**Assoc. Prof. Aysegul Cort Donmez**

Pamukkale University Medical Faculty Dept. of Biochemistry Denizli/Turkey

[aysegulcort@gmail.com](mailto:aysegulcort@gmail.com) / [aysegulcort@pau.edu.tr](mailto:aysegulcort@pau.edu.tr)

**Education:**

BSc.: Hacettepe University, Faculty of Natural Sciences, Department of Biology, Ankara Turkey

M.Sc.: Akdeniz University, Medical School, Department of Biochemistry, Antalya Turkey

PhD.: Akdeniz University, Medical School, Department of Biochemistry, Antalya Turkey

**Working experience:**

2018 August-to date Associate Professor, Pamukkale University Medical Faculty Dept. of Biochemistry Denizli, Turkey

2015 March-2018 July Assistant Professor, SANKO University School of Medicine Department of Biochemistry, Gaziantep.

2014 October-2015 February. Lecturer in Near East University-Cyprus

2008-2014, graduate student in the PhD program at Akdeniz University, Medical School, Department of Biochemistry, Antalya.

2005 – 2008, graduate student in the MSc program at Akdeniz University, Medical School, Department of Biochemistry, Antalya.

**Research Interests and Skills:**

1. Oxidative stress and antioxidants in cancer.

2. Biomarkers for early diagnosis of cancer.

3.Experience in flow cytometry, western blot, fluorescence microscopy, immunohistochemistry, ELISA, cell culture and animal models.

4. Isolation of membrane fatty acids and analysis by gas chromatography.

**Publications:**

1. Determination of cancer progression in breast cells by fiber optic bioimpedance spectroscopy system. Tuba Denkçeken, Ayşegül Çört J Surg Med. 2020;4(1):84-88.

2. Effects of long- and short-term darbepoetin-α treatment on oxidative stress, inflammation and endothelial injury in ApoE knockout mice. Özdemir ED, Hanikoglu A, Cort A, Ozben B, Suleymanlar G, Ozben T. Adv Clin Exp Med. 2017 Jul;26(4):635-643.

3. Redox Control of Multidrug Resistance and Its Possible Modulation by Antioxidants. Cort A, Ozben T, Saso L, De Luca C, Korkina L. Oxid Med Cell Longev. 2016;2016:4251912.

4. Effects of bleomycin and antioxidants on the fatty acid profile of testicular cancer cell membranes. Cort A, Ozben T, Melchiorre M, Chatgilialoglu C, Ferreri C, Sansone A. Biochim Biophys Acta. 2016 Feb;1858(2):434-41.

5. Radiation triggering immune response and inflammation. Hekim N, Cetin Z, Nikitaki Z, Cort A, Saygili EI. Cancer Lett. 2015 Apr 21.

6. Epoxomicin Sensitizes Resistant Osteosarcoma Cells to TRAIL Induced Apoptosis. Hanikoglu F, Cort A, Ozben H, Hanikoglu A, Ozben T. Anticancer Agents Med Chem. 2015 Feb 8.

7. Natural Product Modulators to Overcome Multidrug Resistance In Cancer. Cort A, Ozben T. Nutr Cancer. 2015 Feb 3:1-13.

8. Bleomycin-induced trans lipid formation in cell membranes and in liposome models. Cort A, Ozben T, Sansone A, Barata-Vallejo S, Chatgilialoglu C, Ferreri C. Org Biomol Chem. 2014 Nov 24.

9. Advanced oxidation protein products and ischaemia-modified albumin in obstructive sleep apnea. Ozben S, Huseyinoglu N, Hanikoglu F, Guvenc TS, Yildirim BZ, Cort A, Ozdem S, Ozben T. Eur J Clin Invest. 2014 Sep 16.

10. Increased Plasma Soluble Tumor Necrosis Factor Receptor-1 and Myeloperoxidase Activity in Patients with Obstructive Sleep Apnea Syndrome. Hanikoglu F, Huseyinoglu N, Ozben S, Cort A, Ozdem S, Ozben T. Int J Neurosci. 2014 Sep 2:1-23.

11. Bleomycin induces sensitivity to TRAIL/Apo-2L-Mediated Apoptosis in Human Seminomatous Testicular Cancer Cells is Correlated with Upregulation of Death Receptors. Timur M, Cort A, Ozdemir E, Sarikcioglu SB, Sanlioglu S, Sanlioglu AD, Ozben T. Anticancer Agents Med Chem. 2014 Aug 29.

12. Cisplatin loaded PMMA: mechanical properties, surface analysis and effects on Saos-2 cell culture. Özben H, Eralp L, Baysal G, Cort A, Sarkalkan N, Özben T. Acta Orthop Traumatol Turc. 2013; 47(3):184-92.

13. Low serum copeptin levels in patients with obstructive sleep apnea. Ozben S, Guvenc TS, Huseyinoglu N, Sanivar HS, Hanikoglu F, Cort A, Ozben T. Sleep Breath. 2013 Dec; 17(4):1187-92.

14. N-acetyl-L-cysteine inhibits bleomycin induced apoptosis in malignant testicular germ cell tumors. Kucuksayan E, Cort A, Timur M, Ozdemir E, Yucel SG, Ozben T. J Cell Biochem. 2013 Jul; 114(7):1685-94.

15. Effects of curcumin on bleomycin-induced apoptosis in human malignant testicular germ cells. Cort A, Timur M, Ozdemir E, Ozben T. J Physiol Biochem. 2013 Jun; 69(2):289-96.

16. Effects of N-acetyl-L-cysteine on bleomycin induced oxidative stress in malignant testicular germ cell tumors. Cort A, Ozdemir E, Timur M, Ozben T. Biochimie. 2012 Dec; 94(12):2734-9.

17. Effects of curcumin on bleomycin‑induced oxidative stress in malignant testicular germ cell tumors. Cort A, Ozdemir E, Timur M, Ozben T. Mol Med Rep. 2012 Oct; 6(4):860-6.

18. Effects of N-acetylcystein on bleomycin-induced apoptosis in malignant testicular germ cell tumors. Cort A, Timur M, Dursun E, Kucuksayan E, Aslan M, Ozben T. J Physiol Biochem. 2012 Dec; 68(4):555-62.

19. Synergistic anticancer activity of curcumin and bleomycin: an in vitro study using human malignant testicular germ cells. Cort A, Timur M, Ozdemir E, Kucuksayan E, Ozben T. Mol Med Rep. 2012 Jun; 5(6):1481-6.

20. Oxidases and oxygenases in regulation of neutrophil redox pathways in Behçet's disease patients. Melikoglu MA, Kacar C, Cort A, Yucel G, Aslan M. J Enzyme Inhib Med Chem. 2012 Feb; 27(1):12-7.

21. Manganese porphyrin reduces retinal injury induced by ocular hypertension in rats. Dogan S, Unal M, Ozturk N, Yargicoglu P, Cort A, Spasojevic I, Batinic-Haberle I, Aslan M. Exp Eye Res. 2011 Oct; 93(4):387-96.

22. Suppressive effect of astaxanthin on retinal injury induced by elevated intraocular pressure. Cort A, Ozturk N, Akpinar D, Unal M, Yucel G, Ciftcioglu A, Yargicoglu P, Aslan M. Regul Toxicol Pharmacol. 2010 Oct; 58(1):121-30.

23. Effect of astaxanthin on hepatocellular injury following ischemia/reperfusion. Curek GD, Cort A, Yucel G, Demir N, Ozturk S, Elpek GO, Savas B, Aslan M. Toxicology. 2010 Jan; 12;267(1-3):147-53.

24. Oxidative and nitrative stress markers in glaucoma. Aslan M, Cort A, Yucel I. Free Radic Biol Med. 2008 Aug; 15;45(4):367-76.

**Google Scholar Citation : 787**

**Google Scholar H index : 16**

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| **Projects** |  |  |
| “ Obez Hastalarda Laparoskopik Sleeve Gastrektomi ile indüklenen kilo kaybının miRNA profillerine etkisi” | Pamukkale Uni.  2019BSP002 | 2019 |
| “Karvakrol'ün Adipositlerde İnflamasyon ve Endoplazmik Retikulum Stresi Üzerine Etkilerinin Araştırılması” | Pamukkale Uni.  2019BSP003 | 2019 |
| “Fiber Optik Biyoimpedans Spektroskopi (FOBIS) Tarama  Sistemi Gelistirilmesi, Sistemin Parçacık Büyüklüğü ve Kanser Gelişimine Duyarlılığının Test Edilmesi” | TÜBITAK  3001 (115E662) | 2015 |
| “Testis Kanserinde Bleomisinin İndüklediği Oksidatif Stresin ve N-Asetil Sistein’in Hücre Membran Lipid Profili Üzerindeki Etkileri” | Akdeniz Uni.  (2011.03.0122.004) | 2011-2014 |
| ”Role of functional voltage-gated sodium channel expression in human breast cancer cells”  Department of Life Sciences-Imperial College London. | EMBO-European Molecular Biology Organization Short-Term Fellowship | 2013 |
| ”Oxidative stress and role of functional voltage-gated sodium channel expression in human breast cancer cells”  Department of Life Sciences-Imperial College London | Federation of European Biochemical Societies (FEBS) Short-Term Fellowship | 2013 |
| “Tumor nekrosis factor-related apoptosis-inducing ligand (TRAIL) ve Epoksomisin'in osteosarkom hücrelerinde apoptozis üzerine etkileri” | Akdeniz Uni.  (2011.04.0103.042) | 2011-2014 |
| ”Effects of Bleomycin and Antioxidants on the Fatty Acid Profile and Apoptosis Markers in Testicular Cancer Cell Membranes” CNR I.S.O.F.– Bio Free Radicals Bologna/Italy. | STSM-COST (CM0603-6954),  Federation of European Biochemical Societies (FEBS) Short-Term Fellowship | 2011 |
| “Testis kanserinde, kemoterapötiklerin TRAIL, oksidatif stres ve antioksidan aracılı, apoptozis, mekanizmaları, yolakları ve TRAIL reseptör ekspresyonu üzerindeki etkileri” | TUBİTAK-COST  (SBAG 107S291-CM0603-15) | 2008-2011 |
| “Antineoplastik farmasötik eklenmiş kemik çimentosu bloklarının tümör hücre kültürü üzerine biyolojik etkileri, blokların mekanik analizi ve yüzey incelemelerinin değerlendirilmesi” | İstanbul Uni.  İstanbul Uni. | 2009-2010 |
| Deneysel Glokomda Manganez SOD Mimetiği ve NOS-2 Inhibisyonunun Koruyucu Etkisinin Araştırılması. | Akdeniz Uni.  2007.01.0103.018. | 2007-2010 |
| Behçet Hastalarında Nötrofil Oksidazlar ve Hastalık Aktivitesi ile İlişkisi | Akdeniz Uni.  No: 2008.04.0103.002 | 2008-2009 |
| Karaciğer İskemi Reperfüzyon Hasarında Karotenoid Etkilerinin İncelenmesi | Akdeniz Uni.  No: 2007.04.0103.002. | 2007-2009 |
| Deneysel Glokom Modelinde Karotenoidlerin Retina Yapı ve Fonksiyonu Üzerine Etkisi. | Akdeniz Uni.  No: 2006.02.0122.013. | 2007-2008 |

**Awards:**

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| --- | --- | --- |
| Travel grant | 43rd FEBS Congress 2018 Prague | 2018 |
| Congress Registration Bursary | 16th Young Scientists’ Forum (YSF),Kuşadası/Turkey | 2016 |
| Distinguished Abstract Award | 68th AACC Annual Meeting & Clinical Lab Expo. Philedelphia/USA 2016 | 2016 |
| Travel grant | European Cooperation in Science and Technology (COST) Action CM1201: Grenoble/Fransa | 2016 |
| Travel grant | European Cooperation in Science and Technology (COST) Action CM1201: Lodz/Polonya | 2015 |
| Congress Registration Bursary | 22th International Congress of Clinical Chemistry and Laboratory Medicine/ İstanbul  22-26 June | 2014 |
| Short-Term Fellowship | European Molecular Biology Organization (EMBO)/Imperial College London | 2013 |
| Short-Term Fellowship | Federation of European Biochemical Societies (FEBS)/Imperial College London | 2013 |
| Short Term Scientific Mission | European Cooperation in Science and Technology  /CNR I.S.O.F.– BioFree Radicals Bologna Italy. | 2011 |
| Short-Term Fellowship | Federation of European Biochemical Societies (FEBS)/CNR I.S.O.F.– BioFree Radicals Bologna Italy. | 2011 |
| Travel grant | European Federation of Clinical Chemistry and Laboratory Medicine (EFLM)  2nd European EFLM-BD conference on Preanalytical Phase Zagreb 1-2 March | 2013 |
| Congress Registration Bursary | Turkish Biochemical Society  XXV. National Biochemistry Congress/ Izmir  3-6 September | 2013 |
| Travel grant | International Union of Biochemistry and Molecular Biology  22nd IUBMB & 37th FEBS Congress /Sevilla  4-9 September | 2012 |
| Congress Registration and Accomodation Bursary | Turkish Biochemical Society  XXIII. National Biochemistry Congress/Adana  29-2.December | 2011 |
| Young Registration Scholarship | International Federation of Clinical Chemistry and Laboratory Medicine  Euromedlab Berlin 2011 – 21st IFCC-EFCC European Congress of Clinical and Laboratory Medicine  15-19 May | 2011 |
| Bursary Student | TUBİTAK-COST (European Cooperation in Science and Technology) | 2009-2011 |
| Congress Registration and Accomodation Bursary | Multidisciplinary Cancer Symposium  14-17 March | 2010 |

**English**

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| YDS | 2014 | 82.5 |
| YOK-DIL | 2021 | 83.75 |

**Spent in abroad**

2011 January- 2011 April, FEBS - Federation of European Biochemical Societies Short-Term Fellowship in CNR I.S.O.F.–BioFreeRadicals Bologna/Italy.

2013 April-2013 May, FEBS - Federation of European Biochemical Societies Short-Term Fellowship in Department of Life Sciences-Imperial College London.

2013 June-2013 Augst, EMBO-European Molecular Biology Organization Short-Term Fellowship in Department of Life Sciences-Imperial College London.

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