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Education Information

Doctorate, Ankara University, Sağlık Bilimleri Enstitüsü, Farmasötik Kimya (Dr), Turkey 2004 - 2009

Postgraduate, Ankara University, Sağlık Bilimleri Enstitüsü, Farmasötik Kimya (YI) (Tezli), Turkey 2001 - 2004

Undergraduate, Ankara University, Eczacılık Fakültesi, Eczacılık Pr., Turkey 1997 - 2001

Dissertations

Doctorate, Yeni retinoid bileşiklerinin tasarlanması, sentezi, yapı aydınlatılması, biyolojik etki tayini ve yapı -Aktivite çalışmaları, Ankara University, Sağlık Bilimleri Enstitüsü, Farmasötik Kimya (Dr), 2009

Postgraduate, Heterosiklik yapıdaki bazı bileşiklerin sentezi, yapı aydınlatılması ve biyolojik etki çalışmaları, Ankara University, Sağlık Bilimleri Enstitüsü, Farmasötik Kimya (YI) (Tezli), 2004

Research Areas

Pharmaceutical Chemistry

Academic Titles / Tasks

Associate Professor, Ankara University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 2017 - Continues

Associate Professor, Ankara University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 2015 - 2017

Research Assistant, Ankara University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 2002 - 2015

Published journal articles indexed by SCI, SSCI, and AHCI

- Nilotinib exhibits less toxicity than imatinib and influences the immune state by modulating iNOS, p-p38 and p-JNK in LPS/IFN gamma-activated macrophages.**
Karabay A. Z., Ozkan T., Koc A., Hekmatshoar Y., Gurkan-Alp A. S., Sunguroglu A.
Toxicology in vitro : an international journal published in association with BIBRA, pp.105754, 2023 (SCI-

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- II. **Some 2-[4-(1H-benzimidazol-1-yl) phenyl]-1H-benzimidazole derivatives overcome imatinib resistance by induction of apoptosis and reduction of P-glycoprotein activity**
Hekmatshoar Y, Ozkan T, Alp M., Gurkan-Alp A. S., Sunguroglu A.
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- III. **Novel indole retinoid derivative induces apoptosis and cell cycle arrest and modulates AKT and ERK signaling in HL-60 cells**
Gurkan-Alp A. S., Karabay A. Z., KOÇ A., Buyukbingol E.
FUNDAMENTAL & CLINICAL PHARMACOLOGY, vol.37, no.3, pp.557-565, 2023 (SCI-Expanded)
- IV. **Synthesis of Some Benzimidazole-derived Molecules and their Effects on PARP-1 Activity and MDA-MB-231, MDA-MB-436, MDA-MB-468 Breast Cancer Cell Viability**
Gurkan-Alp A. S., Alp M., Karabay A. Z., Koç A., Buyukbingol E.
ANTI-CANCER AGENTS IN MEDICINAL CHEMISTRY, vol.20, no.14, pp.1728-1738, 2020 (SCI-Expanded)
- V. **Three-Dimensional Analysis of Binding Sites for Predicting Binding Affinities in Drug Design**
Erdas-Cicek O, Atac A. O., Gurkan-Alp A. S., Buyukbingol E., ALPASLAN F. N.
JOURNAL OF CHEMICAL INFORMATION AND MODELING, vol.59, no.11, pp.4654-4662, 2019 (SCI-Expanded)
- VI. **Design, synthesis and docking studies of benzimidazole derivatives as potential EGFR inhibitors**
ÇELİK İ., KILCIGİL G., GÜVEN B., Kara Z., Gurkan-Alp A. S., KARAYEL A., BEŞİKCİ A.
EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, vol.173, pp.240-249, 2019 (SCI-Expanded)
- VII. **Apoptotic Effects of Some Tetrahydronaphthalene Derivatives on K562 Human Chronic Myelogenous Leukemia Cell Line**
KOÇ A., ÖZKAN T., Hekmatshoar Y., Gurkan-Alp A. S., AKTAN F., Buyukbingol Z., SUNGUROĞLU A., Buyukbingol E., KARABAY A. Z.
ANTI-CANCER AGENTS IN MEDICINAL CHEMISTRY, vol.17, no.14, pp.1924-1930, 2017 (SCI-Expanded)
- VIII. **Retinoid N-(1H-benzo[d]imidazol-2-yl)-5,5,8,8-tetramethyl-5,6,7,8-tetrahydronaphthalene-2-carboxamide induces p21-dependent senescence in breast cancer cells**
Mumcuoglu M., Gurkan-Alp A. S., Buyukbingol E., Cetin-Atalay R.
STEROIDS, vol.108, pp.31-38, 2016 (SCI-Expanded)
- IX. **Synthesis and anticancer effects of some novel 2-(4-phenoxyphenyl)-1H-benzimidazole derivatives on K562 cell line**
Gurkan-Alp A. S., GÖKER A. H., ALP M., ÖZKAN T., SUNGUROĞLU A.
ARCHIVES OF PHARMACAL RESEARCH, vol.38, no.5, pp.650-658, 2015 (SCI-Expanded)
- X. **Inhibitory effects of indole alpha-lipoic acid derivatives on nitric oxide production in LPS/IFN gamma activated RAW 264.7 macrophages**
KARABAY A. Z., KOÇ A., Gurkan-Alp A. S., Buyukbingol Z., Buyukbingol E.
CELL BIOCHEMISTRY AND FUNCTION, vol.33, no.3, pp.121-127, 2015 (SCI-Expanded)
- XI. **Synthesis and antiproliferative evaluation of novel 5-(4-methylpiperazin-1-yl)-2-phenyl-1H-benzimidazole derivatives**
ALP M., Gurkan-Alp A. S., ÖZKAN T., SUNGUROĞLU A.
ZEITSCHRIFT FÜR NATURFORSCHUNG SECTION C-A JOURNAL OF BIOSCIENCES, vol.70, no.3-4, pp.79-85, 2015 (SCI-Expanded)
- XII. **Synthesis and evaluation of antioxidant activities of novel 1,3,4-oxadiazole and imine containing 1H-benzimidazoles**
ALP A. S., KILCIGİL G., ÖZDAMAR E. D., ÇOBAN T., EKE B.
TURKISH JOURNAL OF CHEMISTRY, vol.39, no.1, pp.42-53, 2015 (SCI-Expanded)
- XIII. **Compressed images for affinity prediction-2 (CIFAP-2): an improved machine learning methodology on protein-ligand interactions based on a study on caspase 3 inhibitors**
Erdas O., Andac C. A., Gurkan-Alp A. S., ALPASLAN F. N., Buyukbingol E.
JOURNAL OF ENZYME INHIBITION AND MEDICINAL CHEMISTRY, vol.30, no.5, pp.809-815, 2015 (SCI-Expanded)
- XIV. **Synthesis and Biological Evaluation of a Series of Dithiocarbamates as New Cholinesterase Inhibitors**

- ALTINTOP M. D., Gurkan-Alp A. S., ÖZKAY Y., KAPLANCIKLI Z. A.
ARCHIV DER PHARMAZIE, vol.346, no.8, pp.571-576, 2013 (SCI-Expanded)
- XV. **Aldose Reductase Inhibitory Potential of Several Thiazolyl-thiazolidine-2,4-Diones**
Das-Evcimen N., Sarikaya M., Gurkan-Alp A. S., BOZDAĞ DÜNDAR O.
LETTERS IN DRUG DESIGN & DISCOVERY, vol.10, no.5, pp.415-419, 2013 (SCI-Expanded)
- XVI. **Compressed images for affinity prediction (CIFAP): a study on predicting binding affinities for checkpoint kinase 1 protein inhibitors**
Erdas O., Andac C. A., Gurkan-Alp A. S., ALPASLAN F. N., Buyukbingol E.
JOURNAL OF CHEMOMETRICS, vol.27, no.6, pp.155-164, 2013 (SCI-Expanded)
- XVII. **Synthesis, anticancer activities and molecular modeling studies of novel indole retinoid derivatives**
Gurkan-Alp A. S., Mumcuoglu M., Andac C. A., Dayanc E., Cetin-Atalay R., Buyukbingol E.
EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, vol.58, pp.346-354, 2012 (SCI-Expanded)
- XVIII. **Synthesis and Evaluation of Antioxidant Properties of Novel 2-[2-(4-chlorophenyl) benzimidazole-1-yl]-N-(2-arylmethylene amino) acetamides and 2-[2-(4-chlorophenyl) benzimidazole-1-yl]-N-(4-oxo-2-aryl-thiazolidine-3-yl) acetamides-I**
KILCIGİL G., Gurkan S., ÇOBAN T., ÖZDAMAR E. D., EKE B.
CHEMICAL BIOLOGY & DRUG DESIGN, vol.79, no.5, pp.869-877, 2012 (SCI-Expanded)
- XIX. **Synthesis and effects of some novel tetrahydronaphthalene derivatives on proliferation and nitric oxide production in lipopolysaccharide activated Raw 264.7 macrophages**
Gurkan A. S., KARABAY A. Z., Buyukbingol Z., Buyukbingol E.
EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, vol.46, no.2, pp.468-479, 2011 (SCI-Expanded)
- XX. **Scavenging of superoxide anion radical and hydroxyl radical by novel thiazolyl-thiazolidine-2,4-dione compounds**
BOZDAĞ DÜNDAR O., Gurkan S., Aboul-Enein H. Y., Kruk I., Kladna A.
LUMINESCENCE, vol.24, no.3, pp.194-201, 2009 (SCI-Expanded)
- XXI. **Syntheses of novel indole lipoic acid derivatives and their antioxidant effects on lipid peroxidation**
Gurkan A. S., Karabay A. Z., Buyukbingol Z., Adejare A., Buyukbingol E.
ARCHIV DER PHARMAZIE, no.2-3, pp.67-73, 2005 (SCI-Expanded)

Articles Published in Other Journals

- I. **Tirozin Kinaz Enzim İnhibitörü Yeni Bileşikler ve Yapı-Aktivite İlişkilerinin Değerlendirilmesi**
Gurkan-Alp A. S., Bozca F.
FABAD JOURNAL OF PHARMACEUTICAL SCIENCES, vol.44, no.1, pp.65-78, 2019 (Scopus)
- II. **Bazi Retinoidal Bileşiklerin RXRa Proteinine Doking Çalışmaları**
Gurkan-Alp A. S., Büyükbingöl M. E.
Ankara Ecz. Fak. Derg., vol.38, no.3, pp.155-166, 2009 (Scopus)

Books & Book Chapters

- I. **PARP-1 ENZİM İNHİBİTÖRÜ BİLEŞİKLER VE YAPI-AKTİVİTE İLİŞKİLERİ**
Çelik B. G., ALP A. S.
in: CUMHURİYETİN 100. YILINDA ECZACILIKTA YENİLİKLER 4, , Editor, Ankara Üniversitesi, Ankara, pp.177-186, 2023
- II. **İLAÇ ETKİN MADDESİ TASARIMI VE GELİŞTİRİLMESİNDE MEDİSİNAL KİMYA**
Alp M., Alp A. S.
in: İLAÇ KEŞFİ VE GELİŞTİRİLMESİ, ALP MEHMET, Editor, AKADEMİSYEN KİTABEVİ, Ankara, pp.69-105, 2021
- III. **Alp A. S.**
in: MEDICINAL CHEMISTRY, ALP MEHMET, Editor, AKADEMİSYEN KİTABEVİ, Ankara, pp.469-495, 2021

- IV. Alp A. S.
in: MEDICINAL CHEMISTRY, ALP MEHMET, Editor, AKADEMİSYEN KİTABEVİ, Ankara, pp.865-870, 2021
- V. **Medisinal Kimya Kısa Bir Giriş**
Alp M., Alp A. S.
Akademisyen Kitabevi, Ankara, 2019
- VI. **Farmasötik Kimya Pratikleri 1-2**
AKI YALÇIN E. E., YALÇIN İ., BÜYÜKBİNGÖL M. E., GÖKER A. H., YILDIZ İ., ALTUNTAŞ DİNLENÇ T., TUNÇBİLEK M., KILCIGİL G., SÜZEN S., ARPACI Ö., et al.
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- VII. **Farmasötik Kimya Pratikleri 3-4**
AKI YALÇIN E. E., YALÇIN İ., BÜYÜKBİNGÖL M. E., GÖKER A. H., YILDIZ İ., ALTUNTAŞ DİNLENÇ T., TUNÇBİLEK M., KILCIGİL G., SÜZEN S., ARPACI Ö., et al.
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- VIII. **Novel Indole Lipoic Acid Derivatives: Synthesis and Their Antioxidant Effects.**
Gurkan A. S., Büyükbingöl M. E.
in: Lipoic Acid Energy Production Antioxidant Activity and Health Effects, Mulchand S. PATEL and Lester PACKER, Editor, CRC Press, Taylor Francis Group, Florida, pp.85-98, 2008

Refereed Congress / Symposium Publications in Proceedings

- I. **Synthesis of Some Novel N'-((Aryl)Methylene)-1H-Indole-5-Carbohydrazides**
Gurkan-Alp A. S., Avuka Ö. F.
International Symposium on Pharmaceutical Sciences (ISOPS-13), Ankara, Turkey, 22 - 25 June 2021, pp.197-198
- II. **Synthesis of Some Novel Schiff Bases Incorporated with Indazole Moiety**
Kayıkçı-Paşa N., Gurkan-Alp A. S.
International Symposium on Pharmaceutical Sciences (ISOPS-13), Ankara, Turkey, 22 - 25 June 2021, pp.197
- III. **Synthesis of Some Novel 4-(1H-Benzimidazol-1-yl)-N'-Benzylidenebenzohydrazide Derivatives**
Alp M., Gurkan-Alp A. S.
International Symposium on Pharmaceutical Sciences (ISOPS-13), Ankara, Turkey, 22 - 25 June 2021, pp.190-191
- IV. **Synthesis and Anticancer Activity Studies of Some Novel Indole Retinoid Derivatives**
Gurkan-Alp A. S., Koç A., Karabay A. Z., Büyükbingöl M. E.
International Symposium on Pharmaceutical Sciences (ISOPS-12), Ankara, Turkey, 26 - 29 June 2018, pp.399
- V. **Molecular Docking Studies of Some Novel Benzimidazole Derivatives as EGFR Inhibitors**
Gurkan-Alp A. S., Çelik İ., Kılıçgil G.
International Symposium on Pharmaceutical Sciences (ISOPS-12), Ankara, Turkey, 26 - 29 June 2018, pp.400
- VI. **Synthesis and anticancer effects of some novel benzimidazole-derived PARP inhibitor molecules**
Alp M., Gurkan-Alp A. S., Karabay A. Z., Büyükbingöl M. E.
2nd International Gazi Pharma Symposium Series (GPSS-2017), Ankara, Turkey, 11 - 13 October 2017
- VII. **Effect of retinoid derivates on cholinesterase activity**
Gök M., Gurkan-Alp A. S., Büyükbingöl M. E., Bodur E.
42nd FEBS Congress, Yerushalayim, Israel, 10 - 14 September 2017, vol.284, pp.327
- VIII. **Retinoid analoglarının kronik miyeloid lösemi k562 hücrelerindeki apoptotik etkileri**
Koç A., Karabay A. Z., Özkan T., Gurkan-Alp A. S., Aktan F., Büyükbingöl Z., Büyükbingöl M. E.
23. Ulusal Biyoloji Kongresi, Gaziantep, Turkey, 5 - 09 September 2016, pp.183
- IX. **Effects of indole alpha lipoic acid derivatives on cell viability parameters in K562 leukemia cell line**
Karabay A. Z., Koç A., Gurkan-Alp A. S., Büyükbingöl Z., Büyükbingöl M. E.
11th International Symposium on Pharmaceutical Sciences (ISOPS-11), Ankara, Turkey, 9 - 12 June 2015, pp.43
- X. **Mdm2 P53 Etkileşimini İnhibe Edecek Antikanser Etkili Yeni Spiro Oksiindol Türevleri**
Andaç A. C., Konyar D., Gurkan-Alp A. S., Noyanalpan N., Büyükbingöl M. E.
27. Ulusal Kimya Kongresi, Çanakkale, Turkey, 23 - 28 August 2015, pp.499

- XI. **Anticancer evaluation of Some 5-(4-Methylpiperazin-1-yl)-2-Phenyl-1H-Benzimidazole Derivatives**
Alp M., Gurkan-Alp A. S., Özkan T., Sunguroğlu A.
11th International Symposium on Pharmaceutical Sciences (ISOPS-11), Ankara, Turkey, 9 - 12 June 2015, pp.289
- XII. **Effects of indole α -lipoic acid derivatives on nitric oxide production in LPS/IFN- γ activated RAW 264.7 macrophages.**
Karabay A. Z., Koç A., Gurkan A. S., Büyükbingöl Z., Büyükbingöl M. E.
FES/EMBO, Paris, France, 30 August - 04 September 2014, pp.281
- XIII. **Synthesis and evaluation of antioxidant activities of novel 1,3,4-oxadiazole and imine containing 1H-benzimidazoles**
Gurkan-Alp A. S., Kılıçgil G., Özdamar E. D., Çoban T., Eke B.
20th International Conference on Organic Synthesis (ICOS-20), Budapest, Hungary, 29 June - 04 July 2014, pp.1
- XIV. **Compressed Images for Affinity Prediction (CIFAP): A Novel Machine Learning Methodology on Protein-Ligand Interactions**
Erdaş Ö., Andac C. A., Gurkan-Alp A. S., Alpaslan F. N., Buyukbingol E.
2nd International BAU-Drug Design Symposium, İstanbul, Turkey, 17 - 19 April 2014, pp.31
- XV. **Compressed Images for Affinity Prediction (CIFAP): A Novel Machine Learning Methodology on Protein-Ligand Interactions**
Buyukbingol E., Erdaş Ö., Andac C. A., Gurkan-Alp A. S., Alpaslan F. N.
International Conference on Omics Studies, Florida, United States Of America, 4 - 05 September 2013, vol.6, pp.48
- XVI. **Synthesis of some novel N-substituted 4-trans,trans-farnesylthiobenzamide derivatives as potential anticancer agents**
Demirci A., Gurkan-Alp A. S., Buyukbingol E.
13th Belgian Organic Synthesis Symposium (BOSS XIII), Leuven, Belgium, 15 - 20 July 2012, pp.162
- XVII. **Synthesis and evaluation of antioxidant activities of novel 2-(substitutedbenzylthio)-5-((2-(4-chlorophenyl)-1H-benzo[d]imidazol-1-yl)methyl)-1,3,4-oxadiazoles**
Gurkan-Alp A. S., Kılıçgil G., Özdamar E. D., Çoban T., Eke B.
10th International Symposium on Pharmaceutical Sciences (ISOPS-10), Ankara, Turkey, 26 - 29 June 2012, pp.162
- XVIII. **Predicting binding affinities of drug-protein interactions by analysis of binding site images**
Erdaş Ö., Andac C. A., Gurkan-Alp A. S., Alpaslan F. N., Buyukbingol E.
10th International Symposium on Pharmaceutical Sciences (ISOPS-10), Ankara, Turkey, 26 - 29 June 2012, pp.50
- XIX. **Synthesis of some novel N-substituted 3-trans,trans-farnesylthiobenzamide derivatives as potential anticancer agents**
Demirci A., Gurkan-Alp A. S., Buyukbingol E.
10th International Symposium on Pharmaceutical Sciences (ISOPS-10), Ankara, Turkey, 26 - 29 June 2012, pp.161
- XX. **Synthesis of some novel N-substituted farnesylthiosalicylamide derivatives**
Elmazoğlu Z., Gurkan-Alp A. S., Buyukbingol E.
4th European Conference on Chemistry for Life Sciences (4ECCLS), Budapest, Hungary, 31 August - 03 September 2011, pp.192
- XXI. **Novel retinoid derivatives against breast cancer**
Mumcuoğlu M., Gurkan-Alp A. S., Atalay R., Buyukbingol E.
4th International Symposium on Advances in Synthetic and Medicinal Chemistry (ASMC11), Sankt-Peterburg, Russia, 21 - 25 August 2011, pp.205
- XXII. **Synthesis of some novel indole retinoid derivatives as potential antitumor agents**
Gurkan A. S., Buyukbingol E.
18th International Conference on Organic Synthesis (ICOS-18) - Medicinal Chemistry and Agrochemicals, Bergen, Norway, 1 - 06 August 2010, pp.343
- XXIII. Gurkan A. S., Buyukbingol E.
2. Ulusal Farmasötik Kimya Kongresi, Mersin, Turkey, 13 - 15 November 2009, pp.9
- XXIV. **Synthesis and Evaluation of Antioxidant Properties of Some 2-[2-(4-chlorophenyl)benzimidazol-1-yl]-N-(4-oxo-2-substitutedphenyl-thiazolidin-3-yl)acetamides**
Kılıçgil G., Gurkan A. S., Çoban T., Özdamar E. D., Eke B.

3rd European Conference on Chemistry for Life Sciences: Linking Chemistry with Biological Activity, Frankfurt, Germany, 2 - 05 September 2009, pp.176

- XXV. **Effects of some novel tetrahydronaphthalene derivatives on proliferation and nitric oxide production in lipopolysaccharide activated RAW 264.7 macrophages**
Gurkan A. S., Karabay A. Z., Büyükbingöl Z., Büyükbingöl M. E.
9th International Symposium on Pharmaceutical Sciences, Ankara, Turkey, 23 - 26 June 2009, pp.239
- XXVI. **Synthesis and Structural Elucidation of Some Novel Tetrahydronaphthalene Derivatives as Retinoid Analogues**
Gurkan A. S., Alagöz Z., Buyukbingol E.
International Conference on Medicinal Chemistry (RICT-45), Orleans, France, 1 - 03 July 2009, pp.131
- XXVII. **Synthesis and Antidiabetic Activity of Some New Thiazolyl Thiazolidine-2,4-Dione Derivatives**
Bozdağ Dünder O., Gurkan A. S., Verspohl E. J., Hüppe E., König M.
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- XXVIII. **Synthesis and Structural Elucidation by Electron Paramagnetic Resonance (EPR) Spectroscopy of a Novel Retinoidal Nitroxide Derivative: 5,5,8,8-Tetramethyl-N-(2,2,6,6-tetramethylpiperidine-1-oxyl-4-yl)-5,6,7,8-tetrahydronaphthalene-2-carboxamide**
Gurkan A. S., Yonar D., Buyukbingol E.
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- XXIX. **Syntheses and Antioxidant Effects on Lipid Peroxidation of Novel Indole Lipoic Acid Derivatives**
Gurkan A. S., Karabay A. Z., Buyukbingol Z., Adejare A., Buyukbingol E.
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Activities in Scientific Journals

FABAD JOURNAL OF PHARMACEUTICAL SCIENCES, Editor, 2019 - Continues

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