

Prof. ESRA AKKOL

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International Researcher IDs

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

ScopusID: 23096992900

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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, 2022 - Continues

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

Courses

Farmakognozi-III, Undergraduate, 2022 - 2023

Advising Theses

Akkol E., *Jasminum fruticans* L. bitkisinin antihelmintik etkisinin farmakognozik 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., Pharmacognostical Studies On The Effects Of Plants Used For The Treatment Of Gynecological Disorders In Folk Medicine, Doctorate, M.İLHAN(Student), 2019

AKKOL E., Zeytin (*Olea europea* L.) yaprağının antioksidan etkinliğinin in vitro yöntemlerle araştırılması, Postgraduate, S.MUAMMER(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., 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., 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

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

Doctorate, Doctorate, Hacettepe Üniversitesi, December, 2022

Doctorate, Doctorate, Gazi Üniversitesi, July, 2022

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

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

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

Doctorate, Doctorate, Gazi Üniversitesi, January, 2022

Doctorate, Doctorate, Gazi Üniversitesi, January, 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **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)
- II. **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)
- III. **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)
- IV. **Antioxidant Activity and Chemical Composition of Geranium Oil and Its Synergistic Potential against *Pneumococci* with Various Antibiotic Combinations**
DÜMLUPINAR B., Karatoprak G. Ş., DEMİRCİ B., Akkol E., Sobarzo-Sánchez E.
Plants, vol.12, no.17, 2023 (SCI-Expanded)
- V. **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)
- VI. **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)
- VII. **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)
- VIII. **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)
- IX. **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)
- X. **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)
- XI. **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)
- XII. **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)

- XIII. **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)
- XIV. **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)
- XV. **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)
- XVI. **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)
- XVII. **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)
- XVIII. **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)
- XIX. **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)
- XX. **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)
- XXI. **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)
- XXII. **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)
- XXIII. **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)
- XXIV. **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)
- XXV. **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)

- XXVI. **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)
- XXVII. **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., Yılmaz M., Akkol E.
EUROPEAN ARCHIVES OF OTO-RHINO-LARYNGOLOGY, vol.279, no.2, pp.987-994, 2022 (SCI-Expanded)
- XXVIII. **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)
- XXIX. **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)
- XXX. **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)
- XXXI. **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)
- XXXII. **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)
- XXXIII. **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)
- XXXIV. **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)
- XXXV. **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)
- XXXVI. **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)
- XXXVII. **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)
- XXXVIII. **Appraisal of the antimicrobial and cytotoxic potentials of nanoparticles biosynthesized from the extracts of Pelargonium quercetorum Agnew**
Dumlupinar B., ŞEKER KARATOPRAK G., Fırat M., AKKOL E.
FRONTIERS IN BIOSCIENCE-LANDMARK, vol.26, no.11, pp.1089-1096, 2021 (SCI-Expanded)
- XXXIX. **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)

- XL. 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)
- XLI. 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)
- XLII. 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)
- XLIII. Formation of quantum water in nanoparticulate systems**
Yerlikaya F., Camlik G., AKKOL E., Degim Z., DEĞİM İ. T., Sobarzo-Sanchez E.
JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY, vol.63, 2021 (SCI-Expanded)
- XLIV. 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)
- XLV. Natural Compounds as Medical Strategies in the Prevention and Treatment of Psychiatric Disorders Seen in Neurological Diseases.**
Kupeli Akkol E., Tatli Cankaya I., ŞEKER KARATOPRAK G., Carpar E., Sobarzo-Sanchez E., Capasso R.
Frontiers in pharmacology, vol.12, pp.669638, 2021 (SCI-Expanded)
- XLVI. Ageratum conyzoides L. and Its Secondary Metabolites in the Management of Different Fungal Pathogens**
Chahal R., Nanda A., AKKOL E., Sobarzo-Sanchez E., Arya A., Kaushik D., Dutt R., Bhardwaj R., Rahman M. H., Mittal V.
MOLECULES, vol.26, no.10, 2021 (SCI-Expanded)
- XLVII. Antibacterial, antifungal and enzyme inhibitory effects of selected plants from Turkey**
Gürbüz İ., Özçelik B., Günbatan T., Akkol E., Sahinoz M., Akaydın G.
PAKISTAN JOURNAL OF PHARMACEUTICAL SCIENCES, vol.34, no.3, pp.1011-1017, 2021 (SCI-Expanded)
- XLVIII. Targeting Multiple Signal Transduction Pathways of SARS-CoV-2: Approaches to COVID-19 Therapeutic Candidates**
Fakhri S., Nouri Z., Moradi S. Z., AKKOL E., Piri S., Sobarzo-Sanchez E., Farzaei M. H., Echeverria J.
MOLECULES, vol.26, no.10, 2021 (SCI-Expanded)
- XLIX. Glyco-nanoparticles: New drug delivery systems in cancer therapy**
Khan H., Mirzaei H. R., Amiri A., AKKOL E., Halimi S. M. A., Mirzaei H.
SEMINARS IN CANCER BIOLOGY, vol.69, pp.24-42, 2021 (SCI-Expanded)
- L. Gut-Brain-Microbiota Axis: Antibiotics and Functional Gastrointestinal Disorders.**
KARAKAN T., ÖZKUL KOÇAK C., Kupeli Akkol E., BİLİCİ S., Sobarzo-Sanchez E., Capasso R.
Nutrients, vol.13, no.2, 2021 (SCI-Expanded)
- LI. Promising Perspective to Facioscapulohumeral Muscular Dystrophy Treatment: Nutraceuticals and Phytochemicals.**
HANGÜL C., Karaüzüm S. B., Akkol E., Demir-Dora D., Çetin Z., Saygılı E. İ., Evcili G., Sobarzo-Sánchez E.
Current neuropharmacology, vol.19, no.12, pp.2276-2295, 2021 (SCI-Expanded)
- LII. An Effective Phytoconstituent Aconitine: A Realistic Approach for the Treatment of Trigeminal Neuralgia**
Çankal D., AKKOL E., KILINÇ Y., İlhan M., Capasso R.
Mediators of Inflammation, vol.2021, 2021 (SCI-Expanded)
- LIII. A Realistic Approach for Anti-Inflammatory, Antinociceptive and Antimicrobial Activities, and Risk Assessment of the Aqueous Extract of Platanus orientalis L. Leaves**
YEŞİLADA E., AKKOL E., AYDIN A., Hamitoglu M.

- CURRENT MOLECULAR PHARMACOLOGY, vol.14, no.5, pp.753-759, 2021 (SCI-Expanded)
- LIV. **Pain and Inflammation Management by Using Bioactive Molecules Derived from Medicinal Plants or Natural Products**
AKKOL E., Sobarzo-Sanchez E.
CURRENT MOLECULAR PHARMACOLOGY, vol.14, no.5, pp.677, 2021 (SCI-Expanded)
- LV. **Datura metel: A Review on Chemical Constituents, Traditional Uses and Pharmacological Activities**
Alam W., Khan H., Khan S. A., Nazir S., AKKOL E.
CURRENT PHARMACEUTICAL DESIGN, vol.27, no.22, pp.2545-2557, 2021 (SCI-Expanded)
- LVI. **Pain Perception and Management: Where do We Stand?**
Afridi B., Khan H., AKKOL E., Aschner M.
CURRENT MOLECULAR PHARMACOLOGY, vol.14, no.5, pp.678-688, 2021 (SCI-Expanded)
- LVII. **Predicted SARS-CoV-2 miRNAs Associated with Epigenetic Viral Pathogenesis and the Detection of New Possible Drugs for Covid-19.**
Çetin Z., Bayrak T., Oğul H., Saygili E. I., Akkol E.
Current drug delivery, vol.18, no.10, pp.1595-1610, 2021 (SCI-Expanded)
- LVIII. **Flavonoids targeting NRF2 in neurodegenerative disorders**
Khan H., Tundis R., Ullah H., Aschner M., Belwal T., Mirzaei H., Akkol E.
FOOD AND CHEMICAL TOXICOLOGY, vol.146, 2020 (SCI-Expanded)
- LIX. **The role of glycogen synthase kinase 3 beta in multiple sclerosis**
Noori T., Dehpour A. R., Sureda A., Fakhri S., Sobarzo-Sanchez E., Farzaei M. H., Akkol E., Khodarahmi Z., Hosseini S. Z., Alavi S. D., et al.
BIOMEDICINE & PHARMACOTHERAPY, vol.132, 2020 (SCI-Expanded)
- LX. **Beneficial effects of *Ajuga chamaepitys* (L.) Schreber subsp. chia (Schreber) and its iridoids on the colitis model: Histopathological and biochemical evidence**
AKKOL E., İlhan M., Karpuz B., TAŞTAN H., Sobarzo-Sanchez E., Khan H.
FOOD AND CHEMICAL TOXICOLOGY, vol.144, 2020 (SCI-Expanded)
- LXI. **From nutrition to medicine: Assessing hemorrhoid healing activity of *Solanum melongena* L. via in vivo experimental models and its major chemicals**
Donmez C., Yalcin F. N., Boyacioglu O., KORKUSUZ P., AKKOL E., NEMUTLU E., BALABAN H. Y., KOCA ÇALIŞKAN U.
JOURNAL OF ETHNOPHARMACOLOGY, vol.261, 2020 (SCI-Expanded)
- LXII. **A phytopharmacological overview of medicinal plants used for prophylactic and treatment of colitis**
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Activities in Scientific Journals

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OXIDATIVE MEDICINE AND CELLULAR LONGEVITY, Assistant Editor/Section Editor, 2021 - Continues
JOURNAL OF ETHNOPHARMACOLOGY, Assistant Editor/Section Editor, 2021 - Continues
FRONTIERS IN PHARMACOLOGY, Article Editor, 2021 - Continues
MOLECULES, Special Issue Editor, 2020 - Continues

JOURNAL OF PHARMACOGENOMICS & PHARMACOPROTEOMICS, Assistant Editor/Section Editor, 2012 - Continues
FRONTIERS IN PHARMACOLOGY, Special Issue Editor, 2021 - 2023
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Scientific Refereeing

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Metrics

Publication: 285
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Non Academic Experience

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