

# BEZMİÂLEM VAKIF ÜNİVERSİTESİ İLAÇ UYGULAMA VE ARAŞTIRMA MERKEZİ

2025 YILI  
FAALİYET RAPORU

- Prof. Dr. Gülaçtı TOPÇU (Müdür)
- Prof. Dr. Aydan DAĞ (Müdür Yrd.)
- Ahmet BALCI (Uzman Kimyager, NMR Spektroskopisi)
- Ece ÇAYIR KOLAY (Kimyager, Kütle Spektroskopisi)
- Dilan ALMA (Sekreter)

## GÖREVLENDİRİLEN PERSONELLER

Dr. Öğr. Üye Sezen ATASOY (Hücre Kültürü, Biyoaktivite Çalışmaları)

➤ Arş. Gör. Dr. Hümeysra ŞAHİN BEKTAY (Franz Difüzyon)

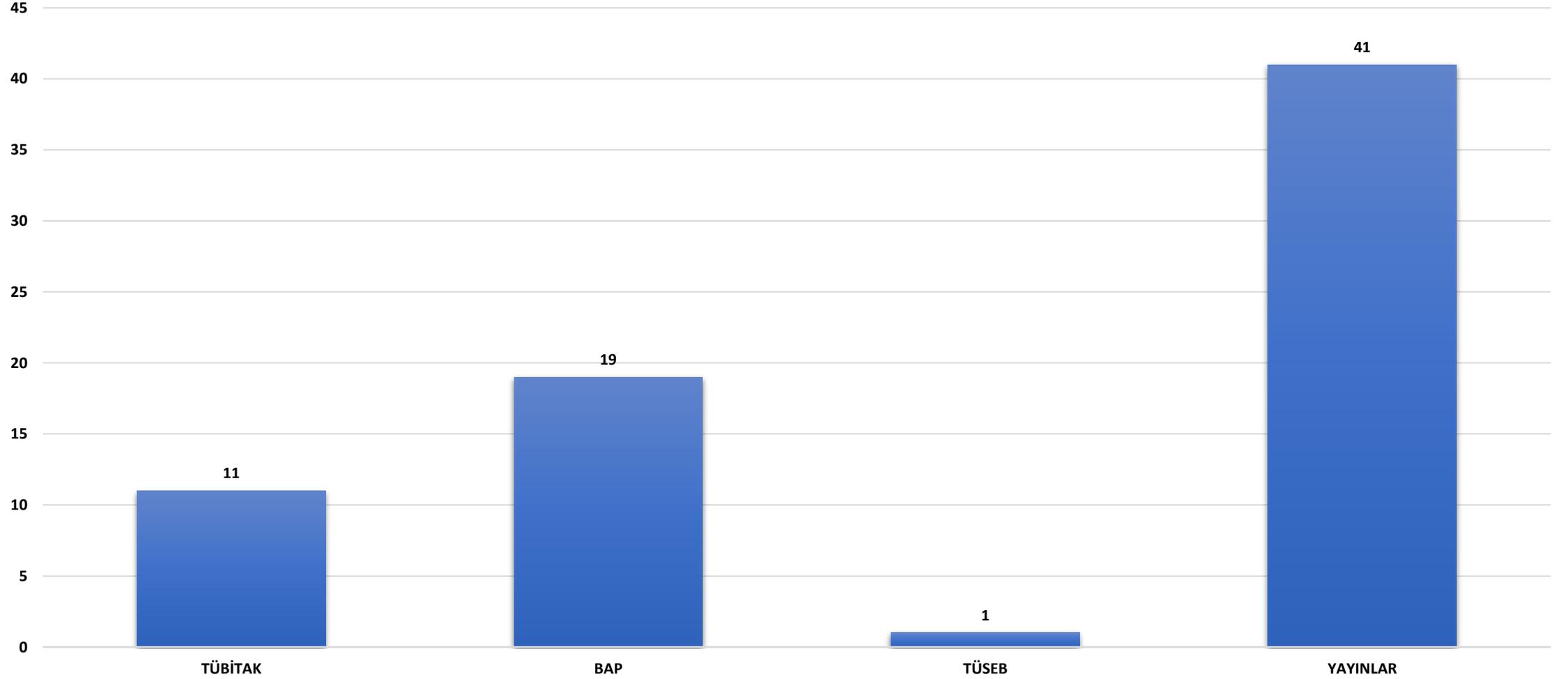
- *Proje ve hizmet taleplerine göre ayrıca Eczacılık Fakültesi Dekanlığı tarafından ilgili akademisyen görevlendirilmesi yapılabilmektedir.*

- Altyapı ve İnsan Kaynağının Güçlendirilmesi (Eczacı, Biyomühendis, Kimyager)
- Cihaz Eğitim Etkinliklerinin Düzenlenmesi
- Uluslararası Proje Başvuruları
- Endüstri Merkez İşbirliklerinin Sağlanması
- Merkezin Akredite Edilmesi

NO	TALEP EDİLEN ÜNİVERSİTE	VERİLEN HİZMET
1	İSTANBUL ÜNİVERSİTESİ	NMR, HRMS, FT-IR, LİYOFİLİZATÖR
2	YILDIZ TEKNİK ÜNİVERSİTESİ	NMR, HRMS, HÜCRE KÜLTÜRÜ
3	ÇANAKKALE ONSEKİZ MART ÜNİVERSİTESİ	HÜCRE KÜLTÜRÜ
4	İSTANBUL TEKNİK ÜNİVERSİTESİ	HRMS
5	MEDİPOL ÜNİVERSİTESİ	NMR
6	KAPADOKYA ÜNİVERSİTESİ	NMR
7	KARADENİZ TEKNİK ÜNİVERSİTESİ	HRMS, GC-MS
8	ALTINBAŞ ÜNİVERSİTESİ	NMR
9	MUŞ ALPARSLAN ÜNİVERSİTESİ	NMR
10	MARMARA ÜNİVERSİTESİ	NMR
11	BİRÜNİ ÜNİVERSİTESİ	NMR, HRMS
12	HACETTEPE ÜNİVERSİTESİ	NMR
13	İSTİNYE ÜNİVERSİTESİ	NMR
14	BOĞAZİÇİ ÜNİVERSİTESİ	GPC
15	SÜLEYMAN DEMİREL ÜNİVERSİTESİ	GPC
16	ÇUKUROVA ÜNİVERSİTESİ	HRMS
17	MARMARA ÜNİVERSİTESİ	NMR
18	ABDULLAH GÜL ÜNİVERSİTESİ	REOMETRE
19	İZMİR YÜKSEK TEKNOLOJİ ENSTİTÜSÜ	HRMS

NO	TALEP EDEN FİRMA	VERİLEN HİZMET
1	TRUSTLİFE VENTURES LAB SAĞLIK TEKNOLOJİLERİ A.Ş.	NMR, HRMS
2	KİMYA ARAŞTIRMA TEKNOLOJİ VE İNOVASYON MERKEZİ	GPC
3	BOGA MEDİKAL VE LABORATUVAR ÜRÜNLERİ A.Ş.	NMR
4	POLIFARMA İLAÇ SANAYİ VE TİCARET A.Ş.	NMR
5	FLOKSER KİMYA SANAYİ VE TİCARET A.Ş.	NMR
6	GLAND BİTKİSEL ÜRÜNLER LTD ŞTİ	GC-MS
7	PHARMA PLANT İLAÇ SANAYİ VE TİCARET A.Ş.	NMR
8	ONBİRON KİMYA SANAYİ VE TİCARET A.Ş.	GPC
9	V4ACTİVES SAĞLIK VE MEDİKAL A.Ş.	HRMS
10	CHT TURKEY KİMYA SANAYİ VE TİCARET A.Ş.	GPC
11	EDE KİMYA SANAYİ VE TİCARET A.Ş.	NMR, GC-MS, HRMS, FT-IR, UV-VIS
12	NATİVİTAL DOĞAL LTD ŞTİ	HRMS

## 2025 YILI İLMER ALT YAPISI KULLANILARAK YAPILAN PROJE VE YAYIN SAYISI



NO	YÜRÜTÜCÜ ADI	PROJE NO	DESTEK KAYNAĞI
1	Prof. Dr. Gülaçtı TOPÇU	122Z737	TÜBİTAK
2	Prof. Dr. Gülaçtı TOPÇU	20250506	BAP
3	Prof. Dr. Gülaçtı TOPÇU	20241216	BAP
4	Prof. Dr. Gülaçtı TOPÇU	20241209	BAP
5	Prof. Dr. Gülaçtı TOPÇU	20241203	BAP
6	Prof. Dr. Aydan DAĞ	223S878	TÜBİTAK
7	Prof. Dr. Murat KARTAL	20240219	BAP
8	Prof. Dr. Murat KARTAL	20240220	BAP

NO	YÜRÜTÜCÜ ADI	PROJE NO	DESTEK KAYNAĞI
9	Prof. Dr. Şahabettin SELEK	20250205E	BAP
10	Prof. Dr. Şahabettin SELEK	20241201E*	BAP
11	Prof. Dr. Şahabettin SELEK	20220616	BAP
12	Prof. Dr. Şahabettin SELEK	20250204E	BAP
13	Prof. Dr. Binnur TEMEL	122Z054	TÜBİTAK
14	Prof. Dr. Binnur TEMEL	124Z487	TÜBİTAK
15	Prof. Dr. Binnur TEMEL Öğrenci: Esmâ SAMUK	20221201	BAP
16	Prof. Dr. Demet KARACA BALTA Danışman: Prof. Dr. Binnur TEMEL	124Z665	TÜBİTAK

NO	YÜRÜTÜCÜ ADI	PROJE NO	DESTEK KAYNAĞI
17	Prof. Dr. Deniz CEYLAN	3501	TÜBİTAK
18	Prof. Dr. Belma ZENGİN KURT	20240603*	BAP
19	Prof. Dr. Belma ZENGİN KURT	20240604*	BAP
20	Doç. Dr. Emine Rümeysa HEKİMOĞLU	20250202E	BAP
21	Dr. Öğr Üye Sezen ATASOY Öğrenci: Aslıhan KARTAL	1919B012407903	TÜBİTAK
22	Dr. Öğr. Üye Demet DİNÇEL	34518	TÜSEB
23	Dr. Öğr. Üye. Gülbahar Özge ALİM TORAMAN	20240213	BAP
24	Dr. Öğr. Üye Gülbahar Özge ALİM TORAMAN	20240202E	BAP

NO	YÜRÜTÜCÜ ADI	PROJE NO	DESTEK KAYNAĞI
25	Dr. Öğr. Üye Hümevra ŞAHİN BEKTAY	20230625	BAP
26	Dr. Öğr. Üye Rabia Sare YANIKOĞLU	20241210	BAP
27	Dr. Öğr. Üye Gülçin ÖZKARA	20250201E*	BAP
28	Arş. Gör Dr. Metin DEMİREL	20231201*	BAP
29	Arş. Gör Dr. Metin DEMİREL	20250205	BAP
30	Arş. Gör Dr. Fatmanur KÖKTAŞOĞLU	20241201	BAP
31	Arş. Gör Dr. Fatmanur KÖKTAŞOĞLU	20240901	BAP
32	Mehtap ALİM	125S148	TÜBİTAK

YAYINLAR		
1	<b>Prof. Dr. Gülaçtı TOPÇU</b>	Sayğı, T. K., Pınar, E. G., Taştekil, I., Sarıca, P. Ö., Topçu, G., & Türkoğlu, E. A. (2025). Elucidation Of The Binding Interaction Between B-sitosterol And Lysozyme Using Molecular Docking, Molecular Dynamics And Surface Plasmon Resonance Analysis. <i>Chemistry &amp; Biodiversity</i> , 22(2), E202401470.
2	<b>Prof. Dr. Gülaçtı TOPÇU</b>	Yücer, R., Schröder, A., Topçu, G., & Efferth, T. (2025). Identification Of Anti-inflammatory And Anti-cancer Compounds Targeting The Nf-kb-nlrp3 Inflammasome Pathway From A Phytochemical Library Of The Sideritis Genus. <i>Journal Of Ethnopharmacology</i> , 338, 119074.
3	<b>Prof. Dr. Şahabettin SELEK</b>	Demirel, M., Alim, M., Köktaşoğlu, F., Atakul, N., Guner, E., Aydın, A. N. I., ... Kafali, S. N. (2025). Mass Spectrometry-based Untargeted Metabolomics Identifies Distinct Metabolic Signatures In Infertility: A Comparative Analysis Of PCOS, POR, And NOR. <i>Reproductive Sciences</i> .
4	<b>Prof. Dr. Şahabettin SELEK</b>	Gul, A. Z., Selek, Ş., Bekiroğlu, S., Demirel, M., Cakir, F. B., & Uyanik, B., (2025). Serum NMR Metabolomics In Distinct Subtypes Of Hematologic Malignancies.. <i>Experimental Hematology</i> , Vol.143, 104710.
5	<b>Prof. Dr. Şahabettin SELEK</b>	Eşrefoğlu, M., Selek, Ş., Köktaşoğlu, F., Bayındır, N., Hekimoğlu, E. R., Kırmızıkan, S., ... Karakaya, F. B. (2025). Unraveling Hepatic Consequences Of Intrauterine Growth Restriction And Catch-up Growth: Insights From Histological, Biochemical And Metabolomic Analysis In Rats. <i>International Journal Of Developmental Biology</i> , Vol.68, No.3, 1-16.
6	<b>Prof. Dr. Şahabettin SELEK</b>	Kazancıoğlu, R., Selek, Ş., Dalkılıç, E., Pasin, Ö., & Demirel, M., (2025). WCN25-1709 Salivary And Urinary Metabolomics Study In Iga Nephropathy Patients. <i>Kidney International Reports</i> , Vol.10, No.2, 200.

7	Prof. Dr. Şahabettin SELEK	Tarhan, G., Domaç, S. F., Selek, Ş., Gül, A. Z., & Demir, S., (2025). Utilizing Metabolomic Profiling As A Supportive Diagnostic Tool For Radiologically Isolated Syndrome. <i>Multiple Sclerosis And Related Disorders</i> , Vol.94.
8	Prof. Dr. Aydan DAĞ	Erdem, G. Y., Goncu, B., Atasoy, S., Uysal, A. Y., Dag, S., & Dag, A. (2025). Multifunctional Theranostic Glyconanoprobe For Synergistic Eradication Of Breast Cancer. <i>Journal Of Materials Chemistry B</i> .
9	Prof. Dr. Aydan DAĞ	Atasoy, S., Katmerlikaya, T. G., Sancakli, B., & Dag, A. (2025). Remote-controlled Release Of Therapeutics From Multifunctional Glycoplexes Inhibit Melanoma Cells. <i>European Polymer Journal</i> , 226, 113726.
10	Prof. Dr. Binnur TEMEL	Batu, H. K., Öztürk Civelek, D., & Temel, B. A. (2025). Curcumin-crosslinked Single-chain Polymer Nanoparticles As Potential Polymer-drug Conjugates. <i>International Journal Of Polymeric Materials And Polymeric Biomaterials</i> , 1-11.
11	Prof. Dr. Binnur TEMEL	İğdeli, G., Fritzen, L., Pietrzik, C. U., & Temel, B. A. (2025). Folic Acid-conjugated Amphiphilic Copolymers For The Enhanced Delivery Of Donepezil: Synthesis, Characterization And Blood-brain Barrier Permeability In A Co-culture Model. <i>Journal Of Biomaterials Science, Polymer Edition</i> , 1-16.
12	Prof. Dr. Binnur TEMEL	Ozturk, D. K., Balta, D. K., Temel, B. A., & Temel, G. (2025). Highly Sensitive Fluorescent Single-chain Polymeric Nanoparticles As Chemosensors For Selective Fe <sup>3+</sup> Detection. <i>Journal Of Photochemistry And Photobiology A: Chemistry</i> , 116317.

13	Prof. Dr. Binnur TEMEL	Erkent, A., İğdeli, G., Yanıkoğlu, R. S., & Temel, B. A. (2025). Preparation and characterization of polymeric micelles from uracil-containing amphiphilic copolymer for donepezil delivery. <i>Journal of Macromolecular Science, Part A</i> , 1-10.
14	Prof. Dr. Binnur TEMEL	Ozturk, D. K., Balta, D. K., Temel, B. A., & Temel, G. (2025). Highly sensitive fluorescent single-chain polymeric nanoparticles as chemosensors for selective Fe <sup>3+</sup> detection. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 464, 116317.
15	Prof. Dr. Binnur TEMEL	Baysoy, B. S., Günaydın, İ., Batu, H. K., Civelek, D. O., & Temel, B. A. (2025). Fabrication of Core-Crosslinked Polymer Micelles via Photoinduced Azide Crosslinking. <i>Macromolecular Chemistry and Physics</i> , 226(7), 2400473.
16	Prof. Dr. Deniz CEYLAN	Kirmic Cosgun, S. N., Ceylan, D., Akdeniz, E., & Sarikaya, A. (2025). Neutral-Condition Synthesis of Gelatin-Enhanced Starch Hydrogels: Balancing Mechanical Integrity and Biocompatibility. <i>Starch-Stärke</i> , e70044.
17	Prof. Dr. Deniz CEYLAN	Ishtyah, Y. R., Cosgun, S. N. K., Ceylan, D., Demirtaş, T. T., & İšoğlu, S. D. (2025). Enhancing bioink potential of hyaluronic acid by microwave-induced methacrylation. <i>Reactive and Functional Polymers</i> , 106367.
18	Prof. Dr. Belma ZENGİN KURT	Kurt, B. Z., Gökçe, M., Şenol, H., Civelek, D. Ö., Dandin, G., & Gazioglu, I. (2025). Synthesis, cytotoxic evaluation, and in silico studies of novel benzenesulfonamide-thiazolidinone derivatives against colorectal carcinoma. <i>Journal of Molecular Structure</i> , 1321, 140153.

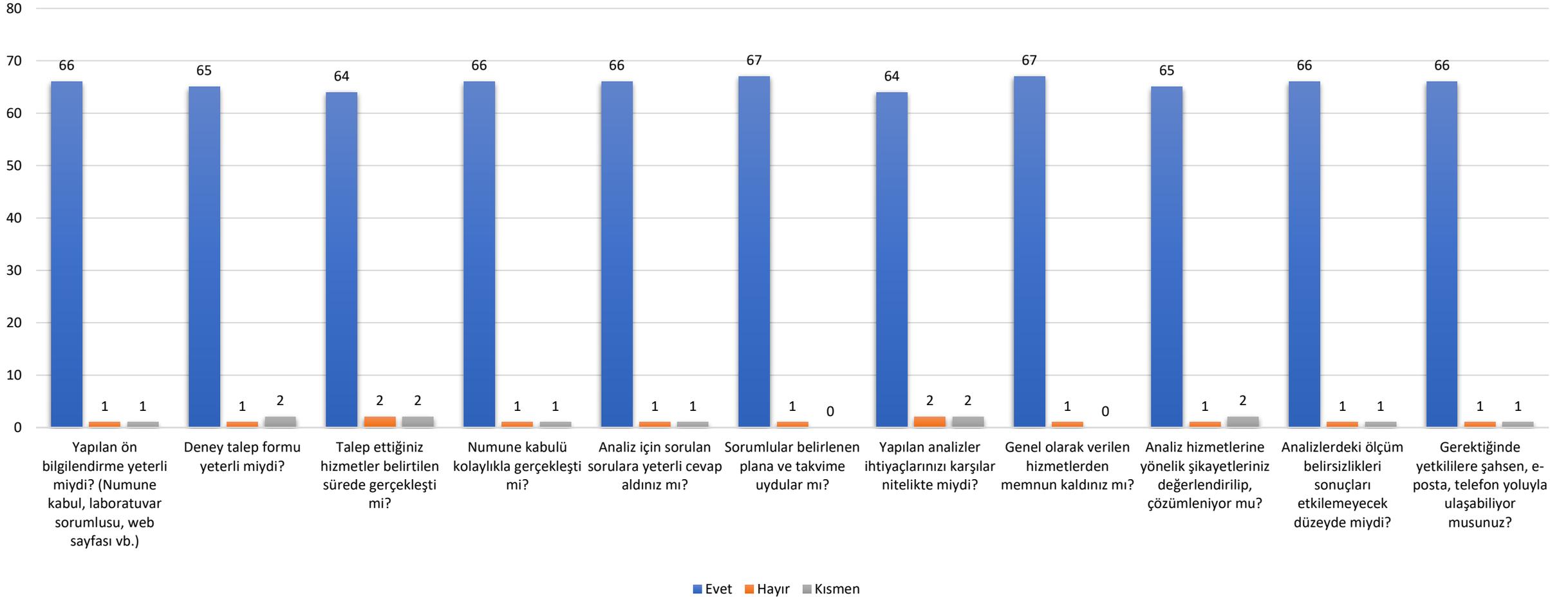
19	Prof. Dr. Belma ZENGİN KURT	Kurt, B. Z., Özmen, Ö., Civelek, D. Ö., Şenol, H., & Sonmez, F. (2025). Exploring anticancer properties of new triazole-linked benzenesulfonamide derivatives against colorectal carcinoma: Synthesis, cytotoxicity, and in silico insights. <i>Bioorganic &amp; Medicinal Chemistry</i> , 119, 118060.
20	Doç. Dr. Halil ŞENOL	Haciosmanoğlu-Aldoğan, E., Çakır, F., Yetke, H. İ., Tokalı, F. S., & Şenol, H. (2025). Synthesis, Characterization, and In Vitro and In Silico Studies of Substituted-Vanillin Hydrazones of Anthranilic Acid and Their Quinazolin-4 (3H)-One Analogues as Anti Breast Cancer Agents. <i>ChemistrySelect</i> , 10(3), e202404806.
21	Doç. Dr. Halil ŞENOL	Çakır, F., Ateşoğlu, Ş., Müderrisoğlu, Z. R., Demirel, F., Akbaş, F., Tokalı, F. S., & Şenol, H. (2025). Targeting Lung Cancer With Carvacrol-triazole-arylidene Hydrazone Hybrids: In Vitro And In Silico Cytotoxicity Assessments. <i>Chemistry &amp; Biodiversity</i> , 22(6), E202402963.
22	Doç. Dr. Halil ŞENOL	Tokalı, F. S., Şenol, H., Ateşoğlu, Ş., Tokalı, P., & Akbaş, F. (2025). Exploring Highly Selective Polymethoxy Fenamate İsoesters As Novel Anti-prostate Cancer Agents: Synthesis, Biological Activity, Molecular Docking, Molecular Dynamics, And ADME Studies. <i>Journal Of Molecular Structure</i> , 1319, 139519.
23	Doç. Dr. Halil ŞENOL	Şenol, H., Çağman, Z., Çakır, F., & Tokalı, F. S. (2025). Synthesis, Characterization, And In Vitro And In Silico Biological Evaluation Of Novel Polyphenols Bearing A Quinazolin-4 (3h)-one Ring As Promising Anti-prostate-cancer Agents. <i>Synlett</i> .
24	Doç. Dr. Halil ŞENOL	Göç, F., Sarı, A., Şenol, H., Özsoy, N., Makbul, S., & Coşkunçelebi, K. (2025). Bioactive Phenolic Contents Of Scorzonera Ketzkhovellii Sosn. Ex Grossh.(Asteraceae) With Comprehensive In Vitro And In Silico Studies. <i>Journal Of Molecular Structure</i> , 1322, 140436.

25	Doç. Dr. Halil ŞENOL	Çakır, F., Ateşoğlu, Ş., Köse, A., Ghaffari-moghaddam, M., Akbaş, F., Kınay, H., ... & Şenol, H. (2025). Novel 4-((3-fluorobenzyl) Oxy) Benzohydrazide Derivatives As Promising Anti-prostate Cancer Agents: Synthesis, Characterization And In Vitro & In Silico Biological Activity Studies. <i>Journal Of Molecular Structure</i> , 1322, 140702.
26	Doç. Dr. Halil ŞENOL	Köksal, Z., & Şenol, H. (2025). Anticholinesterase And Carbonic Anhydrase Inhibitory Activities Of Natural Carnosic Acid Derivatives: A Comprehensive In Vitro And In Silico Study. <i>Archiv Der Pharmazie</i> , 358(3), E2400909.
27	Doç. Dr. Halil ŞENOL	Köse, A., Köse, L. P., Şenol, H., & Ulusoy-güzeldemirci, N. (2025). New 4-methanesulfonyloxy Benzohydrazide Derivatives As Potential Antioxidant And Carbonic Anhydrase I And II Inhibitors: Synthesis, Characterization, Molecular Docking, Dynamics & ADME Studies. <i>Journal Of Molecular Structure</i> , 1325, 140937.
28	Doç. Dr. Halil ŞENOL	Ekiz, Y. C., Şenol, H., & Şen, A. (2025). Therapeutic Potential Of Nitrogen-substituted Oleanolic Acid Derivatives In Neuroinflammatory And Cytokine Pathways: Insights From Cell-based And Computational Models.
29	Doç. Dr. Halil ŞENOL	Ateşoğlu, Ş., Çakır, F., Şenol, A. M., Tokalı, P., Şenol, H., Tokalı, F. S., ... & Kalay, E. (2025). Synthesis, Characterization And In Vitro And In Silico Biological Evaluation Of New Mannich-based Rhodanine And Thiazolidine-2, 4-dione Derivatives As Potential Anti-lung-cancer Agents. <i>Synlett</i> .
30	Doç. Dr. Halil ŞENOL	Turgut, G. Ç., Pepe, N. A., Ekiz, Y. C., Şenol, H., & Şen, A. (2025). Therapeutic Potential Of Nitrogen-substituted Oleanolic Acid Derivatives In Neuroinflammatory And Cytokine Pathways: Insights From Cell-based And Computational Models. <i>Chemistry &amp; Biodiversity</i> , E202500269.

31	Doç. Dr. Halil ŞENOL	Şenol, H., Kılınç, N., Çakır, F., Albay, G., & Tokalı, F. S. (2025). Synthesis And Evaluation Of Aldose Reductase İnhibition Of New Thiazolidine-quinazoline Hybrids Through İn Vitro And İn Silico Approaches. <i>Computational Biology And Chemistry</i> , 108486.
32	Doç. Dr. Halil ŞENOL	Tokalı, F. S., Demir, Y., Şenol, H., Ateşoğlu, Ş., Tokalı, P., Çakır, F., & Akbaş, F. (2025). Aldose Reductase İnhibition Properties Of Novel Thiazolidin-2, 4-diones: İn Vitro And İn Silico Approach For The Treatment Of Diabetes-related Complications. <i>Journal Of Molecular Liquids</i> , 426, 127487.
33	Doç. Dr. Halil ŞENOL	Tokalı, P., Demir, Y., Çakır, F., Şenol, H., & Tokalı, F. S. (2025). Design, Synthesis, And Aldose Reductase İnhibition Assessment Of Novel Quinazolin-4 (3h)-one Derivatives With 4-bromo-2-fluorobenzene Functionality. <i>Bioorganic Chemistry</i> , 108614.
34	Doç. Dr. Halil ŞENOL	Mor, B., Tokalı, F. S., Yıldız, B., Şenol, H., Aksu, Ş., & Mor, N. (2025). Design, Synthesis, And Evaluation Of Novel Quinazolin-4 (3h)-one Derivatives: Anti-leishmanial Activity, Selectivity, And Molecular Docking Insights. <i>Journal Of Biochemical And Molecular Toxicology</i> , 39(6), E70309.
35	Doç. Dr. Halil ŞENOL	Tokalı, F. S., Demir, Y., Ateşoğlu, Ş., Tokalı, P., & Şenol, H. (2025). Quinazolin-4 (3h)-one-based New Glitazones As Dual İnhibitors Of A-glucosidase And Aldose Reductase: Comprehensive Approaches For Managing Diabetes Mellitus And Its Complications. <i>Archiv Der Pharmazie</i> , 358(6), E70033.
36	Doç. Dr. Halil ŞENOL	Tokalı, F. S., Demir, Y., Ateşoğlu, Ş., Tokalı, P., & Şenol, H. (2025). Development Of Phenolic Mannich Bases As A-glucosidase And Aldose Reductase İnhibitors: İn Vitro And İn Silico Approaches For Managing Diabetes Mellitus And Its Complications. <i>Bioorganic &amp; Medicinal Chemistry</i> , 118264.

37	Doç. Dr. Halil ŞENOL	Ay, E. N., Çakır, F., Akyüz, S., Kılınç, N., Tokalı, F. S., & Şenol, H. (2025). Synthesis, Characterization, In Vitro And In Silico Investigations Of Novel 1, 2, 3-triazole Substituted Salicylic Acid Phenolic-hydrazones Hybrids Targeting Tgf-β2 Expression İn Colorectal Carcinoma. <i>European Journal Of Medicinal Chemistry</i> , 117915.
38	Dr. Öğr. Üye Mustafa GÖKÇE	Gokce, M., Ozturk Civelek, D., Vidin Sen, A., Guler, E. M., Civelek, E., Uydeş Doğan, B. S., ... Alp Yıldırım, F. İ.(2025). The Impact Of Liraglutide, A GLP-1 Receptor Agonist, On High Glucose-induced Inflammation, Apoptosis, Oxidative Stress, And NLRP3 Signaling.. <i>Cell Biochemistry And Biophysics</i> .
39	Dr. Öğr. Üye Demet DİNÇEL	Dincel, D., Darı, Y., Hançer, Ç. K., Onal, N. B., Kartal, M., & Topçu, G. (2025). Investigation Of Antioxidant And Anticholinesterase Activity Of Hypericum Perforatum L. Extracts. <i>Turkish Journal Of Analytical Chemistry</i> , 7(1), 1-8.
40	Arş. Gör. Dr. METİN DEMİREL	Aşık, H. K., Atamer, Y., Demirel, M., Şahbaz, T., Selek, S., Alim, M., & Atamer, A. (2025). Nuclear Magnetic Resonance-Based Metabolomic Profiling in Fibromyalgia Patients. <i>NMR in Biomedicine</i> , 38(12), e70167.
41	Arş. Gör. Dr. METİN DEMİREL	Çimen, Y. A., Taşlıdere, B., Sarıkaya, U., Demirel, M., & Selek, S. (2025). Investigation of Associated Diseases in Acute Myocardial Infarction and Heart Failure: Metabolomic Insights

## 2025 YILI MEMNUNİYET ANKETİ



Anketimize 68 kişi katılmıştır.



# Teşekkürler