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Education Information

Doctorate, Johann Wolfgang Goethe-Universität Frankfurt am Main, Fachbereich Biochemie, Pharmazie Und Lebensmittelchemie, Institut Für Pharmazeutische Biologie, Germany 1986 - 1991

Postgraduate, Hacettepe University, Eczacılık Fakültesi, Farmakognozi, Turkey 1982 - 1985

Undergraduate, Ankara University, Eczacılık Fakültesi, Turkey 1975 - 1979

Foreign Languages

German, C1 Advanced

English, C1 Advanced

Research Areas

Health Sciences, Pharmacology and Therapeutics, Professional Sciences, Pharmacognosy

Academic Titles / Tasks

Professor, Hacettepe University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 2002 - Continues

Associate Professor, Hacettepe University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 1994 - 2002

Assistant Professor, Hacettepe University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 1992 - 1994

Academic and Administrative Experience

Hacettepe Üniversitesi, Eczacılık Fakültesi, 2010 - 2013

Hacettepe Üniversitesi, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 2003 - 2009

Advising Theses

DEMİREZER L. Ö., Isolation of Potential Drug Candidate Molecules from *Rumex acetosella* L. and in silico, in vitro

Researches on Those Molecules, Doctorate, N.ÖZENVER(Student), 2018

DEMİREZER L. Ö., Rumex crispus L. ekstraları ve sekonder metabolitlerinin mmps inhibitör aktiviteleri, antioksidan kapasiteleri ve SPF değerlerinin araştırılarak, ciltteki kollajen dokuyu onarıcı fitokozmetik ürün geliştirilmesi, Doctorate, M.UZUN(Student), 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Structure-activity relationship of anticancer drug candidate quinones**
ÖZENVER N., Sönmez N., Yüzbaşıođlu Baran M., UZ A., DEMİREZER L. Ö.
Turkish Journal of Chemistry, vol.48, no.1, pp.152-165, 2024 (SCI-Expanded)
- II. **Metabolomics analysis insight into medicinal plant science**
Waris M., Kocak E., Gonulalan E. M., DEMİREZER L. Ö., KIR S., NEMUTLU E.
TRAC-TRENDS IN ANALYTICAL CHEMISTRY, vol.157, 2022 (SCI-Expanded)
- III. **Assessment of the alpha-glucosidase and alpha-amylase inhibitory potential of Paliurus spina-christi Mill. and its terpenic compounds**
YUCA H., ÖZBEK H., DEMİREZER L. Ö., GÜVENALP Z.
MEDICINAL CHEMISTRY RESEARCH, vol.31, no.8, pp.1393-1399, 2022 (SCI-Expanded)
- IV. **alpha-Glucosidase and alpha-amylase inhibitory potential of main compounds and drug candidates from Elaeagnus rhamnoides (L.) A. Nelson**
YUCA H., ÖZBEK H., DEMİREZER L. Ö., SEVİNDİK H. G., KAZAZ C., GÜVENALP Z.
CHEMICAL PAPERS, vol.76, no.2, pp.913-922, 2022 (SCI-Expanded)
- V. **trans-Tiliroside: A potent alpha-glucosidase inhibitor from the leaves of Elaeagnus angustifolia L**
YUCA H., ÖZBEK H., DEMİREZER L. Ö., KASİL H. G., GÜVENALP Z.
PHYTOCHEMISTRY, vol.188, 2021 (SCI-Expanded)
- VI. **Development of a new validated HPLC method for the chemical specification of Rosa damascena petals**
AĞAR O. T., DEMİREZER L. Ö.
JOURNAL OF LIQUID CHROMATOGRAPHY & RELATED TECHNOLOGIES, vol.44, no.5-6, pp.320-328, 2021 (SCI-Expanded)
- VII. **In vitro biological activity of Salvia fruticosa Mill. infusion against amyloid beta-peptide-induced toxicity and inhibition of GSK-3 beta, CK-1 delta, and BACE-1 enzymes relevant to Alzheimer's disease**
GÜRBÜZ P., Dokumaci A. H., GÜNDÜZ M. G., Perez C., GÖGER F., Paksoy M. Y., Yerer M. B., DEMİREZER L. Ö.
SAUDI PHARMACEUTICAL JOURNAL, vol.29, no.3, pp.236-243, 2021 (SCI-Expanded)
- VIII. **Matrix metalloproteinase inhibitor and sunscreen effective compounds from Rumex crispus L.: isolation, identification, bioactivity and molecular docking study**
UZUN M., GÜVENALP Z., KAZAZ C., DEMİREZER L. Ö.
PHYTOCHEMICAL ANALYSIS, vol.31, no.6, pp.818-834, 2020 (SCI-Expanded)
- IX. **Inhibitory potential on key enzymes relevant to type II diabetes mellitus and antioxidant properties of the various extracts and phytochemical constituents from Rumex acetosella L**
ÖZENVER N., GÜVENALP Z., Kuruuzum-Uz A., DEMİREZER L. Ö.
JOURNAL OF FOOD BIOCHEMISTRY, vol.44, no.10, 2020 (SCI-Expanded)
- X. **Metabolomics and proteomics profiles of some medicinal plants and correlation with BDNF activity**
Gonulalan E. M., NEMUTLU E., Bayazeid O., KOÇAK E., Yalcin F. N., DEMİREZER L. Ö.
PHYTOMEDICINE, vol.74, 2020 (SCI-Expanded)
- XI. **Cytotoxic naphthoquinones from Arnebia densiflora (Nordm.) Ledeb and determining new apoptosis inducers**
Baran M. Y., GÜVENALP Z., SARAÇOĞLU İ., KAZAZ C., SALİH B., DEMİREZER L. Ö., Kuruuzum-Uz A.
NATURAL PRODUCT RESEARCH, vol.34, no.12, pp.1669-1677, 2020 (SCI-Expanded)
- XII. **A new perspective on evaluation of medicinal plant biological activities: The correlation between**

- phytomics and matrix metalloproteinases activities of some medicinal plants**
Gonulalan E., NEMUTLU E., DEMİREZER L. Ö.
SAUDI PHARMACEUTICAL JOURNAL, vol.27, no.3, pp.446-452, 2019 (SCI-Expanded)
- XIII. **The roles of valerenic acid on BDNF expression in the SH-SY5Y cell**
Gonulalan E., Bayazeid O., YALÇIN F. N., DEMİREZER L. Ö.
SAUDI PHARMACEUTICAL JOURNAL, vol.26, no.7, pp.960-964, 2018 (SCI-Expanded)
- XIV. **Secondary metabolites from Peucedanum chryseum (Boiss. Heldr.) D.F.Chamb**
GÜRBÜZ P., YÜZBAŞIOĞLU BARAN M., DEMİREZER L. Ö., GÜVENALP Z., UZ A.
Revista Brasileira De Farmacognosia-Brazilian Journal Of Pharmacognosy, vol.28, pp.228-230, 2018 (SCI-Expanded)
- XV. **Aloe-emodin as drug candidate for cancer therapy**
ÖZENVER N., SAEED M., DEMİREZER L. Ö., EFFERTH T.
Oncotarget, vol.9, no.25, pp.17770-17796, 2018 (SCI-Expanded)
- XVI. **Phenylacylated-flavonoids from Peucedanum chryseum**
GÜRBÜZ P., BARAN M. Y., DEMİREZER L. Ö., GÜVENALP Z., Kuruuzum-Uz A.
Brazilian Journal of Pharmacognosy, vol.28, no.2, pp.228-230, 2018 (SCI-Expanded)
- XVII. **Miscellaneous phenolic compounds from Peucedanum chryseum (Boiss. Heldr.) Chamberlain.**
GÜRBÜZ P., YÜZBAŞIOĞLU M., DEMİREZER L. Ö., GÜVENALP Z., UZ A.
Planta Medica, 2017 (SCI-Expanded)
- XVIII. **Cholinesterase Inhibition and Molecular Docking Studies of Sesquiterpene Coumarin Ethers from Heptaptera cilicica**
GÜVENALP Z., ÖZBEK H., Yerdelen K. O., Yilmaz G., KAZAZ C., DEMİREZER L. Ö.
RECORDS OF NATURAL PRODUCTS, vol.11, no.5, pp.462-467, 2017 (SCI-Expanded)
- XIX. **Chemical Composition, Antioxidant and Anticholinesterase Activities of the Essential oil of Origanum rotundifolium Boiss. from Turkey**
ÖZBEK H., GÜVENALP Z., Ozek T., Sevindik H. G., YUCA H., Yerdelen K. O., DEMİREZER L. Ö.
RECORDS OF NATURAL PRODUCTS, vol.11, no.5, pp.485-490, 2017 (SCI-Expanded)
- XX. **beta-Hydroxydihydrochalcone and flavonoid glycosides along with triterpene saponin and sesquiterpene from the herbs of Pimpinella rhodantha Boiss**
ÖZBEK H., GÜVENALP Z., KURUUZUM-UZ A., KAZAZ C., DEMİREZER L. Ö.
NATURAL PRODUCT RESEARCH, vol.30, no.7, pp.750-754, 2016 (SCI-Expanded)
- XXI. **Chemical Composition, Antioxidant Capacity, Acetyl- and Butyrylcholinesterase Inhibitory Activities of the Essential Oil of Thymus haussknechtii Velen.**
Sevindik H. G., Ozek T., Yerdelen K. O., ONAL M., ÖZBEK H., GÜVENALP Z., DEMİREZER L. Ö.
RECORDS OF NATURAL PRODUCTS, vol.10, no.4, pp.503-507, 2016 (SCI-Expanded)
- XXII. **Phenylpropanoids, Sesquiterpenoids and Flavonoids from Pimpinella tragiium Vill. subsp lithophila (Schischkin) Tutin**
ÖZBEK H., GÜVENALP Z., KURUUZUM-UZ A., KAZAZ C., DEMİREZER L. Ö.
RECORDS OF NATURAL PRODUCTS, vol.10, no.2, pp.207-213, 2016 (SCI-Expanded)
- XXIII. **Hydroxydihydrochalcone and flavonoid glycosides along with triterpene saponin and sesquiterpene from the herbs of Pimpinella rhodantha Boiss**
ÖZBEK H., GÜVENALP Z., UZ A., DEMİREZER L. Ö., KAZAZ C.
Natural Product Research, vol.30, pp.750-754, 2016 (SCI-Expanded)
- XXIV. **Phenylpropanoids sesquiterpenoids and flavonoids from Pimpinella tragiium Vill subsp lithophila Schischkin Tutin**
ÖZBEK H., GÜVENALP Z., UZ A., DEMİREZER L. Ö., KAZAZ C.
Records of Natural Products, vol.10, pp.207-213, 2016 (SCI-Expanded)
- XXV. **The discovery of potential anticholinesterase compounds from Achillea millefolium L.**
Sevindik H. G., Guvenalp Z., Yerdelen K. O., YUCA H., DEMİREZER L. Ö.
INDUSTRIAL CROPS AND PRODUCTS, vol.76, pp.873-879, 2015 (SCI-Expanded)
- XXVI. **Research on drug candidate anticholinesterase molecules from Achillea biebersteinii Afan. using by**

molecular docking and in vitro methods

Sevindik H. G., GÜVENALP Z., Yerdelen K. O., YUCA H., DEMİREZER L. Ö.

MEDICINAL CHEMISTRY RESEARCH, vol.24, no.11, pp.3794-3802, 2015 (SCI-Expanded)

- XXVII. **Isolation of a flavonoid, apigenin 7-O-glucoside, from *Mentha longifolia* (L.) Hudson subspecies *longifolia* and its genotoxic potency**
GÜLLÜCE M., Orhan F., Yanmis D., Arasoglu T., Guvenalp Z., DEMİREZER L. Ö.
TOXICOLOGY AND INDUSTRIAL HEALTH, vol.31, no.9, pp.831-840, 2015 (SCI-Expanded)
- XXVIII. **Anticancer potential of natural compounds; anthraquinones**
DEMİREZER L. Ö.
ANTI-CANCER DRUGS, vol.26, 2015 (SCI-Expanded)
- XXIX. **Cytotoxic Compounds from Endemic *Arnebia purpurea***
Yuzbasioglu M., Kuruuzum-Uz A., GÜVENALP Z., SIMON A., TOTH G., Harput U. S., KAZAZ C., Bilgili B., Duman H., SARAÇOĞLU İ., et al.
NATURAL PRODUCT COMMUNICATIONS, vol.10, no.4, pp.595-596, 2015 (SCI-Expanded)
- XXX. **Trinorguaian and germacradiene type sesquiterpenes along with flavonoids from the herbs of *Pimpinella cappadocica* Boiss. & Bal.**
ÖZBEK H., GÜVENALP Z., Kuruuzum-Uz A., KAZAZ C., DEMİREZER L. Ö.
PHYTOCHEMISTRY LETTERS, vol.11, pp.74-79, 2015 (SCI-Expanded)
- XXXI. **Molecular docking and ex vivo and in vitro anticholinesterase activity studies of *Salvia* sp and highlighted rosmarinic acid**
DEMİREZER L. Ö., GURBUZ P., KELİCEN UĞUR E. P., BODUR M., ÖZENVER N., UZ A., GÜVENALP Z.
TURKISH JOURNAL OF MEDICAL SCIENCES, vol.45, no.5, pp.1141-1148, 2015 (SCI-Expanded)
- XXXII. **The evaluation of wound healing potential of acetyl alkannin isolated from *Arnebia purpurea***
BALI Y. Y., YILANCI S., YÜZBAŞIOĞLU M., ÜNLÜ R. E., ORHAN A. E., GÜVENALP Z., DEMİREZER L. Ö., UZ A.
PLANTA MEDICA, vol.81, pp.14, 2015 (SCI-Expanded)
- XXXIII. **Cytotoxic and apoptotic effect of Alkannins from *Arnebia purpurea* roots**
YÜZBAŞIOĞLU M., SARAÇOĞLU İ., GÜVENALP Z., HARPUT Ü. Ş., DEMİREZER L. Ö., UZ A.
Anti-Cancer Drugs, vol.26, pp.30, 2015 (SCI-Expanded)
- XXXIV. **Isolation and Structure Elucidation of Uncommon Secondary Metabolites from *Cistus salviifolius* L.**
GURBUZ P., DEMİREZER L. Ö., GÜVENALP Z., KURUUZUM-UZ A., KAZAZ C.
RECORDS OF NATURAL PRODUCTS, vol.9, no.2, pp.175-183, 2015 (SCI-Expanded)
- XXXV. **Cytotoxic effects of some *Arnebia* species growing in Türkiye against Swiss 3T3 cell line**
YÜZBAŞIOĞLU M., ÜSTÜN ALKAN F., ANLAŞ F. C., KOÇYİĞİT F., DEMİREZER L. Ö., UZ A.
Anti-Cancer Drugs, vol.26, pp.30, 2015 (SCI-Expanded)
- XXXVI. **The evaluation of wound healing potential of rosmarinic acid isolated from *Arnebia purpurea***
YILANCI S., BALI Y., YÜZBAŞIOĞLU M., ÜNLÜ R. E., SIMON A., TOTH G., DEMİREZER L. Ö., UZ A.
PLANTA MEDICA, vol.81, pp.135, 2015 (SCI-Expanded)
- XXXVII. **Adulteration Determining of Pharmaceutical Forms of *Ginkgo biloba* Extract from Different International Manufacturers**
DEMİREZER L. Ö., BÜYÜKKAYA A., UÇAKTÜRK E., UZ A., GÜVENALP Z., PALASKA E.
Rec. Nat. Prod, vol.8, pp.394-400, 2014 (SCI-Expanded)
- XXXVIII. **Adulteration Determining of Pharmaceutical Forms of *Ginkgo biloba* Extracts from Different International Manufacturers**
DEMİREZER L. Ö., Buyukkaya A., UÇAKTÜRK E., Kuruuzum-Uz A., GÜVENALP Z., PALASKA E.
RECORDS OF NATURAL PRODUCTS, vol.8, no.4, pp.394-400, 2014 (SCI-Expanded)
- XXXIX. **Phenolic compounds from the roots of *Anchusa azurea* var. *azurea* *Anchusa azurea* var. *azurea*'xvm köklerinden elde edilen fenolik bileşikler**
Kuruüzüm-Uz A., GÜVENALP Z., KAZAZ C., DEMİREZER L. Ö.
Turkish Journal of Pharmaceutical Sciences, vol.10, no.2, pp.177-184, 2013 (SCI-Expanded)
- XL. **In silico docking researches of some human proteins with anthranoids**
DEMİREZER L. Ö., SEZERMAN O. U., ÖZENVER N., UZUN M., YÜKSELEN O., UZ A.

Planta Medica, vol.79, pp.1175, 2013 (SCI-Expanded)

- XLII. **Chemical constituents of *Lonicera etrusca***
GÜVENALP Z., ÖZBEK H., KURUUZUM-UZ A., KAZAZ C., DEMİREZER L. Ö.
CHEMISTRY OF NATURAL COMPOUNDS, vol.48, no.4, pp.693-695, 2012 (SCI-Expanded)
- XLIII. **Investigation on Anti-Inflammatory and Antiulcer Activities of *Anchusa azurea* Extracts and their Major Constituent Rosmarinic Acid**
KURUUZUM-UZ A., Suleyman H., ÇADIRCI E., GÜVENALP Z., DEMİREZER L. Ö.
ZEITSCHRIFT FÜR NATURFORSCHUNG SECTION C-A JOURNAL OF BIOSCIENCES, vol.67, pp.360-366, 2012 (SCI-Expanded)
- XLIV. **Labdane-type diterpenes from *Cistus creticus***
DEMİREZER L. Ö., GÜVENALP Z., KURUUZUM-UZ A., KAZAZ C.
CHEMISTRY OF NATURAL COMPOUNDS, vol.48, no.2, pp.337-338, 2012 (SCI-Expanded)
- XLV. **Cytotoxic effects of *Cistus salviifolius* on HepG2 cells *Cistus salviifolius* un HepG2 hücreleri üzerindeki sitotoksik etkileri**
GÜRBÜZ P., AYCAN M. B., KOŞAR M., GÜVENALP Z., UZ A., DEMİREZER L. Ö.
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- XLVI. **Further secondary metabolites from *Pimpinella kotschyana***
DEMİREZER L. Ö., UZ A., GÜVENALP Z., SIMON A., PATOCS T.
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- XLVII. **Anti Inflammatory Effects of The Different Extracts From Three *Salvia* Species**
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Turkish Journal of Biology, pp.59-64, 2012 (SCI-Expanded)
- XLVIII. **Anti-inflammatory effects of different extracts from three *Salvia* species**
ÇADIRCI E., Suleyman H., Gurbuz P., Uz A. K., Guvenalp Z., DEMİREZER L. Ö.
TURKISH JOURNAL OF BIOLOGY, vol.36, no.1, pp.59-64, 2012 (SCI-Expanded)
- XLIX. **In vitro effects of rosmarinic acid on glutathione reductase and glucose 6-phosphate dehydrogenase**
TANDOGAN B., KURUUZUM-UZ A., SENGEZER C., GÜVENALP Z., DEMİREZER L. Ö., ULUSU N. N.
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- L. **HPLC Fingerprinting of Sennosides in Laxative Drugs with Isolation of Standard Substances from Some *Senna* Leaves**
DEMİREZER L. Ö., KARAHAN N., UÇAKTÜRK E., UZ A., GÜVENALP Z., KAZAZ C.
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- LII. **Free Radical Scavenging Activities of Flavonoids from *Cistus salviifolius* L**
GÜRBÜZ P., UZ A., GÜVENALP Z., KAZAZ C., DEMİREZER L. Ö.
PLANTA MEDICA, vol.77, pp.1385, 2011 (SCI-Expanded)
- LIII. **HPLC Fingerprinting of Sennosides in Laxative Drugs with Isolation of Standard Substances from Some *Senna* Leaves**
DEMİREZER L. Ö., KARAHAN N., UÇAKTÜRK E., KURUUZUM-UZ A., GÜVENALP Z., KAZAZ C.
RECORDS OF NATURAL PRODUCTS, vol.5, no.4, pp.261-270, 2011 (SCI-Expanded)
- LIV. **Four new triterpenes from *Anchusa azurea* var. *azurea***
KURUUZUM-UZ A., GÜVENALP Z., KAZAZ C., SALİH B., DEMİREZER L. Ö.
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- LVI. **Four New Triterpenes from *Anchusa azurea* var. *azurea***
UZ A., GÜVENALP Z., KAZAZ C., SALİH B., DEMİREZER L. Ö.
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- LVII. **Flavonoids from *Pimpinella kotschyana***
UZ A., GÜVENALP Z., YÜZBAŞIOĞLU M., ÖZBEK H., KAZAZ C., DEMİREZER L. Ö.
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- LVIII. **FLAVONOID QUANTIFICATION AND ANTIOXIDANT ACTIVITIES OF SOME PIMPINELLA SPECIES**
GÜVENALP Z., ÖZBEK H., Yuzbasioglu M., KURUUZUM-UZ A., DEMİREZER L. Ö.
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- LVI. **Secondary metabolites from *Nepeta heliotropifolia***
Guvenalp Z., ÖZBEK H., KURUUZUM-UZ A., KAZAZ C., DEMİREZER L. Ö.
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- LVII. **Phytocosmeceuticals**
Demirezer L. Ö.
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- LVIII. **Labdane type diterpenes from *Cistus creticus* L**
GÜVENALP Z., DEMİREZER L. Ö., UZ A., KAZAZ C.
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- LIX. **Sedative effect of *Centranthus longiflorus* ssp *longiflorus* in rats and the influence of adrenalectomy on its effect**
SULEYMAN H., Guvenalp Z., KIZILKAYA M., Demirezer L. O.
YAKUGAKU ZASSHI-JOURNAL OF THE PHARMACEUTICAL SOCIETY OF JAPAN, vol.127, no.8, pp.1263-1265, 2007 (SCI-Expanded)
- LX. **Phytochemical investigation on *Galium humifusum* growing in Turkey**
Guvenalp Z., KAZAZ C., KAYA Y., Demirezer L. O.
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- LXI. **Bioguided fractionation of *Polygonum alpinum* and isolation and structure elucidation of active compounds**
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- LXII. **Chemical constituents of *Galium tortumense***
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- LXIII. **Bioguided fractionation of methanolic extract from *Polygonum alpinum* and Isolation and structure elucidation of active compounds**
DEMİREZER L. Ö., UZ A., GÜVENALP Z., SÜLEYMAN H.
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- LXIV. **Iridoid, flavonoid, and phenylethanoid glycosides from *Wiedemannia orientalis***
Guvenalp Z., ÖZBEK H., UNSALAR T., KAZAZ C., Demirezer L. O.
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- LXV. **Iridoids, flavonoids and monoterpene glycosides from *Galium verum* subsp *verum***
Demirezer L. Ö., GURBUZ F., Guvenalp Z., STROCH K., ZEECK A.
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- LXVI. **Flavonol glycosides from *Asperula arvensis* L.**
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- LXVII. **Phytochemical and antimicrobial investigation of *Echium vulgare* growing in Turkey**
KURUUZUM-UZ A., GUVENALP Z., STROCH K., Demirezer L. Ö., ZEECK A.
BIOCHEMICAL SYSTEMATICS AND ECOLOGY, vol.32, no.9, pp.833-836, 2004 (SCI-Expanded)
- LXVIII. **Effects of *Rumex patientia* root extract on indomethacine and ethanol induced gastric damage in rats**
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- LXIX. **Effects of *Rumex patientia* L. extract on some drug-metabolizing enzymes in rat liver**
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- LXX. **Effects of *Rumex patientia* Root Extract on Indomethacine and Ethanol Induced Gastric Damage in Rats**
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- LXXI. **Glucosides from *Vitex agnus-castus***

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Non Academic Experience

AVRUPA FARMAKOPESİ

SAĞLIK BAKANLIĞI

BİLİM SANAYİ VE TEKNOLOJİ BAKANLIĞI

Farmakognozi ve Fitoterapi Derneği

SAĞLIK BAKANLIĞI

YÜKSEKÖĞRETİM KURULU BAŞKANLIĞI

Eczacılık Fakültesi Dekanları

Pfizer

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