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### Eğitim Bilgileri

Doktora, Anadolu Üniversitesi, SAĞLIK BİLİMLERİ ENSTİTÜSÜ, Farmasötik Kimya (Dr), Türkiye 2005 - 2009

Yüksek Lisans, Anadolu Üniversitesi, SAĞLIK BİLİMLERİ ENSTİTÜSÜ, Farmasötik Kimya (YI) (Tezli), Türkiye 2002 - 2004

Lisans, Anadolu Üniversitesi, ECZACILIK FAKÜLTESİ, Eczacılık Pr., Türkiye 1999 - 2003

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### Araştırma Alanları

Farmasötik Kimya

### Akademik Unvanlar / Görevler

Prof. Dr., Anadolu Üniversitesi, ECZACILIK FAKÜLTESİ, ECZACILIK MESLEK BİLİMLERİ BÖLÜMÜ, 2018 - Devam Ediyor

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- I. **Synthesis of new piperazine-oxadiazole derivatives and investigation of their anticancer activities**  
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- II. **Metabolic engineering of *Saccharomyces cerevisiae* for enhanced taxadiene production**  
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- IV. **Synthesis, Characterization, and *In vitro* and *In Silico* Studies of New Triazole Derivatives as Aromatase Inhibitors**  
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- V. **Design, Synthesis, Investigation, and Biological Activity Assessments of (4-Substituted-Phenyl)-*N*-(3-morpholinopropyl)-3-phenylthiazol-2(3*H*)-imine Derivatives as Antifungal Agents**  
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- VII. **Development and assessment of novel pyrazole-thiadiazol hybrid derivatives as VEGFR-2 inhibitors: design, synthesis, anticancer activity evaluation, molecular docking, and molecular dynamics simulation**  
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- VIII. **Design, synthesis, and investigation of biological activities of new triazole derivatives with antifungal effect**  
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- IX. **Selective in vitro Synergistic Evaluation of Probiotic Tolerant morpholinyl- and 4-ethylpiperazinyl-Imidazole-chalcone Derivatives on Gastrointestinal System Pathogens**  
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- X. **New benzimidazole-oxadiazole derivatives as potent VEGFR-2 inhibitors: Synthesis, anticancer evaluation, and docking study**  
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- XI. ***In Vitro* Enzyme Activity and Molecular Docking Studies of Pyrazoline Derivatives as Monoamine Oxidase Inhibitors**  
Sakarya M. T., Gul H. I., Yamali C., ÖZKAY Y., Tok T. T.  
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- XII. **Synthesis, DFT Calculations, *In Silico* Studies, and Antimicrobial Evaluation of Benzimidazole-Thiadiazole Derivatives**  
Isik A., ACAR ÇEVİK U., Karayel A., Ahmad I., Patel H., ÇELİK İ., GÜL Ü. D., Bayazit G., BOSTANCI H. E., Kocak A., et al.  
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- XIII. **New Benzimidazole-Triazole Derivatives as Topoisomerase I Inhibitors: Design, Synthesis, Anticancer Screening, and Molecular Modeling Studies**  
Acar Çevik U., Çavuşoğlu B. K., Çelik İ., Rudrapal M., Rakshit G., Karayel A., Levent S., Osmaniye D., Sağlık Özkan B. N., Baysal M., et al.  
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- XIV. **Design, Synthesis, and Biological Effect Studies of Novel Benzofuran-Thiazolyldrazone Derivatives as Monoamine Oxidase Inhibitors**  
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- XV. **Synthesis, characterization, biological evaluation and in silico studies of novel 1,3,4-thiadiazole derivatives as aromatase inhibitors**  
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- XVI. **Design, synthesis and biological evaluation of novel ketone derivatives containing benzimidazole and 1,3,4-triazole as CA inhibitors**  
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- XVII. **Design, synthesis, and molecular docking studies of benzimidazole-1,3,4-triazole hybrids as carbonic anhydrase I and II inhibitors**  
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- XVIII. **Design, synthesis, evaluation of biological activities and molecular docking and dynamic studies of**

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- XIX. **Design, synthesis, biological activities, and evaluation of molecular docking-dynamics studies of new thiosemicarbazones that may be effective against Alzheimer's disease**  
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- XX. **Synthesis of Imidazole-Thiazole Derivatives as Acetylcholinesterase and Butyrylcholinesterase Inhibitory Activities**  
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- XXI. **Design, synthesis, molecular docking and molecular dynamic studies of novel benzimidazole-thiazole derivatives as potent and selective COX-2 inhibitors**  
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- XXII. **Development of Some Antiplatelet Salts as Drug Active Ingredients and Investigation Biological Activities**  
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- XXIV. **Synthesis and Biological Evaluation of Benzoxazolone-Thiosemicarbazide, 1,2,4-Triazole, 1,3,4-Thiadiazole Derivatives as Cholinesterase Inhibitors**  
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- XXV. **Synthesis of Imidazole-2,3-dihydrothiazole Compounds as VEGFR-2 Inhibitors and Their Support with in Silico Studies**  
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- XXVI. **Synthesis of novel thiazol-2(3H)-imine derivatives as ergosterol biosynthesis inhibitors, and elucidation of their structures using a 2D NMR technique**  
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- XXVII. **Synthesis and Anticancer Activities of Pyrazole-Thiadiazole-Based EGFR Inhibitors**  
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- XXVIII. **Design, synthesis, and molecular docking studies of novel quinoxaline derivatives as anticancer agents**  
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- XXIX. **Synthesis of new compounds bearing methyl sulfonyl pharmacophore as selective COX-2 inhibitor**  
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- XXX. **Synthesis, Antifungal Activities, Molecular Docking and Molecular Dynamic Studies of Novel Quinoxaline-Triazole Compounds**  
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- XXXI. **New benzimidazole-oxadiazole derivatives: Synthesis, alpha-glucosidase, alpha-amylase activity, and**

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- XXXII. **New imidazole derivatives as aromatase inhibitor: Design, synthesis, biological activity, molecular docking, and computational ADME-Tox studies**  
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- XXXIV. **Synthesis of Benzimidazole-1,2,4-triazole Derivatives as Potential Antifungal Agents Targeting 14 alpha-Demethylase**  
Guzel E., ACAR ÇEVİK U., EVREN A. E., BOSTANCI H. E., GÜL Ü. D., KAYIŞ U., ÖZKAY Y., KAPLANCIKLI Z. A.  
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- XXXV. **Novel thiadiazol derivatives; design, synthesis, biological activity, molecular docking and molecular dynamics**  
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- XXXVI. **Design, synthesis, molecular modeling, DFT, ADME and biological evaluation studies of some new 1,3,4-oxadiazole linked benzimidazoles as anticancer agents and aromatase inhibitors**  
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- XXXVIII. **Synthesis and Molecular Docking of New N-Acyl Hydrazones-Benzimidazole as hCA I and II Inhibitors**  
Kucukoglu K., ACAR ÇEVİK U., NADAROĞLU H., ÇELİK İ., Isik A., BOSTANCI H. E., ÖZKAY Y., KAPLANCIKLI Z. A.  
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- XXXIX. **Design, synthesis and molecular docking and ADME studies of novel hydrazone derivatives for AChE inhibitory, BBB permeability and antioxidant effects**  
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- XL. **Investigation of Novel Quinoline-Thiazole Derivatives as Antimicrobial Agents: In Vitro and In Silico Approaches**  
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- XLI. **Synthesis, biological evaluation and in silico studies of novel thiadiazole-hydrazone derivatives for carbonic anhydrase inhibitory and anticancer activities**  
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- XLII. **Design, Synthesis, and In Vitro and In Silico Approaches of Novel Indanone Derivatives as Multifunctional Anti-Alzheimer Agents**  
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- XLIII. **Synthesis, Molecular Docking, Dynamics, Quantum-Chemical Computation, and Antimicrobial Activity Studies of Some New Benzimidazole-Thiadiazole Hybrids**  
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- XLIV. **Synthesis of novel thiosemicarbazone derivatives and investigation of their dual AChE and MAO-B inhibitor effects**  
Uytun A. N., OSMANİYE D., SAĞLIK B. N., LEVENT S., ÖZKAY Y., KAPLANCIKLI Z. A.  
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- XLV. **Benzimidazole-hydrazone derivatives: Synthesis, in vitro anticancer, antimicrobial, antioxidant activities, in silico DFT and ADMET studies**  
Isik A., Cevik U., ÇELİK İ., BOSTANCI H. E., KARAYEL A., Gundogdu G., İNCE U., KOÇAK A., ÖZKAY Y., KAPLANCIKLI Z. A.  
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- XLVI. **Synthesis, characterization, molecular docking, dynamics simulations, and in silico absorption, distribution, metabolism, and excretion (ADME) studies of new thiazolyhydrazone derivatives as butyrylcholinesterase inhibitors**  
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- XLVII. **Synthesis of new derivatives containing pyridine, investigation of MAO inhibitory activities and molecular docking studies**  
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- XLVIII. **Design, synthesis, biological activity evaluation and in silico studies of new nicotinothiazide derivatives as multi-targeted inhibitors for Alzheimer's disease**  
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- XLIX. **Design, synthesis and molecular docking studies of novel benzimidazole-1,3,4-oxadiazole hybrids for their carbonic anhydrase inhibitory and antioxidant effects**  
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- L. **N-Substituted Arylidene-3-(Methylsulfonyl)-2-Oxoimidazolidine-1-Carbohydrazone as Cholinesterase Inhibitors: Design, Synthesis, and Molecular Docking Study**  
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- LI. **Design, synthesis, and biological activity of novel dithiocarbamate-methylsulfonyl hybrids as carbonic anhydrase inhibitors**  
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- LII. **Synthesis of New Pyrimidine-Triazole Derivatives and Investigation of Their Anticancer Activities**  
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- LIII. **Synthesis of novel benzothiazole derivatives and investigation of their enzyme inhibitory effects against Alzheimer's disease**  
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- LIV. **Synthesis of Some 2-Substituted-5-(Benzothiazol-2-yl)-1H-Benzimidazole Derivatives and Investigation of Their Antiproliferative Effects**  
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- LV. **Thiazole inhibitors of  $\alpha$ -glucosidase: Positional isomerism modulates selectivity, enzyme binding and potency of inhibition**

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- LVI. **Design, synthesis, molecular docking and molecular dynamics studies of novel triazolothiadiazine derivatives containing furan or thiophene rings as anticancer agents**  
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- LVII. **Novel imidazole derivatives as potential aromatase and monoamine oxidase-B inhibitors against breast cancer**  
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- LVIII. **Design, Synthesis, and Evaluation of Novel 2H-Benzo[b][1,4]thiazin-3(4H)-one Derivatives as New Acetylcholinesterase Inhibitors**  
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- LIX. **Synthesis and biological evaluation of novel 1,3,4-oxadiazole derivatives as anticancer agents and potential EGFR inhibitors**  
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- LX. **Design and synthesis of novel chalcone derivatives and evaluation of their inhibitory activities against acetylcholinesterase**  
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- LXI. **Synthesis, molecular modeling, quantum mechanical calculations and ADME estimation studies of benzimidazole-oxadiazole derivatives as potent antifungal agents**  
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- LXIII. **Design, synthesis, biological activity, molecular docking, and molecular dynamics of novel benzimidazole derivatives as potential AChE/MAO-B dual inhibitors**  
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- LXV. **Design, synthesis, in vitro, and in silico studies of 1,2,4-triazole-piperazine hybrid derivatives as potential MAO inhibitors**  
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- LXVII. **Design, Synthesis and Biological Evaluation of New N-Acyl Hydrazones with a Methyl Sulfonyl Moiety as Selective COX-2 Inhibitors**  
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- LXVIII. **Design, synthesis, in vitro and in silico studies of some novel thiazole-dihydrofuran derivatives as aromatase inhibitors**  
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- LXIX. **Synthesis of new hydrazone derivatives and evaluation of their monoamine oxidase inhibitory activity**  
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- LXXII. **Design, synthesis, biological evaluation, and docking studies of some novel chalcones as selective COX-2 inhibitors**  
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- LXXIV. **Phenothiazine-based chalcones as potential dual-target inhibitors toward cholinesterases (AChE, BuChE) and monoamine oxidases (MAO-A, MAO-B)**  
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- LXXV. **Synthesis of some new benzoxazole derivatives and investigation of their anticancer activities**  
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- LXXVI. **Synthesis and biological evaluation of novel 1,3,4-thiadiazole derivatives as possible anticancer agents**  
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- LXXIX. **Design, Synthesis, In Vitro and In Silico Studies of New Thiazolyldiazine-Piperazine Derivatives as Selective MAO-A Inhibitors**  
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- LXXX. **Design, Synthesis, and Structure-Activity Relationships of Thiazole Analogs as Anticholinesterase Agents for Alzheimer's Disease**  
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- LXXXI. **Synthesis, investigation of biological effects and in silico studies of new benzimidazole derivatives as aromatase inhibitors**  
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- LXXXII. **Design, Synthesis, and Biological Activity Evaluation of New Donepezil-Like Compounds Bearing Thiazole Ring for the Treatment of Alzheimer's Disease**  
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- LXXXIII. **Synthesis, characterization and carbonic anhydrase I and II inhibitory evaluation of new sulfonamide derivatives bearing dithiocarbamate**  
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- LXXXIV. **Synthesis and monoamine oxidase A/B inhibitory evaluation of new benzothiazole-thiazolylhydrazine derivatives**  
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- LXXXV. **Multifunctional quinoxaline-hydrazone derivatives with acetylcholinesterase and monoamine oxidases inhibitory activities as potential agents against Alzheimer's disease**  
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- LXXXVI. **Synthesis of new benzothiazole derivatives bearing thiadiazole as monoamine oxidase inhibitors**  
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- LXXXVII. **Synthesis and docking study of benzimidazole-triazolothiadiazine hybrids as aromatase inhibitors**  
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- LXXXVIII. **Synthesis, Docking Studies and Biological Activity of New Benzimidazole- Triazolothiadiazine Derivatives as Aromatase Inhibitor**  
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- LXXXIX. **Synthesis and characterization of a new series of thiadiazole derivatives as potential anticancer agents**  
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- XC. **Synthesis, in vitro enzyme activity and molecular docking studies of new benzylamine-sulfonamide derivatives as selective MAO-B inhibitors**  
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- XCI. **Synthesis of novel benzimidazole-oxadiazole derivatives as potent anticancer activity**  
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- XCII. **Synthesis and evaluation of new pyrazoline-thiazole derivatives as monoamine oxidase inhibitors**  
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- XCIII. **Synthesis, molecular docking analysis and carbonic anhydrase I-II inhibitory evaluation of new sulfonamide derivatives**  
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- XCIV. **Synthesis and biological evaluation of some new Mannich bases with piperazines as possible anticancer agents and carbonic anhydrase inhibitors**  
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- XCV. **Novel imidazole derivatives as antifungal agents: Synthesis, biological evaluation, ADME prediction and molecular docking studies**  
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- XCVI. **Synthesis and AChE Inhibitory Activity of Novel Thiazolyhydrazone Derivatives**  
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- XCVII. **In vitro and in silico evaluation of new thiazole compounds as monoamine oxidase inhibitors**  
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- XCIX. **Synthesis and biological evaluation of new pyrazolone Schiff bases as monoamine oxidase and cholinesterase inhibitors**  
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- C. **Synthesis, Characterization, and Molecular Docking Study of Some Novel Imidazole Derivatives as Potential Antifungal Agents**  
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- CI. **Synthesis and Antifungal Potential of Some Novel Benzimidazole-1,3,4-Oxadiazole Compounds**  
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- CII. **Synthesis and Evaluation of New 1,3,4-Thiadiazole Derivatives as Potent Antifungal Agents**  
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- CIII. **Synthesis and Biological Evaluation of New Cholinesterase Inhibitors for Alzheimer's Disease**  
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- CVII. **Design, synthesis, monoamine oxidase inhibition and docking studies of new dithiocarbamate derivatives bearing benzylamine moiety**  
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- CVIII. **Synthesis and Evaluation of Heterocycles Based Chalcone Derivatives as Anti-proliferative Agents**  
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- CX. **Synthesis and Biological Evaluation of New Thiosemicarbazone Derivative Schiff Bases as Monoamine Oxidase Inhibitory Agents**  
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- LXXVIII. **Synthesis, Characterization and Molecular Docking Study of Some Novel Fluroquinolone Derivatives as Potential DNA Gyrase Inhibitors**  
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- LXXIX. **Synthesisi charecterization and molecular docking study of some novel fluroquinolone derivatives**

**as potential DNA gyrase inhibitors**

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- LXXX. **Synthesis of Some Novel Benzothiazole Derivatives As Anticancer Agents**  
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Özsümen A., DEMİR MÜLAZIMOĞLU A., MERCİMEK B., YILMAZ E., ÖZCAN S., CAN N. Ö., ÖZKAY Y., MÜLAZIMOĞLU İ. E.  
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- LXXXV. **A Novel HNPC modified Carbon Based Electrode: Preparation, Characterization and Detection stability in Different Media**  
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Çetin B., MÜLAZIMOĞLU İ. E., YILMAZ E., ÖZCAN S., CAN N. Ö., ÖZKAY Y., MERCİMEK B., DEMİR MÜLAZIMOĞLU A.  
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- LXXXVIII. **N-Aril-2-(4-sübstitüe piperidin-1-il)asetamit türevlerinin kolinesteraz enzimleri üzerine etkilerinin incelenmesi**  
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- LXXXIX. **Yeni 2-(4-sübstitüefenil)propiyonik asit türevlerinin COX enzimleri üzerindeki etkilerinin araştırılması**  
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- XCI. **SYNTHESIS AND EVALUATION OF A SERIES OF BENZOXAZOLE DERIVATIVES AS NEW ANTICANCER AGENTS**  
ALTINTOP M. D., AKALIN ÇİFTÇİ G., ÖZKAY Y.  
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- XCII. **Analysis of parabensin protein based food supplements**  
ACAR U., LEVENT S., ÖZKAY Y.

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- XCIII. **Synthesis of new donepezil analogues and evaluation of their cholinesterase inhibitory activity**  
SAĞLIK B. N., ILGIN S., ÖZKAY Y.

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- XCIV. **Synthesis of New Indan 1 one piperazine Derivatives as Anticholinesterase Agents**  
ÖZKAY Y.

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- XCV. **Cytotoxic Apoptotic and DNA Synthesis Inhibitory Effects of New Quinoxaline Derivatives**  
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- XCVIII. **ACETHYLCHOLINESTERASE INHIBITORY POTENCY OF NOVEL TETRASUBSTITUTED IMIDAZOLE DERIVATIVES**

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- XCIX. **Synthesis And Antimicrobial Activity Evaluation Of Some 2 4 1h Imidazol 1 Yl Phenyl Amino 2 Oxoethyl Substituted Piperidine Piperazine 1 Carbodithioate**

DERYA O., ACAR U., SAĞLIK B. N., ÖZKAY Y., JUAN B., DEMİRCİ F.

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- C. **Acetylcholinesterase inhibitory potency of novel tetrasubstitued imidazole derivatives**

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- CII. **Design nnd Synthesis of Novel Acetylcholinesterase Enzyme Inhibitors Based on Structural Similarity to Donepezil and Carboxylic Acid Induced Enzyme Immobilization**

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- CVIII. **A fast, applied, practicable way for synthesis of amide derivatives using silica gel**  
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UZUN B., UÇUCU Ü., ÖZKAY Y., DİKMEN M., ACAR U.  
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- CX. **Synthesis Of New Benzimidazole Derivatives Including Nifuroxazide Analoges And Investigation Of Their Antimicrobial Effects**  
ACAR U., ÖZKAY Y., JUAN B., CANTÜRK Z., DEMİRCİ F.  
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- CXIII. **SYNTHESIS of NEW BENZIMIDAZOLE DERIVATIVES INCLUDINGNIFUROXAZIDE ANALOGES and INVESTIGATION of THEIR ANTIMICROBIALEFFECTS**  
ACAR U., ÖZKAY Y., Bueno J., CANTÜRK Z., DEMİRCİ F.  
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- CXXVIII. **DESING SYNTHESIS AND BIOLOGICAL EVALUATION OF SOME PIPERAZINE DITHIOCARBAMATE DERIVATIVES AS CHOLINESTERASE INHIBITORS**  
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- CXXX. **Design Synthesis and Biological Evaluation of Some Piperazinedithiocarbamate Derivatives as Cholinesterase Inhibitors**  
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- CXXXI. **Synthesis and Anticholinesterase Activity of Novel Imidazole Derivatives**  
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- CXXXII. **Synthesis of some novel thiadiazole derivatives andevaluation of their antidepressant likeeffects in mice**  
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- CXXXIII. **Design Synthesis And Biological Evolution of Some 2 5 Substituted Benzothiazol 2 ylsulfanyl N Substitutedbenzyl N 4 Substitutedphenyl Acetamide Derivatives As Monoamine Oxidase Inhibitors**  
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- CXXXIV. **Synthesis and Cholinesterase Inhibitory Potentiol of New 1 4 4 substitutedpiperazine 1 yl phenyl 3 phenylprop 2 en 1 one Derivatives**  
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## Desteklenen Projeler

SELLER Z., ÖZKAY Y., Bazı 2 sübtitüye N 4 1 metil 4 5 difenil 1H imidazol 2 il fenil asetamid türevlerinin sentezleri ve antikanser aktivitelerinin araştırılması üzerine çalışmalar, Devam Ediyor

SELLER Z., ÖZKAY Y., Bazı 2 2 disübtitü 1H 1H 5 5 bis benzimidazol türevleri ve 2 3 2 3 tetrasübtitü 6 6 bis kinoksalin türevlerinin sentezleri yapı aydınlatmaları ve antiproliferatif ve sitotoksik etkilerinin araştırması üzerine çalışmalar, Devam Ediyor

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