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Eğitim Bilgileri

Doktora, Hacettepe Üniversitesi, Sağlık Bilimleri Enstitüsü, Farmasötik Kimya A.B.D., Türkiye 2006 - 2012

Yüksek Lisans, Hacettepe Üniversitesi, Sağlık Bilimleri Enstitüsü, Farmasötik Kimya A.B.D., Türkiye 2004 - 2006

Lisans, Hacettepe Üniversitesi, Eczacılık Fakültesi, Türkiye 2000 - 2004

Yabancı Diller

İngilizce, C1 İleri

Yaptığı Tezler

Doktora, Kalsiyum modülatör etkili tiyenopiridin ve siklopentapiridin türevleri, Hacettepe Üniversitesi, Sağlık Bilimleri Enstitüsü, Farmasötik Kimya (Dr), 2012

Yüksek Lisans, 7-süstitüe heksahidrokinolin türevleri ve kalsiyum kanalları üzerine etkileri, Hacettepe Üniversitesi, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 2006

Araştırma Alanları

Sağlık Bilimleri, Eczacılık, Meslek Bilimleri, Farmasötik Kimya

Akademik Unvanlar / Görevler

Prof. Dr., Hacettepe Üniversitesi, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 2023 - Devam Ediyor

Doç. Dr., Hacettepe Üniversitesi, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 2017 - 2023

Yrd. Doç. Dr., Hacettepe Üniversitesi, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 2015 - 2017

Araştırma Görevlisi, Hacettepe Üniversitesi, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 2004 - 2015

Yönetilen Tezler

Gündüz M. G., Azol Halkası Taşıyan COX İnhibitörlerinin Sentezi ve Antimikrobiyal Aktivitelerinin Araştırılması, Yüksek Lisans, A.KARAGÜZEL(Öğrenci), 2024

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SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Experimental and computational perspectives on the interaction of nerve agent VX metabolite ethyl methylphosphonic acid with human serum albumin**
Bakırhan N. K., Brahmi M., Gündüz M. G., Irem Kaya S., Sezigen S., Ozkan S. A.
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- II. **Expanding cyclodextrin use in normal phase and super/subcritical fluid chromatographic modes for the chiral separation of 1,4-dihydropyridines.**
Burk R. J., Sajeevan J S. J., Salehi R., Koçak Aslan E., Gündüz M. G., Armstrong D. W.
Journal of chromatography. A, cilt.1736, ss.465394, 2024 (SCI-Expanded)
- III. **Chiral superficially porous stationary phases for enantiomeric separation of condensed 1,4-dihydropyridine derivatives.**
Salehi R., J S. J. S., Burk R. J., Berthod A., Gündüz M. G., Armstrong D. W.
Journal of pharmaceutical and biomedical analysis, cilt.251, ss.116420, 2024 (SCI-Expanded)
- IV. **Tail-approach based design, synthesis, and molecular modeling of benzenesulfonamides carrying thiadiazole and urea moieties as novel carbonic anhydrase inhibitors.**
Han M. İ., Gündüz M. G., Ammara A., Supuran C. T., Doğan Ş. D.
Archiv der Pharmazie, 2024 (SCI-Expanded)
- V. **Synthesis, molecular modeling, DFT studies, and EPR analysis of 1,4-dihydropyridines as potential calcium channel blockers**
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- VI. **Azole rings linked to COX inhibitors via hydrazone bridge: Synthesis, stereochemical analysis, and investigation of antimicrobial activity**
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- VII. **Biginelli dihydropyrimidines carrying azole rings: Synthesis, computational studies, and evaluation of alpha-glucosidase inhibitory and antimicrobial activities**
KOÇAK ASLAN E., Armačić S. J., Armačić S., ÖZENER N., ÖZKUL KOÇAK C., GÜNDÜZ M. G.
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- VIII. **Electrochemical and Theoretical Investigations on the Binding of Anticancer Drug Olaparib to Human Serum Albumin**
Keciba A., Bakırhan N. K., Gündüz M. G., Douliche M., Saidat B., Atici E. B., Ozkan S. A.
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- IX. **Multivariate Approaches in Quantitative Structure–Property Relationships Study for the Photostability Assessment of 1,4-Dihydropyridine Derivatives**
Chieffallo M., De Luca M., Grande F., Occhiuzzi M. A., GÜNDÜZ M. G., Garofalo A., Ioele G.
Pharmaceutics, cilt.16, sa.2, 2024 (SCI-Expanded)
- X. **Linking quinoline ring to 5-nitrofuranyl moiety via sulfonyl hydrazone bridge: Synthesis, structural characterization, DFT studies, and evaluation of antibacterial and antifungal activity**
DOĞAN Ş. D., Özcan E., ÇETİNKAYA Y., HAN M. İ., Şahin O., Bogojevic S. S., Nikodinovic-Runic J., GÜNDÜZ M. G.
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- XI. **Novel Quinoline-Based Thiosemicarbazide Derivatives: Synthesis, DFT Calculations, and Investigation of Antitubercular, Antibacterial, and Antifungal Activities.**
Özcan E., Vagolu S. K., Gündüz M. G., Stevanovic M., Kökbudak Z., Tønjum T., Nikodinovic-Runic J., Çetinkaya Y., Doğan Ş. D.
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- XII. **Preparation of nanosuspensions of a 1,4-dihydropyridine-based mixed L-/T-type calcium channel blocker by combined precipitation and ultrasonication methods**
PEZİK E., GÜLSÜN İNAL T., GÜNDÜZ M. G., ŞAHİN S., ÖZTÜRK N., VURAL İ.
Journal of Drug Delivery Science and Technology, cilt.87, 2023 (SCI-Expanded)
- XIII. **Semicarbazides Carrying Indole Core: Synthesis, Cytotoxicity Evaluation against Human Breast Cancer Cell Lines, and Molecular Modeling Studies**
Çelik B., Buran Uğur S., BARAN M., GÜNDÜZ M. G., Keskin S., ÖNDER G. Ö., BİTGEN N., Kaya S., DOĞAN Ş. D.
Chemistry and Biodiversity, cilt.20, sa.8, 2023 (SCI-Expanded)
- XIV. **Synthesis and Evaluation of Novel Metacetamol Derivatives with Hydrazone Moiety as Anticancer and Antimicrobial Agents**
Şenkardeş S., Atlıhan İ., Çayır E., Mega Tiber P., Orun O., Nigiz Ş., Özkul C., Gündüz M. G., Küçükgülzel Ş. G.
Chemistry and Biodiversity, cilt.20, sa.8, 2023 (SCI-Expanded)
- XV. **Investigation of Antimicrobial, Anti-Quorum Sensing, and Cytotoxic Activities of Flavonoids Isolated from Pulicaria armena Boiss. & Kotschy ex Boiss. (Asteraceae)**
Başpınar Y., GÜRBÜZ P., Dilem Doğan Ş., Gözde Gündüz M. G., Aleksic I., Vojnovic S., Nikodinovic-Runic J., Yavuz Paksoy M.
Chemistry and Biodiversity, cilt.20, sa.4, 2023 (SCI-Expanded)
- XVI. **Sulfonamides linked to sulfonate esters via hydrazone functionality: synthesis, human carbonic anhydrase inhibitory activities, and molecular modeling studies**
HAN M. İ., GÜNDÜZ M. G., Alçı G., Giovannuzzi S., YUVALI D., Supuran C. T., DOĞAN Ş. D.
New Journal of Chemistry, cilt.47, sa.9, ss.4267-4276, 2023 (SCI-Expanded)
- XVII. **Synthesis, antimicrobial properties and in silico studies of aryloxyacetic acid derivatives with hydrazone or thiazolidine-4-one scaffold**
ŞENKARDEŞ S., KART D., Bebek B., GÜNDÜZ M. G., Kucukguzel S. G.
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- XVIII. **Indole-based hydrazone derivatives: Synthesis, cytotoxicity assessment, and molecular modeling studies**
Keskin S., DOĞAN Ş. D., GÜNDÜZ M. G., Aleksic I., Vojnovic S., Lazic J., Nikodinovic-Runic J.
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- XIX. **Focusing on C-4 position of Hantzsch 1,4-dihydropyridines: Molecular modifications, enantioseparation, and binding mechanism to L- and T-type calcium channels**
Akman D., Denzinger K., Huang S., Lee J., Nafie J. W., Wolber G., Zamponi G. W., Armstrong D. W., GÜNDÜZ M. G.
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- XX. **Isoniazid Linked to Sulfonate Esters via Hydrazone Functionality: Design, Synthesis, and Evaluation of Antitubercular Activity**
KOÇAK ASLAN E., HAN M. İ., Krishna V. S., Tamhaev R., DENGİZ Ç., DOĞAN Ş. D., Lherbet C., Mourey L., Tønjum T., GÜNDÜZ M. G.
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- XXI. **Urea derivatives carrying a thiophenylthiazole moiety: Design, synthesis, and evaluation of antitubercular and InhA inhibitory activities**
Keleş Atıcı R., DOĞAN Ş. D., GÜNDÜZ M. G., Krishna V. S., Chebaiki M., Homberset H., Lherbet C., Mourey L., Tønjum T.
Drug Development Research, cilt.83, sa.6, ss.1292-1304, 2022 (SCI-Expanded)
- XXII. **Synthesis, antimicrobial evaluation and molecular modeling studies of novel thiosemicarbazides/semicarbazides derived from p-aminobenzoic acid**
İhsan Han M., İNCE U., GÜNDÜZ M. G., COŞKUN G. P., Birgül K., DOĞAN Ş. D., Küçükgülzel Ş. G.

- Journal of Molecular Structure, cilt.1261, 2022 (SCI-Expanded)
- XXIII. **Theoretical and experimental investigation of 1,4-dihydropyridine-based hexahydroquinoline-3-carboxylates: Photophysics and bovine serum albumin binding studies**
Camargo da Luz L., Gözde Gündüz M. G., Beal R., Modernell Zanotto G., Ramires Kuhn E., Augusto Netz P., Şafak C., Fernando Bruno Gonçalves P., da Silveira Santos F., Severo Rodembusch F.
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- XXIV. **Linking azoles to isoniazid via hydrazone bridge: Synthesis, crystal structure determination, antitubercular evaluation and computational studies**
KOÇAK ASLAN E., Krishna V. S., Armačić S. J., Armačić S., Şahin O., Tønjum T., GÜNDÜZ M. G.
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- XXV. **1,4-Dihydropyridine as a Promising Scaffold for Novel Antimicrobials Against Helicobacter pylori**
Gonzalez A., Casado J., Gunduz M. G., Santos B., Velazquez-Campoy A., Sarasa-Buisan C., Fillat M. F., Montes M., Piauelo E., Lanas A.
FRONTIERS IN MICROBIOLOGY, cilt.13, 2022 (SCI-Expanded)
- XXVI. **Isolation, Characterization and in Silico Studies of Secondary Metabolites from Jurinea macrocephala DC. with Antiproliferative Activity**
GÜRBÜZ P., DOĞAN Ş. D., GÜNDÜZ M. G., UZUN K., UZUNHİSARCIKLI E., AYCAN M. B.
CHEMISTRY & BIODIVERSITY, cilt.19, sa.4, 2022 (SCI-Expanded)
- XXVII. **Synthesis, Antimicrobial Evaluation, and Molecular Modeling Studies of New Thiosemicarbazide-Triazole Hybrid Derivatives of (S)-Naproxen**
HAN M. İ., İNCE U., GÜNDÜZ M. G., Küçükgülzel Ş. G.
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- XXVIII. **Isoquinolinedione-urea hybrids: Synthesis, antibacterial evaluation, drug-likeness, molecular docking and DFT studies**
HAN M. İ., DENGİZ Ç., Dogan S. D., GÜNDÜZ M. G., KÖPRÜ S., Ozkul C.
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- XXIX. **Attaching azoles to Hantzsch 1,4-dihydropyridines: Synthesis, theoretical investigation of nonlinear optical properties, antimicrobial evaluation and molecular docking studies**
GÜNDÜZ M. G., DENGİZ Ç., KOÇAK ASLAN E., Skaro Bogojevic S., Nikodinovic-Runic J.
JOURNAL OF MOLECULAR STRUCTURE, cilt.1247, 2022 (SCI-Expanded)
- XXX. **S-alkylated thiosemicarbazone derivatives: Synthesis, crystal structure determination, antimicrobial activity evaluation and molecular docking studies**
GÜNDÜZ M. G., Kaya B., ÖZKUL KOÇAK C., ŞAHİN O., Rekha E. M., Sriram D., ÜLKÜSEVEN B.
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- XXXI. **Synthesis and Laccase-Mediated Oxidation of New Condensed 1,4-Dihydropyridine Derivatives**
Milovanovic J., GÜNDÜZ M. G., Zerva A., Petkovic M., Beskoski V., Thomaidis N. S., Topakas E., Nikodinovic-Runic J.
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- XXXII. **Design, synthesis, antibacterial activity evaluation and molecular modeling studies of new sulfonamides containing a sulfathiazole moiety**
Meseli T., DOĞAN Ş. D., GÜNDÜZ M. G., KÖKBUDAK Z., Skaro Bogojevic S., Noonan T., Vojnovic S., Wolber G., Nikodinovic-Runic J.
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- XXXIII. **Copper-Oxone Promoted Oxidative C-H Functionalization: Synthesis of 2-Aminobenzothiazoles and Evaluation of Their Antimicrobial Activities**
DOĞAN Ş. D., GÜNDÜZ M. G., Ugur S. B., Dogan H., ÖZKUL KOÇAK C., ÇETİNKAYA Y.
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- XXXIV. **Crystal structure determination and computational studies of 1,4-dihydropyridine derivatives as selective T-type calcium channel blockers**
GÜNDÜZ M. G., Armačić S. J., DENGİZ Ç., Tahir M. N., Armačić S.
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- XXXV. **Use of Pluronic Surfactants in Gel Formulations of Photosensitive 1,4-Dihydropyridine Derivatives:**

A Potential Approach in the Treatment of Neuropathic Pain

Ioele G., Muzzalupo R., GÜNDÜZ M. G., De Luca M., Mazzotta E., Grande F., Occhiuzzi M. A., Garofalo A., Ragno G. PHARMACEUTICS, cilt.13, sa.4, 2021 (SCI-Expanded)

- XXXVI. **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, cilt.29, sa.3, ss.236-243, 2021 (SCI-Expanded)
- XXXVII. **M3, a 1,4-Dihydropyridine Derivative and Mixed L-/T-Type Calcium Channel Blocker, Attenuates Isoproterenol-Induced Toxicity in Male Wistar Rats**
Kale O. E., GÜNDÜZ M. G., Ogunbiyi B. T., Ogundare T. F., Ekor M., Awodele O. CARDIOVASCULAR TOXICOLOGY, cilt.20, sa.6, ss.627-640, 2020 (SCI-Expanded)
- XXXVIII. **1,3-Disubstituted urea derivatives: Synthesis, antimicrobial activity evaluation and in silico studies**
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- XXXIX. **Design and synthesis of thiourea-based derivatives as *Mycobacterium tuberculosis* growth and enoyl acyl carrier protein reductase (InhA) inhibitors**
DOĞAN Ş. D., GÜNDÜZ M. G., Dogan H., Krishna V. S., Lherbet C., Sriram D. EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, cilt.199, 2020 (SCI-Expanded)
- XL. **Discovery of hydrazone containing thiadiazoles as *Mycobacterium tuberculosis* growth and enoyl acyl carrier protein reductase (InhA) inhibitors**
Dogan H., DOĞAN Ş. D., GÜNDÜZ M. G., Krishna V. S., Lherbet C., Sriram D., Sahin O., Saripmar E. EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, cilt.188, 2020 (SCI-Expanded)
- XLI. **Electrochemical Studies of Newly Synthesized 1,4-Dihydropyridine-Based Hexahydroquinoline Derivatives**
Tavakkoli Z., Goljani H., GÜNDÜZ M. G., Tahir M. N., Nematollahi D. JOURNAL OF THE ELECTROCHEMICAL SOCIETY, cilt.167, sa.12, 2020 (SCI-Expanded)
- XLII. **Molecular dynamics, viscoelastic properties and physical stability studies of a new amorphous dihydropyridine derivative with T-type calcium channel blocking activity**
Knapik-Kowalczyk J., GÜNDÜZ M. G., Chmiel K., Jurkiewicz K., Kurek M., Tajber L., Jachowicz R., Paluch M. EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES, cilt.141, 2020 (SCI-Expanded)
- XLIII. **Synthesis of Disulfide-Bridged N-Phenyl-N'-(alkyl/aryl/heteroaryl)urea Derivatives and Evaluation of Their Antimicrobial Activities**
Dilem Dogan S., Buran S., Gozde Gunduz M. G., Ozkul C., Siva Krishna V., Sriram D. CHEMISTRY & BIODIVERSITY, 2019 (SCI-Expanded)
- XLIV. **Discovery of Michael acceptor containing 1,4-dihydropyridines as first covalent inhibitors of L-/T-type calcium channels**
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- XLV. **Design, synthesis and computational analysis of novel acridine-(sulfadiazine/sulfathiazole) hybrids as antibacterial agents**
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- XLVI. **Direct Enantiomeric Resolution of Seventeen Racemic 1,4-Dihydropyridine-Based Hexahydroquinoline Derivatives by HPLC**
Sun J., GÜNDÜZ M. G., Zhang J., Yu J., Guo X. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, cilt.20, sa.10, 2019 (SCI-Expanded)
- XLVII. **Bioactivity-Guided Isolation of Anti-Inflammatory Principles from *Cistus parviflorus* Lam.**
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- XLVIII. A New Generation of Dihydropyridine Calcium Channel Blockers: Photostabilization of Liquid Formulations Using Nonionic Surfactants**
Ioele G., GÜNDÜZ M. G., SPATARI C., DE LUCA M., GRANDE F., RAGNO G.
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- XLIX. Synthesis of fused 1,4-dihydropyridines as potential calcium channel blockers**
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- L. Binding mechanism investigations guiding the synthesis of novel condensed 1,4-dihydropyridine derivatives with L-/T-type calcium channel blocking activity**
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EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, cilt.155, ss.1-12, 2018 (SCI-Expanded)
- LI. Synthesis, crystal structure and antimycobacterial activities of 4-indolyl-1,4-dihydropyridine derivatives possessing various ester groups**
BAYDAR E., GÜNDÜZ M. G., KRİSHNA V. S., ŞİMŞEK R., SRİRAM D., Yildirim S. O., Butcher R. J., Safak C.
RESEARCH ON CHEMICAL INTERMEDIATES, cilt.43, sa.12, ss.7471-7489, 2017 (SCI-Expanded)
- LII. Theoretical and experimental study of the ground and excited states of 1,4-dihydropyridine based hexahydroquinoline derivatives achieved by microwave irradiation**
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NEW JOURNAL OF CHEMISTRY, cilt.41, sa.20, ss.11686-11694, 2017 (SCI-Expanded)
- LIII. Synthesis and photodegradation studies of analogues of muscle relaxant 1,4-dihydropyridine compounds**
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- LIV. Free radicals properties of some gamma-irradiated organic compounds**
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BULGARIAN CHEMICAL COMMUNICATIONS, cilt.49, sa.1, ss.82-86, 2017 (SCI-Expanded)
- LV. Synthesis and Biological Evaluation of New Tricyclic Dihydropyridine Based Derivatives on Potassium Channels**
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Iranian Journal Of Pharmaceutical Research, 2016 (SCI-Expanded)
- LVI. Synthesis, structural characterization and myorelaxant activity of 4-naphthylhexahydroquinoline derivatives containing different ester groups**
GÜNDÜZ M. G., ALBAYRAK E., Isli F., Fincan G. S. O., Yildirim S., ŞİMŞEK R., Safak C., Sarioglu Y., Yidirim S. O., Butcher R. J.
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- LVII. Photodegradation studies of 1,4-dihydropyridine compounds by MCR analysis on UV spectral data**
Ioele G., GÜNDÜZ M. G., DE LUCA M., ŞİMŞEK R., Safak C., MUZZALUPO R., RAGNO G.
FUTURE MEDICINAL CHEMISTRY, cilt.8, sa.2, ss.107-115, 2016 (SCI-Expanded)
- LVIII. Analgesic effect of a broad-spectrum dihydropyridine inhibitor of voltage-gated calcium channels**
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- LIX. 1,4-Dihydropyridine derivatives with T-type calcium channel blocking activity attenuate inflammatory and neuropathic pain**
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Metrikler

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Atıf (WoS): 485

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H-İndeks (WoS): 13

H-İndeks (Scopus): 14

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