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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 Üniversitesi, Eczacılık Fakültesi, Farmakognozi, Turkey 1982 - 1985

Undergraduate, Ankara Üniversitesi, 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 Üniversitesi, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 2002 - Continues

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

Assistant Professor, Hacettepe Üniversitesi, 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. ekstraktları ve sekonder metabolitlerinin mmps inhibitör aktiviteleri, antioksidan kapasiteleri ve SPF değerlerinin araştırılarak, ciltteki kollajen dokuyu onarıcı fitokozmetik ürün geliştirilmesi, Doctorate, M.UZUN(Student), 2017

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

- I. **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, 2021 (Journal Indexed in SCI)
- II. **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 (Journal Indexed in SCI)
- III. **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, 2021 (Journal Indexed in SCI)
- IV. **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 (Journal Indexed in SCI)
- V. **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 (Journal Indexed in SCI)
- VI. **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, 2020 (Journal Indexed in SCI)
- VII. **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 (Journal Indexed in SCI)
- VIII. **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 (Journal Indexed in SCI)
- IX. **A new perspective on evaluation of medicinal plant biological activities: The correlation between phytonics 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 (Journal Indexed in SCI)
- X. **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 (Journal Indexed in SCI)
- XI. **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 (Journal Indexed in SCI Expanded)
- XII. **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 (Journal Indexed in SCI Expanded)
- XIII. **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 (Journal Indexed in SCI)
- XIV. **Miscellaneous phenolic compounds from *Peucedanum chryseum* (Boiss. Heldr.) Chamberlain.**
GÜRBÜZ P., YÜZBAŞIOĞLU M., DEMİREZER L. Ö. , GÜVENALP Z., UZ A.

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- XV. **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 (Journal Indexed in SCI)
- XVI. **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 (Journal Indexed in SCI)
- XVII. **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 (Journal Indexed in SCI)
- XVIII. **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 (Journal Indexed in SCI)
- XIX. **Phenylpropanoids, Sesquiterpenoids and Flavonoids from *Pimpinella tragium* 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 (Journal Indexed in SCI)
- XX. **Phenylpropanoids sesquiterpenoids and flavonoids from *Pimpinella tragium* 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 (Journal Indexed in SCI Expanded)
- XXI. **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.
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- XXII. **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 (Journal Indexed in SCI)
- XXIII. **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.
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- XXIV. **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 (Journal Indexed in SCI)
- XXV. **Anticancer potential of natural compounds; anthraquinones**
DEMİREZER L. Ö.
ANTI-CANCER DRUGS, vol.26, 2015 (Journal Indexed in SCI)
- XXVI. **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 (Journal Indexed in SCI)
- XXVII. **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 (Journal Indexed in SCI)

- XXVIII. **Cytotoxic effects of some *Arnebia* species growing in Türkiye against Swiss 3T3 cell line**
YÜZBAŞIOĞLU M., ÜSTÜN ALKAN F., ANLAŞ F. C. , KOÇYIĞİT F., DEMİREZER L. Ö. , UZ A.
Anti-Cancer Drugs, vol.26, pp.30, 2015 (Journal Indexed in SCI Expanded)
- XXIX. **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 (Journal Indexed in SCI)
- XXX. **Cytotoxic and apoptotic effect of Alkannins from *Arnebia purpurea* roots**
YÜZBAŞIOĞLU M., SARAÇOĞLU İ., GÜVENALP Z., HARPUT Ü. Ş. , DEMİREZER L. Ö. , UZ A.
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- XXXI. **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 (Journal Indexed in SSCI)
- XXXII. **Isolation and Structure Elucidation of Uncommon Secondary Metabolites from *Cistus salviifolius* L.**
GURBUZ P., DEMİREZER L. Ö. , GÜVENALP Z., KURUUZUM-UZ A., KAZAZ C.
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- XXXIII. **The evaluation of wound healing potential of rosmarinic acid isolated from *Arnebia purpurea***
YILANCI S., BALI Y., YÜZBAŞIOĞLU M., ÜNLÜ R. E. , SIMON A., TOTTH G., DEMİREZER L. Ö. , UZ A.
PLANTA MEDICA, vol.81, pp.135, 2015 (Journal Indexed in SSCI)
- XXXIV. **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 (Journal Indexed in SCI)
- XXXV. **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 (Journal Indexed in SCI Expanded)
- XXXVI. **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 (Journal Indexed in SCI Expanded)
- XXXVII. **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 (Journal Indexed in SCI Expanded)
- XXXVIII. **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 (Journal Indexed in SCI)
- XXXIX. **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.
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- XL. **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 (Journal Indexed in SCI)
- XLI. **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 (Journal Indexed in SCI)
- XLII. **Further secondary metabolites from *Pimpinella kotschyana***
DEMİREZER L. Ö. , UZ A., GÜVENALP Z., SIMON A., PATOCS T.
PLANTA MEDICA, vol.78, pp.1235, 2012 (Journal Indexed in SSCI)

- XLIII. **Anti Inflammatory Effects of The Different Extracts From Three Salvia Species**
ÇADIRCI E., SÜLEYMAN H., GÜRBÜZ P., UZ A., GÜVENALP Z., DEMİREZER L. Ö.
Turkish Journal of Biology, pp.59-64, 2012 (Journal Indexed in SCI Expanded)
- XLIV. **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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- XLV. **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 (Journal Indexed in SSCI)
- XLVI. **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.
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- XLVII. **HPLC Fingerprinting of Sennosides in Laxative Drugs with Isolation of Standard Substances from Some Senna Leaves**
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- XLVIII. **Four new triterpenes from Anchusa azurea var. azurea**
KURUUZUM-UZ A., GÜVENALP Z., KAZAZ C., SALİH B., DEMİREZER L. Ö.
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- XLIX. **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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- L. **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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- LI. **Four New Triterpenes from Anchusa azurea var azurea**
UZ A., GÜVENALP Z., KAZAZ C., SALİH B., DEMİREZER L. Ö.
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- LII. **Flavonoids from Pimpinella kotschyana**
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- LIII. **Secondary metabolites from Nepeta heliotropifolia**
Guvenalp Z., ÖZBEK H., KURUUZUM-UZ A., KAZAZ C., DEMİREZER L. Ö.
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- LIV. **Phytocosmeceuticals**
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- LV. **Labdane type diterpenes from Cistus creticus L**
GÜVENALP Z., DEMİREZER L. Ö., UZ A., KAZAZ C.
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- LVI. **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 (Journal Indexed in SCI)
- LVII. **Phytochemical investigation on Galium humifusum growing in Turkey**
Guvenalp Z., KAZAZ C., KAYA Y., Demirezer L. O.
BIOCHEMICAL SYSTEMATICS AND ECOLOGY, vol.34, no.12, pp.894-896, 2006 (Journal Indexed in SCI)
- LVIII. **Bioguided fractionation of Polygonum alpinum and isolation and structure elucidation of active compounds**

- Demirezer L. Ö., KURUUZUM-UZ A., GUVENALP Z., SULEYMAN H.
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- LIX. **Chemical constituents of Galium tortumense**
 Guvenalp Z., KILIC N., KAZAZ C., KAYA Y., Demirezer L. O.
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- LX. **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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- LXI. **Iridoid, flavonoid, and phenylethanoid glycosides from Wiedemannia orientalis**
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- LXII. **Bioguided fractionation of methanolic extract from Polygonum alpinum and Isolation and structure elucidation of active compounds**
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- LXIII. **Flavonol glycosides from Asperula arvensis L.**
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- LXIV. **Phytochemical and antimicrobial investigation of Echium vulgare growing in Turkey**
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- LXV. **Effects of Rumex patientia L. extract on some drug-metabolizing enzymes in rat liver**
 SILIG Y., CETINKAYA O., Demirezer L. Ö.
 INDIAN JOURNAL OF BIOCHEMISTRY & BIOPHYSICS, vol.41, no.1, pp.45-47, 2004 (Journal Indexed in SCI)
- LXVI. **Effects of Rumex patientia root extract on indomethacine and ethanol induced gastric damage in rats**
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- LXVII. **Effects of Rumex patientia Root Extract on Indomethacine and Ethanol Induced Gastric Damage in Rats**
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- LXVIII. **Glucosides from Vitex agnus-castus**
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- LXIX. **Glucosides from Vitex agnus castus**
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- LXX. **4'-deoxy iridoid glycosides from Centranthus longiflorus**
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- LXXI. **Sedative, anticonvulsant and behaviour modifying effects of Centranthus longiflorus ssp longiflorus: a study of comparison to diazepam**
 BUYUKOKUROGLU M., Demirezer L. Ö., GUVENALP Z.
 PHARMAZIE, vol.57, no.8, pp.559-561, 2002 (Journal Indexed in SCI)
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