hazırlama Eğitimi, TÜBİTAK BKTÜ-TÜBİTAK ARDEB Temsilciliği, 2015

Vocational Training, Testing and Calibration Laboratories for Basic Training, PersonaTR, 2012

Vocational Training, İş Sağlığı ve Güvenliği Temel Eğitimi, PersonaTR, 2012

Vocational Training, İstihdamı Zorunlu Personel, Kimyagerler Derneği, 2012

Vocational Training, TS EN ISO/IEC 17025:2005 Deney ve Kalibrasyon Laboratuvarlarının Yeterliliği için Genel Şartlar, Kimyagerler Derneği, 2012

## Dissertations

Doctorate, Yeni BODİPY Bileşiklerinin Fotodinamik Terapi Amaçlı in vitro Etkinliklerinin İncelenmesi, Karadeniz Technical University, Sağlık Bilimleri Enstitüsü, 2020

Postgraduate, Benzotriazol Grubu Taşıyan Yeni Metalli ve Metallsiz Ftalosiyanimlerin Sentezi, Karakterizasyonu, Fotofiziksel ve Fotokimyasal Özelliklerinin İncelenmesi, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Kimya Anabilim Dalı, 2016

Postgraduate, Suda Çözünür Ti(IV) Ftalosiyanim Bileşiklerinin DNA Bağlanma, DNA Kesim, Antioksidan, Antimikrobiyal Aktivitelerinin ve Topoizomeras I İnhibisyonunun İncelenmesi, Karadeniz Technical University, Sağlık Bilimleri Enstitüsü, Eczacılık Biyokimya, 2016

## Academic Positions

Associate Professor  
2022 - Continues

Karadeniz Technical University, Eczacılık Fakültesi, Temel Eczacılık

Assistant Professor  
2021 - 2022

Karadeniz Technical University, Eczacılık Fakültesi, Temel Eczacılık

Research Assistant  
2014 - 2020

Karadeniz Technical University, Eczacılık Fakültesi, Temel Eczacılık

## Funded Projects

- BARUT B., BIYIKLIOĞLU Z., BARUT E. N., SEYHAN G., ÖZTÜRME B. A., Project Supported by Higher Education Institutions, Piridin Grubu İçeren Silisyum Ftalosiyanimlerin Akciğer Kanseri Hücre Hattında in vitro FDT Özelliklerinin ve Apoptotik Yolakla İlişkisinin İncelenmesi, 2024 - Continues
- BIYIKLIOĞLU Z., BARUT B., KELEŞ T., SEYHAN G., KAYAN E., Project Supported by Higher Education Institutions, Morfolin Grupları İçeren Yeni Suda Çözünebilen Ftalosiyanimlerin Sentezi ve In Vitro Biyolojik Aktivitelerinin İncelenmesi, 2024 - Continues
- YAZICI BEKTAŞ N., BARUT B., ORTAHİSAR M., Project Supported by Higher Education Institutions, İki Alchemilla L (Rosaceae) Türü Üzerinde Fitokimyasal Araştırmalar, 2023 - Continues
- Renda G., Barut E. N., Barut B., Yazıcı Bektaş N., Reis R., Yeşil Cantürk Y., TUBİTAK Project, Verbascum longipedicellatum ve Verbascum kurdicum Türlerinden İnflamatuvar Solunum Yolu Hastalıkları İçin Potansiyel

Aktif Bileşiklerin İzolasyonu Ve Olası In Vitro Aktivitelerinin Değerlendirilmesi, 2023 - 2026

5. Gökkaya İ., Renda G., Barut B., Sarı S., Çiçek Polat D., Seyhan G., Gençler Özkan A. M., TUBITAK Project, *Erigeron annuus* (L.) Pers. Toprak Üstü Kısımlarının Enzim İnhibitör ve DNA Hasarına Karşı Koruyucu Etkisinin ve Etkiden Sorumlu Bileşiklerinin Belirlenmesi, 2024 - 2025
6. Barut B., Bıyıklıoğlu Z., Yalçın C. Ö., Barut E. N., Seyhan G., Akkaya D., Altun Ali Y., Research Project of the Presidency of Turkey Health Institutes (TÜSEB), Endometrial kanser tedavisi için yeni FDT ajanların geliştirilmesi ve in vitro etkinliklerinin incelenmesi, 2024 - 2025
7. Barut B., Karakurt A., Alagöz M. A., Sarı S., Sabuncuoğlu S., Ataker Y., Project Supported by Higher Education Institutions, Antimikrobiyal ve kolinesteraz inhibitör etkili yeni azol türevlerinin yapıetki ilişkileri Sentez biyolojik aktivite ve moleküler modelleme çalışmaları, 2023 - 2024
8. KALAYCIOĞLU A. T., EJDER N., ÖZGEN U., BARUT E. N., BARUT B., YILDIZ O., ÖZEL A., DOĞAN İ. S., ALIYAZICIOĞLU R., RENDA G., et al., Project Supported by Higher Education Institutions, Endemik Bitki Ekstraktlarının ve Sentezlenen Bileşiklerin Antimikrobiyal Potansiyellerinin Değerlendirilmesi, 2023 - 2024
9. RENDA G., BARUT B., GÖKKAYA İ., UZUNKAYA Ç., Project Supported by Higher Education Institutions, *Alchemilla pseudocartalinica* Juz Bitkisi Üzerinde Fitokimyasal Araştırmalar ve Biyolojik Aktivite Çalışmaları, 2023 - 2024
10. ÖZEL A., YALÇIN C. Ö., BARUT B., AKKAYA D., ALTUN Y., SARI S., USTA B., Project Supported by Higher Education Institutions, Bazı Azol Türevlerinin Biyolojik Etkinliklerinin Değerlendirilmesi ve Moleküler Modelleme Çalışması, 2022 - 2024
11. KAHRİMAN N., SERDAROĞLU V., BARUT B., AYDIN A., Project Supported by Higher Education Institutions, HALOSÜBTİTÜE AMİNO KALKON PİRAZOLİN PİRİMİDİN TÜREVLERİNİN ve BOR KOMPLEKSLERİNİN SENTEZİ ENZİM İNHİBİSYONU ve KANSER HÜCRELERİ ÜZERİNDEKİ ETKİLERİNİN ARAŞTIRILMASI, 2022 - 2024
12. KAHRİMAN N., AYDIN A., BARUT B., SERDAROĞLU V., Project Supported by Higher Education Institutions, Ultrasonik Yöntem ile Kalkonlardan 5 ve 6 Üyeli Heterosiklik Bileşiklerin ve Bazı Bor Komplekslerinin Sentezi ve Biyolojik Aktivitelerinin İncelenmesi, 2022 - 2024
13. BARUT B., ALTUN Y., BIYIKLIOĞLU Z., ÖZEL A., YALÇIN C. Ö., BARUT E. N., ENGİN S., AKKAYA D., Project Supported by Higher Education Institutions, Silisyum Ftalosiyanın Bileşiklerinin Kolorektal Kansere Hücre Hattına Karşı Fotodinamik Terapi Etkilerinin ve Wnt Yolağı ile İlişkinin Araştırılması, 2022 - 2024
14. BARUT B., YAZICI BEKTAŞ N., SEYHAN G., Project Supported by Higher Education Institutions, *Epimedium pubigerum* DC C Moren Decne Bitkisinin Biyolojik Etkinliklerinin İncelenmesi, 2022 - 2023
15. Barut B., Kulein B., TUBITAK Project, Suda Çözünür Magnezyum (II) Ftalosiyanın Bileşiklerinin DNA Etkileşimlerinin ve Fotodinamik Terapi Potansiyellerinin İncelenmesi, 2022 - 2023
16. Ceren R., Aydın E., Barut B., TUBITAK Project, *Ficus Carica* Bitkisinin Yaprak Ekstrelerinin Antioksidan, Tirozinaz İnhibisyonu Ve Dna Etkileşim Özelliklerinin İncelenmesi, 2021 - 2022
17. KANTEKİN H., ÖZEL A., YALAZAN H., DEMİRBAŞ Ü., BARUT B., Project Supported by Higher Education Institutions, KANSER VE ALZHEİMER HASTALIĞININ TEDAVİSİNE YÖNELİK TRİZOL GRUBU İÇEREN FTALOSİYANİNLERİN SENTEZİ FOTODİNAMİK TERAPİ VE BİYOLOJİK AKTİVİTE ÖZELLİKLERİNİN İNCELENMESİ, 2020 - 2022
18. Barut B., Renda G., Barut E. N., Özel A., Project Supported by Other Official Institutions, *Senecio trapezuntinus* (Trabzon kanaryaotu) ve *Tchihatchewia isatidea* (Allı gelin) bitki ekstrelerinin analizi ve farmakolojik aktiviteleri, 2019 - 2021
19. BIYIKLIOĞLU Z., BARUT B., ÖZEL A., BAŞ H., KELEŞ T., Project Supported by Higher Education Institutions, ULUSLARARASI - SUDA ÇÖZÜNEBİLEN AGREGASYON GÖSTERMEYEN AKCİĞERKARACIĞER MEME VE MELANOMA KANSER TÜRLERİNE KARŞI IN VITROANTİKANSER ETKİLİ YENİ BİR SİLİSYUM FTALOSİYANİN BİLEŞİĞİ, 2019 - 2020
20. Barut B., Özel A., Sarı S., Saraç Tarhan S., Project Supported by Higher Education Institutions, Kurum içi bir azol kütüphanesi içerisinde sanal aktivite tarama ile yeni alfa-glukozidaz inhibitör bileşiklerin keşfi, 2019 - 2020
21. DEMİRBAŞ Ü., KANTEKİN H., BARUT B., AKÇAY H. T., Project Supported by Higher Education Institutions, Suda Çözünebilen Yeni ÇinkoII ve BakırII Ftalosiyanın Sentezi Karakterizasyonu ve DNABSA Bağlanma ve DNA Fotoksesim Özelliklerinin İncelenmesi, 2019 - 2020
22. ÖZEL A., BIYIKLIOĞLU Z., DEMİRBAŞ Ü., YALÇIN C. Ö., BARUT B., ÇOBAN Ö., KELEŞ T., BAŞ H., ŞİRİN İ., Project Supported by Higher Education Institutions, Suda Çözünebilen BODIPY Bileşiklerinin Sentezi Fotokimyasal Özelliklerinin ve in vitro Hücresel Etki Mekanizmalarının İncelenmesi, 2019 - 2020

23. Çoban Ö., Özel A., Barut B., Yalçın C. Ö., Keleş T., Bıyıklıoğlu Z., Demirbaş Ü., Project Supported by Higher Education Institutions, Suda Çözünebilen BODIPY Bileşiklerinin Sentezi, Fotokimyasal Özelliklerinin ve In Vitro Hücresel Etki Mekanizmalarının İncelenmesi, 2019 - 2020
24. Barut B., Özel A., Şöhretoğlu D., Sarı S., Project Supported by Higher Education Institutions, Polidatin ve kirsospleninin DNA bağlanma modları, topoizomeraz enzim inhibitörü etkilerinin in vitro ve in silico araştırılması, 2018 - 2020
25. BIYIKLIOĞLU Z., KELEŞ T., ÖZEL A., BARUT B., Project Supported by Higher Education Institutions, SUDA ÇÖZÜNEBİLEN AGREGASYON GÖSTERMEYEN AKCİĞER KARACİĞER MEME VE MELANOMA KANSER TÜRLERİNE KARŞI IN VITRO ANTİKANSER ETKİLİ YENİ BİR SİLİSYUM FTALOSİYANİN BİLEŞİĞİ, 2018 - 2020
26. BIYIKLIOĞLU Z., BAŞ H., ÖZEL A., BARUT B., Project Supported by Higher Education Institutions, DNA İLE ETKİLEŞEBİLEN TOPOİZOMERAZ İNHİBİSYONU GÖSTEREN VE ANTİKANSER ETKİLİ SUDA ÇÖZÜNEBİLEN AGREGASYON GÖSTERMEYEN YENİ BİR SİLİSYUM FTALOSİYANİN BİLEŞİĞİ VE SENTEZ YÖNTEMİ, 2018 - 2020
27. ÖZEL A., BARUT B., BARUT E. N., SEZEN F. S., ŞİRİN İ., Project Supported by Higher Education Institutions, Trimethoxysilyl propyl octadecyl ammonium chloride (Antimic) ürününün olası antibakteriyel etki mekanizmasının araştırılması, 2018 - 2019
28. ÇOBAN Ö., BIYIKLIOĞLU Z., ÖZEL A., YALÇIN C. Ö., BARUT B., Project Supported by Higher Education Institutions, Erlotinib ve Ferrosen türevli Ftalosiyanın İçeren Sığır Serum Albumini (BSA) Kaplı Lipozom Formülasyonlarının Geliştirilmesi ve Antitümoral Aktivitesinin İncelenmesi, 2018 - 2019
29. Barut B., Özel A., Sarı S., Şöhretoğlu D., Project Supported by Higher Education Institutions, Bazı flavonoidlerin alpha-glukozidaz ve tirozinaz enzim inhibitörü etki mekanizmalarının kinetik ve bilgisayarlı modelleme yöntemleriyle in vitro ve in silico araştırılması, 2018 - 2019
30. Bıyıklıoğlu Z., Özel A., Baş H., TÜBİTAK Project, Agregasyon Göstermeyen, Suda Çözünebilen Aksiyal Disübstitüe Yeni Silisyum Ftalosiyanın ve Naftalosiyanın Sentezi, DNA Bağlanma, DNA Kesim, Topoizomeraz İnhibitör Aktivitelerinin ve Bazı İnsan Kanseri Hücrelerine Karşı Sitotoksitelerinin İncelenmesi, 2017 - 2019
31. DUMAN M., KAYA C., KERİMOĞLU G., ÖZEL A., BARUT E. N., ENGİN S., BARUT B., Project Supported by Higher Education Institutions, Pantoprazol ve Ambroksolün farelerde siklofosfamidle indüklenen hemorajik sistit üzerindeki protektif etkisinin araştırılması, 2018 - 2018
32. BIYIKLIOĞLU Z., BARUT B., Project Supported by Higher Education Institutions, Agregasyon Göstermeyen Silisyum Ftalosiyanın Sentezi ve Kolinesteraz Enzim İnhibisyonlarının İncelenmesi, 2017 - 2018
33. KANTEKİN H., DEMİRBAŞ Ü., BARUT B., ÖZEL A., Project Supported by Higher Education Institutions, Periferale Çevresinde Pentilfenoksi İçeren Metalli ve Metalsiz Ftalosiyanın Bileşiklerinin Sentezi Karakterizasyonu ve Asetilkolinesteraz/Bütirikolinesteraz Enzim İnhibisyonlarının İncelenmesi, 2017 - 2018
34. ÖZEL A., DEMİRBAŞ Ü., KANTEKİN H., BARUT B., Project Supported by Higher Education Institutions, Periferale NonPeriferale Çevrelerinde Piperidin Grupları İçeren Suda Çözünebilen Yeni ÇinkoII ve BakırII Ftalosiyanın Sentezi Karakterizasyonu ve Fotodinamik Terapide Kullanılma Potansiyellerinin İncelenmesi, 2017 - 2018
35. ÖZEL A., YAŞAR A., BARUT B., YILDIRIM S., ULAŞ N., ÇOŞKUNÇELEBİ K., Project Supported by Higher Education Institutions, Achillea millefolium Civan Perçemi Bitkisinin Uçucu Yağ Bileşenlerinin HSSPMEGCMSFID Yöntemiyle Aydınlatılması Asetilkolin esteraz Butirikolin esteraz ve Tirozinaz İnhibisyonunun ve Antioksidan Aktivitelerinin İncelenmesi, 2016 - 2017
36. Demirbaş Ü., Değirmencioğlu İ., TÜBİTAK Project, Benzotiyazol Grupları İçeren Yeni Ftalosiyanın Sentezi, Karakterizasyonu, Fotofiziksel ve Fotokimyasal Özelliklerinin İncelenmesi, 2014 - 2015

## Awards

1. Barut B., Ahmet ve Nezahat Keleşoğlu TÜBA-GEBİP Eczacılık Özel Ödülü , Türkiye Bilimler Akademisi, December 2024
2. Barut B., TÜBİTAK YAYIN TEŞVİK ÖDÜLÜ (Aralık 2023), Tübitak, December 2023
3. Barut B., TÜBİTAK YAYIN TEŞVİK ÖDÜLÜ (Kasım 2023), Tübitak, November 2023
4. Barut B., TÜBİTAK YAYIN TEŞVİK ÖDÜLÜ (Mart 2023), Tübitak, September 2023
5. Barut B., Teknofest2023/8. Uluslararası İstanbul Buluş Fuarı (ISIF'23) Altın Madalya Ödülü, 8. Uluslararası İstanbul

Buluş Fuarı (Isıf'23) , May 2023

6. Barut B., Altun Y., Akkaya D., Barut E. N., Baş H., Yalçın C. Ö., Bıyıklıoğlu Z., Uluslararası Biyokimya Kongresi 2022 // 33. Ulusal Biyokimya Kongresi En İyi Poster Ödülü, Uluslararası Biyokimya Kongresi 2022 // 33. Ulusal Biyokimya Kongresi, October 2022
7. Barut B., TÜBİTAK YAYIN TEŞVİK ÖDÜLÜ (Eylül 2022), Tübitak, September 2022
8. Barut B., TEB ECZACILIK AKADEMİSİ 2021 YILI TEŞVİK ÖDÜLÜ, Türk Eczacıları Birliği Eczacılık Akademisi, September 2021
9. Barut B., TÜBİTAK YAYIN TEŞVİK ÖDÜLÜ (Mayıs), Tübitak , May 2021
10. Barut B., 2019 Yılı Genç Bilim ve Sanat İnsanı Ödülü, Karadeniz Teknik Üniversitesi, August 2020
11. Barut B., TÜBİTAK YAYIN TEŞVİK ÖDÜLÜ (Ağustos), Tübitak, August 2020
12. Barut B., TÜBİTAK YAYIN TEŞVİK ÖDÜLÜ (Temmuz), Tübitak, July 2020
13. Barut B., TÜBİTAK YAYIN TEŞVİK ÖDÜLÜ (Ocak), Tübitak, January 2020
14. BARUT B., Prof. Dr. Nazmi ÖZER Bilim Ödülü (1.lık), Türk Biyokimya Derneği, December 2019
15. Barut B., TÜBİTAK YAYIN TEŞVİK ÖDÜLÜ (Aralık), Tübitak, December 2019
16. BARUT B., BARUT B., BEKAR M., BEKAR M., BARUT E. N., BARUT B., ÖZEL A., BARUT B., BARUT E. N., TAHAOĞLU G., Yayın Teşvik Ödülü, TÜBİTAK, October 2019
17. Barut B., TÜBİTAK YAYIN TEŞVİK ÖDÜLÜ (Haziran), Tübitak , June 2019
18. BARUT B., 2018 Yılı Genç Bilim ve Sanat İnsanı Ödülü, Karadeniz Teknik Üniversitesi, May 2019
19. Barut B., TÜBİTAK YAYIN TEŞVİK ÖDÜLÜ (Aralık), Tübitak , December 2018
20. BARUT B., Prof.Dr. Nazmi ÖZER Bilim Ödülü (2.lık), Türk Biyokimya Derneği, October 2018
21. BIYIKLIOĞLU Z., BARUT B., Prof. Dr. Nazmi ÖZER Bilim Ödülü (3.lük), Türk Biyokimya Derneği, October 2018
22. Barut B., TÜBİTAK YAYIN TEŞVİK ÖDÜLÜ (Eylül), Tübitak , September 2018
23. Barut B., TÜBİTAK YAYIN TEŞVİK ÖDÜLÜ (Temmuz), Tübitak, July 2018
24. BARUT B., DEMİR S., BARUT B., BARUT B., BARUT B., BARUT B., VAROL T., BARUT B., ÖZEL A., BARUT B., et al., Yayın Teşvik Ödülü, TÜBİTAK, July 2018
25. BARUT B., Kimyagerler Derneği 2. Araştırma Teşvik Ödülü, Kimyagerler Derneği, March 2018
26. Barut B., TÜBİTAK YAYIN TEŞVİK ÖDÜLÜ (Mart), Tübitak, March 2018
27. Barut B., TÜBİTAK YAYIN TEŞVİK ÖDÜLÜ (Ocak), Tübitak, January 2018
28. BARUT B., ÖZEL A., BIYIKLIOĞLU Z., Prof.Dr. Nazmi ÖZER Bilim Ödülü (2.lık), Türk Biyokimya Derneği, September 2017
29. BARUT B., ÖZEL A., BIYIKLIOĞLU Z., Uluslararası Biyokimya Kongresi En İyi Poster Bildiri Ödülü, Uluslararası Biyokimya Kongresi 2017, September 2017
30. BARUT B., 2016 Yılı Genç Bilim ve Sanat İnsanı Ödülü, Karadeniz Teknik Üniversitesi, May 2017
31. Barut B., TÜBİTAK YAYIN TEŞVİK ÖDÜLÜ (Mayıs), Tübitak, May 2017
32. BARUT B., Karadeniz Teknik Üniversitesi Kimya Bölümü Birinciliği, Karadeniz Teknik Üniversitesi, June 2013
33. BARUT B., Karadeniz Teknik Üniversitesi Fen Fakültesi Birinciliği, Karadeniz Teknik Üniversitesi, June 2013

## Scholarships

2228-B Yüksek Lisans Öğrencileri için Doktora Burs Programı, TUBİTAK, 2016 - 2020

Gönül Külahçioğlu Kanser Araştırmaları, Special Institutions and Organizations, 2017 - 2017

Gönül Külahçioğlu Kanser Araştırmaları, Special Institutions and Organizations, 2016 - 2016

## Jury Memberships

Doctoral Examination, Doctoral Examination, Karadeniz Teknik Üniversitesi, September, 2024

Post Graduate, Post Graduate, Karadeniz Teknik Üniversitesi, August, 2024

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Karadeniz Teknik Üniversitesi, July, 2024

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Karadeniz Teknik Üniversitesi, February, 2024  
Post Graduate, Post Graduate, Karadeniz Teknik Üniversitesi, October, 2023  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Karadeniz Teknik Üniversitesi, October, 2023  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Karadeniz Teknik Üniversitesi, October, 2023  
Academic Staff Examination, Academic Staff Examination, Karadeniz Teknik Üniversitesi, February, 2023  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Karadeniz Teknik Üniversitesi, June, 2022  
Doctoral Examination, Doctoral Examination, Karadeniz Teknik Üniversitesi, February, 2022  
Post Graduate, Post Graduate, Karadeniz Teknik Üniversitesi, March, 2021

### Journal articles indexed in SCI, SSCI, and AHCI

- 1. Synthesis, characterization, in vitro cholinesterase inhibition and cytotoxic activity of silicon(IV) phthalocyanines containing anthraquinone groups against lung and colorectal cancer cells**  
KELEŞ T., BIYIKLIOĞLU Z., Ali Y. A., AKKAYA D., YALÇIN C. Ö., BARUT B.  
Journal of Molecular Structure, vol.1330, 2025 (SCI-Expanded)
- 2. Synthesis, biological activities, and crystal Structure of 1,2,4-triazole-5-one-based benzenesulfonamides**  
Sancak K., Gül Kılınc G., Durak F., Özşanlı H., Çoruh U., Barut B.  
JOURNAL OF MOLECULAR STRUCTURE, no.x, pp.1-10, 2025 (SCI-Expanded)
- 3. Highly water soluble metallophthalocyanines and investigation of their AChE/BuChE enzyme inhibition and cytotoxic activity against human neuroblastoma (SH-SY5Y) cell**  
Keleş T., Biyıklıoğlu Z., Seyhan G., Öz E., Reis R., Barut B.  
INORGANIC CHEMISTRY COMMUNICATION, no.x, pp.1-10, 2025 (SCI-Expanded)
- 4. New Peripheral Pyridine-Substituted Cobalt, Copper, and Manganese Phthalocyanines as Potential In Vitro Acetyl/Butyrylcholinesterase Inhibitors in the Treatment of Alzheimer's Disease**  
YALAZAN H., SEYHAN G., Ozkan S., BARUT B., BIYIKLIOĞLU Z., KANTEKİN H.  
APPLIED ORGANOMETALLIC CHEMISTRY, vol.39, no.3, 2025 (SCI-Expanded)
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41. **Non-Aggregated and Water Soluble Silicon Naphthalocyanine Bearing Acetyl Piperazine Units: Synthesis, DNA Interaction and Topoisomerase Inhibition**  
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42. **Tyrosinase inhibition by a Rare Neolignan: An in vitro and in silico study**  
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43. **Discovery of potent alpha-glucosidase inhibitor flavonoids: Insights into mechanism of action through inhibition kinetics and docking simulations**  
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44. **CYTOTOXIC EFFECTS OF SILICON PHTHALOCYANINE, NAPHTHALOCYANINE AND THEIR WATER SOLUBLE DERIVATIVES**  
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45. **BIOLOGICAL ACTIVITIES, PHENOLIC, VOLATILE ANDESSENTIAL OIL COMPOSITION OF *Campanula latifolia* L. subsp. *latifolia***  
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46. **POTENTIAL THERAPEUTIC USAGE IN NEURODEGENERATIVE DISEASES OF *CEPHALARIA PROCERA* FISCH. & AVÉ-LALL. IN TURKEY**  
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47. **Kooperatifçilik İlkeleri ve Uygulamaları Dersinin Eczacılık Eğitimine Katkısı**  
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48. **Water soluble silicon phthalocyanine bearing piperazine units and investigation of its DNA binding, DNA photocleavage, topoisomerase I,II inhibition**  
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24. Ulusal Farmakoloji Kongresi, Trabzon, Turkey, 17 - 20 October 2017, pp.163, (Full Text)
51. **Synthesis and Investigation of Antioxidant Activities and Cholinesterase Inhibition Effects of Some 4-Aryl-1,4-dihydropyridine Derivatives.**  
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52. **Water Soluble Silicon Phthalocyanines, Naphthalocyanines and Investigations of Their DNA Binding, DNA Photocleavage, Topoisomerase I Inhibition**  
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54. **DNA/Protein Binding and DNA Photocleavage Properties of the Water Soluble BODIPY Compounds**  
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International Biochemistry Congress-28.Ulusal Biyokimya Kongresi, Erzurum, Turkey, 19 - 23 September 2017,

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55. **Synthesis of Novel Chalcone Derivatives and Investigation of Their Enzyme Inhibition/Antioxidant Activities**  
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56. **GREEN SYNTHESIS OF SOME NOVEL BIOACTIVE BENZIMIDAZOLE DERIVATIVES**  
GÜMÜŞ M. K., DOĞAN İ. S., BARUT B., ÖZEL A., KAHVECİ B.  
3rd International Conference on New Trends in Chemistry, Helsinki, Finland, 28 - 30 April 2017, pp.124-125, (Full Text)
57. **Synthesis and Enzyme Inhibitory Activities of Novel Azachalcone N-Glucoside Compounds**  
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58. **The prevention DNA oxidative damage inhibition of acetylcholinesterase, tyrosinase, ?-glucosidase and antioxidant activities of leaf, stem bark and fruit extracts from Crataegus microphylla**  
ÖZEL A., RENDA G., BARUT B., KORKMAZ B., YAYLI N.  
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59. **DNA binding photocleavage and topoisomerase I inhibition of novel water soluble phthalocyanine compounds**  
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60. **Yeni Metalli Ftalosiyanın Sentezi, DNA Fotokesim ve Antioksidan Aktivitelerinin İncelenmesi**  
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III. Ulusal Organik Kimya Kongresi, Trabzon, Turkey, 5 - 08 September 2016, pp.60, (Full Text)
61. **Metoksi Sübtitüe Kalkon N-Glikozitlerin Sentezi ve Biyolojik Aktivitelerinin İncelenmesi**  
FANDAKLI S., KAHRİMAN N., SERDAROĞLU V., BARUT B.  
III. Ulusal Organik Kimya Kongresi, Trabzon, Turkey, 5 - 08 September 2016, pp.108, (Full Text)
62. **Yeni Kalkon/Azakalkon N-Glikozitlerin Sentezi ve Biyolojik Aktivitelerinin İncelenmesi**  
PEKER K., KAHRİMAN N., SERDAROĞLU V., BARUT B.  
III. Ulusal Organik Kimya Kongresi, Trabzon, Turkey, 5 - 08 September 2016, pp.106, (Full Text)
63. **In vitro antioxidant and anti-acetylcholinesterase activity of Achillea millefolium**  
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64. **DNA binding, photocleavage and topoisomerase I inhibition of novel water soluble phthalocyanine compounds**  
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65. **Rhododendron caucasicum Pallas Bitkisine Ait Metanol Ekstresinin Antioksidan Aktivitesinin ve ?-Glukozidaz Enzim İnhibisyonunun İncelenmesi**  
FANDAKLI S., YAYLI B., BARUT B., ÖZEL A., RENDA G., YAYLI N.  
XXII. Bitkisel İlaç Hammaddeleri Toplantısı, Trabzon, Turkey, 31 August - 05 September 2016, pp.170, (Full Text)
66. **Sambucus ebulus L.'nin Antioksidan Aktivitesinin ve Tirozinaz Enzim İnhibisyonunun İncelenmesi**  
FANDAKLI S., BARUT B., KORKMAZ B., RENDA G., ÖZEL A., YAYLI N.  
XXII. BİHAT, Trabzon, Turkey, 31 August - 01 September 2016, pp.178, (Full Text)
67. **Senecio macrophyllus M. Bieb Bitkisinin GC-FID ve GC-MS Analizi,Uçucu Yağ, Metanol ve Sulu Ekstraktlarının Biyolojik Aktivitelerinin İncelenmesi**  
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XXII. Bitkisel İlaç Hammaddeleri Toplantısı, Trabzon, Turkey, 31 August - 05 September 2016, pp.183, (Full Text)

68. **Coronilla orientalis Miller ve Coronilla varia L. Bitkilerinin Enzim İnhibisyonlarının ve DPPH Radikal Süpürücü Etkilerinin İncelenmesi**  
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XXII. Bitkisel İlaç Hammaddeleri Toplantısı, Trabzon, Turkey, 31 August - 05 September 2016, pp.116, (Full Text)
69. **Ambroxol improves cyclophosphamide-induced oxidative damage and contractility in mice urinary bladder**  
BARUT E. N., ENGİN S., BARUT B., ABUDAYYAK M., DUMAN M., ÖZEL A.  
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70. **Secondary metabolites from Alchemilla barbatiflora Juz**  
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71. **Cholinesterase and Tyrosinase Inhibitory Activities of Two Astragalus L. Species From Turkey**  
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72. **Titanyum(IV) Ftalosiyanın Bileşiklerinin DNA Etkileşimleri ve Antioksidan Aktivitelerinin İncelenmesi**  
BARUT B., ÖZEL A., DEMİRBAŞ Ü., BIYIKLIOĞLU Z.  
XXVII. Ulusal Biyokimya Kongresi, Antalya, Turkey, 3 - 06 November 2015, vol.40, no.1, pp.256, (Full Text)
73. **Analysis Of Phenolic Compounds And Antioxidant Activity Of Three Ornithogalum L. Species**  
RENDA G., ÖZEL A., KORKMAZ B., BARUT B., ÇOL AYVAZ M., AKYÜZ TURUMTAY E.  
11th International Symposium on Pharmaceutical Sciences, 9 - 12 June 2015, (Summary Text)
74. **Phenolic Compounds and Antioxidant Activities of Lichen Pertusaria sp**  
BARUT B., YILDIRIM S., ÖZEL A., YAŞAR A.  
ISOPS 11th International Symposium on Pharmaceutical Science, ANKARA, 9 - 13 June 2015

## Academic and Administrative Experience

2025 - Continues	<b>Araştırma Koordinatörü</b>	Karadeniz Technical University, Eczacılık Fakültesi, Temel Eczacılık
2024 - Continues	<b>Member of the Rectorate Academic Performance Evaluation Commission</b>	Karadeniz Technical University, Eczacılık Fakültesi, Temel Eczacılık
2023 - Continues	<b>Faculty Board Member</b>	Karadeniz Technical University, Eczacılık Fakültesi, Temel Eczacılık
2023 - Continues	<b>Faculty Management Board Member</b>	Karadeniz Technical University, Eczacılık Fakültesi, Temel Eczacılık
2022 - Continues	<b>Education and Curriculum Board Member</b>	Karadeniz Technical University, Eczacılık Fakültesi, Temel Eczacılık
2022 - Continues	<b>Measurement and Evaluation Board Chairman</b>	Karadeniz Technical University, Eczacılık Fakültesi, Temel Eczacılık
2024 - 2025	<b>Assistant Manager of Research and Application Center</b>	Karadeniz Technical University, Eczacılık Fakültesi, Temel Eczacılık

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2023 - 2025	<b>Applied Research Center Board Member</b>	Karadeniz Technical University, Eczacılık Fakültesi, Temel Eczacılık
2022 - 2025	<b>Internship Coordinator</b>	Karadeniz Technical University, Eczacılık Fakültesi, Temel Eczacılık
2022 - 2024	<b>University Academic Incentive Evaluation Commission Member</b>	Karadeniz Technical University, Eczacılık Fakültesi, Temel Eczacılık

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## Courses

### Doctorate

Protein Kimyası ve Yapısal Analizi, Doctorate, 2024 - 2025, 2023 - 2024  
Hücre Biyolojisi ve Genetik, Doctorate, 2024 - 2025, 2022 - 2023  
Hücresel Yaşlanmanın Mekanizmaları, Doctorate, 2023 - 2024  
Kanser Tedavi Yöntemleri, Doctorate, 2024 - 2025, 2023 - 2024, 2022 - 2023  
Minarellerin Biyokimyasal Önemi, Doctorate, 2022 - 2023  
Biyokimyada Son Gelişmeler, Doctorate, 2023 - 2024, 2022 - 2023  
Metabolizmanın Biyokim.Temelleri, Doctorate, 2021 - 2022

### Postgraduate

Fotodinamik Terapi Uygulamaları, Postgraduate, 2024 - 2025, 2022 - 2023, 2021 - 2022  
Biyokimyada Araştırma Metotları-1, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022  
Biyoenjenerjik ve Metabolizma, Postgraduate, 2021 - 2022  
Temel Biyokimya, Postgraduate, 2021 - 2022

### Undergraduate

Araştırma Projesi-II, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021  
Kanser Biyokimyası, Undergraduate, 2024 - 2025  
Biyokimyada Araştırma Teknikleri, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022  
Klinik Biyokimya, Undergraduate, 2024 - 2025, 2022 - 2023  
Araştırma Projesi, Undergraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022  
Biyokimya-I, Undergraduate, 2023 - 2024  
Moleküler Biyoloji, Undergraduate, 2021 - 2022, 2020 - 2021  
Biyokimya - II Laboratuvarı, Undergraduate, 2021 - 2022  
Biyokimya - II, Undergraduate, 2021 - 2022  
Biyokimya II Laboratuvarı, Undergraduate, 2020 - 2021

## Supervised Theses

Barut B., Epimedium pubigerum (DC.) C. Moren & Decne Bitkisinin Biyolojik Etkinliklerinin İncelenmesi, Postgraduate, G.Seyhan(Student), 2023

## Patent

Bıyıkhoğlu Z., Özel A., Barut B., Baş H., Water-Soluble, Non-Aggregated Silicon Phtalocyanine Compounds Having In Vitro Anticancer Effect Against Cancer Types of Lung, Liver, Brest And Melanoma, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Registration Number: WO2020068015 , Standard Registration, 2024  
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### Activities in Scientific Journals

TÜRKİYE KLİNİKLERİ DERGİLERİ, Advisory Committee Member, 2023 - Continues  
TURKISH JOURNAL OF BIOCHEMISTRY, Committee Member, 2023 - Continues

### Memberships and Roles in Scientific Organizations

Türk Biyokimya Derneği, Member, 2016 - Continues, Turkey

### Peer Reviews in Scientific Publications

BIOORGANIC CHEMISTRY, Journal Indexed in SCI-E, March 2025  
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, Journal Indexed in SCI-E, March 2025  
TURKISH JOURNAL OF BIOLOGY, Journal Indexed in SCI-E, November 2024  
PHYTOMEDICINE, Journal Indexed in SCI-E, November 2024  
DRUG DEVELOPMENT RESEARCH, Journal Indexed in SCI-E, September 2024  
INORGANIC CHEMISTRY COMMUNICATION, Journal Indexed in SCI-E, September 2024  
BIOORGANIC CHEMISTRY, Journal Indexed in SCI-E, August 2024  
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, Journal Indexed in SCI-E, July 2024  
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APPLIED ORGANOMETALLIC CHEMISTRY, Journal Indexed in SCI-E, May 2024  
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JOURNAL OF HETEROCYCLIC CHEMISTRY, Journal Indexed in SCI-E, July 2019  
JOURNAL OF HETEROCYCLIC CHEMISTRY, Journal Indexed in SCI-E, July 2019  
BMC COMPLEMENTARY AND ALTERNATIVE MEDICINE, Journal Indexed in SCI-E, July 2019  
JOURNAL OF RESEARCH IN PHARMACY, Journal Indexed in ESCI, June 2019  
JOURNAL OF FOOD BIOCHEMISTRY, Journal Indexed in SCI-E, May 2019  
BIOORGANIC CHEMISTRY, Journal Indexed in SCI-E, April 2019  
Current Bioactive Compounds , Other Indexed Journal, March 2019  
Current Bioactive Compounds , Other Indexed Journal, November 2018  
Current Bioactive Compounds , Other Indexed Journal, November 2018  
Current Bioactive Compounds , Other Indexed Journal, November 2018  
BMC COMPLEMENTARY AND ALTERNATIVE MEDICINE, Journal Indexed in SCI-E, August 2018  
Current Bioactive Compounds, Other Indexed Journal, July 2018  
BMC COMPLEMENTARY AND ALTERNATIVE MEDICINE, Journal Indexed in SCI-E, March 2018  
CHEMISTRYSELECT, Journal Indexed in SCI-E, February 2018  
CHEMISTRYSELECT, Journal Indexed in SCI-E, February 2018  
CHEMISTRYSELECT, Journal Indexed in SCI-E, December 2017  
CHEMISTRYSELECT, Journal Indexed in SCI-E, September 2017  
CHEMISTRYSELECT, Journal Indexed in SCI-E, June 2017  
PHARMACEUTICAL BIOLOGY, Journal Indexed in SCI-E, May 2016

## Scientific Project Refereeing

Project Supported by Higher Education Institutions, BAP Research Project, October 2024  
Project Supported by Higher Education Institutions, BAP Research Project, October 2024  
Project Supported by Higher Education Institutions, BAP Research Project, October 2024  
R&D Project of Group B, August 2024  
Research Project of the Presidency of Turkey Health Institutes (TÜSEB), August 2024  
R&D Project of Group B, August 2024  
Project Supported by Higher Education Institutions, BAP Research Project, July 2024  
R&D Project of Group B, July 2024  
Project Supported by Higher Education Institutions, BAP Research Project, November 2023  
Project Supported by Higher Education Institutions, BAP Research Project, October 2023  
Research Project of the Presidency of Turkey Health Institutes (TÜSEB), February 2023  
Research Project of the Presidency of Turkey Health Institutes (TÜSEB), July 2022  
Project Supported by Higher Education Institutions, BAP Research Project, November 2021  
TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, March 2021

## Scientific Research / Working Group Memberships

Biopharmacy Research Group, Karadeniz Technical University, Turkey, <https://avesis.ktu.edu.tr/arastirma-grubu/bprg>, 2024 - Continues

## Metrics

Publication: 239  
Citation (WoS): 1621  
Citation (Scopus): 1717  
H-Index (WoS): 25  
H-Index (Scopus): 25

## Congress and Symposium Activities

XXXI. Balkan Clinical Laboratory Federation Meeting BCLF 2024 / 35. National Congress of the Turkish Biochemistry Society TBS 2024, Session Moderator, Antalya, Turkey, 2024  
XXXI. Balkan Clinical Laboratory Federation Meeting BCLF 2024 / 35. National Congress of the Turkish Biochemistry Society TBS 2024, Attendee, Antalya, Turkey, 2024  
TBS International Biochemistry Congress 2021-33rd National Biochemistry Congress, Attendee, İzmir, Turkey, 2022  
4th International Eurasian Conference on Biological and Chemical Sciences , Moderator, Ankara, Turkey, 2021  
4th International Eurasian Conference on Biological and Chemical Sciences, Attendee, Ankara, Turkey, 2021  
TBS International Biochemistry Congress 2021-32nd National Biochemistry Congress, Attendee, Gaziantep, Turkey, 2021  
33. Ulusal Kimya Kongresi, Attendee, Tekirdağ, Turkey, 2021  
3rd International Gazi Pharma Symposium Series (GPSS-2021), Attendee, Ankara, Turkey, 2021  
13th International Symposium on Pharmaceutical Sciences (ISOPS), Attendee, Ankara, Turkey, 2021  
31. Ulusal Biyokimya Kongresi 2020, Invited Speaker, Ankara, Turkey, 2020  
XXVII. Balkan Clinical Laboratory Federation Meeting BCLF 2019 / XXX. National Congress of the Turkish Biochemistry Society TBS 2019, Attendee, Antalya, Turkey, 2019  
XXVII. Balkan Clinical Laboratory Federation Meeting BCLF 2019 / XXX. National Congress of the Turkish Biochemistry Society TBS 2019, Moderator, Antalya, Turkey, 2019

XXVII. Balkan Clinical Laboratory Federation Meeting BCLF 2019 / XXX. National Congress of the Turkish Biochemistry Society TBS 2019, Invited Speaker, Antalya, Turkey, 2019  
TBS International Biochemistry Congress 2018 29th National Biochemistry Congress, Attendee, Muğla, Turkey, 2018  
Prof. Dr. Alaeddin Akcasu XXVII. Farmakoloji Eğitiminde Kuşaklararası Bilimsel Etkileşme Seminerleri, Attendee, Çankırı, Turkey, 2018  
3 rd International Multidisciplinary Symposium on Drug Research and Development - DRD 2017, Attendee, Erzurum, Turkey, 2017  
Uluslararası Biyokimya Kongresi 2017- 28. Ulusal Biyokimya Kongresi, Attendee, Erzurum, Turkey, 2017  
IVEK 3rd International Convention of Pharmaceuticals and Pharmacies, Attendee, İstanbul, Turkey, 2017  
Prof. Dr. Alaeddin Akcasu XXVI. Farmakoloji Eğitiminde Kuşaklararası Bilimsel Etkileşim Seminerleri, Attendee, Ankara, Turkey, 2017  
XXII. Bitkisel İlaç Hammaddeleri Toplantısı, Attendee, Trabzon, Turkey, 2016  
7th European Congress of Pharmacology, Attendee, İstanbul, Turkey, 2016  
11 th International Symposium on Pharmaceutical Sciences, Attendee, Ankara, Turkey, 2015

## Research Areas

Health Sciences, Pharmacology and Therapeutics, Basic Pharmaceutics Sciences, Biochemistry, Biochemistry, Bioinorganic Chemistry, Enzyme Kinetics, Chemistry of Macromolecules, Natural Sciences

## Non Academic Experience

Türk Biyokimya Derneği, Yönetim Kurulu Yedek Üyesi