

Prof. Dr. Oya **BOZDAĞ DÜNDAR**

Ankara University Faculty of Pharmacy, Ankara, TURKEY

Özgeçmiş:

Oya BOZDAĞ DÜNDAR doktora tezini Ankara Üniversitesi, Eczacılık Fakültesi, Farmasötik Kimya Anabilim Dalında 1998 yılında tamamladı. 2009 yılından beri Ankara Üniversitesinde Profesör Öğretim Üyesi olarak çalışmaktadır. İlaç tasarımı ve çeşitli biyolojik aktiviteli heterosiklik bileşiklerin sentezi ile ilgilenmektedir.

Yayın Listesi:

- 1- Oya Bozdağ**, Bülent Gümüşel, Rümeysa Demirdamar, Erdem Büyükbingöl, Yves Rolland, Rahmiye Ertan. "Synthesis of Some Novel Oxime Ether Derivatives and Their Activity in the 'Behavioral Despair Test'", Eur. J. Med. Chem., 33, 133-141 (1998).
- 2- Oya Bozdağ**, Meral Tunçbilek, Gülgün Ayhan-Kılıçgil, Rahmiye Ertan. "Studies on the Synthesis of Some Substituted Flavonyl Thiazolidinedione Derivatives-II", Pharmazie, 54 (2), 151-152 (1999).
- 3- Gülgün Ayhan-Kılıçgil, Oya Bozdağ**, Meral Tunçbilek, Nurten Altanlar, Rahmiye Ertan. "Synthesis and Antimicrobial Activity of Flavone-6-Carboxaldehyde Oxime Ether Derivatives", Pharmazie, 54 (3), 228-229 (1999).
- 4- Meral Tunçbilek, Oya Bozdağ**, Gülgün Ayhan-Kılıçgil, Nurten Altanlar, Erdem Büyükbingöl, Rahmiye Ertan. "Synthesis and Antimicrobial Activity of Some New Flavonyl Oxime Ether Derivatives", Arzneim.-Forsch./Drug Res., 49 (II), 853-857 (1999).
- 5- Oya Bozdağ**, Eugen J. Verspohl, Rahmiye Ertan. "Synthesis and Hypoglycaemic Activity of Some New Flavone Derivatives. Part 1: Flavonylsulfonylurea Derivatives", Arch. Pharm. Pharm. Med. Chem., 332, 435-438 (1999).
- 6- Oya Bozdağ**, Gülgün Ayhan-Kılıçgil, Meral Tunçbilek, Rahmiye Ertan. "Studies on the Synthesis of Some Substituted Flavonyl Thiazolidinedione Derivatives-I", Turk J. Chem. 23, 163-169 (1999).
- 7- Oya Bozdağ-Dünder**, Burak Dünder, Erdem Büyükbingöl, Mino R. Caira. "3-ethyl-5-(5,6,7,8-tetrahydro-5,5,8,8-tetra-methyl-2-naphthylmethylene)thiazolidine-2,4-dione" Acta Cryst., Cryst. Structure. Com.C55, 1027-1029 (1999).
- 8- Oya Bozdağ**, Eugen J. Verspohl, Rahmiye Ertan. "Synthesis and Hypoglycemic Activity of Some New Flavone Derivatives II. Communication: 4'-Flavonyl-2,4-Thiazolidinediones", Arzneim.-Forsch./Drug.Res., 50(II), 6, 539-543 (2000).
- 9- Engin Kendi, Süheyla Özbey, Oya Bozdağ**, Rahmiye Ertan. "Flavone-3'-Sulfonamide", Acta Cryst., C56, 457-458 (2000).
- 10- Oya Bozdağ-Dünder**, Eugen J. Verspohl, Rahmiye Ertan. "Synthesis and Hypoglycemic Activity of Some New Flavone Derivatives, III. Communication: 3'-Flavonyl-2,4-Thiazolidinediones", Arzneim.-Forsch./Drug.Res., 50(II), 7, 626-630 (2000).
- 11- Oya Bozdağ-Dünder**, Abdel Waheed, Eugen J. Verspohl, Rahmiye Ertan. "Synthesis and Hypoglycemic Activity of Some New Flavone Derivatives. 4th Communication: 6-Flavonyl-2,4-Thiazolidinediones", Arzneim.-Forsch./Drug.Res., 51(II), 623-627 (2001).
- 12- Burak Dünder, Oya Bozdağ-Dünder**, Benay Can-Eke, Tülay Çoban, Mümtaz İşcan, Erdem Büyükbingöl. "Synthesis and antioxidative properties of novel thiazolidinedione/imidazolidinedione compounds as retinoids" Pharmazie 57 (7), 438-441 (2002).
- 13- Meral Tunçbilek, Oya Bozdağ-Dünder**, Gülgün Ayhan-Kılıçgil, Meltem Ceylan, Abdel Waheed, Eugen J. Verspohl, Rahmiye Ertan. "Synthesis and Hypoglycemic Activity of Some Substituted Flavonyl

Thiazolidinedione Derivatives. 5th Communication: Flavonyl benzyl substituted 2,4-thiazolidinediones”, *Il Farmaco*, 58, 79-83 (2003).

14- Oya Bozdağ-Dündar, Meral Tunçbilek, Nurten Altanlar, Rahmiye Ertan. “Synthesis and Antimicrobial Activity of Flavone-3’-Carboxaldehyde Oxime Ether Derivatives”, *Arzneim.-Forsch./Drug Res.*, 53 (7) 522-525 (2003).

15- Gülgün Ayhan-Kılıçgil, Oya Bozdağ-Dündar, Rahmiye Ertan, Nurten Altanlar. “Synthesis and Antimicrobial Testing of Some Flavonylsulfonamide derivatives”, *Turk. J. Chem.*, 27, 461-465 (2003).

16- Oya Bozdağ-Dündar, Eugen J. Verspohl, Abdel Waheed, Rahmiye Ertan. “Synthesis and Antidiabetic Activity of Some New Furochromonyl-2,4-thiazolidinediones”, *Arzneim.-Forsch./Drug Res.*, 53 (12) 831-836 (2003).

17- Gülgün Ayhan-Kılıçgil, Tülay Çoban, Meral Tunçbilek, Benay Can-Eke, Oya Bozdağ-Dündar, Rahmiye Ertan, Mümtaz İşcan. “Antioxidant properties of flavone-6(4’)-carboxaldehyde oxime ether derivatives” *Arch. Pharm. Res.*, 27 (6), 610-614 (2004)

18- Oya Bozdağ-Dündar, Meltem Ceylan-Ünlüsoy, Nurten Altanlar, Rahmiye Ertan. “Synthesis and Biological Activity of Some New Flavone Derivatives”, *Arzneim.-Forsch./Drug Res.* 55 (2), 102-106 (2005)

19- Özen Özgen, Meltem Ceylan-Ünlüsoy, Oya Bozdağ-Dündar, Rahmiye Ertan, Engin Kendi. “3-(4-Chloro-benzyl)-5-(4-oxo-4H-chromen-3-yl-methylene)-thiazolidine-2,4-dione”. *Acta Crystallographica*, E61,870 (2005).

20- Meltem Ceylan-Ünlüsoy, Oya Bozdağ-Dündar, Nurten Altanlar, Rahmiye Ertan. “Synthesis and antimicrobial activity of some new 3-substituted benzyl-5-(4-chloro-2-piperidin-1yl-thiazole-5-yl-methylene)-thiazolidine-2,4-dione derivatives”. *Tr. J. Chem.* 30, 355-360, (2006).

21- Oya Bozdağ-Dündar, Meltem Ceylan-Ünlüsoy, Eugen J. Verspohl, Rahmiye Ertan. “Synthesis and antidiabetic activity of novel 2,4-thiazolidinedione derivatives containing a thiazole ring”. *Arzneim.-Forsch./Drug Res.* 56 (9), 621-625 (2006).

22- Özen Özgen, Oya Bozdağ-Dündar, Rahmiye Ertan, Engin Kendi. “5-(4-chloro-2-(4-chlorobenzylsulfanyl)thiazol-5-yl-methylene)- 3-(2,4-dichloro-benzyl)thiazolidine-2,4-dione”. *Acta Crystallographica*, E61,2355-2356 (2007).

23- Oya Bozdağ-Dündar, Özen Özgen, Arzu Menteşe, Nurten Altanlar, Onur Atlı, Engin Kendi, Rahmiye Ertan. “Synthesis and antimicrobial activity of some new thiazolyl- thiazolidine-2,4-dione derivatives”. *Bioorganic and Medicinal Chemistry*, 15, 6012-6017 (2007). DOI:10.1016/j.bmc.2007.06.049

24- Oya Bozdağ-Dündar, Meltem Ceylan-Ünlüsoy, Eugen J. Verspohl, Rahmiye Ertan. “Synthesis and Antidiabetic Activity of Some New Chromonyl-2,4-Thiazolidinediones”, *Arzneim.-Forsch./Drug Res.* 57 (8):532-536 (2007).

25- Oya Bozdağ-Dündar, Net Daş Evcimen, Meltem Ceylan-Ünlüsoy, Rahmiye Ertan, Mutlu Sarıkaya, “Some New Thiazolyl Thiazolidinedione Derivatives as Aldose Reductase Inhibitors”, *Med. Chem. Res.* 16:39-47 (2007). DOI: 10.1007/s00044-007-9008-9

26- Meltem Ceylan-Ünlüsoy, Oya Bozdağ-Dündar, Nurten Altanlar, Rahmiye Ertan, “Studies on the synthesis of some new substituted benzylamino and phenyl-acrylamido-methyl flavone derivatives”, *Med. Chem. Res.* 16:170-178 (2007). 10.1007/s00044-007-9021-z

27-Oya Bozdağ-Dündar, Arzu Menteşe, Eugen J. Verspohl, “Synthesis and Antidiabetic Activity of Some New Thiazolyl-2,4-Thiazolidinediones.” *Arzneim.-Forsch./Drug Res.* 58 (3):131-135 (2008).

28- Net Daş-Evcimen, Oya Bozdağ-Dündar, Mutlu Sarıkaya, Rahmiye Ertan, “In vitro Aldose Reductase Inhibitory Activity of Some Flavonyl-2,4-Thiazolidinediones”, *Journal of Enzyme Inhibition and Medicinal Chemistry*, 23 (3), 297-301 (2008). DOI:10.1080/14756360701475282

29- Oya Bozdağ-Dündar, Eugen J. Verspohl, Net Daş-Evcimen, Rebecca M. Kaup, Katrin Bauer, Mutlu Sarıkaya, Begüm Evranos, Rahmiye Ertan, “Synthesis and Biological Activity of Some New Flavonyl-2,4-Thiazolidinediones”, *Bioorganic and Medicinal Chemistry*, 16, 6747-6751 (2008) DOI: 10.1016/j.bmc.2008.05.059

- 30- Oya Bozdağ-Dündar**, Begüm Evranos, Net Daş-Evcimen, Mutlu Sarıkaya, Rahmiye Ertan “Synthesis and Aldose Reductase Inhibitory Activity of Some New Chromonyl-2,4-Thiazolidinediones” *Eur.J.Med.Chem.* 43 (2008) 2412-2417
- 31- Oya Bozdağ-Dündar**, Tülay Çoban, Meltem Ceylan-Ünlüsoy, Rahmiye Ertan, “Radical scavenging capacities of some thiazolylthiazolidine-2,4-dione derivatives. *Med. Chem. Res.* 18, 1-7 (2009). DOI:10.1007/s00044-007-9081-0
- 32- Irena Kruk, Oya Bozdağ-Dündar**, Rahmiye Ertan, Hassan Y. Aboul-Enein, Teresa Michalska, “Hydroxyl and superoxide radical scavenging abilities of chromonyl-thiazolidine-2,4-dione compounds”, *Luminescence* **2009**; 24: 96–101 DOI: 10.1002/bio.1077
- 33- Eugen J. Verspohl, Oya Bozdağ-Dündar**, Rebecca M. Kaup, Katrin Bauer, Rahmiye Ertan. “Insulinotropic activity of chromonyl-2,4-thiazolidinediones” *Med. Chem. Res.* 18:665–670 (2009). DOI:10.1007/s00044-008-9158-4
- 34- Irena Kruk, Oya Bozdağ-Dündar**, Meltem Ceylan-Ünlüsoy, Rahmiye Ertan, Hassan Y. Aboul-Enein, Teresa Michalska, “Scavenging capacities of some thiazolyl thiazolidine-2,4-dione compounds on superoxide radical, hydroxyl radical, and DPPH radical” *Luminescence* 24: 230-235 (2009). DOI: 10.1002/bio.1105
- 35-Oya Bozdağ-Dündar**, Selen Gürkan, Hassan Y. Aboul-Enein, Irena Kruk, Aleksandra Kładna, “Scavenging of superoxide anion radical and hydroxyl radical by novel thiazolylthiazolidine-2,4-dione compounds” *Luminescence* 24:194-201 (2009). DOI: 10.1002/bio.1095
- 36- Arzu Menteşe, Meltem Ceylan-Ünlüsoy, Oya Bozdağ-Dündar**, Nurten Altanlar, Rahmiye Ertan, “Synthesis and antimicrobial activity of some novel thiazolidine-2,4-dione derivatives” *Arzneim.-Forsch./Drug Res.* 59 (12) 659-665 (2009).
- 37- Ilkay Yıldız, Oya Bozdağ-Dündar**, “Three-dimensional common-feature hypotheses for hypoglycemic flavonyl-2,4-thiazolidinedione derivatives.” *Med. Chem. Res.* 19: 211–219 (2010). DOI: 10.1007/s00044-009-9185-9
- 38-Oya Bozdağ-Dündar**, Rahmiye Ertan, Hassan Y. Aboul-Enein, Aleksandra Kładna and Irena Kruk “Free radical scavenging abilities of flavonylthiazolidine-2,4-dione compounds” *Luminescence* 26:10-16 (2011). DOI: 10.1002/bio.1176
- 39- Melis Ezer, Leyla Tatar Yıldırım, Ornela Bayro, Eugen J. Verspohl, Oya Bozdağ Dündar** “Synthesis and antidiabetic activity of morpholinothiazolyl-2,4-thiazolidindione derivatives” *Journal of Enzyme Inhibition and Medicinal Chemistry* 27(3): 419–427 (2012). DOI:10.3109/14756366.2011.594047
- 40- Meltem Ceylan Unlusoy, Canan Kazak, Ornela Bayro, Eugen J. Verspohl, Rahmiye Ertan, Oya Bozdağ Dündar** “Synthesis and antidiabetic activity of 2,4-thiazolidindione, imidazolidinedione and 2-thioxo-imidazolidine-4-one derivatives bearing 6-methyl chromonyl pharmacophore” *Journal of Enzyme Inhibition and Medicinal Chemistry*; 28(6): 1205–1210 (2013). DOI: 10.3109/14756366.2012.723207
- 41- Net Daş-Evcimen, Mutlu Sarıkaya, Selen Gürkan, Oya Bozdağ-Dündar**, Aldose reductase inhibitory potential of several thiazolyl-thiazolidine-2,4-diones” *Letters in Drug Design and Discovery* (2013), 10(5), 415-419. DOI: 10.2174/1570180811310050008.
- 42- Berczynski Pawel; Kruk Irena; Piechowska Teresa; Ceylan-Unlusoy Meltem; Bozdağ-Dündar Oya; Aboul-Enein Hassan Y** “Free radical scavenging activity of novel thiazolidine-2,4-dione derivatives” *Luminescence : The journal of biological and chemical luminescence* (2012-DOI: 10.1002/bio.2454). Volume: 28 Issue: 6 Pages: 900-904 Published: NOV 2013
- 43- Berczyński P, Kładna A, Kruk I, Piechowska T, Aboul-Enein HY, Bozdağ-Dündar O, Ceylan-Unlusoy M.** Antioxidant activities of some new chromonyl-2,4-thiazolidinediones and chromonyl-2,4-imidazolidinediones having chromone cores. *J Fluoresc.* 2013 Nov;23(6):1319-27. doi: 10.1007/s10895-013-1266-y. Epub 2013 Jul 17.
- 44- Berczyński P, Duchnik E, Kruk I, Piechowska T, Aboul-Enein HY, Bozdağ-Dündar O, Ceylan-Unlusoy M.** 6-Methyl 3-chromonyl 2,4-thiazolidinedione/2,4-imidazolidinedione/2-thioxo-imidazolidine-

4-one compounds: novel scavengers of reactive oxygen species. *Luminescence* 2014; 29: 367–373, doi: 10.1002/bio.2554 [Epub ahead of print]

45- Berczyński P, Kładna A, Piechowska T, Kruk I, **Bozdağ-Dündar O**, Aboul-Enein HY, Ceylan-Unlusoy M, Ertan R. "Studies on the antioxidant activity of some thiazolidinedione, imidazolidinedione and rhodanine derivatives having a flavone core." *Luminescence*. 2014, 29,1107-1112; Apr 14. doi: 10.1002/bio.2667.

46- Irena Kruk, Teresa Piechowska, Paweł Berczyński, Aleksandra Kładna, **Oya Bozdağ-Dündar**, Meltem Ceylan-Unlusoy and Hassan Y. Aboul-Enein, "Studies on the antioxidant activity of some chromonylrhodanine derivatives" Article first published online: 6 NOV 2014 | DOI: 10.1002/bio.2785; 30: 556–563, 2015.

47- İlkey Yıldız, **Oya Bozdağ Dündar**, DFT Study of 3-[2-(4-chloro-phenyl)-2-oxo-ethyl]-5-(2,4-dichloro-thiazole-5-yl-methylenyl)thiazolidine-2,4-dione as antifungal agent, *International Journal of Scientific & Engineering Research*, 7 (1),136-141, 2016.

48-Oya Bozdağ Dündar, Anticancer activity mechanisms of flavonoids. *J Food Process Technol* 2016, 7:8 (Suppl), <http://dx.doi.org/10.4172/2157-7110.C1.041>

49- Gül A. İşbilen, Meltem Ceylan-Ünlüsoy, Mutlu Sarıkaya, **Oya Bozdağ-Dündar**, Net Daş-Evcimen, In Vitro Aldose Reductase Inhibitory Activity of Some 2,4-Thiazolidinedione Derivatives, *American Journal of Pharmtech Research*, 7 (2) 432-440 (2017).

50- Paweł Berczyński, Aleksandra Kładna, Irena Kruk, Elmas Sarı, H. Nehir Murat, **Oya Bozdağ Dündar**, Hassan Y. Aboul-Enein, Synthesis and *in vitro* antioxidant activity study of some new piperazinyl flavone compounds. *Luminescence*, DOI: 10.1002/bio.3342, 32 (8) 1431-1441,2017

51- Ozen, C., Ceylan Unlusoy, M., Aliary, N., Ozturk, M., Bozdağ Dündar, O., Thiazolidinedione or Rhodanine: A Study on Synthesis and Anticancer Activity Comparison of Novel Thiazole Derivatives, *Journal of pharmacy & pharmaceutical sciences : a publication of the Canadian Society for Pharmaceutical Sciences, Societe canadienne des sciences pharmaceutiques*, 20(1), pp. 415-427, 2017.

52- Cigdem Ozen , Meltem Ceylan-Unlusoy , Mehmet Ozturk , **Oya Bozdağ Dündar**, A Novel Chromonyl Thiohydantoin With Anti-Proliferative Action On Primary Hepatocellular Carcinoma Cells, *Medicinal Chemistry Research*, 27(1) 153-160, 2018, DOI: 10.1007/s00044-017-2037-0

53- Sari, Elmas; Berczynski, Pawel; Kladna, Aleksandra; Kruk, Irena; **Dündar, Oya Bozdağ;** Szymanska, Monika; Aboul-Enein, Hassan Y., Synthesis and *in vitro* Antioxidant Activity Study of Some Novel Substituted Piperazinyl Flavone Compounds, *Medicinal Chemistry*, 14 (4), 372-386, 2018, DOI: 10.2174/1573406414666171204105000

54- Ertan, R., **Bozdağ, O.**, "Synthesis and Antihyperglycemic Activity of Novel Flavonyl 2,4-Thiazolidinediones", *Acta Pharmaceutica Turcica*, **39** (1), 33-37 (1997).

55- Ertan, R., **Bozdağ, O.**, Kesici, B., Palaska, E., Ertan, M., "Studies on the Synthesis and Antidepressant Activity of Some New Oxime-Ether Derivatives", *Acta Pharmaceutica Turcica*, 40 (3), 131-135 (1998).

56- **Oya Bozdağ-Dündar**, Meltem Ceylan-Ünlüsoy, Nurten Altanlar, Rahmiye Ertan, "Synthesis and Antimicrobial Activities of some new Flavone Derivatives", *Acta Pharmaceutica Turcica*, 45, 31-35 (2003).

57- **Oya Bozdağ-Dündar**, "Studies on the Synthesis of Some Novel Oxime Ether Derivatives-Yeni Bazı Oksim Eter Türevleri Üzerinde Sentez Çalışmaları", *Acta Pharmaceutica Turcica* 45, 131-135 (2003).

58- **Oya Bozdağ-Dündar**, Daş-Evcimen, N., "Etil{5-[(2-(4-klorobenzilsulfanil)-4-klorotiyazol-5-il)-metilen]-2,4-diokso-tiyazolidin-3-il}asetat bileşiğinin sentezi", *Ankara Üniv.Ecz.Fak.Dergisi (J. Fac. Pharm. of Ankara University)*, 35 (4), 245-254 (2006).

59- Meltem Ceylan-Ünlüsoy, Net Daş-Evcimen, Mutlu Sarıkaya, **Oya Bozdağ-Dündar**, Rahmiye Ertan "The Inhibitory Effects of Thiazolyl-2,4-thiazolidinedione Compounds on the Rat Kidney Aldose Reductase Enzyme-Tiyazolil-2,4-tiyazolidindion Bileşiklerinin Rat Karaciğer Aldoz Redüktaz Enzimi

Üzerindeki İnhibitör Etkileri” Ankara Üniv.Ecz.Fak.Dergisi (J. Fac. Pharm. of Ankara University), 38 (3), 181-190 (2009).

60-Oya Bozdağ Dünder, Taner Buldu, “Yeni Benzo[d]tiyazol-2-ilmetil 4-(2-aminofenilkarbamoyl) benzilkarbamat Bileşiğinin Sentezi-Synthesis Of New Benzo[d]thiazol-2-ylmethyl 4-(2-aminophenylcarbamoyl)benzylcarbamate Compound“ Ankara Üniv.Ecz.Fak.Dergisi (J. Fac. Pharm. of Ankara University) 40 (1):16-24 (2016).

61- Ertan, R., **Bozdağ, O.,** “Antidiyabetik Etkili Sülfonilüre Grubu Bileşikler ”, FABAD Journal of Pharmaceutical Sciences, **24**, 211-222 (1999).

62- Ertan, R., **Bozdağ, O.,** “2,4-Tiyazolidindion Türevi Oral Antidiyabetik Bileşikler I (Antidiyabetik Etkileri, Yapı-Aktivite İlişkileri ve Biyotransformasyonları)”, FABAD Journal of Pharmaceutical Sciences, **25**, 21-33 (2000).

63- Ertan, R., **Bozdağ, O.,** “2,4-Tiyazolidindion Türevi Oral Antidiyabetik Bileşikler II”, FABAD Journal of Pharmaceutical Sciences, **25**, 57-66 (2000).

64- Gönül, N., Ertan, R., **Bozdağ, O.,** “Fluvoksamin” FABAD Journal of Pharmaceutical Sciences, **26**, 47-56 (2001).

65- Gürkan, A. S., **Bozdağ-Dünder, O.,**”Coenzyme Q₁₀” J. Fac. Pharm. Ank. Univ.34 (2) 129-154, 2005