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Eğitim Bilgileri

Doktora, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Kimya/Biyokimya, Türkiye 1997 - 2002

Yüksek Lisans, Gaziosman Paşa Üniversitesi, Fen Bilimleri Enstitüsü, Kimya/Organik Kimya, Türkiye 1994 - 1996

Lisans, Van Yüzüncü Yıl Üniversitesi, Fen Edebiyat Fakültesi, Kimya, Türkiye 1989 - 1993

Araştırma Alanları

Kimya, Biyokimya, Enzim Kinetiği, Temel Bilimler

Akademik Unvanlar / Görevler

Prof.Dr., Atatürk Üniversitesi, Fen Fakültesi, Kimya, 2012 - Devam Ediyor

Doç.Dr., Atatürk Üniversitesi, Fen Fakültesi, Kimya, 2006 - 2012

Öğretim Görevlisi Dr., Atatürk Üniversitesi, Fen Fakültesi, Kimya, 2002 - 2006

Araştırma Görevlisi Dr., Atatürk Üniversitesi, Fen Fakültesi, Kimya, 2002 - 2002

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Akademik İdari Deneyim

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Rektörlük Akademik Teşvik Değerlendirme Komisyonu Üyesi, Atatürk Üniversitesi, Fen Fakültesi, Kimya, 2020 - 2021

Verdiği Dersler

Kimya laboratuvarı, Lisans, 2023 - 2024

Kimya ve Laboratuvar Uygulamaları, Lisans, 2023 - 2024

Biyokimya, Lisans, 2022 - 2023

Kimya, Lisans, 2023 - 2024

ENZİM KİNETİĞİ, Yüksek Lisans, 2022 - 2023
KARBOHİDRAT METABOLİZMASI, Doktora, 2022 - 2023
ENZİM KİNETİĞİ, Yüksek Lisans, 2023 - 2024
Enzim Kimyası, Lisans, 2022 - 2023
KARBOHİDRAT METABOLİZMASI, Doktora, 2023 - 2024
Biyokimya, Lisans, 2022 - 2023
Uzmanlık Alan Dersi VII, Doktora, 2021 - 2022
Uzmanlık Alan Dersi II, Doktora, 2020 - 2021
Danışmanlık, Yüksek Lisans, 2020 - 2021
Biyokimya I, Lisans, 2021 - 2022
Uzmanlık Alan Dersi VIII, Doktora, 2020 - 2021
NÜKLEOTİD VE NÜKLEİK ASİT METABOLİZMASI, Doktora, 2020 - 2021
Uzmanlık Alan Dersi (Yabancı Uyruklu) IV, Yüksek Lisans, 2021 - 2022
Danışmanlık, Doktora, 2020 - 2021
Uzmanlık Alan Dersi VI, Doktora, 2020 - 2021
Danışmanlık, Doktora, 2020 - 2021
Danışmanlık, Yüksek Lisans, 2021 - 2022
Uzmanlık Alan Dersi VIII, Doktora, 2021 - 2022
Danışmanlık, Doktora, 2021 - 2022
Uzmanlık Alan Dersi II, Yüksek Lisans, 2021 - 2022
Danışmanlık, Yüksek Lisans, 2021 - 2022
VİTAMİN VE HORMONLARIN BİYOKİMYASAL ETKİ MEKANİZMALARI, Yüksek Lisans, 2020 - 2021
Biyokimya, Lisans, 2021 - 2022
Danışmanlık, Yüksek Lisans, 2020 - 2021
Uzmanlık Alan Dersi VII, Doktora, 2020 - 2021
Uzmanlık Alan Dersi (Yabancı Uyruklu) II, Yüksek Lisans, 2020 - 2021
Uzmanlık Alan Dersi IV, Yüksek Lisans, 2020 - 2021
Danışmanlık, Doktora, 2020 - 2021
Uzmanlık Alan Dersi I, Doktora, 2019 - 2020
Uzmanlık Alan Dersi (Yabancı Uyruklu) IV, Yüksek Lisans, 2020 - 2021
Uzmanlık Alan Dersi VIII, Doktora, 2020 - 2021
Danışmanlık, Doktora, 2020 - 2021
Uzmanlık Alan Dersi IV, Yüksek Lisans, 2019 - 2020
Uzmanlık Alan Dersi (Yabancı Uyruklu) IV, Yüksek Lisans, 2019 - 2020
Uzmanlık Alan Dersi IV, Yüksek Lisans, 2019 - 2020
Uzmanlık Alan Dersi III, Yüksek Lisans, 2020 - 2021
Uzmanlık Alan Dersi II, Yüksek Lisans, 2019 - 2020
Uzmanlık Alan Dersi VII, Doktora, 2020 - 2021
Enzyme Kinetics, Yüksek Lisans, 2020 - 2021
Uzmanlık Alan Dersi VIII, Doktora, 2019 - 2020

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Synthesis, characterization, crystal structure, molecular docking, and biological studies of Cu, Ni and Co metal complexes of pyrazole**
Mahmudov I., Ibrahimova B., Taslimi P., Sadeghian N., Karaoğlan Z., Taskin-Tok T., Abdullayev Y., Farzaliyev V., Sujayev A., Alwasel S. H., et al.
Journal of Molecular Structure, cilt.1309, 2024 (SCI-Expanded)
- II. **Synthesis, characterization, and computational study of novel carvacrol-based 2-aminothiol and sulfonic acid derivatives as metabolic enzyme inhibitors**

- Bytyqi-Damoni A., Uc E. M., BORA R. E., Bilgicli H. G., ALAGÖZ M. A., Zengin M., GÜLÇİN İ.
Journal of Molecular Structure, cilt.1303, 2024 (SCI-Expanded)
- III. **Structure-based inhibition of acetylcholinesterase and butyrylcholinesterase with 2-Aryl-6-carboxamide benzoxazole derivatives: synthesis, enzymatic assay, and <i>in silico</i> studies**
Kuzu B., Alagoz M. A., DEMİR Y., GÜLÇİN İ., BURMAOĞLU S., ALGÜL Ö.
MOLECULAR DIVERSITY, 2024 (SCI-Expanded)
- IV. <i>Alchemilla</i><i>pseudocartalinica</i> Juz: Phytochemical Screening by UPLC-MS/MS, Molecular Docking, Anti-oxidant, Anti-diabetic, Anti-glaucoma, and Anti-Alzheimer Effects
Gueven L., Ertuerk A., YILMAZ M. A., Alwasel S., Guelcin I.
RECORDS OF NATURAL PRODUCTS, cilt.18, ss.251-272, 2024 (SCI-Expanded)
- V. **Exploring <i>Astrodaucus orientalis</i> (L.) Drude: Phytochemical Analysis and its Biological Potential Against Alzheimer's and Diabetes**
YUCA H., AYDIN B., KARAKAYA S., Goger G., Bingol Z., Civas A., KOCA M., DEMİRCİ B., Sytar O., GÜLÇİN İ., et al.
CHEMISTRY & BIODIVERSITY, cilt.21, sa.2, 2024 (SCI-Expanded)
- VI. **Design, synthesis, and evaluation of novel bistrifluoromethyl-based hydrazones as dual inhibitors of acetylcholinesterase and carbonic anhydrase enzymes for Alzheimer's disease**
DİNCEL E. D., Basoglu-Unal F., Kuran E. D., Kayra T., Aydin N., Kanber E., GÜLÇİN İ., Ulusoy-Guzeldemirci N.
CHEMICAL BIOLOGY & DRUG DESIGN, cilt.103, sa.2, 2024 (SCI-Expanded)
- VII. **Comprehensive metabolic profiling of Thymus canoviridis (endemic) and Thymus pubescens var. pubescens using UPLC-MS/MS and evaluation of their antioxidant activities, enzyme inhibition abilities, and molecular docking studies**
Güven L., Can H., Ertürk A., Miloğlu F., Koca M., İnce F., Gülçin İ.
South African Journal of Botany, cilt.165, ss.478-493, 2024 (SCI-Expanded)
- VIII. **New palladium complexes with N-heterocyclic carbene and morpholine ligands: Synthesis, characterization, crystal structure, molecular docking, and biological activities**
Behçet A., Taslimi P., ŞEN YÜKSEL B., Taskin-Tok T., AKTAŞ A., GÖK Y., AYGÜN M., GÜLÇİN İ.
Journal of Biochemical and Molecular Toxicology, cilt.38, sa.1, 2024 (SCI-Expanded)
- IX. **Synthesis and in vitro carbonic anhydrase and acetylcholinesterase inhibitory activities of novel hydrazide-hydrazone compounds containing 1,2,4-triazole ring**
DİNCEL E. D., Kuran E. D., Onarer B., Fıstıkçı Y., GÜLÇİN İ., Ulusoy-Guzeldemirci N.
Phosphorus, Sulfur and Silicon and the Related Elements, 2024 (SCI-Expanded)
- X. **Novel hydrazones derived from anthranilic acid as potent cholinesterases and α-glycosidase inhibitors: Synthesis, characterization, and biological effects**
Tokali F. S., Taslimi P., Taskin-Tok T., Karakuş A., Sadeghian N., GÜLÇİN İ.
Journal of Biochemical and Molecular Toxicology, cilt.38, sa.1, 2024 (SCI-Expanded)
- XI. **Novel benzene sulfonamides with acetylcholinesterase and carbonic anhydrase inhibitory actions**
El Ati R., Öztaşkin N., Çağan A., Akincioğlu A., Demir Y., Göksu S., Touzani R., Gülçin İ.
Archiv der Pharmazie, 2024 (SCI-Expanded)
- XII. **Assessment of Anticholinergic and Antidiabetic Properties of Some Natural and Synthetic Molecules: An In Vitro and In Silico Approach**
Çomaklı V., Aygül İ., Sağlamtaş R., Kuzu M., Demirdağ R., Akincioğlu H., Adem Ş., GÜLÇİN İ.
Current Computer-Aided Drug Design, cilt.20, sa.5, ss.441-451, 2024 (SCI-Expanded)
- XIII. **Functionally substituted derivatives of novel thiourea and phenylthiourea as potent aldose reductase, α-amylase, and α-glycosidase inhibitors: in vitro and in silico studies**
Sujayev A., Sadeghian N., Taslimi P., Kilinç N., Akkuş M., Özçelik B., Farzaliyev V., Alwasel S. H., GÜLÇİN İ.
Macromolecular Research, 2024 (SCI-Expanded)
- XIV. **Phenolic Compounds of Phlomis tuberosa by LC-MS/MS-Determination of Antioxidant Activity, Molecular Docking, and Enzyme Inhibition Profiles**
GÜVEN L., ERTÜRK A., KOCA M., GÜLÇİN İ.
ChemistrySelect, cilt.8, sa.48, 2023 (SCI-Expanded)
- XV. **The synthesis, carbonic anhydrase and acetylcholinesterase inhibition effects of sulfonyl chloride**

- moiety containing oxazolidinones using an intramolecular aza-Michael addition**
Yıldırım A., Atmaca U., Şahin E., Taslimi P., Taskin-Tok T., Çelik M., Gülçin İ.
Journal of Biomolecular Structure and Dynamics, sa.12, ss.2207-2213, 2023 (SCI-Expanded)
- XVI. **Benzimidazolium Salts Bearing Nitrile Moieties: Synthesis, Enzyme Inhibition Profiling, and Molecular Docking Analysis for Carbonic Anhydrase and Acetylcholinesterase**
Öner E., GÖK Y., Demir Y., Taskin-Tok T., AKTAŞ A., GÜLÇİN İ., Yalın S.
Chemistry and Biodiversity, cilt.20, sa.12, 2023 (SCI-Expanded)
- XVII. **Acetylphenyl-substituted imidazolium salts: synthesis, characterization, in silico studies and inhibitory properties against some metabolic enzymes**
Demirci Ö., TEZCAN B., Demir Y., Taskin-Tok T., GÖK Y., AKTAŞ A., GÜZEL B., GÜLÇİN İ.
Molecular Diversity, cilt.27, sa.6, ss.2767-2787, 2023 (SCI-Expanded)
- XVIII. **Synthesis, characterization, biochemical, and molecular modeling studies of carvacrol-based new thiosemicarbazide and 1,3,4-thiadiazole derivatives**
Alagöz T., Çalışkan F. G., Bilgiçli H. G., Zengin M., Sadeghi M., Taslimi P., GÜLÇİN İ.
Archiv der Pharmazie, cilt.356, sa.12, 2023 (SCI-Expanded)
- XIX. **Evaluation of Carbonic Anhydrase, Acetylcholinesterase, Butyrylcholinesterase, and α -Glycosidase Inhibition Effects and Antioxidant Activity of Baicalin Hydrate**
DURMAZ L., KARAGEÇİLİ H., GÜLÇİN İ.
LIFE-BASEL, sa.11, 2023 (SCI-Expanded)
- XX. **In Vitro and in Silico Studies of 3-Hydroxyflavone-Based Sulfonate Esters: Potent Acetylcholinesterase, Carbonic Anhydrase and α -Glycosidase Inhibitors**
Guney M., Aggul A. G., Ertürk A., Gülçin İ.
ChemistrySelect, cilt.8, sa.40, 2023 (SCI-Expanded)
- XXI. **Comprehensive Phytochemical Content by LC/MS/MS and Anticholinergic, Antiglaucoma, Antiepilepsy, and Antioxidant Activity of Apilarnil (Drone Larvae)**
Inci H., Izol E., Yilmaz M. A., Ilkaya M., Bingöl Z., GÜLÇİN İ.
Chemistry and Biodiversity, cilt.20, sa.10, 2023 (SCI-Expanded)
- XXII. **Potential antioxidant, anticholinergic, antidiabetic and antiglaucoma activities and molecular docking of spiraeoside as a secondary metabolite of onion (*Allium cepa*)**
DURMAZ L., Kızıltaş H., Karagecili H., Alwasel S., GÜLÇİN İ.
Saudi Pharmaceutical Journal, cilt.31, sa.10, 2023 (SCI-Expanded)
- XXIII. **Synthesis of new carboxylates and sulfonates containing thiazolidin-4-one ring and evaluation of inhibitory properties against some metabolic enzymes**
Tokali F. S., Taslimi P., TÜZÜN B., Karakuş A., Sadeghian N., GÜLÇİN İ.
Journal of the Iranian Chemical Society, cilt.20, sa.10, ss.2631-2642, 2023 (SCI-Expanded)
- XXIV. **Phytochemical content and enzyme inhibitory effect of Heptaptera triquetra (Vent.) Tutin fruit against acetylcholinesterase and carbonic anhydrase I and II isoenzymes**
Çiçek Kaya A., ÖZBEK H., YUCA H., Yılmaz G., Bingöl Z., KAZAZ C., GÜLÇİN İ., GÜVENALP Z.
Chemical Papers, cilt.77, sa.10, ss.5829-5837, 2023 (SCI-Expanded)
- XXV. **Novel Quinazolinone Derivatives: Potential Synthetic Analogs for the Treatment of Glaucoma, Alzheimer's Disease and Diabetes Mellitus**
Tokali F. S., Taslimi P., TÜZÜN B., Karakuş A., Sadeghian N., GÜLÇİN İ.
Chemistry and Biodiversity, cilt.20, sa.10, 2023 (SCI-Expanded)
- XXVI. **Novel coumarin-chalcone derivatives: Synthesis, characterization, antioxidant, cyclic voltammetry, molecular modelling and biological evaluation studies as acetylcholinesterase, α -glycosidase, and carbonic anhydrase inhibitors**
ÇELİK ONAR H., Özden E. M., Taslak H. D., GÜLÇİN İ., Ece A., Erçağ E.
Chemico-Biological Interactions, cilt.383, 2023 (SCI-Expanded)
- XXVII. **Antioxidant, antidiabetic, antiglaucoma, and anticholinergic effects of Tayfi grape (<i>Vitis vinifera</i>): A phytochemical screening by LC-MS/MS analysis**
KARAGEÇİLİ H., Izol E., KİREÇÇİ E., GÜLÇİN İ.

- OPEN CHEMISTRY, cilt.21, sa.1, 2023 (SCI-Expanded)
- XXVIII. Isofraxidin: Antioxidant, Anti-carbonic Anhydrase, Anti-cholinesterase, Anti-diabetic, and in Silico Properties
DURMAZ L., GÜLÇİN İ., Taslimi P., TÜZÜN B.
CHEMISTRYSELECT, cilt.8, sa.34, 2023 (SCI-Expanded)
- XXIX. Antioxidant, Antiglaucoma, Anticholinergic, and Antidiabetic Effects of Kiwifruit (*< i>Actinidia deliciosa*) Oil: Metabolite Profile Analysis Using LC-HR/MS, GC/MS and GC-FID
Ozden E. M., Bingol Z., MUTLU M., KARAGEÇİLİ H., KÖKSAL E., Goren A. C., Alwasel S. H., GÜLÇİN İ.
LIFE-BASEL, cilt.13, sa.9, 2023 (SCI-Expanded)
- XXX. LC-ESI-MS/MS analysis of secondary metabolites of different St. John's wort (*Hypericum perforatum*) extracts used as food supplements and evaluation of developmental toxicity on zebrafish (*Danio rerio*) embryos and larvae
Atalar M. N., Köktürk M., Altındağ F., Ozhan G., Özen T., Demirtas İ., GÜLÇİN İ.
South African Journal of Botany, cilt.159, ss.580-587, 2023 (SCI-Expanded)
- XXXI. The Comparison with Commercial Antioxidants, Effects on Colour, and Sensory Properties of Green Tea Powder in Butter
Çakmakçı S., Gülçin İ., Gundogdu E., Oztekin H. E., Taslimi P.
ANTIOXIDANTS, cilt.12, sa.8, 2023 (SCI-Expanded)
- XXXII. Screening of in Vitro Inhibition of Lactoperoxidase Enzyme by Methyl Benzoate Derivatives with Molecular Docking Studies
Abul N., Gerni S., Korkmaz I. N., Demir Y., ÖZDEMİR H., GÜLÇİN İ.
CHEMISTRY & BIODIVERSITY, cilt.20, sa.8, 2023 (SCI-Expanded)
- XXXIII. Synthesis and Biological Activity of Some Bromophenols and Their Derivatives Including Natural Products
Bayrak C., Taslimi P., Kilinc N., GÜLÇİN İ., MENZEK A.
Chemistry and Biodiversity, cilt.20, sa.8, 2023 (SCI-Expanded)
- XXXIV. DPPH Radical Scavenging Assay
GÜLÇİN İ., Alwasel S. H.
Processes, cilt.11, sa.8, 2023 (SCI-Expanded)
- XXXV. Evaluation of antioxidant potentials and acetylcholinesterase inhibitory effects of some new salicylic acid-salicylamide hybrids
KOCA M., GÜLÇİN İ., Üç E. M., Bilginer S., AYDIN A. S.
Journal of the Iranian Chemical Society, cilt.20, sa.7, ss.1535-1543, 2023 (SCI-Expanded)
- XXXVI. Synthesis, Biological Activity Evaluation and Molecular Docking of Imidazole Derivatives Possessing Hydrazone Moiety
Kekecmuhammed H., Tapera M., Aydogdu E., SARIPINAR E., KARATAŞ E. A., Uc E. M., Akyuz M., TÜZÜN B., GÜLÇİN İ., Emin Bora R., et al.
CHEMISTRY & BIODIVERSITY, cilt.20, sa.6, 2023 (SCI-Expanded)
- XXXVII. Design, synthesis, characterization, crystal structure, in silico studies, and inhibitory properties of the PEPPSI type Pd(II)NHC complexes bearing chloro/fluorobenzyl group
GÖK Y., Taslimi P., ŞEN YÜKSEL B., Bal S., AKTAŞ A., AYGÜN M., Sadeghi M., GÜLÇİN İ.
Bioorganic Chemistry, cilt.135, 2023 (SCI-Expanded)
- XXXVIII. Design, synthesis, α -glucosidase inhibition, pharmacokinetic, and cytotoxic studies of new indole-carbohydrazide-phenoxy-N-phenylacetamide derivatives
Hamedifar H., Mohammadi-Khanaposhtani M., Sherafati M., Noori M., Moazam A., Hosseini S., Larijani B., Hajimiri M. H., Mahdavi M., Erdogan M. K., et al.
Archiv der Pharmazie, cilt.356, sa.6, 2023 (SCI-Expanded)
- XXXIX. Structural characterization and biological evaluation of uracil-appended benzylid amine as acetylcholinesterase and carbonic anhydrase I and II inhibitors
Bulut Z., Abul N., Poslu A. H., GÜLÇİN İ., Ece A., Erçag E., Koz Ö., Koz G.
Journal of Molecular Structure, cilt.1280, 2023 (SCI-Expanded)

- XL. **Design, Synthesis, Characterization and Biological Activities of Novel S-(Acyloxy)butyl-N,N-Diethyldithiocarbamate Compounds**
Karimov A., Taslimi P., Orujova A., Mammadova K., KISA D., Farzaliyev V., Sujayev A., Sadeghian N., TAŞKIN TOK T., Alwasel S., et al.
CHEMISTRYSELECT, cilt.8, sa.18, 2023 (SCI-Expanded)
- XLI. **Analysis of Phenolic Compounds by LC-HRMS and Determination of Antioxidant and Enzyme Inhibitory Properties of Verbascum speciosum Schrad**
Kızıltاش H., Bingol Z., Goren A. C., Alwasel S. H., GÜLÇİN İ.
RECORDS OF NATURAL PRODUCTS, cilt.17, ss.485-500, 2023 (SCI-Expanded)
- XLII. **Thymol regulates the Endothelin-1 at gene expression and protein synthesis levels in septic rats**
Şehitoğlu M. H., ÖZTOPUZ R. Ö., Kılınç N., OVALI M. A., Büyük B., GÜLÇİN İ.
Chemico-Biological Interactions, cilt.375, 2023 (SCI-Expanded)
- XLIII. **Screening of Antiglaucoma, Antidiabetic, Anti-Alzheimer, and Antioxidant Activities of < i > Astragalus alopecurus < /i > Pall-Analysis of Phenolics Profiles by LC-MS/MS**
Güven L., Erturk A., Miloğlu F., Alwasel S., Gulcin İ.
PHARMACEUTICALS, sa.5, 2023 (SCI-Expanded)
- XLIV. **Fluorinated benzimidazolium salts: Synthesis, characterization, molecular docking studies and inhibitory properties against some metabolic enzymes**
Zengin R., GÖK Y., Demir Y., ŞEN YÜKSEL B., Taskin-Tok T., AKTAŞ A., Demirci Ö., GÜLÇİN İ., AYGÜN M.
Journal of Fluorine Chemistry, cilt.267, 2023 (SCI-Expanded)
- XLV. **Synthesis, Characterization, Bioactivity Impacts of New Anthranilic Acid Hydrazones Containing Aryl Sulfonate Moiety as Fenamate Isosteres**
TOKALI F. S., Taslimi P., Sadeghian N., Taskin-To T., GÜLÇİN İ.
CHEMISTRYSELECT, cilt.8, sa.13, 2023 (SCI-Expanded)
- XLVI. **Synthesis of nitrogen-containing oleanolic acid derivatives as carbonic anhydrase and acetylcholinesterase inhibitors**
ŞENOL H., Çelik Turgut G., ŞEN A., Sağlamtaş R., Tuncay S., GÜLÇİN İ., TOPÇU G.
Medicinal Chemistry Research, cilt.32, sa.4, ss.694-704, 2023 (SCI-Expanded)
- XLVII. **Dual functional cholinesterase and carbonic anhydrase inhibitors for the treatment of Alzheimer's disease: Design, synthesis, in vitro, and in silico evaluations of coumarin-dihydropyridine derivatives**
Zahedi N. A., Mohammadi-Khanaposhtani M., Rezaei P., Askarzadeh M., Alikhani M., Adib M., Mahdavi M., Larijani B., Niakan S., Tehrani M. B., et al.
Journal of Molecular Structure, cilt.1276, 2023 (SCI-Expanded)
- XLVIII. **Metal-Free Synthesis via Intramolecular Cyclization, Enzyme Inhibition Properties and Molecular Docking of Novel Isoindolinones**
Atmaca U., Saglamtaş R., Sert Y., Çelik M., Gülçin İ.
ChemistrySelect, cilt.8, sa.9, 2023 (SCI-Expanded)
- XLIX. **Synthesis of Schiff Bases Containing Phenol Rings and Investigation of Their Antioxidant Capacity, Anticholinesterase, Butyrylcholinesterase, and Carbonic Anhydrase Inhibition Properties**
AYTAÇ S., GÜNDÖĞDU Ö., Bingol Z., GÜLÇİN İ.
PHARMACEUTICS, cilt.15, sa.3, 2023 (SCI-Expanded)
- L. **Determination of Antioxidant, Anti-Alzheimer, Antidiabetic, Antiglaucoma and Antimicrobial Effects of Zivzik Pomegranate (*Punica granatum*)—A Chemical Profiling by LC-MS/MS**
Karagecili H., İzol E., Kirecci E., GÜLÇİN İ.
Life, cilt.13, sa.3, 2023 (SCI-Expanded)
- LI. **Comprehensive Metabolite Profiling of Berdav Propolis Using LC-MS/MS: Determination of Antioxidant, Anticholinergic, Antiglaucoma, and Antidiabetic Effects**
Karagecili H., Yılmaz M. A., ERTÜRK A., Kızıltاش H., GÜVEN L., Alwasel S. H., GÜLÇİN İ.
Molecules (Basel, Switzerland), cilt.28, sa.4, 2023 (SCI-Expanded)
- LII. **Piperazine derivatives with potent drug moiety as efficient acetylcholinesterase,**

- butyrylcholinesterase, and glutathione S-transferase inhibitors**
Karaytug M. O., Balcı N., Türkân F., Gurbuz M., Demirkol M. E., Namli Z., TAMAM L., Gulcin İ.
Journal of Biochemical and Molecular Toxicology, cilt.37, sa.2, 2023 (SCI-Expanded)
- LIII. **Vinyl functionalized 5,6-dimethylbenzimidazolium salts: Synthesis and biological activities**
KARACA E. Ö., Bingöl Z., GÜRBÜZ N., ÖZDEMİR İ., GÜLÇİN İ.
Journal of Biochemical and Molecular Toxicology, cilt.37, sa.2, 2023 (SCI-Expanded)
- LIV. **Some Thiocyanate Containing Heterocyclic Compounds: Synthesis, Bioactivity and Molecular Docking Study**
Israfilova Z., Taslimi P., GÜLÇİN İ., Abdullayev Y., Farzaliyev V., Karaman M., Sujayev A., Alwasel S. H.
ChemistrySelect, cilt.8, sa.3, 2023 (SCI-Expanded)
- LV. **Comprehensive Metabolite Profiling of Cinnamon (*Cinnamomum zeylanicum*) Leaf Oil Using LC-HR/MS, GC/MS, and GC-FID: Determination of Antiglaucoma, Antioxidant, Anticholinergic, and Antidiabetic Profiles**
Mutlu M., Bingol Z., Uc E. M., KÖKSAL E., Goren A. C., Alwasel S. H., GÜLÇİN İ.
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- LVI. **Unravelling the phenolic compound reserves, antioxidant and enzyme inhibitory activities of an endemic plant species, *Achillea pseudoaleppica***
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- CXXII. **Synthesis, Characterization, and Inhibition Study of Novel Substituted Phenylureido Sulfaguanidine Derivatives as alpha-Glycosidase and Cholinesterase Inhibitors**
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- CXXIII. **Synthesis and in vitro carbonic anhydrases and acetylcholinesterase inhibitory activities of novel imidazolinone-based benzenesulfonamides**
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- CXXIV. **Synthesis, characterization, crystal structure and bioactivity properties of the benzimidazole-functionalized PEPSSI type of Pd(II)NHC complexes**
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- CXXV. **Synthesis of benzamide derivatives with thiourea-substituted benzenesulfonamides as carbonic anhydrase inhibitors**
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- CXXVI. **Probing 4-(diethylamino)-salicylaldehyde-based thiosemicarbazones as multi-target directed ligands against cholinesterases, carbonic anhydrases and alpha-glycosidase enzymes**

- Hashmi S., Khan S., Shafiq Z., Taslimi P., Ishaq M., Sadeghian N., Karaman H. S., Akhtar N., Islam M., Asari A., et al.
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- CXXVII. **Design, synthesis, characterization, enzymatic inhibition evaluations, and docking study of novel quinazolinone derivatives**
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- CXXVIII. **New Chalcone Derivatives with Pyrazole and Sulfonamide Pharmacophores as Carbonic Anhydrase Inhibitors**
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- CXXIX. **Novel silver(I)N-heterocyclic carbene complexes bearing 2-(4-hydroxyphenyl)ethyl group: Synthesis, characterization, and enzyme inhibition properties**
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- CXXX. **Concise syntheses and some biological activities of dl-2,5-di-O-methyl-chiro-inositol,dl-1,4-di-O-methyl-scyllo-inositol, and dl-1,6-dibromo-1,6-dideoxy-2,5-di-O-methyl-chiro-inositol**
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- CXXXI. **Novel Mannich bases with strong carbonic anhydrases and acetylcholinesterase inhibition effects: 3-(aminomethyl)-6-{3-[4-(trifluoromethyl)phenyl]acryloyl}-2(3H)-benzoxazolones**
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- CXXXII. **Determination of anticancer properties and inhibitory effects of some metabolic enzymes including acetylcholinesterase, butyrylcholinesterase, alpha-glycosidase of some compounds with molecular docking study.**
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- CXXXIII. **Synthesis, characterization, powder X-ray diffraction analysis, thermal stability, antioxidant properties and enzyme inhibitions of M(II)-Schiff base ligand complexes.**
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- CXXXIV. **Oleuropein and Verbascoside - Their Inhibition Effects on Carbonic Anhydrase and Molecular Docking Studies**
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- CXXXV. **Synthesis of novel tris-chalcones and determination of their inhibition profiles against some metabolic enzymes**
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- CXXXVI. **Synthesis and in silico studies of triazene-substituted sulfamerazine derivatives as acetylcholinesterase and carbonic anhydrases inhibitors**
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- CXXXVII. **Synthesis, characterization and bioactivities of dative donor ligand N-heterocyclic carbene (NHC) precursors and their Ag(I)NHC coordination compounds**
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- CXXXVIII. **Synthesis and biological evaluation of new pyrazolebenzene-sulphonamides as potential anticancer agents and hCA I and II inhibitors**
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- CXL. **Human monoamine oxidase (hMAO) A and hMAO B inhibitors from Artemisia dracunculus L. herniarin and skiminin: human mononamine oxidase A and B inhibitors from A. dracunculus L.**
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- CXLI. **Synthesis, characterization, molecular docking, and biological activities of coumarin-1,2,3-triazole-acetamide hybrid derivatives.**
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- CXLII. **Synthesis of nitrogen, phosphorus, selenium and sulfur-containing heterocyclic compounds – Determination of their carbonic anhydrase, acetylcholinesterase, butyrylcholinesterase and α -glycosidase inhibition properties**
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- CXLV. **Synthesis, characterization, biological evaluation, and in silico studies of novel 1,3-diaryltriazene-substituted sulfathiazole derivatives**
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- CXLVI. **Synthesis of water soluble tetra-substituted phthalocyanines: Investigation of DNA cleavage, cytotoxic effects and metabolic enzymes inhibition**
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- CXLVII. **Novel benzo[b]xanthene derivatives: Bismuth(III) triflate-catalyzed one-pot synthesis, characterization, and acetylcholinesterase, glutathione S-transferase, and butyrylcholinesterase inhibitory properties**
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- CXLVIII. **Novel propanolamine derivatives attached to 2-metoxifenol moiety: Synthesis, characterization, biological properties, and molecular docking studies**
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- CXLIX. **2H-Indazolo[2,1-b]phthalazine-trione derivatives: Inhibition on some metabolic enzymes and molecular docking studies**
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- CLI. **Synthesis, cytotoxic, and carbonic anhydrase inhibitory effects of new 2-(3-(4-methoxyphenyl)-5-(aryl)-4,5-dihydro-1H-pyrazol-1-yl)benzo[d]thiazole derivatives**
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- CLII. **Synthesis and antioxidant activities of phenol derivatives from 1,6-bis (dimethoxyphenyl)hexane-1,6-dione**
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- CLIII. **Synthesis, characterization, inhibition effects, and molecular docking studies as acetylcholinesterase, α -glycosidase, and carbonic anhydrase inhibitors of novel benzenesulfonamides incorporating 1,3,5-triazine structural motifs**
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- CLIV. **Synthesis, characterization, photo-physicochemical and biological properties of water-soluble tetra-substituted phthalocyanines: Antidiabetic, anticancer and anticholinergic potentials**
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- CLV. **Novel functionally substituted esters based on sodium diethyldithiocarbamate derivatives: Synthesis, characterization, biological activity and molecular docking studies**
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- CLVI. **New halogenated chalcones with cytotoxic and carbonic anhydrase inhibitory properties: 6-(3-Halogenated phenyl-2-propen-1-oyl)-2(3H)-benzoxazolones**
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- CLVII. **Synthesis of novel organohalogen chalcone derivatives and screening of their molecular docking study and some enzymes inhibition effects**
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- CLVIII. **Novel amine-functionalized benzimidazolium salts: Synthesis, characterization, bioactivity, and molecular docking studies**
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- CLIX. **Screening of non-alkaloid acetylcholinesterase and carbonic anhydrase isoenzymes inhibitors of Leiotulus dasyanthus (K. Koch) Pimenov & Ostr. (Apiaceae)**
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- CLX. **Inhibition effects of some pesticides and heavy metals on carbonic anhydrase enzyme activity purified from horse mackerel (*Trachurus trachurus*) gill tissues**
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- CLXI. **Cholinesterases, α -glycosidase, and carbonic anhydrase inhibition properties of 1H-pyrazolo[1,2-b]phthalazine-5,10-dione derivatives: Synthetic analogues for the treatment of Alzheimer's disease and diabetes mellitus**
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- CLXII. **Synthesis of novel β -amino carbonyl derivatives and their inhibition effects on some metabolic enzymes**
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- CLXIII. **A novel ag-n-heterocyclic carbene complex bearing the hydroxyethyl ligand: Synthesis, characterization, crystal and spectral structures and bioactivity properties**
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- CLXIV. **Antioxidants and antioxidant methods: an updated overview**
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- CLXV. **Anti-Alzheimer, antidiabetic and antioxidant potential of *Satureja cuneifolia* and analysis of its phenolic contents by LC-MS/MS**
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- CLXVII. **Novel carvacrol based new oxypropanolamine derivatives: Design, synthesis, characterization, biological evaluation, and molecular docking studies**
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- CLXVIII. **The Influence of Some Nonsteroidal Anti-inflammatory Drugs on Metabolic Enzymes of Aldose Reductase, Sorbitol Dehydrogenase, and α -Glycosidase: a Perspective for Metabolic Disorders**
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- CLXIX. **Lactoperoxidase inhibition of some natural phenolic compounds: Kinetics and molecular docking studies**
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- CLXX. **Synthesis, characterization and biological evaluation of N-substituted triazinane-2-thiones and theoretical-experimental mechanism of condensation reaction**
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- CLXXIII. **Aminoalkylated Phenolic Chalcones: Investigation of Biological Effects on Acetylcholinesterase and Carbonic Anhydrase I and II as Potential Lead Enzyme Inhibitors**
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- CLXXIV. **Anticholinergic and antioxidant activities of avocado (*Folium persea*) leaves - phytochemical content by LC-MS/MS analysis**
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- CLXXV. **Novel 2-methylimidazolium salts: Synthesis, characterization, molecular docking, and carbonic anhydrase and acetylcholinesterase inhibitory properties**
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- CLXXVI. **Identification of non-alkaloid natural compounds of Angelica purpurascens (Avé-Lall.) Gilli. (Apiaceae) with cholinesterase and carbonic anhydrase inhibition potential**
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- CLXXVII. **Synthesis, characterization, biological evaluation, and molecular docking studies of some piperonyl-based 4-thiazolidinone derivatives**
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- CLXXVIII. **Influence of some beta-lactam drugs on selected antioxidant enzyme and lipid peroxidation levels in different rat tissues**
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- CLXXX. **Synthesis, spectroscopic properties, crystal structures, antioxidant activities and enzyme inhibition determination of Co(II) and Fe(II) complexes of Schiff base**
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- CLXXXI. **In vitro effects of standard antioxidants on lactoperoxidase enzyme-A molecular docking approach**
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- CLXXXIII. **Cytotoxic effects, carbonic anhydrase isoenzymes, α -glycosidase and acetylcholinesterase inhibitory properties, and molecular docking studies of heteroatom-containing sulfonyl hydrazone derivatives.**
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- CLXXXIV. **Synthesis and bioactivities of 1-(4-hydroxyphenyl)-2-((heteroaryl)thio)ethanones as carbonic anhydrase I, II and acetylcholinesterase inhibitors**
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- CLXXXV. **Novel tribenzylaminobenzolsulphonylimine based on their pyrazine and pyridazines: Synthesis, characterization, antidiabetic, anticancer, anticholinergic, and molecular docking studies**
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- CLXXXVI. **Synthesis of beta-amino acid derivatives and their inhibitory profiles against some metabolic enzymes**
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- CLXXXVII. **Design, synthesis, in vitro and in vivo evaluation of novel pyrrolizine-based compounds with potential activity as cholinesterase inhibitors and anti-Alzheimer's agents**
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- CLXXXIX. **Purification and characterization of the carbonic anhydrase enzyme from horse mackerel (*Trachurus trachurus*) muscle and the impact of some metal ions and pesticides on enzyme activity**
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- CXC. **Pyrazole[3,4-d]pyridazine derivatives: Molecular docking and explore of acetylcholinesterase and carbonic anhydrase enzymes inhibitors as anticholinergics potentials**
Taslimi P., Turkan F., Cetin A., Burhan H., Karaman M., Bildirici İ., GÜLÇİN İ., Sen F.
BIOORGANIC CHEMISTRY, cilt.92, 2019 (SCI-Expanded)
- CXCI. **Synthesis of novel bis-sulfone derivatives and their inhibition properties on some metabolic enzymes including carbonic anhydrase, acetylcholinesterase, and butyrylcholinesterase**
Bicer A., Kaya R., ANIL B., Cin G. T., GÜLÇİN İ., GÜLTEKİN M. S.
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- CXCII. **The effects of zingerone against vancomycin-induced lung, liver, kidney and testis toxicity in rats: The behavior of some metabolic enzymes**
Caglayan C., Taslimi P., Demir Y., Küçükler S., Kandemir F. M., GÜLÇİN İ.
Journal of Biochemical and Molecular Toxicology, cilt.33, 2019 (SCI-Expanded)
- CXCIII. **Novel 2-aminopyridine liganded Pd(II) N-heterocyclic carbene complexes: Synthesis, characterization, crystal structure and bioactivity properties**
Erdemir P., Celepçi D. B., AKTAŞ A., GÖK Y., Kaya R., Taslimi P., Demir Y., GÜLÇİN İ.
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- CXCIV. **Phytochemical Content, Antidiabetic, Anticholinergic, and Antioxidant Activities of Endemic Lecokia cretica Extracts**
Aras A., Bursal E., Turkan F., Tohma H., Kilic O., GÜLÇİN İ., KÖKSAL E.
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- CXCV. **The green synthesis and molecular docking of novel N-substituted rhodanines as effective inhibitors for carbonic anhydrase and acetylcholinesterase enzymes**
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- CXCVI. **New phenolic Mannich bases with piperazines and their bioactivities**
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- CXCVII. **Synthesis and biological evaluation of some new mono Mannich bases with piperazines as possible anticancer agents and carbonic anhydrase inhibitors**
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- CXCVIII. **Sage (*Salvia pilifera*): determination of its polyphenol contents, anticholinergic, antidiabetic and antioxidant activities**
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- CXCIX. **Probiotic Shelf Life, Antioxidant, Sensory, Physical and Chemical Properties of Yogurts Produced with *Lactobacillus acidophilus* and Green Tea Powder**
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- CC. **Antidiabetic properties of dietary phenolic compounds: Inhibition effects on alpha-amylase, aldose reductase, and alpha-glycosidase**
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- CCI. **Synthesis and biological evaluation of bromophenol derivatives with cyclopropyl moiety: Ring opening of cyclopropane with monoester**
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- CCII. **Preliminary phytochemical analysis and evaluation of in vitro antioxidant, antiproliferative, antidiabetic, and anticholinergics effects of endemic *Gypsophila* taxa from Turkey**
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- CCIII. **Novel eugenol bearing oxypropanolamines: Synthesis, characterization, antibacterial, antidiabetic, and anticholinergic potentials**
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- CCIV. **Synthesis of oxazolidinone from enantiomerically enriched allylic alcohols and determination of their molecular docking and biologic activities**
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- CCV. **Synthesis and characterization of novel bromophenols: Determination of their anticholinergic, antidiabetic and antioxidant activities**
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- CCVI. **Synthesis, characterization, molecular docking and biological activities of novel pyrazoline derivatives**
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- CCVII. **The antidiabetic and anticholinergic effects of chrysins on cyclophosphamide-induced multiple organ toxicity in rats: Pharmacological evaluation of some metabolic enzyme activities**
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- CCVIII. **Measurement of anticancer, antidiabetic and anticholinergic properties of sumac (*Rhus coriaria*): analysis of its phenolic compounds by LC-MS/MS**
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- CCIX. **Investigation of inhibitory properties of some hydrazone compounds on hCA I, hCA II and AChE enzymes**
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- CCX. **Synthesis, biological evaluation and molecular docking of novel pyrazole derivatives as potent carbonic anhydrase and acetylcholinesterase inhibitors**
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- CCXI. **Investigation of the effects of some sulfonamides on acetylcholinesterase and carbonic anhydrase enzymes.**
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- CCXII. **Mono- or di-substituted imidazole derivatives for inhibition of acetylcholine and butyrylcholine esterases**
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- CCXIII. **Synthesis and biological evaluation of novel tris-chalcones as potent carbonic anhydrase, acetylcholinesterase, butyrylcholinesterase and α-glycosidase inhibitors**
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- CCXIV. **The first synthesis, carbonic anhydrase inhibition and anticholinergic activities of some bromophenol derivatives with S including natural products**
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- CCXV. **SAR Evaluation of Disubstituted Tacrine Analogues as Promising Cholinesterase and Carbonic Anhydrase Inhibitors**
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- CCXVI. **Imidazolinium chloride salts bearing wingtip groups: Synthesis, molecular docking and metabolic enzymes inhibition**
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- CCXVII. **Phytochemical content, antioxidant activity, and enzyme inhibition effect of Salvia eriophora Boiss. & Kotschy against acetylcholinesterase, alpha-amylase, butyrylcholinesterase, and alpha-glycosidase enzymes**
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- CCXVIII. **Synthesis and characterization of novel substituted thiophene derivatives and discovery of their carbonic anhydrase and acetylcholinesterase inhibition effects**
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- CCXIX. **Synthesis and bioactivities of pyrazoline benzenesulfonamides as carbonic anhydrase and acetylcholinesterase inhibitors with low cytotoxicity**
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- CCXX. **Aminopyrazole-substituted metallophthalocyanines: Preparation, aggregation behavior, and investigation of metabolic enzymes inhibition properties**
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- CCXXI. **The effects of hesperidin on sodium arsenite-induced different organ toxicity in rats on metabolic enzymes as antidiabetic and anticholinergics potentials: A biochemical approach**
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- CCXXII. **Novel morpholine liganded Pd-based N-heterocyclic carbene complexes: Synthesis, characterization, crystal structure, antidiabetic and anticholinergic properties**
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- CCXXIII. **Synthesis, characterization, crystal structure of novel bis-thiomethylcyclohexanone derivatives and their inhibitory properties against some metabolic enzymes**
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- CCXXIV. **Synthesis, crystal structure, and biological evaluation of optically active 2-amino-4-aryl-7,7-dimethyl-5-oxo-5,6,7,8-tetrahydro-4H-chromen-3-carbonitriles: Antiepileptic, antidiabetic, and anticholinergics potentials**
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- CCXXV. **Synthesis, characterization, crystal structures, theoretical calculations and biological evaluations of novel substituted tacrine derivatives as cholinesterase and carbonic anhydrase enzymes inhibitors**
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- CCXXVI. **Anticholinergic, antidiabetic and antioxidant activities of cinnamon (*cinnamomum verum*) bark extracts: polyphenol contents analysis by LC-MS/MS**
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- CCXXVII. **Screening the in vitro antioxidant, antimicrobial, anticholinesterase, antidiabetic activities of endemic Achillea cucullata (Asteraceae) ethanol extract**
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- CCXXVIII. **The Impacts of Some Sedative Drugs on alpha -Glycosidase, Acetylcholinesterase and Butyrylcholinesterase Enzymes-potential Drugs for Some Metabolic Diseases**
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- CCXXIX. **In vitro cytotoxic and in vivo antitumoral activities of some aminomethyl derivatives of 2,4-dihydro-3H-1,2,4-triazole-3-thiones-Evaluation of their acetylcholinesterase and carbonic anhydrase enzymes inhibition profiles**
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- CCXXX. **The effects of some antibiotics from cephalosporin groups on the acetylcholinesterase and butyrylcholinesterase enzymes activities in different tissues of rats**
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- CCXXXI. **The effects of casticin and myricetin on liver damage induced by methotrexate in rats**
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- CCXXXII. **Antidiabetic potential: In vitro inhibition effects of bromophenol and diarylmethanones derivatives on metabolic enzymes**
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- CCXXXIII. **Synthesis, characterization, antioxidant, antidiabetic, anticholinergic, and antiepileptic properties of novel N-substituted tetrahydropyrimidines based on phenylthiourea**
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- CCXXXIV. **New azafluorenones with cytotoxic and carbonic anhydrase inhibitory properties: 2-Aryl-4-(4-hydroxyphenyl)-5H-indeno[1,2-b]pyridin-5-ones.**
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- CCXXXV. **Novel thymol bearing oxypropanolamine derivatives as potent some metabolic enzyme inhibitors - Their antidiabetic, anticholinergic and antibacterial potentials**
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- CCXXXVI. **Synthesis, characterization, crystal structure, electrochemical studies and biological evaluation of metal complexes with thiosemicarbazone of glyoxylic acid**
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- CCXXXVII. **Antidiabetic and antiparasitic potentials: Inhibition effects of some natural antioxidant compounds on alpha-glycosidase, alpha-amylase and human glutathione S-transferase enzymes**
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- :CXXXVIII. **Novel sulfamate derivatives of menthol: Synthesis, characterization, and cholinesterases and carbonic anhydrase enzymes inhibition properties**
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- CCXXXIX. **Diarylmethanone, bromophenol and diarylmethane compounds: Discovery of potent aldose reductase, alpha-amylase and alpha-glycosidase inhibitors as new therapeutic approach in diabetes and functional hyperglycemia**
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- CCXL. **Synthesis, characterization and crystal structure of 2-(4-hydroxyphenyl)ethyl and 2-(4-nitrophenyl)ethyl Substituted Benzimidazole Bromide Salts: Their inhibitory properties against carbonic anhydrase and acetylcholinesterase**
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- CCXLI. **Some pyrazoles derivatives: Potent carbonic anhydrase, -glycosidase, and cholinesterase enzymes inhibitors**
Turkan F., Cetin A., TASLIMI P., GÜLÇİN İ.
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- CCXLII. **Novel amides of 1,1-bis-(carboxymethylthio)-1-arylethyne: Synthesis, characterization, acetylcholinesterase, butyrylcholinesterase, and carbonic anhydrase inhibitory properties**
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- CCXLIII. **Synthesis, crystal structure and biological evaluation of spectroscopic characterization of Ni(II) and Co(II) complexes with N-salicyloil-N-maleoil-hydrazine as anticholinergic and antidiabetic agents**
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- CCXLIV. **Antioxidant Activity of the Aqueous Extract of Iris taochia and Identification of its Chemical Constituents**
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- CCXLVI. **Synthesis of novel sulfamides incorporating phenethylamines and determination of their inhibition profiles against some metabolic enzymes**
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- CCXLVII. **Characterization and inhibition effects of some metal ions on carbonic anhydrase enzyme from Kangal Akkaraman sheep**
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- CCXLVIII. **Intermolecular amination of allylic and benzylic alcohols leads to effective inhibitions of acetylcholinesterase enzyme and carbonic anhydrase I and II isoenzymes**
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- CCXLIX. **Novel Benzylic Substituted Imidazolinium, Tetrahydropyrimidinium and Tetrahydroadiazepinium Salts: Potent Carbonic Anhydrase and Acetylcholinesterase Inhibitors**
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- CCL. **meta-Cyanobenzyl substituted benzimidazolium salts: Synthesis, characterization, crystal structure and carbonic anhydrase, -glycosidase, butyrylcholinesterase, and acetylcholinesterase inhibitory properties**
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- CCLI. **Antioxidant Activity of Flaxseed (*Linum usitatissimum L.*) shell and Analysis of Its Polyphenol Contents by LC-MS/MS**
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- CCLIII. **Synthesis, molecular modeling, and biological evaluation of 4-[5-aryl-3-(thiophen-2-yl)-4,5-dihydro-1H-pyrazol-1-yl] benzenesulfonamides toward acetylcholinesterase, carbonic anhydrase I and II enzymes**
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- CCLIV. **Synthesis and discovery of potent carbonic anhydrase, acetylcholinesterase, butyrylcholinesterase, and alpha-glycosidase enzymes inhibitors: The novel N,N '-bis-cyanomethylamine and alkoxyimethylamine derivatives**
TASLIMI P., Caglayan C., Farzaliyev V., Nabiyev O., Sujayev A., Turkan F., KAYA R., GÜLÇİN İ.
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- CCLV. **2-Hydroxyethyl substituted NHC precursors: Synthesis, characterization, crystal structure and carbonic anhydrase, alpha-glycosidase, butyrylcholinesterase, and acetylcholinesterase inhibitory properties**
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- CCLVI. **Purification of glutathione S-transferase enzyme from quail liver tissue and inhibition effects of (3aR,4S,7R,7aS)-2-(4-((E)-3-(aryl)acryloyl)phenyl)-3a,4,7,7a-tetrahydro-1H-4,7-methanoisoindole-1,3(2H)-dione derivatives on the enzyme activity**
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- CCLVII. **The effects of wireless electromagnetic fields on the activities of carbonic anhydrase and acetylcholinesterase enzymes in various tissues of rats**
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- CCLVIII. **The in vivo effects of cefazolin, cefuroxime, and cefoperazon on the carbonic anhydrase in different rat tissues**
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- CCLIX. **Synthesis and investigation of the conversion reactions of pyrimidine-thiones with nucleophilic reagent and evaluation of their acetylcholinesterase, carbonic anhydrase inhibition, and antioxidant activities**
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- CCXCIII. **Antioxidant activity and phenolic compounds of ginger (*Zingiber officinale Rosc.*) determined by HPLC-MS/MS**
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- CCCXI. **Antioxidant Activity, Acetylcholinesterase, and Carbonic Anhydrase Inhibitory Properties of Novel Ureas Derived from Phenethylamines**
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- CCCXXIII. **Impact of Some Avermectins on Lactoperoxidase in Bovine Milk**
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- CCCXXIV. **Effects of artificial lighting on bioactivity of sweet red pepper (*Capsicum annuum* L.)**
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- CCCXXV. **9,10-Dibromo-N-aryl-9,10-dihydro-9,10-[3,4]epipyrroloanthracene-12,14-diones: Synthesis and Investigation of Their Effects on Carbonic Anhydrase Isozymes I, II, IX, and XII**
Goksu H., Topal M., KESKIN A., GÜLTEKİN M. S., ÇELİK M., GÜLÇİN İ., Tanç M., SUPURAN C. T.

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- CCCXXVI. **Purification and characterization of the carbonic anhydrase enzyme from Black Sea trout (*Salmo trutta* Labrax Coruhensis) kidney and inhibition effects of some metal ions on enzyme activity**
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- CCCXXVII. **Acetylcholinesterase and carbonic anhydrase inhibitory properties of novel urea and sulfamide derivatives incorporating dopaminergic 2-aminotetralin scaffolds**
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- CCCXXVIII. **Spirobisnaphthalenes effectively inhibit carbonic anhydrase**
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- CCCXXIX. **Acetylcholinesterase and carbonic anhydrase isoenzymes I and II inhibition profiles of taxifolin**
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- CCCXXX. **Synthesis of 4-[2-(3,4-dimethoxybenzyl)cyclopentyl]-1,2-dimethoxybenzene Derivatives and Evaluations of Their Carbonic Anhydrase Isoenzymes Inhibitory Effects**
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- CCCXXXI. **Antioxidant, antiradical, and anticholinergic properties of cynarin purified from the Illyrian thistle (*Onopordum illyricum* L.)**
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- CCCXXXII. **The human carbonic anhydrase isoenzymes I and II (hCA I and II) inhibition effects of trimethoxyindane derivatives**
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- CCCXXXIII. **Synthesis of 4-(2-substituted hydrazinyl)benzenesulfonamides and their carbonic anhydrase inhibitory effects**
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- CCCXXXIV. **Rosmarinic acid inhibits some metabolic enzymes including glutathione S-transferase, lactoperoxidase, acetylcholinesterase, butyrylcholinesterase and carbonic anhydrase isoenzymes**
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- CCCXXXV. **Synthesis, cytotoxicity and carbonic anhydrase inhibitory activities of new pyrazolines**
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- CCCXXXVI. **Inhibitory effects of some phenolic compounds on the activities of carbonic anhydrase: from in vivo to ex vivo**
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- CCCXXXVII. **Synthesis of N-alkyl (aril)-tetra pyrimidine thiones and investigation of their human carbonic anhydrase I and II inhibitory effects**
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- CCCXXXVIII. **Synthesis of some tetrahydropyrimidine-5-carboxylates, determination of their metal chelating effects and inhibition profiles against acetylcholinesterase, butyrylcholinesterase and carbonic anhydrase**
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- CCCXXXIX. Inhibitory effects of isatin Mannich bases on carbonic anhydrases, acetylcholinesterase, and butyrylcholinesterase
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- CCCXL. The human carbonic anhydrase isoenzymes I and II inhibitory effects of some hydroperoxides, alcohols, and acetates
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- CCCXL. Purification and characterization of dihydropyrimidine dehydrogenase enzyme from sheep liver and determination of the effects of some anaesthetic and antidepressant drugs on the enzyme activity
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- CCCXLII. The effects of some avermectins on bovine carbonic anhydrase enzyme
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- CCCXLIII. Synthesis and bioactivity studies on new 4-(3-(4-Substitutedphenyl)-3a,4-dihydro-3H-indeno[1,2-c]pyrazol-2-yl) benzenesulfonamides
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- CCCXLIV. Antioxidant activity of taxifolin: an activity-structure relationship
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- CCCXLV. The effect of caffeic acid phenethyl ester (CAPE) on metabolic enzymes including acetylcholinesterase, butyrylcholinesterase, glutathione S-transferase, lactoperoxidase, and carbonic anhydrase isoenzymes I, II, IX, and XII
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- CCCXLVI. Synthesis and inhibitory properties of some carbamates on carbonic anhydrase and acetylcholine esterase
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- CCCXLVII. A comparative study on the antioxidant effects of hesperidin and ellagic acid against skeletal muscle ischemia/reperfusion injury
Akdemir F. N. E., GÜLÇİN İ., Karagoz B., Soslu R., ALWASEL S. H.
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- CCCXLVIII. The synthesis of (Z)-4-oxo-4-(arylamino)but-2-enoic acids derivatives and determination of their inhibition properties against human carbonic anhydrase I and II isoenzymes
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- CCCXLIX. The effects of some bromophenols on human carbonic anhydrase isoenzymes
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- CCCLI. LC-MS/MS analysis, antioxidant and anticholinergic properties of galanga (*Alpinia officinarum* Hance) rhizomes
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- CCCLII. Carbonic anhydrase inhibitors: guaiacol and catechol derivatives effectively inhibit certain human

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- CCCLIII. Discovery of potent carbonic anhydrase and acetylcholine esterase inhibitors: Novel sulfamoylcarbamates and sulfamides derived from acetophenones**
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- CCCLIV. Acetylcholinesterase Inhibitory and Antioxidant Activities of Novel Symmetric Sulfamides Derived from Phenethylamines**
AKSU K., TOPAL F., GÜLÇİN İ., Tumer F., GÖKSU S.
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- CCCLVIII. Pistachio (*Pistacia vera L.*) Gum: a potent inhibitor of reactive oxygen species**
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- CCCLIX. Carbonic anhydrase and acetylcholinesterase inhibitory effects of carbamates and sulfamoylcarbamates**
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- CCCLX. Antioxidant capacity and functionality of oleaster (*Elaeagnus angustifolia L.*) flour and crust in a new kind of fruity ice cream**
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- CCCLXI. Synthesis and Carbonic Anhydrase Isoenzymes I, II, IX, and XII Inhibitory Effects of Dimethoxybromophenol Derivatives Incorporating Cyclopropane Moieties**
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- CCCLXV. Synthesis and Carbonic Anhydrase Inhibitory Effects of Novel Sulfamides Derived from 1-Aminoindanes and Anilines**
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- CCCLXVI. Carbonic anhydrase inhibitory properties of novel benzylsulfamides using molecular modeling and experimental studies**

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