

## Prof. ESRA AKKOL

### Personal Information

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### International Researcher IDs

ScholarID: lwAhwk8AAAAJ

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Publons / Web Of Science ResearcherID: ABI-4678-2020

ScopusID: 23096992900

Yoksis Researcher ID: 133987

### Education Information

Doctorate, Gazi University, Sağlık Bilimleri Enstitüsü, Farmakognozi (Dr), Turkey 2000 - 2004

Postgraduate, Gazi University, Sağlık Bilimleri Enstitüsü, Farmakognozi (YI) (Tezli), Turkey 1998 - 2000

Undergraduate, Gazi University, Eczacılık Fakültesi, Eczacılık Pr. (4 Yıllık), Turkey 1994 - 1998

### Dissertations

Doctorate, Clematis vitalba L. bitkisinin romatizma tedavisindeki etkisi üzerindeki çalışmalar, Gazi University, Sağlık Bilimleri Enstitüsü, Farmakognozi (Dr), 2004

Postgraduate, Berberis crataegina DC. bitkisinin romatizma tedavisindeki etkisi üzerinde çalışmalar, Gazi University, Sağlık Bilimleri Enstitüsü, Farmakognozi (YI) (Tezli), 2000

### Research Areas

Health Sciences

### Academic Titles / Tasks

Professor, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 2013 - Continues

Associate Professor, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 2007 - 2013

Assistant Professor, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 2006 - 2007

Research Assistant, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 1998 - 2006

### Academic and Administrative Experience

Head of Department, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri, 2021 - 2024

Gazi University, Eczacılık Fakültesi, 2012 - 2016

## Courses

### Undergraduate

Farmakognozi-III, Undergraduate, 2022 - 2023

### Supervised Theses

- Akkol E., Şeker Karatoprak G., CENTAUREA DRABIFOLIA SUBSP. AUSTRO-OCCIDENTALIS WAGENITZ'İN ANTIENFLAMATUVAR ETKİSİNİN ARAŞTIRILMASI, Doctorate, H.NUR(Student), 2024
- Akkol E., Malva nicaeensis All. bitkisinin enflamatuvar bağırsak hastalıkları üzerindeki etkisinin In Vivo ve In Vitro deneysel modellerle değerlendirilmesi, Specialty In Pharmacy, E.GİZEM(Student), 2024
- Akkol E., Jasminum fruticans L. bitkisinin antihelmintik etkisinin farmakognozیک açıdan değerlendirilmesi, Doctorate, S.POUR(Student), 2022
- Akkol E., Malva neglecta wallr. bitkisinin infertilite üzerinde etkisinin değerlendirilmesi, Postgraduate, F.GÜL(Student), 2022
- Akkol E., EVALUATION OF ELAEAGNUS ANGUSTIFOLIA L. IN TERMS OF PHYTOTHERAPY, Postgraduate, Ö.Sultan(Student), 2021
- Akkol E., Investigation Of Phytochemical Properties And Biological Effects Of The Plants Used For The Treatment Of Central Nervous System Disorders In Folk Medicine, Doctorate, F.TUĞÇE(Student), 2019
- Akkol E., Evaluation Of The Effect On The Myasis Of Hyoscyamus Niger L. In Terms Of Pharmacognosy, Postgraduate, M.SAK(Student), 2019
- AKKOL E., Zeytin (Olea europea L.) yaprağının antioksidan etkinliğinin in vitro yöntemlerle araştırılması, Postgraduate, S.MUAMMER(Student), 2019
- Akkol E., Pharmacognostical Studies On The Effects Of Plants Used For The Treatment Of Gynecological Disorders In Folk Medicine, Doctorate, M.İLHAN(Student), 2019
- AKKOL E., Evaluation Of Polygala Anatolica Boiss. Et heldr. In terms of Phytotherapy, Postgraduate, A.İPEK(Student), 2015
- AKKOL E., Soya (glycine max L.)' nın dişi ratlarda reproduktif sisteme etkilerinin stereolojik olarak araştırılması, Doctorate, Y.CEYLANTEKİN(Student), 2014
- AKKOL E., Phytochemical And Biological Activity Studies On Rubus Sanctus Schreber, Postgraduate, E.ARAS(Student), 2014
- Akkol E., Tümen İ., Myrtus communis L. Bitkisinin Fitokimyasal İçeriği, Yara İyileştirici ve Anti-enflamatuvar Aktivitelerinin Değerlendirilmesi, Postgraduate, G.Erbey(Student), 2013
- Akkol E., Baykal T., Türkiye'de Halk Arasında Yara İyileştirici Amaçla Kullanılan Bazı Bitkilerin Aktiviteleri Üzerinde Araştırmalar, Doctorate, İ.SÜNTAR(Student), 2011
- AKKOL E., The importance of pimpinella anisum L. in phytotherapy, Postgraduate, E.GÜNEY(Student), 2010
- AKKOL E., Hypericum perforatum L. ve Hypericum scabrum L. bitkilerinin yara iyileştirici ve antienflamatuvar aktiviteleri üzerinde çalışmalar, Postgraduate, İ.PEŞİN(Student), 2007

### Advising Graduates (Non-Thesis)

Akkol E., Migren Tedavisinde Kullanılan Bitkisel Ürünler, Masters (Non-Thesis), L.Can(Student), 2022

### Jury Memberships

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Gazi Üniversitesi, December, 2023

Doctorate, Doctorate, Afyon Kocatepe Üniversitesi, June, 2023

Doctorate, Doctorate, Gazi Üniversitesi, May, 2023

Doctoral Examination, Doctoral Examination, Gazi Üniversitesi, April, 2023

Post Graduate, Post Graduate, Gazi Üniversitesi, April, 2023

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Fenerbahçe Üniversitesi, March, 2023

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Gazi Üniversitesi, February, 2023

Doctoral Examination, Doctoral Examination, Ankara Üniversitesi, February, 2023

Doctorate, Doctorate, Hacettepe Üniversitesi, December, 2022

Doctoral Examination, Doctoral Examination, Gazi Üniversitesi, December, 2022

Post Graduate, Post Graduate, Gazi Üniversitesi, July, 2022

Doctorate, Doctorate, Gazi Üniversitesi, July, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Gazi Üniversitesi, March, 2022

Doctorate, Doctorate, Gazi Üniversitesi, January, 2022

Doctorate, Doctorate, Gazi Üniversitesi, January, 2022

Post Graduate, Post Graduate, Gazi Üniversitesi, January, 2022

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

- I. **The Anthelmintic Activity of *Nepeta racemosa* Lam. Against Gastrointestinal Nematodes of Sheep: Rosmarinic Acid Quantification and In Silico Tubulin-Binding Studies**  
Ağören B. K., Erez M. S., Kozan E., Dağyaran A., Akdağ M., Sobarzo-Sánchez E., AKKOL E.  
Pathogens, vol.14, no.1, 2025 (SCI-Expanded)
- II. **Oral Active Carbon Quantum Dots for Diabetes**  
Camlik G., Bilakaya B., AKKOL E., Velaro A. J., Wasnik S., Muhar A. M., DEĞİM İ. T., Sobarzo-Sanchez E.  
PHARMACEUTICALS, vol.17, no.10, 2024 (SCI-Expanded)
- III. **Role of terpenes in regulating leukemia: mechanistic and clinical updates**  
Logesh R., Alam W., Alsharif K. F., Albrakati A., AKKOL E., Khan H.  
MINERVA BIOTECHNOLOGY AND BIOMOLECULAR RESEARCH, vol.36, no.3, pp.130-143, 2024 (SCI-Expanded)
- IV. **Hybrid Caffeic Acid-Based DHFR Inhibitors as Novel Antimicrobial and Anticancer Agents**  
Sehrawat R., Pasrija R., Rathee P., Kumari D., Khatkar A., Küpeli Akkol E., Sobarzo-Sánchez E.  
Antibiotics, vol.13, no.6, 2024 (SCI-Expanded)
- V. **Effects of Naphthoquinones from the Roots of *Onosma Armeniacum* Klokov on Wound Healing**  
AKKOL E., SUBAŞ T., ÖZGEN U., SÜNTAR İ., İlhan M., Keleş H.  
Chemistry and Biodiversity, vol.21, no.4, 2024 (SCI-Expanded)
- VI. **Identification of bioactive components on antihemorrhoidal activity of *Cistus laurifolius* L. using RP-HPLC and LC-QTOF-MS**  
PEKACAR S., Özüpek B., AKKOL E., TAŞTAN H., Ersan H., Orhan D. D.  
Journal of Ethnopharmacology, vol.319, 2024 (SCI-Expanded)
- VII. **Sedative and anxiolytic effects of *Capparis sicula* Duhamel: in vivo and in silico approaches with phytochemical profiling**  
Karpuz Ağören B., Küpeli Akkol E., ÇELİK İ., Sobarzo-Sánchez E.  
Frontiers in Pharmacology, vol.15, 2024 (SCI-Expanded)
- VIII. ***In silico* and *In vitro* Analysis of Phenolic Acids for Identification of Potential DHFR Inhibitors as Antimicrobial and Anticancer Agents**  
Sehrawat R., Rathee P., Rathee P., Khatkar S., Akkol E., Khatkar A.  
CURRENT PROTEIN & PEPTIDE SCIENCE, vol.25, no.1, pp.44-58, 2024 (SCI-Expanded)
- IX. **Evaluation of the anti-obesity effect of *Sambucus nigra* L. (elderberry) and *Vitex agnus-castus* L. (chasteberry) extracts in high-fat diet-induced obese rats**  
ULUSOY Ş., İNAL E., Küpeli Akkol E., Çiçek M., KARTAL M., Sobarzo-Sánchez E.

Frontiers in Pharmacology, vol.15, 2024 (SCI-Expanded)

- X. **A comprehensive review on the potential of coumarin and related derivatives as multi-target therapeutic agents in the management of gynecological cancers**  
ŞEKER KARATOPRAK G., Dumlupınar B., CELEP M. E., Kurt Celep I., Küpeli Akkol E., Sobarzo-Sánchez E.  
Frontiers in Pharmacology, vol.15, 2024 (SCI-Expanded)
- XI. **Assessment of Phenolic Composition, Antioxidant Potential, Antimicrobial Properties, and Antidiabetic Activity in Extracts Obtained from Schinus molle L. Leaves and Fruits**  
İLGÜN S., ŞEKER KARATOPRAK G., ÇİÇEK POLAT D., KÖNGÜL ŞAFAK E., YÜCEL Ç., İNCE U., Uvat H. O., AKKOL E.  
FRONTIERS IN BIOSCIENCE-LANDMARK, vol.28, no.12, pp.353-0, 2023 (SCI-Expanded)
- XII. **The Wound-Healing Potential of the Endemic Plant Helianthemum canum (L.) Baumg: Preclinical Studies Supported with Phytochemical Profiling**  
AKKOL E., Kosar M., Baldemir A., ŞEKER KARATOPRAK G., DEMİRPOLAT E., Betül Yerer Aycan M., SÜNTAR İ., İLGÜN S.  
Chemistry and Biodiversity, vol.20, no.12, 2023 (SCI-Expanded)
- XIII. **Antioxidant Activity and Chemical Composition of Geranium Oil and Its Synergistic Potential against Pneumococci with Various Antibiotic Combinations**  
DUMLUPINAR B., Karatoprak G. Ş., DEMİRCİ B., Akkol E., Sobarzo-Sánchez E.  
Plants, vol.12, no.17, 2023 (SCI-Expanded)
- XIV. **Neuroprotection against Aluminum Chloride-Induced Hippocampus Damage in Albino Wistar Rats by Leucophyllum frutescens (Berl.) I.M. Johnst. Leaf Extracts: A Detailed Insight into Phytochemical Analysis and Antioxidant and Enzyme Inhibition Assays**  
Ahmad I., Ahmad S., Akkol E., Rao H., Shahzad M. N., Nawaz M., Ghalloo B. A., Shier W. T., Sobarzo-Sánchez E.  
Frontiers in Bioscience - Landmark, vol.28, no.8, 2023 (SCI-Expanded)
- XV. **Prevention of Inflammation Initiation on Acetic Acid-Induced Ulcerative Colitis in Rats by Malva nicaeensis All.**  
Akkol E., Türkcanoğlu G., TAŞTAN H., Sobarzo-Sánchez E.  
Frontiers in bioscience (Landmark edition), vol.28, no.7, pp.142, 2023 (SCI-Expanded)
- XVI. **Polyphenols: Natural Preservatives with Promising Applications in Food, Cosmetics and Pharma Industries; Problems and Toxicity Associated with Synthetic Preservatives; Impact of Misleading Advertisements; Recent Trends in Preservation and Legislation.**  
Rathee P., Sehrawat R., Rathee P., Khatkar A., Akkol E., Khatkar S., Redhu N., Türkcanoğlu G., Sobarzo-Sánchez E.  
Materials (Basel, Switzerland), vol.16, no.13, 2023 (SCI-Expanded)
- XVII. **Editorial: Needs and challenges associated with the therapeutic use of novel natural products in weight control and diabetes management**  
DELİORMAN ORHAN D., AKKOL E., Khan H.  
FRONTIERS IN PHARMACOLOGY, vol.13, 2023 (SCI-Expanded)
- XVIII. **Editorial: The Effect of Herbal Medicine on Intestinal Flora and the Potential Molecular Mechanism**  
Liu W., Deng X., Kang W., Qian J., Akkol E., Durazzo A., Lucarini M.  
Frontiers in Pharmacology, vol.14, 2023 (SCI-Expanded)
- XIX. ***In silico* design of novel bioactive molecules to treat breast cancer with chlorogenic acid derivatives: a computational and SAR approach**  
Sehrawat R., Rathee P., Rathee P., Khatkar S., AKKOL E., Khatkar A., Sobarzo-Sanchez E.  
FRONTIERS IN PHARMACOLOGY, vol.14, 2023 (SCI-Expanded)
- XX. **Bioactive Saponins of Primula vulgaris Huds. Promote Wound Healing through Inhibition of Collagenase and Elastase Enzymes: in Vivo, in Vitro and in Silico Evaluations**  
KAHRAMAN Ç., SARI S., AKKOL E., ÇANKAYA İ. İ.  
CHEMISTRY & BIODIVERSITY, vol.19, no.12, 2022 (SCI-Expanded)
- XXI. **Phytochemical Profiles, Antioxidant, Cytotoxic, and Anti-Inflammatory Activities of Traditional Medicinal Plants: Centaurea pichleri subsp. pichleri, Conyza canadensis, and Jasminum fruticans**  
ÇİÇEK POLAT D., İLGÜN S., Karatoprak G. Ş., AKKOL E., Capasso R.  
Molecules, vol.27, no.23, 2022 (SCI-Expanded)

- XXII. **A Critical Analysis of Quercetin as the Attractive Target for the Treatment of Parkinson's Disease**  
BAHADIR ACIKARA Ö, ŞEKER KARATOPRAK G., YÜCEL Ç., AKKOL E., Sobarzo-Sanchez E., Khayatkashani M., Kamal M. A., Kashani H. R. K.  
CNS & NEUROLOGICAL DISORDERS-DRUG TARGETS, vol.21, no.9, pp.795-817, 2022 (SCI-Expanded)
- XXIII. **The Phytochemical Profile and Biological Activity of Malva neglecta Wallr. in Surgically Induced Endometriosis Model in Rats**  
Akkol E., Karpuz B., Türkcanoğlu G., Coşgunçelebi F. G., TAŞTAN H., Aschner M., Khatkar A., Sobarzo-Sánchez E.  
Molecules, vol.27, no.22, 2022 (SCI-Expanded)
- XXIV. **Phytochemical Composition and Biological Activities of Arctium minus (Hill) Bernh.: A Potential Candidate as Antioxidant, Enzyme Inhibitor, and Cytotoxic Agent**  
İLGÜN S., ŞEKER KARATOPRAK G., Polat D. C., Safak E. K., Yıldız G., AKKOL E., Sobarzo-Sanchez E.  
ANTIOXIDANTS, vol.11, no.10, 2022 (SCI-Expanded)
- XXV. **Wound healing acceleration and anti-inflammatory potential of Prunella vulgaris L.: From conventional use to preclinical scientific verification**  
AKKOL E., RENDA G., İlhan M., Bektas N. Y.  
JOURNAL OF ETHNOPHARMACOLOGY, vol.295, 2022 (SCI-Expanded)
- XXVI. **Immunomodulatory and anti-inflammatory therapeutic potential of gingerols and their nanoformulations**  
YÜCEL Ç., ŞEKER KARATOPRAK G., BAHADIR ACIKARA Ö, AKKOL E., BARAK T. H., Sobarzo-Sanchez E., Aschner M., Shirooie S.  
FRONTIERS IN PHARMACOLOGY, vol.13, 2022 (SCI-Expanded)
- XXVII. **GC-MS profiling, phytochemical and biological investigation of aerial parts of Leucophyllum frutescens (Berl.) IM Johnst (Cenizo)**  
Ahmad I., Ahmed S., Akkol E., Rao H., Shahzad M. N., Shaukat U., Basit A., Fatima M.  
SOUTH AFRICAN JOURNAL OF BOTANY, vol.148, pp.200-209, 2022 (SCI-Expanded)
- XXVIII. **Herbal Ingredients in the Prevention of Breast Cancer: Comprehensive Review of Potential Molecular Targets and Role of Natural Products**  
Akkol E., Bardakci H., Barak T. H., Aschner M., Karatoprak G. S., Khan H., Hussain Y.  
OXIDATIVE MEDICINE AND CELLULAR LONGEVITY, vol.2022, 2022 (SCI-Expanded)
- XXIX. **Regulation of DAPK1 by Natural Products: An Important Target in Treatment of Stroke**  
Noori T., Shirooie S., Sureda A., Sobarzo-Sanchez E., Dehpour A. R., Saldias M., AKKOL E.  
NEUROCHEMICAL RESEARCH, vol.47, no.8, pp.2142-2157, 2022 (SCI-Expanded)
- XXX. **In silico investigation and potential therapeutic approaches of natural products for COVID-19: Computer-aided drug design perspective**  
Rahman M. M., Islam M. R., Akash S., Mim S. A., Rahaman M. S., Bin Emran T., AKKOL E., Sharma R., Alhumaydhi F. A., Sweilam S. H., et al.  
FRONTIERS IN CELLULAR AND INFECTION MICROBIOLOGY, vol.12, 2022 (SCI-Expanded)
- XXXI. **Anti-inflammatory and Antinociceptive Potential of Verbascum latisepalum**  
KAHRAMAN Ç., SARI S., AKKOL E., AKDEMİR Z. Ş., ÇANKAYA İ. İ.  
REVISTA BRASILEIRA DE FARMACOGNOSIA-BRAZILIAN JOURNAL OF PHARMACOGNOSY, vol.32, no.4, pp.537-543, 2022 (SCI-Expanded)
- XXXII. **Phytochemical profile, antioxidant, antiproliferative, and enzyme inhibition-docking analyses of Salvia ekimiana Celep & Dogan**  
ŞEKER KARATOPRAK G., GÖGER F., ÇELİK İ., BUDAK Ü., AKKOL E., Aschner M.  
SOUTH AFRICAN JOURNAL OF BOTANY, vol.146, pp.36-47, 2022 (SCI-Expanded)
- XXXIII. **Plants with Therapeutic Potential for Ischemic Acute Kidney Injury: A Systematic Review**  
Ali A., Lima Sampaio T., Khan H., Jeandet P., AKKOL E., Bahadar H., Costa Martins A. M.  
EVIDENCE-BASED COMPLEMENTARY AND ALTERNATIVE MEDICINE, vol.2022, 2022 (SCI-Expanded)
- XXXIV. **A comprehensive and current review on the role of flavonoids in lung cancer-Experimental and theoretical approaches**  
BERK Ş., KAYA S., AKKOL E., BARDAKCI H.

PHYTOMEDICINE, vol.98, 2022 (SCI-Expanded)

- XXXV. **Advances and challenges in cancer treatment and nutraceutical prevention: the possible role of dietary phenols in BRCA regulation**  
Khan H., Labanca F., Ullah H., Hussain Y., Tzvetkov N. T., AKKOL E., Milella L.  
PHYTOCHEMISTRY REVIEWS, vol.21, no.2, pp.385-400, 2022 (SCI-Expanded)
- XXXVI. **Targeting lactate metabolism and glycolytic pathways in the tumor microenvironment by natural products: A promising strategy in combating cancer**  
Kooshki L., Mahdavi P., Fakhri S., AKKOL E., Khan H.  
BIOFACTORS, vol.48, no.2, pp.359-383, 2022 (SCI-Expanded)
- XXXVII. **Effects of chitosan and platelet-rich plasma on facial nerve regeneration in an animal model**  
Şahin M. M., Cayonu M., Dinc S. K., Ozkocer E., Ilhan M., Uzunoğlu E., Elmas Ç., Yilmaz M., Akkol E.  
EUROPEAN ARCHIVES OF OTO-RHINO-LARYNGOLOGY, vol.279, no.2, pp.987-994, 2022 (SCI-Expanded)
- XXXVIII. **A New Perspective on the Treatment of Alzheimer's Disease and Sleep Deprivation-Related Consequences: Can Curcumin Help?**  
Kuepeli Akkol E., BARDAKCI H., Yucel C., Seker Karatoprak G., Karpuz B., Khan H.  
OXIDATIVE MEDICINE AND CELLULAR LONGEVITY, vol.2022, 2022 (SCI-Expanded)
- XXXIX. **Effects of Natural Products on Neuromuscular Junction**  
AKKOL E., ŞEKER KARATOPRAK G., Carpar E., Hussain Y., Khan H., Aschner M.  
CURRENT NEUROPHARMACOLOGY, vol.20, no.3, pp.594-610, 2022 (SCI-Expanded)
- XL. **Phenolic Acids-Versatile Natural Moiety with Numerous Biological Applications**  
Sehrawat R., Rathee P., Akkol E., Khatkar S., Lather A., Redhu N., Khatkar A.  
CURRENT TOPICS IN MEDICINAL CHEMISTRY, vol.22, no.18, pp.1472-1484, 2022 (SCI-Expanded)
- XLI. **Advances in Understanding the Role of Aloe Emodin and Targeted Drug Delivery Systems in Cancer**  
ŞEKER KARATOPRAK G., AKKOL E., YÜCEL Ç., BAHADIR ACIKARA Ö., Sobarzo-Sanchez E.  
OXIDATIVE MEDICINE AND CELLULAR LONGEVITY, vol.2022, 2022 (SCI-Expanded)
- XLII. **Assessment of Antioxidant Effect of Beta-Glucan on the Whole Blood Oxidative DNA Damage with the Comet Assay in Colorectal Cancer**  
Benlier N., Ucar N., Ogut E., Cinkir H. Y., Yildirim M., Karadeniz P. G., AKKOL E., Khan H., Saygili E. I.  
CURRENT MOLECULAR PHARMACOLOGY, vol.15, no.2, pp.446-453, 2022 (SCI-Expanded)
- XLIII. **Plant-Derived Natural Compounds for the Treatment of Amyotrophic Lateral Sclerosis: An Update**  
Mohi-ud-Din R., Mir R. H., Shah A. J., Sabreen S., Wani T. U., Masoodi M. H., AKKOL E., Bhat Z. A., Khan H.  
CURRENT NEUROPHARMACOLOGY, vol.20, no.1, pp.179-193, 2022 (SCI-Expanded)
- XLIV. **An Overview on Rumex dentatus L.: Its Functions as a Source of Nutrient and Health-Promoting Plant**  
Khalil A. A. K., Zeb F., Khan R., Shah S. A., Küpeli Akkol E., Khan I. N., Khan J., Babar Jamal S., Khuda F., Haider A., et al.  
Evidence-based Complementary and Alternative Medicine, vol.2022, 2022 (SCI-Expanded)
- XLV. **Development of Cholesterol-Lowering and Detox Formulations Using Bentonite and Herbal Ingredients.**  
Turgut R., KARTAL M., Akkol E., Demirbolat İ., TAŞTAN H.  
Frontiers in pharmacology, vol.12, pp.775789, 2021 (SCI-Expanded)
- XLVI. **The Struggle with Rheumatism through Dracunculus vulgaris Schott: In the Light of Ethnobotanical Information**  
GÜRAĞAÇ DERELİ F. T., Ilhan M., AKKOL E.  
Current Molecular Pharmacology, vol.14, no.6, pp.1125-1133, 2021 (SCI-Expanded)
- XLVII. **Neuroactivity of the naturally occurring aporphine alkaloid, roemerine.**  
Bayazeid O., NEMUTLU E., Eylem C. C., Ilhan M., Kupeli-Akkol E., Karahan H., Kelicen-Ugur P., Ersoz T., Yalcin F. N.  
Natural product research, vol.35, no.24, pp.6147-6152, 2021 (SCI-Expanded)
- XLVIII. **Appraisal of the antimicrobial and cytotoxic potentials of nanoparticles biosynthesized from the extracts of Pelargonium quercetorum Agnew**  
Dumlupinar B., ŞEKER KARATOPRAK G., Firat M., AKKOL E.  
FRONTIERS IN BIOSCIENCE-LANDMARK, vol.26, no.11, pp.1089-1096, 2021 (SCI-Expanded)

- XLIX. Targeting Mitochondria by Plant Secondary Metabolites: A Promising Strategy in Combating Parkinson's Disease**  
Fakhri S., Abdian S., Zarneshan S. N., AKKOL E., Farzaei M. H., Sobarzo-Sanchez E.  
INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, vol.22, no.22, 2021 (SCI-Expanded)
- L. The Neuroprotective Role of Polydatin: Neuropharmacological Mechanisms, Molecular Targets, Therapeutic Potentials, and Clinical Perspective**  
Fakhri S., Gravandi M. M., Abdian S., AKKOL E., Farzaei M. H., Sobarzo-Sanchez E.  
MOLECULES, vol.26, no.19, 2021 (SCI-Expanded)
- LI. Can Carbon Quantum Dots (CQDs) or Boron Compounds be an Ultimate Solution for COVID-19 Therapy?**  
Camlik G., Akkol E., Degim Z., Degim I. T.  
Iranian journal of pharmaceutical research : IJPR, vol.20, no.4, pp.9-20, 2021 (SCI-Expanded)
- LII. Multifunctional Therapeutic Potential of Phytocomplexes and Natural Extracts for Antimicrobial Properties**  
Rahman M. M., Rahaman M. S., Islam M. R., Hossain M. E., Mithi F. M., Ahmed M., Saldias M., AKKOL E., Sobarzo-Sanchez E.  
ANTIBIOTICS-BASEL, vol.10, no.9, 2021 (SCI-Expanded)
- LIII. Is Emodin with Anticancer Effects Completely Innocent? Two Sides of the Coin**  
AKKOL E., Tatli I. I., ŞEKER KARATOPRAK G., AĞAR O. T., YÜCEL Ç., Sobarzo-Sanchez E., Capasso R.  
CANCERS, vol.13, no.11, 2021 (SCI-Expanded)
- LIV. Formation of quantum water in nanoparticulate systems**  
Yerlikaya F., Camlik G., AKKOL E., Degim Z., DEĞİM İ. T., Sobarzo-Sanchez E.  
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AKKOL E., Project Supported by Other Official Institutions, Türk Halk İlaçlarının Biyolojik Etki Yönünden Değerlendirilmesi, 2002 - 2007

AKKOL E., TUBITAK Project, Analjezik ve Antiinflatuar Etkiye Sahip Olabilecek Yeni 7 Açıl 5 kloro 2 benzoksazolinon Türevlerinin Sentezi ve Biyolojik Aktivitelerinin Tayini, 2002 - 2003

DOĞRUER D. S., AKKOL E., TUBITAK Project, Fitalazinin Türevlerinin Sentezleri ve Biyolojik Aktiviteleri, 2001 - 2002

AKKOL E., TUBITAK Project, Analjezik Etkili Fitalazinin Türevleri Üzerinde Çalışmalar, 2001 - 2002

Baytaş S., Küpeli E., Ünlü S., Yeşilada E., TUBITAK Project, Analjezik ve Antiinflatuar Etkiye Sahip Olabilecek Yeni 7-Açıl-5-kloro-2-benzoksazolinon Türevlerinin Sentezi ve Biyolojik Aktivitelerinin Tayini, 2000 - 2002

## Activities in Scientific Journals

JOURNAL OF ETHNOPHARMACOLOGY, Special Issue Editor, 2023 - Continues

JOURNAL OF ETHNOPHARMACOLOGY, Assistant Editor/Section Editor, 2021 - Continues

FRONTIERS IN PHARMACOLOGY, Article Editor, 2021 - Continues

JOURNAL OF PHARMACOGENOMICS & PHARMACOPROTEOMICS, Assistant Editor/Section Editor, 2012 - Continues

PHARMACEUTICS, Special Issue Editor, 2023 - 2024

MOLECULES, Special Issue Editor, 2020 - 2024

MEDIATORS OF INFLAMMATION, Assistant Editor/Section Editor, 2022 - 2023

OXIDATIVE MEDICINE AND CELLULAR LONGEVITY, Assistant Editor/Section Editor, 2021 - 2023

FRONTIERS IN PHARMACOLOGY, Special Issue Editor, 2021 - 2023

FRONTIERS IN PHARMACOLOGY, Special Issue Editor, 2021 - 2023

FRONTIERS IN BIOSCIENCE-LANDMARK, Special Issue Editor, 2021 - 2022

## Scientific Project Refereeing

TUBITAK Project, 1501 - Industry R & D Projects Support Program, January 2024

TUBITAK Project, 1501 - Industry R & D Projects Support Program, January 2024

TUBITAK Project, 1002 - Quick Support Program, August 2023

TUBITAK Project, 3501 - National Young Researcher Career Development Program, June 2023

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, May 2023

TUBITAK Project, 1071-Uluslararası Araştırma Fonlarından Yararlanma Kapasitesinin ve Uluslararası Ar-Ge İşbirliklerine Katılımın Arttırılmasına Yönelik Destek Programı , April 2023

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, February 2023

TUBITAK Project, 1002 - Quick Support Program, December 2022

TUBITAK Project, 1071-Uluslararası Araştırma Fonlarından Yararlanma Kapasitesinin ve Uluslararası Ar-Ge İşbirliklerine Katılımın Arttırılmasına Yönelik Destek Programı , November 2022

## Metrics

Publication: 334

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H-Index (Scopus): 47

## Non Academic Experience

Ministry, Türkiye İlaç ve Tıbbi Cihaz Kurumu, Türkiye İlaç ve Tıbbi Cihaz Kurumu, Komisyon Üyesi

Ministry, Tarım ve Orman Bakanlıđı Gıda ve Kontrol Genel M¼d¼rl¼đ¼, Gıda Olarak Kullanılabilecek Bitkiler Komisyonu,  
Komisyon Üyesi  
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University, Yıldırım Beyazıt Üniversitesi, Klinik Çalıřmalar Etik Komitesi, Komite Üyesi