

CURRICULUM VITAE



1. GENERAL INFORMATION

DATE of ISSUE: October 21, 2015 (Partially modified)		Turkish Government ID:	
NAME SURNAME: Mehmet Erdem BUYUKBINGOL		DATE of BIRTH: August 29, 1952	
CORRESPONDENCE: Ankara University, Faculty of Pharmacy (ECZACILIK), Department of Pharmaceutical Chemistry, Tandoğan 06100, Ankara, Turkiye			
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WEB PAGES:	www.buyukbingol.com (Personal) http://cv.ankara.edu.tr/kisi.php?id=erdem@pharmacy.ankara.edu.tr&deger=2 (Academic)		
MILITARY: Lieutenant (Pharmacist), 1976-1977, Siirt			
MEMBERS :	1. American Chemical Society 2. Turkish Biochemistry Society 3. Society of Pharmaceutical Sciences 4. Turkish Toxicology Society 5. Turkish Medicinal & Pharmaceutical Society		
HOBIES:	1. Playing piano & guitar 2. Natural sports (Mountaineering, scuba diving), Tennis 3. Chess		

2. EDUCATION:

ACADEMIC YEAR	SUPPORT	UNIVERSITY	EDUCATION DEGREE
1986-1988	CWRU Grant	Case Western Reserve University (CWRU), Chemistry Department, Cleveland, OHIO Supervisor: Professor Gilles KLOPMAN (Computer-Automated Structure Evaluation (CASE), Applications of Artificial Intelligence and Expert Systems to Modeling of Drug Design, Design of Aldose Reductase Enzyme Inhibitors, Conformational Energy Calculations, Synthesis of Theoretically Designed Compounds, Biochemical Studies of Synthesized Compounds on Aldose Reductase Enzyme)	Postdoctoral
1978-1983		Ankara University, Faculty of Pharmacy, Department of Pharmaceutical Chemistry Supervisor: Prof. Dr. Ningur NOYANALPAN (Synthesis, Structure Elucidation, Anticholinergic and Structure-Activity Studies of Novel Benzimidazole Compounds)	Ph.D.
1982	British Council Grant	University of Aberdeen, Department of Chemistry, Aberdeen, Scotland Supervisor: Professor John R. Lewis (Free-radical studies of β-carboline compounds, synthesis and spectral studies of beta-carboline compounds Isolation of several alkaloids from Ruta plant, Nuclear Magnetic Resonance Training)	Predoctoral studies
1975		Gazi University, Faculty of Pharmacy (Formerly, Ankara Academy of Economy and Commercial Sciences, School of Pharmacy)	B.S. (PHARMACY)
1969		Yenisehir College, Ankara	High School

3. ACADEMIC PROMOTIONS

ACADEMIC YEAR	TITLE	FACULTY and DEPARTMENT	UNIVERSITY
1995 - date	Professor	Faculty of Pharmacy, Department of Pharmaceutical Chemistry	Ankara University
1988-1995	Associate Professor	Faculty of Pharmacy, Department of Pharmaceutical Chemistry	Ankara University
1987-1988	Assistant Professor	Faculty of Pharmacy, Department of Pharmaceutical Chemistry	Ankara University
1978-1987	Research Assistant	Faculty of Pharmacy, Department of Pharmaceutical Chemistry	Ankara University

4. ACADEMIC EXPERIENCES

ACADEMIC YEAR	TYPE of TASK	UNIVERSITY
2012-2013	Adjunct Professor	University of the Sciences (USIP), Philadelphia College of Pharmacy, Department of Pharmaceutical Sciences, Philadelphia, PA, USA
September, 2012	ERASMUS, Teaching Mobility Programme, Visiting Professor	Akademia Medyczna we Wrocławiu, Faculty of Pharmacy, Wrocław, Poland
May 2011	ERASMUS, Teaching Mobility Programme, Visiting Professor	University of Catania, Faculty of Pharmacy, Catania, Italy
April	ERASMUS, Teaching Mobility Programme, Visiting Professor	Universidad Complutense de Madrid, Faculty of Pharmacy, Madrid, Spain
2006	Visiting Professor (USIP Grant)	University of the Sciences (USIP), Philadelphia College of Pharmacy, Department of Pharmaceutical Sciences, Philadelphia, PA, USA
1999-2000	Visiting Professor (ISU Grant)	Idaho State University (ISU), College of Pharmacy, Department of Pharmaceutical Sciences, Pocatello, ID, USA
1998-1999	Visiting Professor (UMKC Grant)	University of Missouri at Kansas City (UMKC), School of Pharmacy, Department of Pharmaceutical Sciences, Kansas City, MO, USA
1991-1997	Research Associate (British Council Grant)(Four times visit, each 3-4 months)	University of Aberdeen, Department of Chemistry, Aberdeen, SCOTLAND
1989 March-May	Research Associate , NATO Grant, Collaboration with Professor Ningur Noyanalpan, Dr. John R. Lewis, Conformationally Modeling of Benzimidazole, Benzoxazole and Benzothiazole Compounds for Parasitic Toxicology Related Enzymes as a part of Antiparasitic and pressure-mediating drugs	Lyon, France
1975-1976	Editorial Assistant	Journal of Science & Technology, Institution of Turkish Science & Technology

5. ADMINISTRATIVE EXPERIENCES

TERM	ADMINISTRATIVE TASKS	KURULUŞ
2008-2011	Head of Pharmaceutical Chemistry Department	Ankara University, Faculty of Pharmacy, Department of Pharmaceutical Chemistry
2005-2012	Academic Evaluation and Quality Improvement Committee (Member), Community and Sectors Relations and International Relations Sub-Committee (Head)	Ankara University
1990-1992	Turkish Mountaineering Federation (Head)	Turkish Sports Ministry, General Directorate of Youth and Sports

6. DUTIES IN COMMISSIONS

TERM	QUALIFICATION	INSTITUTION
2004-2012	<p>Member</p> <ol style="list-style-type: none"> 1. Ankara University Ethics Committee Working Principles and Methods (Scientific and publication ethics) 2. Preparation of Ethics Guidelines 3. Organization of Ethical Week once a year 4. Preparation of Webpage for ethics 	Ankara University
2005-2012	<p>Ankara University Academic Evaluation and Quality Improvement Committee</p> <ol style="list-style-type: none"> 1. Strategic Planning and Quality Management studies, 2. Community and International Relations, 3. Ankara University Technology Development Zone Studies 4. The preparation of the Strategic Plan 2008-2012 Ankara University 5. Studies on the performance evaluation of academic staff 	Ankara University
2004-2012	<p>Ankara University Self-Steering Committee</p> <ol style="list-style-type: none"> 1. The preparation of Ankara University Self-Evaluation Report for the entrance of Ankara University to European Union Universities (EUA) 2. Lectures and seminars on SWOT analysis to several divisions of Ankara University 3. In the context of the Bologna Process, studies on the evaluation of institutional programme accreditation 4. Follow-up studies 	Ankara University
1991-2012	Information Technology Infrastructure Development Board	Ankara University
1989-1992	International Symposium of Pharmaceutical Sciences, Organization Committee member	Ankara University, Faculty of Pharmacy
1989-1992	<p>Computer Committee member</p> <ol style="list-style-type: none"> 1. The establishment of the University Computing Center (The setting up VAX 11/750 computer and loading scientific software to using by academics) 2. Network studies in the university 	Ankara University
1994-	Head of Computer Committee	Ankara University, Faculty of Pharmacy

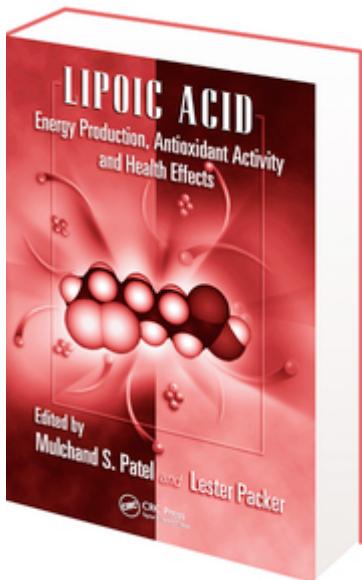
7. AWARDS

TITLE of AWARDS	INSTITUTION GIVEN BY	TERM
Pharmaceutical and Medicinal Award of Drug Design and Development (First prize)	NOVARTIS Drug Company	2005-2006

PUBLICATIONS (Erdem BUYUKBINGOL)

BOOK CHAPTERS

1. A. Selen GURKAN, **Erdem BUYUKBINGOL**, Novel Indole Lipoic Acid Derivatives and Their Antioxidant Effects, in [Lipoic Acid: Energy Production, Antioxidant Activity and Health Effects, Series: Oxidative Stress and Diseases, Vol: 24, Eds. Mulchand S. Patel and Lester Packer, CRC Press, New York, 2008.](#)



1. **BUYUKBINGOL, E.**, NOYANALPAN, N., "Synthesis, Spectral and Anticholinergic Studies of 1-Substituted-2-benzylbenzimidazole Derivatives", *J. Fac. Pharm.*, 2, 81-91, 1985.
2. **BUYUKBINGOL, E.**, NOYANALPAN, N., "Quantitative Structure-Activity Studies of 2-Benzylbenzimidazole Derivatives Using First Order Valance Connectivity", *Turkish J. Pharm. Sci.*, 11, 101-110, 1985.
3. **E. BUYUKBINGOL.**, C. SAFAK., Y. OZTURK., M. F. SAHIN., "The Synthesis and Quantitative Structure-Activity Relationships of Smooth Muscle Relaxation of 2-Substituted Benzimidazole Derivatives", *J. Fac. Pharm. Gazi Univ.*, 3, 147-154, 1986.
4. B. CAKIR., **E. BUYUKBINGOL.**, U. UCUCU., U. ABBASOGLU., N. NOYANALPAN, Bis-benzimidazole Derivatives and Their Antifungal Activities, *J. Fac. Pharm. Gazi Univ.*, 4(2), 143-149, 1987.
5. B. CAKIR., **E. BUYUKBINGOL.**, U. UCUCU., U. ABBASOGLU., N. NOYANALPAN., "Benzimidazole Derivatives: bis-benzimidazoles and Their Antifungal Activities", *J. Fac. Pharm. Gazi Univ.*, 5, 71-77, 1988.
6. G. KLOPMAN., **E. BUYUKBINGOL.**, "An Artificial Intelligence Approach to the Study of the Structural Moieties Relevant to Drug-Receptor Interactions in Aldose Reductase Inhibitors", *Molecular Pharmacology*, 34, 852-862, 1988.
7. M. Y. ISCAN., **E. BUYUKBINGOL.**, M. ISCAN., F. SAHIN., C. SAFAK., "Effects of 2-Arylbenzimidazoles on the Rat Hepatic Microsomal Monooxygenase System", *Comp. Biochem. and Physiol.*, 92C, 109-115, 1989.
8. **E. BUYUKBINGOL.**, G. KLOPMAN., "A New Proposed Model of Aldose Reductase Enzyme Inhibition on the Basis of an Artificial Intelligence Approach: A Computer Automated Structure Evaluation (CASE) Study", *J. Math. Chem.*, 8, 195-205, 1991.

9. **E. BUYUKBINGOL**, N. DAS., G. KLOPMAN, "Design and Synthesis of 1,4-Dihydro-4-oxoquinoline-3-carboxylic acid Derivatives as Inhibitors of Rat Lens Aldose Reductase Enzyme", Arch. Pharm, 327, 129-131,1994.
10. **E. BUYUKBINGOL**, S. SUZEN, G. KLOPMAN, "Studies on the Synthesis and Structure-Activity Relationships of 5-(3'-Indolal)-2-thio- Hydantoin Derivatives as Aldose Reductase Enzyme Inhibitors", Farmaco, 49, 443-447, 1994.
11. **E. BUYUKBINGOL**, G. KLOPMAN, "A Novel Aldose Reductase Enzyme Inhibitor, Spirohydantoinylisatin-1-acetic Acid Derivative", Farmaco, 50, 889-891, 1995.
12. ATES, Z., SUZEN, S, CAN-EKE, B., ISCAN, M., and **BUYUKBINGOL**, E. "Effects of a Benzimidazole Compound on Monoxygenase Activities", Farmaco, 52, 703-706, 1997.
13. O. BOZDAG, B. GUMUSEL, R. DEMIRDAMAR, **E. BUYUKBINGOL**, Y. ROLLAND, R. ERTAN, "Synthesis of Some Novel Oxime Ether Derivatives and Their Activity in the Behavioral Despair Test", Eur. J. Med. Chem., 33, 133-141, 1998.
14. B. CAN-EKE, M. O. PUSKULLU, **E. BUYUKBINGOL**, M. ISCAN, "A Study on the Antioxidant Capacities of Some Benzimidazoles in Rat Tissues", Chemico.-Biologico. Int., 113, 65-77, 1998.
15. N. DAS-EVCIMEN, B. PEKINER, S. SUZEN, **E. BUYUKBINGOL**, "The Inhibitory Effect of Benzodiazepine Derivatives on the Bovine Lens Aldose Reductase Enzyme", Biochem. Mol. Biol. Int., 45, 381-387, 1998.
16. S. SUZEN, **E. BUYUKBINGOL**, "Evaluation of Anti-HIV Activity of 5-(2-Phenyl-3'-indolal)-2-thiohydantoin", Farmaco, 53, 525-527, 1998.
17. O. BOZDAG-DUNDAR, B. DUNDAR, **E. BUYUKBINGOL**, M. R. CAIRA, 3-Ethyl-5-(5, 6, 7, 8)-tetrahydro-5, 5, 8, 8-tetramethyl-2-naphthylmethyl, Acta Cryst. C55, 1027-1029, 1999.
18. M. TUNCBILEK, O. BOZDAG, G. AYHAN-KILCIGIL, N. ALTANLAR, **E. BUYUKBINGOL**, R. ERTAN, Synthesis And Antimicrobial Activity of Some New Flavonyl Oxime Ether Derivatives, Arzneim.-Forsch./Drug Res., 49, 853-857, 1999.
19. S. SUZEN, **E. BUYUKBINGOL**, "Anti-cancer Activity Studies Indolalthiohydantoin (PIT) on Certain Cancer Cell Lines", Farmaco, 55, 246-248, 2000.
20. ATES-ALAGOZ, Z., SUZEN, S., **BUYUKBINGOL**, E., CAIRA, M.R., Synthesis and structure of 2-[(5,6,7,8-tetrahydro-5,5,8,8-tetramethyl-2-naphthalene)]-5-benzimidazole ethylcarboxylate monohydrate, J. Chem. Crystallogr., 30, 103-107, 2000.
21. Engin KENDI, Zeynep ATES-ALAGOZ, Sibel SUZEN, **Erdem BUYUKBINGOL**, Crystal Structure of 2-[(5, 6, 7, 8-tetrahydro-5, 5, 8, 8-tetramethyl)-2-naphthyl]-1-ethyl-1H-benzimidazole-5-carboxylic acid ethyl ester, Analytical Sciences, 17, 567-568, 2001.
22. Z. ATES-ALAGOZ, **E. BUYUKBINGOL**, "Synthesis of Some New Tetrahydronaphthalene Benzimidazole Derivatives", Heterocycles Comm., 7, 455-461, 2001.
23. Burak DUNDAR, Oya BOZDAG-DUNDAR, Benay CAN-EKE, Tulay COBAN, Mumtaz ISCAN, **Erdem BUYUKBINGOL**, "Synthesis and Antioxidative Properties of Novel Thiazolidinedione/Imidazolidinedione Compounds as Retinoids", Die Pharmazie, 57, 438-441, 2002.
24. CAIRA, M.R., BUYUKBINGOL, E., ADEJARE, A., MILLINGTON, W.R., Crystal Structure of the Dipeptide Cyclo(Glycyl-L-Glutamine), Analytical Sciences, 18, 1175-1176, 2002.
25. Sibel SUZEN, **Erdem BUYUKBINGOL**, "Recent Studies of Aldose Reductase Enzyme Inhibition for Diabetic Complications", Current Medicinal Chemistry, 10, 1329-1353, 2003.
26. Sibel SUZEN, B. Tolga DEMIRCI, **Erdem BUYUKBINGOL**, Sibel A. OZKAN, "Electrochemical Evaluation and Determination of 5-(3'-indolal)-2-thiohydantoin Derivatives by Voltammetric Studies: Possible Relevance to in vitro Metabolism", New J. Chemistry, 27, 1007-1011, 2003.
27. Zeynep ATES-ALAGOZ, Benay CAN-EKE, Tulay COBAN, Mumtaz ISCAN, **Erdem BUYUKBINGOL**, Antioxidant Properties of Novel Benzimidazole Retinoids, Arch Pharm (Weinheim), 337(4), 188-192, 2004.
28. Fulya BALABAN, Zeynep ATES-ALAGOZ, **Erdem BUYUKBINGOL**, Mesude ISCAN, "Genotoxicity Studies on Benzimidazole Retinoids", Pharmazie, 60, 861-868, 2005.
29. Zeynep ATES-ALAGOZ, Zeliha BUYUKBINGOL, **Erdem BUYUKBINGOL**, "Synthesis and Antioxidant Properties of Some Indole Ethylamine Derivatives as Melatonin Analogs", Pharmazie, 60, 643-647, 2005.
30. A. Selen GURKAN, Arzu KARABAY, Zeliha BUYUKBINGOL, Adeboye ADEJARE, **Erdem BUYUKBINGOL**, Syntheses of Novel Indole Lipoic Acid Derivatives and Their Antioxidant Effects on Lipid Peroxidation", Arch. Pharm., 338, 67-73, 2005.

31. Zeynep ATES-ALAGOZ, Tulay COBAN, **Erdem BUYUKBINGOL**, Synthesis and Antioxidant Activity of New Tetrahydro-naphthalene-indole derivatives as Retinoid and Melatonin Analogs”, *Arch., Pharmazie*, 339, 193-200, 2006.
32. GURER-ORHAN, Hande, ORHAN, Hilmi, SUZEN, Sibel, PUSKULLU, M. Orhan, **BUYUKBINGOL Erdem**, Synthesis and Evaluation of *in vitro* Antioxidant Capacities of Some Benzimidazole Derivatives, *J. Enzyme Inh. Med. Chem.*, 21, 241-247, 2006.
33. ATES-ALAGOZ, Z.; ALP, M.; KUS, C.; YILDIZ, S.; **BUYUKBİNGOL, E.**; GOKER, H. Synthesis and potent antimicrobial activities of some novel retinoidal monocationic **BUYUKBİNGOL, E** benzimidazoles. *Arch. Pharm. Chem. Life Sci.*, 339, 74–80 (2006).
34. **BUYUKBINGOL, E.**, SISMAN, A., AKYILDIZ, M., ALPARSLAN, F. N., ADEJARE, A., Adaptive neuro-fuzzy inference system (ANFIS): A new approach to predictive modeling in QSAR applications: A study of neuro-fuzzy modeling of PCP-based NMDA receptor antagonists, *Bioorganic & Medicinal Chemistry*, 15, 4265-4282 (2007).
35. ATES-ALAGOZ, Z., YILDIZ, S., **BUYUKBINGOL, E.**, Antimicrobial Activities of Some Tetrahydronaphthalene-Benzimidazole Derivatives, *Cancer Therapy (Basel, Switzerland)*, 53, 110-113 (2007).
36. ATES-ALAGOZ, Zeynep, ALTANLAR, Nurten, **BUYUKBINGOL, Erdem**, Synthesis and Antimicrobial Activity of New Tetrahydro-Naphthalene-Thiazolidinedione and Thiohydantoine Derivatives, *J. Heterocyclic Chem.*, 46, 1375-1379 (2009).
37. A KEVSER PISKIN, ZEYNEP ATES-ALAGOZ, F. BELGIN ATAC, YAMAN MUSDAL and **Erdem BUYUKBINGOL**, “DNA Binding and Antiproliferative Effects of Some Benzimidazole Retinoids”, *Turkish Journal of Biochemistry*, 34(1), 39-43 (2009).
38. ERDAS, Ozlem, **BUYUKBINGOL, Erdem**, ALPARSLAN, Ferda Nur, ADEJARE, Adeboye, Modeling and Predicting Binding Affinity of Phencyclidine-Like Compounds Using Machine Learning Methods, *J. Chemometrics*, 24, 1-13 (2010).
39. GURKAN, A. Selen., KARABAY, Arzu, BUYUKBINGOL, Zeliha, **BUYUKBINGOL, Erdem**, Synthesis and effects of some novel tetrahydronaphthalene derivatives on proliferation and nitric oxide production in lipopolysaccharide activated Raw 264.7 macrophages, *European J. Medicinal Chemistry*, 46, 468-479 (2011).
40. GURKAN-ALP, A. Selen, MUMCUOGLU, Mine, ANDAC, A. Cenk, DAYANC, Emre, ATALAY, Rengul, **BUYUKBINGOL, Erdem**, Synthesis, anticancer activities and molecular modeling studies of novel indole retinoid derivatives, *Eur. J. Med. Chem.*, 58, 346-354 (2012).
41. ERDAS, Ozlem, ANDAC, Cenk, A., GURKAN-ALP, Selen, ALPARSLAN, Ferda, **BUYUKBINGOL, Erdem**, Compressed Images for Affinity Prediction (CIFAP): A Study on Predicting Binding Affinities for Checkpoint Kinase 1 Protein Inhibitors, *J. Chemometrics*, 27 (6), 155-164 (2013).
42. Arzu Zeynep Karabay, Asli Koc, A. Selen Gurkan-Alp, Zeliha Buyukbingol and **Erdem Buyukbingol**, Inhibitory effects of indole α -lipoic acid derivatives on nitric oxide production in LPS/IFN γ activated RAW 264.7 macrophages, *Cell Biochem. Func.*, 33 (3), 121-127 (2015).
43. Ozlem Erdas, Cenk. A. Andac, A. Selen Gurkan-Alp, Ferda Nur Alpaslan & **Erdem Buyukbingol**, 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, *Journal of Enzyme Inhibition and Medicinal Chemistry*, 30, (5), 809-815, (2015).
44. ELMAZOGLU, Zubeyir, GURKAN-ALP, A. Selen, ANDAC, A. Cenk, DURMAZ, Irem, ATALAY, Rengul, **BUYUKBINGOL, Erdem**, Synthesis and anticancer activities of some novel farnesylthiosalicylamide / farnesylanthranilamide derivatives, *Eur. J. Med. Chem.*, submitted for publication, 2015.
45. DEMIRCI, Asli, GURKAN-ALP, A. Selen, ANDAC, A. Cenk, YILDIRIM, C. Deniz, CETIN-ATALAY, Rengul, **BUYUKBINGOL, Erdem**, Synthesis and anticancer activities and molecular modeling studies of some novel 4-trans,trans-farnesylthiobenzamide and 3-trans,trans-farnesylthiobenzamide derivatives, in preparation, 2015.

CITATIONS: 630

PUBLICATION-3)

1. M.Y. ISCAN., E. BUYUKBINGOL., M. ISCAN., F. SAHIN., C. SAFAK., "Effects of 2-Arylbenzimidazoles on the Rat Hepatic Microsomal Monooxygenase System", *Comp. Biochem. and Physiol.*, 92C, 109-115, 1989.
2. UZUNOGLU, S., TOSUN, A.U., OZDEN, T., YESILADA, E., BERKEM, R., "Synthesis and Activities of 5-Substituted-2-(p-substituted-Phenyl)-1-Dialkylaminomethyl Benzimidazole Derivatives", *Farmaco*, 52, 619-623, 1997.

PUBLICATION-4)

1. Kumbhare, Ravindra M.; Dadmal, Tulshiram; Kosurkar, Umesh; Vijay Kumar, K., 1,3-Di-N-butylimidazolium tribromide-mediated chemoselective oxidative cyclization of benzothiazolyl carbamides: A novel approach toward the synthesis of N-bis-benzothiazole derivatives, *Journal of Heterocyclic Chemistry* (2012), 49(2), 342-348.

PUBLICATION-5)

1. Tavman, Aydin; Sayil, Cigdem, Spectral characterization and crystal structure of 1,2-bis-(1H-benzimidazol-2-yl)-ethane dihydrochloride, *Journal of Chemistry*, 634986, 5 (2013).
2. Chen, Huating; Deng, Dongsheng; Miao, Shaobin; Ji, Baoming. Synthesis and crystallographic characterization of a seven-coordinate Mn(II) complex. *Crystal Research and Technology*, 43(7), 786-790 (2008).
3. Algul, Oztekin; Duran, Nizami. Activity of bisbenzimidazole derivatives against *Staphylococcus epidermidis*. *Asian Journal of Chemistry*, 19(4), 3145-3151 (2007).
4. Kaessler, Andre; Algul, Oztekin; Jose, Joachim. A microplate based screening of benzimidazole derivatives on hyaluronidase inhibition at pH 7 and 3.5. *Letters in Drug Design & Discovery*, 4(8), 562-569 (2007).
5. van Albada, Gerard A.; Mutikainen, Ilpo; Turpeinen, Urho; Reedijk, Jan. Distortion Isomerism of Cu(II) chloride adducts with bis(2-benzimidazolyl)ethane. Synthesis, characterization, x-ray structures and spectroscopy of four different isomers. *Journal of Chemical Crystallography*, 37(7), 489-496 (2007).
6. Gui-Yun DUAN, Ya-Wei SUN, Jun-Zhi LIU, Gui-Long ZHAO, Da-Tong ZHANG, Jian-Wu WANG, "Microwave-mediated one-step synthesis of bis(heteroaryl-2-yl)methanes from o-diaminoaromatics and malonamide under solvent-free conditions", *J. Chienese Chem. Soc.* (Taipei, Taiwan), 53, 455-458, 2006.
7. Tavman, Aydin, "Vanadium(III) chloride complexes of 1,2-bis-(5-H/methyl/chloro/nitro-1H-benzimidazol-2-yl)-1,2-ethanediols", *Journal of the Serbian Chemical Society* 71(5), 521-528, 2006.
8. G. A. van ALBADA, Ilpo MUTKAINEN, Urho TURPEINEN, Jan REEDJIK, " Crystal structure, magnetism and spectroscopy of a dinuclear Cu(II) compound with a chiral ligand; Cu₂(SL)(μ-Cl)(Cl)₂(CH₃OH) (HSL=(S)-1,2-bis(benzimidazol-2-yl)-1-hydroxyethane)", *Polyhedron*, 25, 81-86, 2006.
9. Aydin. TAVMAN, "Bimetallic Cd(II) and Hg(II) complexes of 1,4-bis-(5-H/methyl/chloro-1H-benzimidazol-2-yl)-1,2,3,4-butanetetraols", *J. Serbian Chemical Society* , 70(, 1067-1073,,2005.
10. Aydin TAVMAN, "CdBr₂ complexes of 1,2-bis-[2-(5-H/methyl/chloro/nitro)-1H-benzimidazolyl]-1,2-ethanediols", *Zhurnal Neorganicheskoi Khimii*, 50, 1445-1449, 2005.

11. Aydin TAVMAN, S. BIRTEKSOZ, G. OTUK, "Antimicrobial activity of 1,2-bis-[2-(5-R)-1H-benzimidazolyl]-1,2-ethanediols, 1,4-bis-[2-(5-R)-1H-benzimidazolyl]-1,2,3,4-butanetetraols and their FeIII, CuII, and AgI complexes", *Folia Microbiologica* (Prague, Czech Republic), 50, 467-472, 2005.
12. Aydin TAVMAN, "Vanadium(III) complexes of 1,4-bis-[5-H/methyl/chloro)-2-1H-benzimidazolyl]-1,2,3,4-butanetetraols", *Reviews in Inorg. Chem.*, 25, 377-386, 2005.
13. A. TAVMAN., "Complexation of 1,4-Bis-[5-H/methyl/chloro)-2-1H-benzimidazolyl]-1,2,3,4-butanetetraols with ZnCl₂", *Metal Chemistry*, 26(6), 363-369, 2003.
14. A. TAVMAN., "1,2-Bis[2-(5-H/methyl/chloro/nitro)-1H-benzimidazolyl]-1,2-ethanediol complexes with HgCl₂", *Metal Chemistry*, 26(4), 229-235, 2003.
15. A. TAVMAN., "1,2-Bis-[5-H/methyl/chloro/nitro)-2-1H-benzimidazolyl]-1,2-ethanediols and 1,4-Bis-[5-H/methyl/chloro)-2-1H-benzimidazolyl]-1,2,3,4-butanetetraols complexes with AgNO₃", *Reviews in Inorganic Chemistry*, 22(2), 113-124, 2002.
16. K. YU, R. L. CIVIELLO, K. D. COMBRINK, H. B. GULGEZE, N. SIN, X. WANG, "Preparation and antiviral activity of heterocyclic substituted 2-methylbenzimidazole antiviral agents", U.S. Pat. Appl. Publ. (2002), 89 pp. CODEN: USXXCO US 2002099208 A1 20020725 Patent written in English. Application: US 2001-994012 20011116. Priority: US 2000-257139 20001220. CAN 137:125159 AN 2002:556140.
17. A. TAVMAN, "Fe(III), Co(II), Ni(II), Cu(II) complexes of 1,2-bis-(2-1H-benzimidazolyl)-1,2-ethanediol and 1,4-bis-(2-1H-benzimidazolyl)-1,2,3,4-butanetetraol", *Reviews in Inorganic Chemistry*, 22(1), 41-51, 2002.
18. G. A. Van ALBADA, I. RIGGIO, I. MUTIKAINEN, U. TURPEINEN, J. REEDIJK, "X-ray crystal structures, spectroscopic and magnetic measurements of dinuclear alkoxo-bridged copper(II) compounds with substituted bis(2-benzimidazolyl)alkane ligands. First X-ray structure of a copper(II) dinuclear propoxo-bridged compound", *Polyhedron*, 21(2), 141-146, 2002.
19. G. A. Van ALBADA, I. RIGGIO, I. MUTIKAINEN, U. TURPEINEN, J. REEDIJK, "Crystal structure and spectroscopy of bis[bis(2-benzimidazolyl)propane]copper(II) bis(triflate) monohydrate, a copper complex with a geometry intermediate between tetrahedral and square planar", *Journal of Chemical Crystallography*, 30(12), 793-797 2001.
20. B. ULKUSEVEN, A. TAVMAN., "1,2-Bis[(5-methyl/chloro/nitro)-2-1H-benzimidazolyl]-1,2-ethanediols and their PdCl₂ complexes", *Transition Metal Chemistry* (Dordrecht, Netherlands), 26(6), 723-726, 2001.
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