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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

Gazi University, Eczacılık Fakültesi, 2012 - 2016

Advising Theses

AKKOL E., Zeytin (*Olea europea* L.) yaprağının antioksidan etkinliğinin in vitro yöntemlerle araştırılması, Postgraduate, S.MUAMMER(Student), 2019

AKKOL E., Halk arasında santral sinir sistemi rahatsızlıklarının tedavisinde kullanılan bitkilerin fitokimyasal ve biyolojik etki açısından incelenmesi, Doctorate, F.TUĞÇE(Student), 2019

AKKOL E., Hyoscyamus niger L. bitkisinin miyazis üzerine etkisinin farmakognozik açıdan değerlendirilmesi, Postgraduate, M.SAK(Student), 2019

AKKOL E., Halk arasında jinekolojik rahatsızlıklarda kullanılan bitkilerin etkinlikleri üzerinde farmakognozik araştırmalar, 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., Phytochemical And Biological Activity Studies On Rubus Sanctus Schreber, Postgraduate, E.ARAS(Student), 2014

AKKOL E., Soya (glycine max L.)' nın dişi ratlarda reproduktif sisteme etkilerinin stereolojik olarak araştırılması, Doctorate, Y.CEYLANTEKİN(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 antiinflamatuvar aktiviteleri üzerinde çalışmalar, Postgraduate, İ.PEŞİN(Student), 2007

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **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, 2021 (Journal Indexed in SCI)
- II. **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 (Journal Indexed in SCI)
- III. **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, 2021 (Journal Indexed in SCI)
- IV. **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 (Journal Indexed in SCI)
- V. **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 (Journal Indexed in SCI)
- VI. **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 (Journal Indexed in SCI)
- VII. **Antibacterial, antifungal and enzyme inhibitory effects of selected plants from Turkey**
GÜRBÜZ İ., ÖZÇELİK B., GÜNBATAN T., AKKOL E., Sahinoz M., AKAYDIN G.
PAKISTAN JOURNAL OF PHARMACEUTICAL SCIENCES, vol.34, no.3, pp.1011-1017, 2021 (Journal Indexed in SCI)
- VIII. **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 (Journal Indexed in SCI)
- IX. **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.

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- X. **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 (Journal Indexed in SCI)
- XI. **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 (Journal Indexed in SCI)
- XII. **A phytopharmacological overview of medicinal plants used for prophylactic and treatment of colitis**
AKKOL E., Karpuz B., Sobarzo-Sanchez E., Khan H.
FOOD AND CHEMICAL TOXICOLOGY, vol.144, 2020 (Journal Indexed in SCI)
- XIII. **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 (Journal Indexed in SCI)
- XIV. **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 (Journal Indexed in SCI)
- XV. **The investigation of the potential antidepressant-like activity of Xanthium orientale subsp. italicum (Moretti) Greuter in rodents**
GÜRAĞAÇ DERELİ F. T. , İlhan M., Sobarzo-Sanchez E., AKKOL E.
JOURNAL OF ETHNOPHARMACOLOGY, vol.258, 2020 (Journal Indexed in SCI)
- XVI. **Oxidative Stress and Marine Carotenoids: Application by Using Nanoformulations**
GENÇ Y., BARDAKCI H., YÜCEL Ç., ŞEKER KARATOPRAK G., AKKOL E., BARAK T. H. , Sobarzo-Sanchez E.
MARINE DRUGS, vol.18, no.8, 2020 (Journal Indexed in SCI)
- XVII. **Anticancer Potential of Furanocoumarins: Mechanistic and Therapeutic Aspects**
Ahmed S., Khan H., Aschner M., Mirzae H., AKKOL E., Capasso R.
INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, vol.21, no.16, 2020 (Journal Indexed in SCI)
- XVIII. **Coumarins and Coumarin-Related Compounds in Pharmacotherapy of Cancer**
AKKOL E., GENÇ Y., Karpuz B., Sobarzo-Sanchez E., Capasso R.
CANCERS, vol.12, no.7, 2020 (Journal Indexed in SCI)
- XIX. **Combretastatins: An Overview of Structure, Probable Mechanisms of Action and Potential Applications**
ŞEKER KARATOPRAK G., AKKOL E., GENÇ Y., BARDAKCI H., YÜCEL Ç., Sobarzo-Sanchez E.
MOLECULES, vol.25, no.11, 2020 (Journal Indexed in SCI)
- XX. **Sedative Effects of Latexes Obtained from Some Lactuca L. Species Growing in Turkey**
İLGÜN S., AKKOL E., İlhan M., POLAT D. Ç. , Kilic A. B. , COŞKUN M., Sobarzo-Sanchez E.
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- XXI. **Sedative and Anxiolytic Activities of Opuntia ficus indica (L.) Mill.: An Experimental Assessment in Mice**
AKKOL E., İlhan M., Karpuz B., GENÇ Y., Sobarzo-Sanchez E.
MOLECULES, vol.25, no.8, 2020 (Journal Indexed in SCI)
- XXII. **Isolation and identification of triterpenes from Anthemis austriaca Jacq. through bioactivity-guided fractionation on polycystic ovary syndrome rat model**
İlhan M., Ali Z., Khan I. A. , Tastan H., AKKOL E.
ARCHIVES OF GYNECOLOGY AND OBSTETRICS, vol.301, no.4, pp.1103-1111, 2020 (Journal Indexed in SCI)
- XXIII. **Potential Antioxidant and Enzyme Inhibitory Effects of Nanoliposomal Formulation Prepared from Salvia aramiensis Rech. f. Extract**
ŞEKER KARATOPRAK G., YÜCEL Ç., GÖGER F., Sobarzo-Sanchez E., AKKOL E.
ANTIOXIDANTS, vol.9, no.4, 2020 (Journal Indexed in SCI)
- XXIV. **Effect of Sorbus domestica and its active constituents in an experimental model of colitis rats**

induced by acetic acid

AKKOL E., Dereli F. T. G. , TASTAN H., Sobarzo-Sanchez E., Khan H.

JOURNAL OF ETHNOPHARMACOLOGY, vol.251, 2020 (Journal Indexed in SCI)

- XXV. **Antidepressant Potential of *Lotus corniculatus* L. subsp. *corniculatus*: An Ethnobotany Based Approach**
Guragac Dereli F. T. , Khan H., Sobarzo-Sanchez E., AKKOL E.
MOLECULES, vol.25, no.6, 2020 (Journal Indexed in SCI)
- XXVI. **Enzyme inhibitory assessment of the isolated constituents from *Plantago holosteum* Scop.**
Dereli F. T. G. , GENÇ Y., SARAÇOĞLU İ., AKKOL E.
ZEITSCHRIFT FÜR NATURFORSCHUNG SECTION C-A JOURNAL OF BIOSCIENCES, vol.75, pp.121-128, 2020 (Journal Indexed in SCI)
- XXVII. **The regression of endometriosis with glycosylated flavonoids isolated from *Melilotus officinalis* (L.) Pall. in an endometriosis rat model**
İlhan M., Ali Z., Khan I. A. , TAŞTAN H., AKKOL E.
TAIWANESE JOURNAL OF OBSTETRICS & GYNECOLOGY, vol.59, no.2, pp.211-219, 2020 (Journal Indexed in SCI)
- XXVIII. **Identification of the main active antidepressant constituents in a traditional Turkish medicinal plant, *Centaurea kurdica* Reichardt**
Dereli F. T. G. , İlhan M., AKKOL E.
JOURNAL OF ETHNOPHARMACOLOGY, vol.249, 2020 (Journal Indexed in SCI)
- XXIX. **Anti-inflammatory Activity of Sesquiterpene Lactones from *Chrysophthalmum montanum* (DC.) Boiss**
Ayaz F., AKKOL E., Goren N., ÇALIŞ İ., Dereli F. T. G. , DUMAN H., Choudhary M. I. , Kucukboyaci N.
RECORDS OF NATURAL PRODUCTS, vol.14, no.1, pp.48-56, 2020 (Journal Indexed in SCI)
- XXX. **Neuroprotective Effects of Quercetin in Alzheimer's Disease**
Khan H., Ullah H., Aschner M., Cheang W. S. , AKKOL E.
BIOMOLECULES, vol.10, no.1, 2020 (Journal Indexed in SCI)
- XXXI. **The inhibitory effects of isolated constituents from *Plantago major* subsp. *major* L. on collagenase, elastase and hyaluronidase enzymes: Potential wound healer**
GENÇ Y., Dereli F. T. G. , SARAÇOĞLU İ., AKKOL E.
SAUDI PHARMACEUTICAL JOURNAL, vol.28, no.1, pp.101-106, 2020 (Journal Indexed in SCI)
- XXXII. **Roles of Medicinal Plants and Constituents in Gynecological Cancer Therapy: Current Literature and Future Directions**
AKKOL E., Dereli F. T. G. , Sobarzo-Sanchez E., Khan H.
CURRENT TOPICS IN MEDICINAL CHEMISTRY, vol.20, no.20, pp.1772-1790, 2020 (Journal Indexed in SCI)
- XXXIII. **Inhibitory activity of *Scorzonera latifolia* and its components on enzymes connected with healing process**
AKKOL E., Smejkal K., Kurtul E., İlhan M., Guragac F. T. , Iscan G. S. , ACIKARA Ö. B. , Cvacka J., Budesinsky M.
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- XXXIV. **Inhibitory activity of *Podospermum canum* and its active components on collagenase, elastase and hyaluronidase enzymes**
ACIKARA Ö. B. , İlhan M., Kurtul E., Smejkal K., AKKOL E.
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- XXXV. **Bioactivity-guided isolation of flavonoids from *Urtica dioica* L. and their effect on endometriosis rat model**
İlhan M., Ali Z., Khan I. A. , TAŞTAN H., AKKOL E.
JOURNAL OF ETHNOPHARMACOLOGY, vol.243, 2019 (Journal Indexed in SCI)
- XXXVI. **Promising activity of *Anthemis austriaca* Jacq. on the endometriosis rat model and isolation of its active constituents**
Ilhan M., Ali Z., Khan I. A. , TAŞTAN H., AKKOL E.
SAUDI PHARMACEUTICAL JOURNAL, vol.27, no.6, pp.889-899, 2019 (Journal Indexed in SCI)
- XXXVII. **A new isoflavane-4-ol derivative from *Melilotus officinalis* (L.) Pall.**
Ilhan M., Ali Z., Khan I. A. , AKKOL E.

- NATURAL PRODUCT RESEARCH, vol.33, no.13, pp.1856-1861, 2019 (Journal Indexed in SCI)
- XXXVIII. **Assessment of Antidepressant Effect of the Aerial Parts of *Micromeria myrtifolia* Boiss. & Hohen on Mice**
AKKOL E., Dereli F. T. G. , İlhan M.
MOLECULES, vol.24, no.10, 2019 (Journal Indexed in SCI)
- XXXIX. **The scolicidal activity of the essential oil obtained from the needles of *Pinus nigra* Arn. subsp. *pallasiana* (Lamb.) Holmboe on hydatid cyst**
KOZAN E., İlhan M., TÜMEN İ., AKKOL E.
JOURNAL OF ETHNOPHARMACOLOGY, vol.235, pp.243-247, 2019 (Journal Indexed in SCI)
- XL. **Wound-Healing Species of *Euphorbia* L.**
ÖZBİLGİN S., AKKOL E., SÜNTAR İ., TEKİN M., İscan G. S.
RECORDS OF NATURAL PRODUCTS, vol.13, no.2, pp.104-113, 2019 (Journal Indexed in SCI)
- XLI. **The evaluation of sterile solutions of Ilwensisaponin A and C from *Verbascum pterocalycinum* var. *mutense* Hub.-Mor. on antiviral, antinociceptive and anti-inflammatory activities**
DİKER N. Y. , KAHRAMAN Ç., AKKOL E., KARAOĞLU M. T. , ÇOMOĞLU T., AKDEMİR Z. Ş. , ÇANKAYA İ. İ.
SAUDI PHARMACEUTICAL JOURNAL, vol.27, no.3, pp.432-436, 2019 (Journal Indexed in SCI)
- XLII. **Effective eradication of pinworms (*Syphacia obvelata* and *Aspicularis tetraptera*) with *Polygonum cognatum* Meissn**
Dereli F. T. G. , İlhan M., KOZAN E., AKKOL E.
EXPERIMENTAL PARASITOLOGY, vol.196, pp.63-67, 2019 (Journal Indexed in SCI)
- XLIII. **Anti-inflammatory and antinociceptive features of *Bryonia alba* L.: As a possible alternative in treating rheumatism**
İlhan M., Dereli F. T. A. , Tulmen I., AKKOL E.
OPEN CHEMISTRY, vol.17, no.1, pp.23-30, 2019 (Journal Indexed in SCI)
- XLIV. **EFFECTS OF MENTHA SPICATA L. EXTRACTS ON HORMONAL REGULATION OF ENERGY METABOLISM IN RATS WITH HYPERCHOLESTEROLEMIA AND HYPERLIPIDEMIA**
ÖZDEMİR A., KÜÇÜKKURT İ., KELEŞ H., Sozibilir N. B. , DEMİREL H. H. , AKKOL E.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.28, no.10, pp.7310-7318, 2019 (Journal Indexed in SCI)
- XLV. **New Drug Discovery from Medicinal Plants and Phytoconstituents for Depressive Disorders**
Dereli F. T. G. , İlhan M., AKKOL E.
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- XLVI. **Efficacy of *Pyrus elaeagnifolia* subsp. *elaegnifolia* in acetic acid-induced colitis model**
İlhan M., AKKOL E., TAŞTAN H., Dereli F. T. G. , Tumen I.
OPEN CHEMISTRY, vol.17, no.1, pp.13-22, 2019 (Journal Indexed in SCI)
- XLVII. **Novel Drug Targets with Traditional Herbal Medicines for Overcoming Endometriosis**
İlhan M., Dereli F. T. G. , AKKOL E.
CURRENT DRUG DELIVERY, vol.16, no.5, pp.386-399, 2019 (Journal Indexed in SCI)
- XLVIII. **Evaluation of the chemopreventive effects of Ankaferd Bloodstopper in 7,12-dimethylbenz[a]anthracene-induced oral epithelial dysplasia**
Ozle M., ÇANKAL D. A. , İlhan M., KELEŞ H., AKKOL E.
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- XLIX. **Discovery of new antidepressant agents: In vivo study on *Anthemis wiedemanniana* Fisch & Mey**
Derelia F. T. G. , İlhan M., AKKOL E.
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- L. ***Polygala anatolica* Boiss. et Heldr.: Is A Potential Remedy for Inflammation and Pain?**
AKKOL E., İlhan M., SÜNTAR İ., İpek A.
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- LI. **In vivo wound-healing activity of *Euphorbia characias* subsp *wulfenii*: Isolation and quantification of quercetin glycosides as bioactive compounds**
ÖZBİLGİN S., Aclkara O. B. , AKKOL E., SÜNTAR İ., KELEŞ H., İscan G. S.

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- LII. **In vivo activity assessment of some Tanacetum species used as traditional wound healer along with identification of the phytochemical profile by a new validated HPLC method**
ÖZBİLGİN S., AKKOL E., ÖZ B. E. , İlhan M., Saltan G., ACIKARA Ö. B. , TEKİN M., KELEŞ H., SÜNTAR İ.
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- LIII. **Isoflavonoids as wound healing agents from Ononidis Radix**
ÖZ B. E. , Iscan G. S. , AKKOL E., SÜNTAR İ., ACIKARA Ö. B.
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- LIV. **Research on the antioxidant, wound healing, and anti-inflammatory activities and the phytochemical composition of maritime pine (Pinus pinaster Ait)**
TÜMEN İ., AKKOL E., TAŞTAN H., SÜNTAR İ., KURTÇA M.
JOURNAL OF ETHNOPHARMACOLOGY, vol.211, pp.235-246, 2018 (Journal Indexed in SCI)
- LV. **Wound healing and anti-inflammatory activity of some Ononis taxons**
ÖZ B. E. , Iscan G. S. , AKKOL E., SÜNTAR İ., KELEŞ H., ACIKARA Ö. B.
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- LVI. **INSIGHTS INTO RESEARCH ON THE ANTI-INFLAMMATORY AND ANTINOCICEPTIVE ACTIVITIES OF SCANDIX IBERICA BIEB**
Guragac F. T. , İlhan M., TÜMEN İ., AKKOL E.
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- LVII. **EVALUATION OF THE WOUND HEALING AND ANTI-INFLAMMATORY ACTIVITIES AND PHYTOCHEMICAL ANALYSIS OF MYRTUS COMMUNIS L.**
TÜMEN İ., AKKOL E., SÜNTAR İ., Erbey G., KURTÇA M., KELEŞ H., Reunanen M., Pranovich A.
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- LVIII. **A mixture of St. John's wort and sea buckthorn oils regresses endometriotic implants and affects the levels of inflammatory mediators in peritoneal fluid of the rat: A surgically induced endometriosis model**
İlhan M., SÜNTAR İ., DEMİREL M. A. , YEŞİLADA E., KELEŞ H., AKKOL E.
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- LIX. **Viburnum opulus L.: A remedy for the. treatment of endometriosis demonstrated by rat model of surgically-induced endometriosis**
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- LX. **Anticholinesterase, antioxidant, analgesic and anti-inflammatory activity assessment of Xeranthemum annuum L. and isolation of two cyanogenic compounds**
Erdoğan Orhan İ., Gulyurdu F., Akkol E., Şenol Deniz F. S. , Anul S. A. , Tatlı I. I.
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- LXI. **Phytochemical and biological studies on Alnus glutinosa subsp glutinosa, A. orientalis var. orientalis and A. orientalis var. pubescens leaves**
Altınyay C., SÜNTAR İ., Altun L., KELEŞ H., AKKOL E.
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- LXII. **Potential anthelmintic activity of Pelargonium endlicherianum Fenzl.**
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- LXIII. **Antimicrobial effect of the extracts from Hypericum perforatum against oral bacteria and biofilm formation**
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- LXIV. **Determination of the regulatory properties of Yucca schidigera extracts on the biochemical parameters and plasma hormone levels associated with obesity**
KÜÇÜKKURT İ., AKKOL E., KARABAĞ ÇOBAN F., İNCE S., SÜNTAR İ., ERYAVUZ A., Sozibilir N. B.
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- LXV. **Activity of *Corylus avellana* seed oil in letrozole-induced polycystic ovary syndrome model in rats**
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- LXVI. **An Update on Plant Originated Remedies for the Medication of Hyperlipidemia**
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