

CURRICULUM VITAE

Name and Surname: Prof. Dr. Orhan Canbolat

Foreign Language: English

Area of Expertise: Medical Biochemistry

PROFESSIONAL AREA

September 2020 -----: Director, Life Sciences Research and Application Center, Gazi University.....

February 2023: Head of Medical Biochemistry Department, Faculty of Medicine, Gazi University

ACADEMIC TITLE

Professor : 2001 Gazi University, Faculty of Medicine, Department of Medical Biochemistry

INTERNATIONAL PUBLICATIONS

(SCI & SSCI & Arts and Humanities)

1. Durak I., Akyol Ö., Es UM., Canbolat O. et al; Element structure in stenotic mitral valves; The American Journal of Cardiology 71, 355,1993
2. Durak I., Işık ACÜ., Canbolat O. et al; Adenosine deaminase, 5' Nücleotidase, Xanthine oxidase Superoxide dismutase and Catalase activities in cancerous and non cancerous human larengeal tissues; Free Radical Biology& Medicine 15, 681-684,1993
3. Durak I., Yurtarslanı Z., Canbolat O. et al; A methodological approach to superoxide dismutase (SOD) activity assay based on inhibition of nitroblue tetrazolium (NBT) reduction; Clinica Chimica Acta 214, 103-104,1993
4. Durak I., Akyol Ö., Canbolat O., et al; Mn- and Cu,Zn Superoxide dismutase activities during acut myocardial infarction; Clinical Chemistry 39,911-912,1993.
5. Akyol Ö ., Şencan O., Canbolat O., Durak I., Glutathion peoxidase activity in serum during acute myocardial infarction and unstable angine pectoris ; Jpn. Heart J. 34, 551-555,1993
6. Durak I., Akyol Ö., Başşeme E., Canbolat O.,et al; Reduced erythrocyte defense mechanism against free radical toxicity in patient with chronic renal failure ;Nephron 66, 76-80,1994
7. Durak I., Örmeci N., Akyol Ö., Canbolat O., et al; Adenosine deaminase, 5' Nucleotidase, Xanthine oxidase, Superoxide dismutase and Catalase activities in gastric juices from patients with gastric cancer, ulcer and atrophic gastritis;Digestive Disease and Science , 39,721-728,1994
8. Durak I., Perk H., Kavutçu M., Canbolat O., et al; Adenosine deaminase , 5' Nucleotidase, Xanthine Oxidase, Superoxide dismutase and Catalase activities in cancerous and noncancerous human bladder tissues; Free Radical Biology& Medicine 16 ,825-831,1994
- 9.Durak I., Akyol Ö., Canbolat O., et al.;Glutathion peroxidase activities in serum and cerebrospinal fluid from patients with acute lymphocytic leukemia ; American Journal of Hematology 46 254,1994
10. Canbolat O., Akyol Ö.,Kavutcu M.,Işık ACÜ.,Durak İ ; Serum adenosine deaminase and total superoxide dismutase activities before and after surgical removal of cancerous laryngeal tissue.The Journal of Laryngology and Otology 108,849-851,1994.
- 11.Durak İ.,Kavutcu M.,Canbolat O. et al.;Concentrations of some major and minor elements in larynx tissues with and without cancer.BioMetals 7,45-48,1994
- 12.Durak İ.,Çetin R.,Canbolat O.;Adenosine deaminase,5'Nucleotidase,Guanase and Cytidine deaminase activities in gastric tissues from patients with gastric cancer.Cancer Letters84,199-202,1994

13. Canbolat O.,Kavutçu M., Durak I., Magnesium contents of leukemic lymphocytes. *Biometals* 7 : 313 - 15 ,1994
- 14.Durak I.,Şahin YN.,Akyol Ö.,Canbolat O.et al.;Major and minor element structure of coronary arterial plaques.*Trace Elements and Electrolytes*11,199-200,1994
- 15.Durak I.,Canbolat O. et al.;Toxic trace element content of coronary artery plaques.*Trace Elements and Electrolytes*11,172-173,1994
- 16.Durak İ.,Kavutcu M.,Öztürk S.,Canbolat O. et al.;The effects of gentamicin on iron and copper contents of kidney tissue.*Nephron*,70:380-81,1995.
- 17.Kavutçu M.,Canbolat O., Öztürk S., et . al; Reduced enzymatic antioxidant defense mechanism in kidney tissues from gentamicin treated guine pigs : Effect of vitamin E and C *Nephron*, 72: 269-274 , 1996
- 18.Canbolat O., Durak I., Çetin R.; Activities of Adenosine deaminase, 5' nucleotidase, Guanase, and Cytidine deaminase enzymes in cancerous human breast tissue. *Breast cancer Research and Treatment*,37 : 189-193,1996
19. Durak I., Canbolat O., Kavutçu M., Activities of total , cytoplasmic, and mitochondrial Superoxide dismutase enzymes in sera and pleural fluids from patients with lung cancer. *Journal of Clinical Laboratory Analysis* 10 : 17-20,1996
20. Durak I., Güven T., Birey M., Öztürk H.S., Kurtipek Ö., Yel M., Dikmen B.,Canbolat O., Et all .,Halothane hepayotoxicity and hepatic free radical metabolism in quine pigs ; the effect of vitamin E *Canadian Journal of Anaesth.*,43: 7, 1-8 , 1996
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25. Öztürk HS, Kavutcu M, Kaçmaz M, Canbolat O, Durak İ. The effects of gentamicin on the activities of glutathione peroxidase and superoxide dismutase enzymes and malondialdehyde levels in heart tissues of guinea pigs. *Current Medical Research and Opinion* 14:47-52,1997

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44. Gökçe Atikeler, Mehmet Zahid Çıracı, Murat Kocabıyık, Mustafa Kavutçu, Orhan Canbolat, Cemal Çevik. Effect of vitamin D on free radical metabolism in renal tissues of septic rats / Septik ratların böbrek dokularında serbest radikal metabolizmasına vitamin D'nin etkisi. Turk J Bioch. 2016; 41 (5), 316-321.
45. Canbolat O., Anti Metabolite Theory, GMJ 2021; 32: 258-262
46. Canbolat, Orhan, Canbolat, Fatih, Ergün, Mehmet Ali, Yiğit, Selin and Bozdayı, Gülendamlar. "Investigation of the effect of low-power, low-frequency ultrasound application on SARS-COV-2" Turkish Journal of Biochemistry, 49, 4, 2024, 586-592. <https://doi.org/10.1515/tjb-2023-0204>

SCIENTIFIC STUDIES PRESENTED AT INTERNATIONAL MEETINGS

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2. Kurtipek Ö., Durak İ., Birey M., Güven T., Kavutçu M., Canbolat O., Reduce capacity of enzymatic antioxidant defence system in heart tissues from guinea pigs treated with halothane . The effects of Vitamin E. 3-6 May, 1997, European Society Of anaesthesiologists, Lausanne

3. Dikmen B., Kurtipek Ö., Canbolat O., The effect of halothane on iron and copper contents of liver tissue. European Academy of Anaesthesiology 17th Annual Meeting . Aug 24-27 1997, Helsinki - Finland
4. Canbolat O., 4th international Lübeck conference on the pathophysiology and pharmacology of erythropoietin and other hemopoietic growth factors from June 27 - 29 1997 Lübeck
5. Durak P., Özgen G., Ayyıldız A., Müftüoğlu S., Kultufan S., Aşan E., Canbolat O., Erbil S., Hyperoxic lung injury and free radical metabolism in rats; the effects of n- acetylcysteine., 25-28 April ,1998 European Society Of anaesthesiologists ,Barcelona.
6. Canbolat O., Yılmaz S., Özgen G., Erçöçen AR., Elgün S., Can Z., Activities of purin pyrimidin and free radical metabolising enzymes in human cutaneous carcinomas. 15-19 August 1998, European Association For Cancer Research, Sweden
7. Durmaz G., Özgen G., Canbolat O., The measurements of superoxide dismutase and glutathione peroxidase activity in patients with lung cancer. October 9-13., 1999 ,European Respiratory Society Madrid, Spain
8. Canbolat O., Kurtipek Ö., Yalçın S., Özgen G., Sevoflurane renal toxicity and renal free radical defence system in guinea pigs: the effects of vitamins E and, 21. Annual meeting of the European Academy of Anaesthesiology, 26-28 Augst 1999, Budapest
9. Canbolat O., World Health Organization, 2000, Genova
10. Canbolat O., First International Symposium on the Harmonization of the Drug Registration / licensing Procedures, 2000, İstanbul
11. Canbolat O., ESOP , 8th Annual meeting, 2000, Verona
12. Canbolat O., 4th CADREAC Annual meeting, 2001, Prag
13. Canbolat O., Second International Symposium on the Harmonization of the Drug Registration / licensing Procedures , 20001, İstanbul
14. Canbolat O., DIA 5th. Annual meeting Scientific and Regulatory Affairs Conference , 2001, Paris
15. Canbolat O., World Health Organization, 2001, Genova
16. Canbolat O., DIA , Euro meeting, 2002 Basel
17. Canbolat O., World Health Organization, 2002, Genova
18. Canbolat O., World Health Organization, 2002, Copenhagen
19. Canbolat O. , Poster ,FEBS Meeting, 2008, Athens
20. Canbolat O. , Poster , FEBS Meeting, 2009, Prag

21. Canbolat O . , Poster ,FEBS Meeting ,2010, Goteborg
22. Canbolat O . , Poster, FEBS Meeting ,2011, Torino
23. Canbolat O . , Poster, FEBS Meeting, 2012, Sevilla
24. Canbolat O . , Poster, FEBS Meeting, 2013, St. Petersburg
24. Canbolat O . , FEBS Meeting,2015, Berlin
25. Canbolat O., Antimatabolite Theory, 1st Gazi University and Kazakh National Medical University Named after S.D. Asfendiyarov Health Sciences Congress, Decmber 1-2,2021, Ankara
26. Canbolat O., Enzymatic Perspective on epigenetics Regulations; Molecular Mechanisms of Cytidine Deaminase (CD), Activation Induced Cytidine Deaminase (AID) and Apolipoprotein B MRNA - Catalytic Polypeptide-Like (APOBEC) Protein Family, 2nd Gazi University and Kazakh National Medical University Named after S.D. Asfendiyarov Health Sciences Congress, May, 25-26, 2022, Almaty

PUBLISHED ARTICLES IN NATIONAL JOURNALS

1. Ocaklılar G., Sunguroğlu K., Canbolat O., Investigation of hair zinc and copper levels in the infants with concenital malformation. Karadeniz Tıp Dergisi, 4 :1 ,1991
- 2.Durak İ., Şahin A., Yurtarslanı Z., Canbolat O.; Analysis of calcium, sodium, potassium and chloride content of calcific and non calcific rheumatic mitral valves.Journal of Ankara Medical School 13(4),317-322,1991.
- 3.Durak İ.,Canbolat O.,Kavutcu M.,Akyol Ö.,Quantitative element analysis in nucleus and crust parts of cholesterol gallstones.14 (4) 399-404,1992.
- 4.Akyol Ö.,Kavutçu M.,Canbolat O.,Işık B.,Durak İ. A study on the relationship between some of the trace element levels of hair,nail,serum and urine in healthy subjects.Turk J Med Res 11,(2),1993
- 5.Canbolat O., Kurtipek Ö.,Kavutçu M., et al ., The effect of halothone on iron and copper contents of liver. Journal of Ankara Medical School. 17: 239-245,1995
- 6.Halothane changes free fatty acid contents of heart and liver tissues in quinea pigs. Medical Research ,16,2 , 84-87,1998
- 7.Durak İ.,Ekinci C., Canbolat O., Şahin A.,Kavutçu M.,Akpoyraz M. Kanserli mide ve dokularında demir,bakır,çinko ve magnezyum konsantrasyonlarının tayini. Ankara Üniversitesi Tıp Fak. Mecmuası.44,4,1991
- 8.Akın G., Kavutçu M., Gökhun I H., Canbolat O., Koyun karaciğer glutamil transferazın saflaştırılması ve kinetik özelliklerin araştırılması. Karadeniz Tıp dergisi . 6:(1) , 1-5, 1992

- 9.Canbolat O.,Akyol Ö.,Kavutcu M.,Yurtaslanı Z.,Durak İ.;Süperoksit dismutaz (SOD) aktivitesinin tayini üzerine deneysel bir çalışma.Ankara Tıp Fak.Mecmuası 46,75-84,1993.
- 10.Akyol Ö.,Kavutcu M.,Canbolat O.,Örmeci M.,Durak İ.;Mide suyunda 5'Nucleotidaz ve CuZn-SOD enzimlerinin aktiviteleri üzerine sıcaklık ve zamanın etkileri:Deneysel birçalışma.A.Ü.Tıp Fakültesi Mecmuası 46,581-590,1993.
- 11.Canbolat O., Yaşa M H ., Kavutçu M., ve ark., reaktif artiritli hastaların serumlarında Adenosin de Aminaz aktivitesi tayini. A.Ü.Tıp fakültesi Mec. 46 (4), 631- 38, 1993
- 12.Öztürk H S., Kavutçu M., Akyol Ö., Işık A Ü., Canbolat O., Larenks anserli hastaların serumlarında guanaz ve glutatyon Peroksidaz aktivitelerinin tayini. Türkiye Tıp Dergisi. 1 (1),15 - 18, 1994
- 13.Canbolat O.,Kavutçu M., Öztürk H S., Kobaylarda gentamisinin karaciğer toksitesinin araştırılması : E vitamininin etkisi . A.Ü. Tıp fakültesi Mec.48: 191-198,1995
- 14.Canbolat O., Kavutçu M., Biri H., Üriner sistem taşlarında ESWL - eser element ilişkisinin araştırılması. A.Ü. Tıp Fakültesi Mec.48: 391-396,1995
- 15.Canbolat O., Kundakçı N., Kavutçu M. Psöriasisli hastalarda süper okside dismutaz ve glutatyon peroksidaz aktivitelerinin tayini.Ankara Tıp Mec.49 (3) ,133-136,1996
- 16.Öztürk H S., Kurtipek Ö.,Dikmen B., Kavutçu M., Canbolat O., Akciğer dokusunda halotan anestezisinin etkisi ve serbest radikal metabolizması . Tıp ve Sağlık Dergisi. (1) ,18-21,1997
17. Kavutçu M., Öztürk H S., Olcay E., Canbolat O., Gentamisininkobay kalbinde glutatyon peroksidaz v emalon dialdehit seviyesi üzerine etkisi. Karadeniz Tıp Dergisi. 9:2, 115-118,1996
- 18.Karaayvaz M.,Öztürk H S., Kocaoğlu H.,Elgün S.,Canbolat O. İnce barsak iskemisi ve serbest radikal metabolizması. Türkiye Klinikleri Tıp Bilimleri Dergisi. 16: 437-439,1996
- 19.Öztürk H S ., Aydın Ö., Kaçmaz M., Canbolat O., Nazal polipli hastaların polip dokularında adenosin deaminaz enzim aktivitesinin tayini. Kulak Burun Boğaz İhtisas Dergisi. 8.5,198-200,1998
- 20.Özgen G., Yaşa H., Bektaş A., Beyler AB., Büyükoçak., Canbolat O., Rektum kanserinde adenosine deaminaz aktivitesi. T.Klin J.Med. Sci, 18, 369-371, 1998
- 21.Canbolat O., Bilimin Dalgalanması, SD (Sağlık Düşüncesi ve Tıp Kültürü) Dergisi, 2018, 46, 94-99
- 22.Canbolat O.,Doğa Bilimlerinin Felsefi Temelleri, SD (Sağlık Düşüncesi ve Tıp Kültürü) Dergisi, 2019, 50., 96-99
- 23.Canbolat O., Referans noktasını değiştirmek, SD (Sağlık Düşüncesi ve Tıp Kültürü) Dergisi, 2020, 55., , 110-111

SCIENTIFIC STUDIES PRESENTED AT NATIONAL MEETINGS

1.Canbolat O., Akyol Ö., Işık AC., Kanserli larenks dokusu ve bu dokuya komşu non infiltrate larenks dokusunda adenoazin deaminaz ve 5' nükleotidaz aktivitelerinin tayini. Türk Biyokimya Derneği, 11. Ulusal biyokimya kongresi 24-29 Ekim 1992 ,Kemer -Antalya (sözlü bildiri)

2- Göknur A., Kavutçu M., Gökhun İH., Canbolat O., Koyun karaciğer gama glutamil transferazın saflaştırılması ve kinetik özelliklerinin araştırılması. 11. Ulusal biyokimya kongresi 24-29 Ekim 1992 ,Kemer -Antalya (Sözlü bildiri)

3- Canbolat O., Yaşa H., Kavutçu M., Öztürk H., Ulutepe S., Reaktif artiritli hastaların serumlarında adenoazin deaminaz aktivitesi tayini. 11. Gevher Nesibe Tıp Günleri 19-22 Nisan 1993 (Sözlü bildiri)

4-Canbolat O., Yurtarslanı Z., Lösemili hastalarda adenoazin deaminaz ve 5' nükleotidaz aktivitesi 10. Ulusal kanser kongresi 3-7 Mayıs 1993 İstanbul (sözlü bildiri)

5.Öztürk H S., Kavutçu M., Olcay E., Ulutepe S., Canbolat O., Gentamisin ve vitamin E ' nin kobay akciğerinin enzimatik antioksidan savunma sistemi üzerindeki etkileri . IV.KaradenizTıp Günleri 31 Mayıs -3 Haziran 1995 (sözlü bildiri)

6.Kavutçu M., Öztürk H S., Canbolat O., Durak I., Gentamisin kobay kalbinde süperoksit dismutaz aktivitesi ve malon dialdehit seviyeleri üzerine etkisi. IV.KaradenizTıp günleri 31 Mayıs -3 Haziran 1995 (sözlü bildiri)

7.Durak I., Kavutçu M.,Canbolat O., Gentamisinin oluşturduğu böbrek toksitesinde enzimatik serbest radikal savunma sisteminin rolü : Antioksidan vitaminlerin etkisi. IV.KaradenizTıp Günleri 31 Mayıs -3 Haziran 1995 (sözlü bildiri)

8. Canbolat O., Çetin R., Kavutçu M., Demirci S., Durak İ., Meme kanserli hastaların kanserli ve ona komşu normal dokularda adenoazin deaminaz, 5' nükleotidaz , guanaz ve sitidin deaminaz enzimlerinin Aktivitelerinin tayini. IV Karadeniz Tıp Günleri 31 Mayıs- 3 Haziran 1995 (sözlü bildiri)

9.Kurtipek Ö., Canbolat O., ve ark., Kobaylarda halotan ve E vitaminin hepatik serbest radikal metabolizması üzerine etkileri.19. Türk Anesteziyoloji ve reanimasyon Kongresi (Uluslararası katılımlı) 17-22 ekim 1995 Mersin

10.Öztürk H S., Elgün S., Karayvaz M., Kaçmaz M., İnce barsak iskemisi ve serbest radikal metabolizması.XIII: Ulusal Biyokimya Kongresi.(Uluslararası katılımlı - Poster) 26-30 Mart1996

11.Canbolat O., Fandrey J., Jelkmann W., Karaciğer hücre kültürlerinde hidrojen peroksitin antioksidan enzimlerin aktivitelerine ve eritropoetin üretimine etkileri.Serbest radikaller ve antioksidanlar araştırma derneği 1. ulusal kongresi 30 Ekim-2 Kasım 1997 Antalya

- 12.Canbolat O., Yılmaz S., Özgen G., Erçöçen AR., Elgün S., Can Z., İnsan deri tümörlerinde pürin pürimidin ve serbest radikal metabolizması enzim aktiviteleri. radikaller ve antioksidanlar araştırma derneği 1. ulusal kongresi 30 Ekim-2 Kasım 1997 Antalya (sözlü bildiri)
- 13- Durak i., Öztürk S., Olcay E., Kavutçu M., Yel M., Birey M., Güven T., Kaçmaz M., Canbolat o., Adriamisin-serbest radikal radikal metabolizması ilişkisi: Antioksidan vitaminlerin koruyucu etkisi . XII Ulusal Kanser Kongresi , 23-26 Nisan 1997 Belek Antalya (Poster)
- 14.Canbolat O., 1. Ulusal Tıp Eğitimi kongresi 12-15 Kasım 1998 Ankara
- 15.Canbolat O., Jelkmann W., Kaçmaz M., Free radical metabolism in TNF treated human hepatoma cells and primary renal tubular cell culture . Free radicals ,nitric oxide and antioxidant in health and disease.september 18-24 1999 Antalya
- 16.Canbolat O ., Poster , Türk Biyokimya Derneği ve FEBS Balkan Kongresi , Antalya , 2007
17. Canbolat O ., Poster , Türk Biyokimya Derneği 2008 yılı Kongresi , Kapadokya , 2008
18. Canbolat O ., Bilim ve Bilim felsefesi , sözlü sunum Türk Biyokimya Derneği 2010 yılı Kongresi , Eskişehir, 2010
19. Canbolat O ., , Kanama ve Pıhtılaşma Bozuklukları , sözlü sunum , Türk Klinik Biyokimya Derneği 2011 yılı Kongresi , Dalaman , 2011
20. Canbolat O ., Türk Biyokimya Derneği 2011 yılı Kongresi , Adana , 2011
- 21.Ozciftci S, Gamli M, Ornek D, Horasanli E, Dikmen B, Canbolat O, Ciraci MZ. The Effects Of Fluids Given Peroperatively On Injury Of Ischemia/Reperfusion. III NWAC, 2012 Sayfa 54, Poster no: 46. İstanbul
- 22.Atikeler G, Ciraci MZ, Kocabiyik M, Kavutcu M, Canbolat O. İlaç düzeyi parametrelerinde ölçüm belirsizliğimizin hesaplanması. Klinik Biyokimya Uzmanları Derneği 9. Ulusal kongresi ; KBUD Kongre Lab Expo. 24-28 Eylül 2013
23. M Ciraci, G Atikeler, M Kocabiyik, M Kavutcu, C Ozogul, O Canbolat, Investigation of free radical metabolism in septic rat's liver tissues treated with lipopolysaccharide; effect of vitamin, The Febs Journal, 2015, 282, 29
24. M Kocabiyik, G Filiz Atikeler, MZ Ciraci, C Ozogul, C Cevik, O Canbolat, M Kavutcu, Investigation of free radical metabolism in septic rats' heart tissues treated with lipopolysaccharide; effect of vitamin D, Febs Journal, 2016, 283, 66
25. Orhan Canbolat, Member of the organization board, X. Turkey Bioethics Symposium, Turkey Bioethics Association and Istanbul Aydın University, 17-18 October 2019, Istanbul
26. Orhan Canbolat Davetli Konuşmacı, Hekimlik Üzerine Bilimsel Pratiklerini Akil Yoluyla Üretme İmkani; Meslek, Sanat, Bilim, İstanbul Aydın Üniversitesi II. Ulusal Diş Hekimliği Öğrenci Kongresi, Mayıs 2023, İstanbul

27. Urinary System Stone Analysis Using Fourier Transform Infrared Spectroscopy (FTIR) Method, Canpunar N., Altınsoy M. C., Aslan A. K., Türkmen S., Malikov E., Aliyeva A., et al. XXXIII. WASPaLM World Congress & XXIV. National Clinical Biochemistry Congress, Antalya, Türkiye, 16 - 20 Ekim 2024, ss.125

28. Streptozotosin ile Diyabet Oluşturulan Ratlarda Miyokard İskemi Reperfüzyon Hasarı Modelinde Ozon Tedavisi ve C Vitamininin Kalp Dokusu Üzerine Etkisi AYDOĞAN B., ÖZDEMİR Ç., CANBOLAT O., KAVUTÇU M., ÖZER A., EMNİYET SERT A. A., et al. Göğüs Kalp Damar Anestezi ve Yoğun Bakım Derneği 30. Ulusal Kongresi, Samsun, Türkiye, 4 Kasım - 06 Ekim 2024

29. Determination of the Effect of EF24 on Cisplatin-induced Cell Death Response in Triple Negative Breast Cancer Cells SÖYLEMEZ S., Deletioğlu V., ÖNEN H. İ., CANBOLAT O. 9th International Congress of the Molecular Biology Association of Turkey, Türkiye, 12 - 14 Eylül 2024, ss.171

30. Developing microalgae-based sustainable CO2 reduction strategies and investigating the potential of microalgal biomass as biodiesel, biodegradable and biosorbent-based green energy source-1001 project sample, ERTİT TAŞTAN B., ORHAN G., CANBOLAT O., GÜL Ü. D., SAĞDIÇIOĞLU CELEP A. G., BAKIR B., Bioenergy Studies Symposium, Antalya, Türkiye, 17 - 18 Ocak 2024 27.

PROJECTS

1. Metabolism of Free Radicals in Tumor Development and Enzymatic Repair Mechanisms of Oxidative DNA Damage. Project supervisor, Ankara University Research Fund, Project supervisor, (Completed)

2. Evaluation of free radical metabolism in cirrhosis-induced rats with carbon tetra chloride; Antioxidant effect of stobadin. / Gazi University Scientific Research Fund, Project supervisor, (Completed)

3. Investigation of the effect of ultra sound waves on Corona Virus (COVID-19) genetic material / Project supervisor, 2021-2023, Gazi University Scientific Research Fund Project supervisor, (Completed)

4. Investigation of the effect of synthetic Ribose 5 Phosphate and synthetic nucleoside analogs containing Ribose 5 Phosphate in its structure on PRPP synthetase enzyme in breast cancer, which is transported into the cell with special nano systems, Gazi University Scientific Research Fund, Special area support Project; Project supervisor, 2022-2025

5. Developing microalgae-based sustainable CO2 reduction strategies and investigating the potential of microalgal biomass as a biodiesel, biodegradable and biosorbent-based green energy source, Tubitak Project; Researcher, 2022-2024

6. Determination of the effect of EF24 on cisplatin-induced cell death response in triple negative breast cancer cells, Researcher, 2023-2025, (Completed)

7. Cytidine deaminase and pyrimidine nucleotidase in cancer cells enzymes with gemcitabine and its intracellular metabolites investigating epigenetic mechanisms involved The effect of lupeol, Gazi University Scientific Research Fund, Project supervisor, 2023-2025(Completed)

PATENTS

1.Device to destroy the covid-19 virus with ultrasound sound waves- 2022
Useful model, 2022

2.Three-dimensional real-time image assembly and transfer system
Utility Model, Application Submitted, Invention Application Number: 2020/13961 , Standard Registration

AWARDS

1993-1994-Ankara University Health Sciences Award
(To publication number 6 as a working group)

1994-1995 - Ankara University Health Sciences Award
(To publication 8 as a working group)

BOOKS

a.Durak I., Sunguroğlu K., Canbolat O., Kimyasal Savaş Gazları,Polat Yayınları,Ankara,1991

b.Canbolat O., İlaç ve İlaç Politikalarına Giriş, Sena Ltd.Şti., Ankara, 2002

c.Canbolat O., İktidar Aynası , Lotus yayınları , Ankara, 2004

d.Canbolat O., Biyokimya Kitabı , Prospektus yayınları, Ankara, 2006

e.Canbolat O ., Işığa ışık tutmak , Otorite yayınları, Ankara , 2009

f. Canbolat O., Asker ve Tüccar , Nablus 1918, Lotus Yayınları, 2013

g. Orhan Canbolat, Bilim ve Bilim Felsefesi, Otorite yayınları, Ankara, 2016

h. Orhan Orhan Canbolat, Karanlıktan Korkan Çocuk, Akademisyen Kitabevi, 2022

BOOK CHAPTER

Orhan Canbolat, Klinik Bilimlere Giriş I , Böbrek Fonksiyon Testleri, Ankara Üniversitesi Yayınları ,An-Tıp, Ankara ,1996

Orhan Canbolat, 3. bölüm İskemi ve Reperfüzyonun Temel Moleküler Mekanizmaları, Deneyisel İskemi reperfüzyon Modelleri, Editörler Ayşegül Küçük, Mustafa Arslan Akademisyen Kitabevi, 2021

MEMBERSHIPS IN SCIENTIFIC ORGANIZATIONS

- a)Turkish Biochemistry Association
- b)Ankara Medical Chamber
- c)Turkey Association of Free Radical Antioxidants
- d)European Cancer Association
- e)Turkish Pharmacopeia

UNDERGRADUATE COURSES

Turkish Courses

1. Introduction to Nucleotide Metabolism, Faculty of Medicine,
2. Purine-Pyrimidine and Nucleic Acid Metabolism, Faculty of Medicine,
- 3.Mitochondria, Electronic Transport Chain and Oxidative Phosphorylation, Faculty of Medicine
- 4.Clinical Biochemistry Course/ kidney function test
5. Free Radical Metabolism
6. Science and Philosophy of Science
- 7.Laboratory lessons: Faculty of Medicine
8. Biochemistry Training Course of Biochemistry Assistants
9. Enzim ve Enzim Kinetiği
10. Cell membranes
- 11.Carbohydrate metabolism; Glycolysis, SAS, Pentose Phosphate Pathway, Glycogen Degradation and Synthesis, Gluconeogenesis

12. Rare Disease

13. HPLC principles and methods

English Courses

1. Introduction to Nucleotide Metabolism, Faculty of Medicine,

2. Purine-Pyrimidine and Nucleic Acid Metabolism, Faculty of Medicine,

3. Mitochondria, Electronic Transport Chain and Oxidative Phosphorylation,

4. Clinical Biochemistry (kidney functions) Course

5. Free Radical Metabolism

6. Science and Philosophy of Science, Elective Course

7. Laboratory lessons: Faculty of Medicine

8. Biochemistry Trainings of Biochemistry Assistants

9. Enzim ve Enzim Kinetiği

10. Cell membranes

11. Carbohydrate metabolism; Glycolysis, SAS, Pentose Phosphate Pathway, Glycogen Degradation and Synthesis, Gluconeogenesis

Postgraduate education - PhD Courses

1. Nucleotide metabolism

2. Nucleic acid metabolism

5. Mitochondria, Electronic Transport Chain and Oxidative Phosphorylation,

3. Cancer Biochemistry

4. Anti-metabolite Theory

5. Mitochondria; Cancer, Aging, Apoptosis

6. Free radical Metabolism and Related Disease

Thesis Management

M.ZAHİT ÇIRACI, Specialization in Medicine, 2013, Investigation of free radical metabolism in liver tissues of rats induced with lipopolysaccharide sepsis; effect of vitamin D

P. HAVARE, Master's Degree, 2011 Relationship between paracetamol use and rat liver free radical metabolism: effect of n-acetylcysteine

S.DUYGULU, Specialization in Medicine, 2009, Free radical metabolism in rats, injected with experimental cirrhosis with carbon tetrachloride; antioxidant effect of stobadin

S.GÜMÜŞLÜ, PhD, 2007, Determination of adenosine deaminase and 5 nucleotidase enzyme activities in bone marrow cells of leukemia patients

A.AVCI 2001, Specialization in Medicine, 2001, Renal antioxidant defense system in diabetic rats and effects of vitamin E

G.ÖZGEN, Specialization in Medicine, 1999, Halothane anesthesia in rabbits; Effects of propofol and thiopental on antioxidant system

P.YILMAZ, Master's Degree, 1997 Effect of Halothane anesthesia on plasma lipid peroxidation

COURSES CONDUCTED

2021- Experimental Ischemia Reperfusion Models Course-1

Life Sciences Application Research Center – Certificate Program

2022 -Experimental Ischemia Reperfusion Models Course - 2

Life Sciences Application Research Center - Certificate Program

2022 - Applied Basic Cell Techniques Course

Life Sciences Application Research Center - Certificate Program

2023- 3. Experimental Ischemia/Reperfusion Models

Life Sciences Application Research Center - Certificate Program

2023 - 4. Experimental Ischemia/Reperfusion Models Course

Life Sciences Application Research Center- Certificate Program

2024- 5. Experimental Ischemia/Reperfusion Models Course

Life Sciences Application Research Center - Certificate Program

2024.6. Experimental Ischemia/Reperfusion Models Course

Life Sciences Application Research Center - Certificate Program

ACADEMIC STUDIES ABROAD

a) 1994 May-October; Guest researcher , Study on purine-pyrimidine metabolism, 6 months, at the Institute of Biochemistry of the Faculty of Medicine at Ancona, Italy- The scholarship awarded by the Italian Government

b) 1995 November-December, Invited Researcher, Study on purine-pyrimidine metabolism, 2 months, at the Institute of Biochemistry of the Faculty of Medicine at Ancona, Italy, The scholarship awarded by TÜBİTAK

c) 1997 May-August; Invited Researcher, Lübeck Medical University Institute of Physiology, 3 months, Free Radicals Work on a joint project exploring the effect of erythropoietin production- The scholarship awarded by German Academic Exchange Program (DAAD) Germany-

d) March-July 2011;, Invited Researcher, Granada University Institute of Biotechnology, Biomedical Research Center, Health Sciences Technology Park, Spain, 4 months, for "Mitochondrial Pathology and Radical Metabolism"- The scholarship awarded by Higher Education Council (YÖK)

e) September 24 - October 8, 2021, Invited lecturer, Almaty, Kazakh Al Farabi Kazakh National University, English Medical Faculty, biochemistry lecture on nucleotide, metabolism, nucleic acid metabolism, mitochondrial-oxidative phosphorylation, citric acid cycle and history of genetics.

CONGRESS: (CONGRESS CHAIRMAN)

- a) Chairman, SHDRLP, 1st International Symposium on Harmonization and Drug Registration and Licensing Procedures), 16-18, November 2000, İstanbul, TURKEY
- b) Chairman, ISHDRLP 2, International Symposium on Harmonization and Drug Registration and Licensing Procedures), 9-11, October 2001, İstanbul, TURKEY
- c) Istanbul Aydın University - Al-Farabi Kazakh National University "Current developments in Hospital Management and Health Management" Course., Chairman, 06- 16. March, 2019, İstanbul, TURKEY
- d) Chairman, 1st Gazi University and Kazakh National Medical University Named after S.D. Asfendiyarov Health Sciences Congress, December 1-2, 2021, Ankara
- e) Chairman, 2st Gazi University and Kazakh National Medical University Named after S.D. Asfendiyarov Health Sciences Congress, 25-26,2022, Almaty

EDITORS:

- a)Journal of Medicine and Health

COMMITTEE MEMBERSHIP

- a)Medical Research Journal
- b)Koru Proceedings

ADVISOR OF JOURNAL

- a) Journal Of Ankara Medical School
- b) Turkish Journal Of Medical Science
- c) Gazi Medical Journal
- d) Pharmaceutical Nanotechnology

ACADEMIC MANAGEMENT DUTIES

2023 - -- Head of Department, Gazi University, Faculty of Medicine, Medical Biochemistry

2020 ---- Director of Gazi University, Life Sciences Application and Research Center

2017 - 2020 Head of Department, Istanbul Aydın University, Faculty of Medicine Medical Biochemistry

2017 - 2020 Vice President, Istanbul Aydın University

2017 - 2019 Dean, Istanbul Aydın University, Faculty of Dentistry

2015 - 2017 Rector, Yüksek İhtisas University

2003 - 2003 Deputy Chief Physician, Gazi University, Research and Training Hospital

SCOPUS

Affiliation(s): Gazi University, Medical Faculty, Medical Biochemistry Department
Gazi University, Life Sciences Research and Application Center

Documents by author; 46

Total citations ; 1716

h-index: 21

GOOGLE SCHOLAR

Prof. Dr. Orhan Canbolat

-Gazi University, Medical Faculty, Medical Biochemistry Department

-Ankara University, Medical Faculty, Medical Biochemistry Department

Total citations ; 2629

h-endeksi 25

i10-endeksi 34