

Prof. Berna DEMİRCAN

Personal Information

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Education Information

Post Doctorate, Columbia University İn The City Of New York, Herbert Irving Cancer Research Center, Cancer Genetics, United States Of America 2007 - 2010

Post Doctorate, University Of Florida, Shands Cancer Research Center, Biochemistry&Molecular Biology, United States Of America 2006 - 2007

Doctorate, Atatürk Üniversitesi, Tıp Fakültesi, Biyokimya , Turkey 2000 - 2006

Post Graduate, Atatürk Üniversitesi, Tıp Fakültesi, Biyokimya , Turkey 1999 - 2000

Foreign Languages

German, B1 Intermediate

English, C1 Advanced

Dissertations

Doctorate, C1'in COX Aktiviteleri ve NO Düzeylerine İn vivo ve İn vitro Etkilerinin diğer NSAİİlerle karşılaştırmalı olarak araştırılması, Atatürk Üniversitesi, Tıp Fakültesi, Biyokimya, 2006

Post Graduate, Aminoasidürilerin KAğıt Kromatografisi ve HPLC ile KARşılaştırmalı olarak incelenmesi, Atatürk Üniversitesi, Tıp Fakültesi, Biyokimya, 2000

Research Areas

Life Sciences, Molecular Biology and Genetics, Molecular Biology of Cancer, Natural Sciences

Academic Titles / Tasks

Associate Professor, Technische Universitaet Darmstadt, Natural Sciences, Epigenetics and Cell Biology Lab, Germany, 2019 - 2019

Associate Professor, University of Illinois at Chicago, Oral Medicine and Molecular Research, USA, 2013 - 2013

Expert, Columbia University in the City of New York, Medical Faculty, Institute of Cancer Genetics, USA, 2007 - 2010

Expert, University of Florida, Medical Faculty, Shands Cancer Center, USA, 2006 - 2007

Research Assistant, Atatürk Üniversitesi, Tıp Fakültesi, Temel Tıp Bilimleri, 2000 - 2006

Professional Experience

Head of Department, İstanbul Medeniyet Üniversitesi, Tıp Fakültesi, Tıbbi Biyoloji Anabilim Dalı, 2012 - Continues

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **The miR-424(322)/503 cluster orchestrates remodeling of the epithelium in the involuting mammary gland**
Llobet-Navas D., Rodriguez-Barrueco R., Castro V., UGALDE A. P. , Sumazin P., Jacob-Sendler D., DEMİRCAN B., CASTILLO-MARTIN M., Putcha P., Marshall N., et al.
GENES & DEVELOPMENT, vol.28, pp.765-782, 2014 (Journal Indexed in SCI)
- **The effects of 3-benzoyl-1-methyl-4-phenyl-4-piperidinolhydrochloride (C1), indomethacin, nimesulide and rofecoxib on cyclooxygenase activities in carrageenan-induced paw edema model**
Sahin y., DEMİRCAN B., Suleyman H., Aksoy H., Gul H.
TURKISH JOURNAL OF MEDICAL SCIENCES, vol.40, pp.723-728, 2010 (Journal Indexed in SCI)
- **Hippophae rhamnoides attenuates nicotine-induced oxidative stress in rat liver**
Taysi ., Gumustekin K., DEMİRCAN B., Aktas ., Oztasan ., Akcay ., Suleyman H., Akar ., Dane ., Gul .
PHARMACEUTICAL BIOLOGY, vol.48, pp.488-493, 2010 (Journal Indexed in SCI)
- **Antioxidative status and lipid peroxidation in kidney tissue of rats fed with vitamin B-6-deficient diet**
Keleş M., Al B., Gümüştekin K., DEMİRCAN B., Özbey İ., Akyüz M., Yılmaz A., Demir E., Uyanık A., Ziyapak T., et al.
RENAL FAILURE, vol.32, pp.618-622, 2010 (Journal Indexed in SCI)
- **Antioxidant Enzymes in Serum of Patients with Painful Acute Periradicular Abscess**
Evcil S., Uzun İ., DEMİRCAN B., Keleş A.
ASIAN JOURNAL OF CHEMISTRY, vol.21, pp.2099-2104, 2009 (Journal Indexed in SCI)
- **Comparative Epigenomics of Human and Mouse Mammary Tumors**
Demircan B., Dyer L., Gerace M., Lobenhofer E., Robertson K., Brown K.
GENES CHROMOSOMES & CANCER, vol.48, pp.83-97, 2009 (Journal Indexed in SCI)
- **Increased oxidant stress and decreased antioxidant status in erythrocytes of rats fed with zinc-deficient diet**
Taysi S., Cıkman O., Kaya A., DEMİRCAN B., Gumustekin K., Yılmaz A., Keleş M., Akyüz M., Turkeli M.
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.123, pp.161-167, 2008 (Journal Indexed in SCI)
- **Vitamin E and L-carnitine, separately or in combination, in the prevention of radiation-induced brain and retinal damages**
Sezen O., Ertekin M., DEMİRCAN B., Karslıoğlu I., Erdogan F., Kocer İ., Calık İ., Gepdiremen A.
NEUROSURGICAL REVIEW, vol.31, pp.205-213, 2008 (Journal Indexed in SCI)
- **The transglutaminase 2 gene (TGM2), a potential molecular marker for chemotherapeutic drug sensitivity, is epigenetically silenced in breast cancer**
Ai ., Kim W., DEMİRCAN B., Dyer L., Bray K., Skehan ., Massoll ., Brown K. D.
CARCINOGENESIS, vol.29, pp.510-518, 2008 (Journal Indexed in SCI)
- **Maternal serum interleukin-10, interleukin-2 and interleukin-6 in pre-eclampsia and eclampsia**
Börekeçi B., Aksoy H., Al R., DEMİRCAN B., Kadanalı s.
AMERICAN JOURNAL OF REPRODUCTIVE IMMUNOLOGY, vol.58, pp.56-64, 2007 (Journal Indexed in SCI)
- **Anti-inflammatory and side effects of cyclooxygenase inhibitors**
Suleyman H., DEMİRCAN B., Karagöz y.
PHARMACOLOGICAL REPORTS, vol.59, pp.247-258, 2007 (Journal Indexed in SCI)
- **Tumour necrosis factor-alpha levels in hepatitis B virus-related chronic active hepatitis and liver cirrhosis and its relationship to Knodell and Child-Pugh scores**
Kiki İ., Yılmaz O., Erdem F., Gündoğdu M., DEMİRCAN B., Bilici M.
INTERNATIONAL JOURNAL OF CLINICAL PRACTICE, vol.60, pp.1075-1079, 2006 (Journal Indexed in SCI)
- **Effects of endurance training on antioxidant defense mechanisms and lipid peroxidation in testis of rats**
Aksoy y., Yapanoglu a., Aksoy H., DEMİRCAN B., Öztasan n., Çanakçı e., Malkoc İ.
ARCHIVES OF ANDROLOGY, vol.52, pp.319-323, 2006 (Journal Indexed in SCI)
- **Nitric oxide levels in serum of patients with symptomatic irreversible pulpitis.**
Evcil M., Keleş A., Uzun I., DEMİRCAN B., Köseoğlu M.
J Pain Palliat Care Pharmacother., pp.15-9, 2006 (Journal Indexed in SCI Expanded)
- **Effects of endurance training and acute exhaustive exercise on antioxidant defense mechanisms in rat heart**
Gul M., DEMİRCAN B., Taysi S., Oztasan n., Gumustekin K., Sıktar n., Polat M., Akar s., Akcay F., Dane S.
COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY A-MOLECULAR & INTEGRATIVE PHYSIOLOGY, vol.143, pp.239-245, 2006 (Journal Indexed in SCI)

- **Oxidative stress in infants born to preeclamptic mothers**
Tastekin a., Ors R., DEMİRCAN B., Sarıçam z., İngeç M., Akcay F.
PEDIATRICS INTERNATIONAL, vol.47, pp.658-662, 2005 (Journal Indexed in SCI)
- **Plasma values of oxidants and antioxidants in acute brain hemorrhage - Role of free radicals in the development of brain injury**
aygul R., DEMİRCAN B., Erdem f., Ulvi H., yıldırım A., demirbaş f.
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.108, pp.43-52, 2005 (Journal Indexed in SCI)
- **Lipid peroxidation and antioxidant enzymes in serum of patients with painful acute periradicular abscess.**
Evcil S., Keleş M., Uzun İ., Kızıltunc A., DEMİRCAN B.
The Pain Clinic., pp.307-313, 2005 (Journal Indexed in SCI)
- **. Effects of indomethacin, celecoxib and meloxicam on glutathione, malondialdehyde and myeloperoxidase in rat gastric tissue.**
DEMİRCAN B., Çelik G., Suleyman H., Akcay F.
The Pain Clinic, pp.383-388, 2005 (Journal Indexed in SCI Expanded)
- **Role of adrenal gland hormones in the mechanism of antiulcer action of nimesulide and ranitidine**
Suleyman H., DEMİRCAN B., Gocer F., Halıcı z., Hacımüftüoğlu A.
POLISH JOURNAL OF PHARMACOLOGY, vol.56, pp.799-804, 2004 (Journal Indexed in SCI)
- **Anti-inflammatory effects of selective COX-2 inhibitors.**
Suleyman H., DEMİRCAN B., Karagöz y., Öztasan n., Suleyman B.
Pol J Pharmacol, pp.775-80, 2004 (Journal Indexed in SCI Expanded)

Articles Published in Other Journals

- **Epigenetic Alterations in High Nitric Oxide-Adapted Head and Neck Squamous Cell Carcinoma Cell Lines**
Demircan B., Yücel B., Kaya İ. A. , Radosevich J.
Cancer Science & Research, vol.2, no.1, pp.1-5, 2019 (Refereed Journals of Other Institutions)
- **Effects of Alendronate, Calcitonin and Raloxifene Used in the Treatment of Postmenopausal Osteoporosis on Serum NO Levels.**
Karatay S., Kızıltunc A., Melikoğlu M., Gureser G., DEMİRCAN B., Senel K.
Osteoporoz Dünyasından, pp.33-35, 2005 (Other Refereed National Journals)

Book & Book Chapters

- **Cancer Epigenetics: Focus on DNA Methylation**
Demircan B.
in: Research and Reviews in Health Sciences, Atik A, Editor, Gece Publishing, Ankara, pp.181-192, 2019
- **The Use of UV Lasers in Fluorescent Activated Cell Sorter Analysis**
DEMİRCAN B., Alkoç O., Deliu Z., Radosevich J.
in: UV Radiation, Radosevich JA, Editor, Nova Science Publishers, New York, pp.271-282, 2014
- **Gel Electrophoresis**
İsbir T., Kırac D., DEMİRCAN B., Dalan B.
in: Brenner's Encyclopedia of Genetics, Sydney Brenner and Jeffrey Miller, Editor, Elsevier, La, pp.757-759, 2013
- **DNA Repair, Cancer and Cancer Therapy - The Current State of Art**
İsbir T., DEMİRCAN B., Kırac D., Dalan B., Gormus U.
in: DNA Repair and Human Health, Sonya Vengrova, Editor, In Tech Open Publisher, Serv, pp.279-306, 2011
- **Cancer Epigenetics**
DEMİRCAN B., Brown K.
in: Epigenetics Mechanisms, Functions and Human Effects., Pinter B, Meszaros Z, Editor, Nova Science Publishers, Inc, Bsw, pp.273-280, 2009

Refereed Congress / Symposium Publications in Proceedings

- **Epigenetic Alterations in High Nitric-Oxide Adapted Head and Neck Squamous Cell Carcinoma Cell Lines**
Demircan B.
5th International Congress on Epigenetics and Chromatin, Vienna, Austria, 22 - 23 August 2019, pp.37
- **Epigenetic Alterations in Glioma**
DEMİRCAN B., YÜCEL B., Altındağ S., Yılmaz S., Yılmaz S., Yılmaz S., Yılmaz S., Yılmaz S., Yılmaz S., Yılmaz S., et al.
5th World Congress on Epigenetics and Chromosome, İstanbul, Turkey, 15 November 2018, vol.7, pp.27
- **Relationship between prostate cancer and MGMT, SOCS3, RASSF1 and PTEN mutations**
DEMİRCAN B., YÜCEL B., Altındağ S., Salman Yılmaz S., YILDIRIM A.
8th Eurasian Uro-oncology Congress, 28 June – 1 July 2018, Tiflis, Gürcistan, Tiflis, Georgia, 28 June 2018, pp.178
- **Investigating the role of nitric oxide on DNA methylation in breast cancer**
DEMİRCAN B., YÜCEL B., Green S., Radosevich J.
2nd International Congress on Epigenetics and Chromatin, Frankfurt, Germany, 06 November 2017, pp.98
- **Investigation of epigenetic modifications in patients with non-syndromic sensorineural hearing loss**
Eğilmez O. K. , KALCIOĞLU M. T. , DEMİRCAN B., TEKİN M., Yılmaz S., Yiğit Ö., Durna M. Y. , AKDENİZ DURAN E., AKALIN İ.
12th Annual BAA Conference, Harrogate, United Kingdom, 26 November 2015, vol.1, pp.62-63
- **Cancer Epigenetics and Therapeutic Interventions**
DEMİRCAN B., İsbir T.
IV. International Congress of Molecular Medicine, Turkey, 01 June 2011, vol.25, pp.480
- **Of Mice and Women: Comparative Cancer Epigenomics**
DEMİRCAN B., Dyer L., Brown K.
AACR Advances in Breast Cancer Research, United States Of America, 01 September 2007, pp.625
- **Vitamin E and Hippophae rhamnoides 1. Attenuate nicotine-induced oxidative stress in rat liver.**
Taysi S., Gumustekin K., DEMİRCAN B., Aktas s., Oztasan n., Akcay F., Suleyman H., Akar s., Dane S.
31st Congress of the Federation-of-European-Biochemical-Societies (FEBS), Turkey, 01 July 2006, pp.14
- **The effects of compound of C1, indomethacin, nimesulide and rofecoxib on COX and NO, in vivo and in vitro.**
DEMİRCAN B., Sahin y., Suleyman H., Aksoy H., Gul I.
31st Congress of the Federation-of-European-Biochemical-Societies (FEBS), Turkey, 01 July 2006, no.273, pp.289
- **The effects of vitamin E and Hippophae rhamnoides L. on nicotine-induced oxidative stress in rat heart.**
Taysi S., Gumustekin K., DEMİRCAN B., Aktas O., Oztasan n., Akcay F., Suleyman H., Akar s., Dane S., Gul M.
31st Congress of the Federation-of-European-Biochemical-Societies (FEBS), Turkey, 01 June 2006, no.273, pp.185-186
- **Chronic treatment of haloperidol decrease antioxidant activity and may cause hepatotoxicity, dose dependently**
Hacımüftüoğlu A., aydın n., Halıcı z., DEMİRCAN B., Sahin O., Bakan e.
18th ECNP Congress,, Netherlands, 01 October 2005, vol.15, pp.521
- **Dayanıklılık Antrenmanı ve Akut Yorucu Egzersizin sıçan kalbinde antioksidan savunma mekanizmalarına etkisi.**
Gul M., DEMİRCAN B., Taysi S., Oztasan n., Gumustekin K., Sıktar e., Polat M., Akar s., Akcay F., Dane s.
. XXXI. Ulusal Fizyoloji Kongresi, Gaziantep, Turkey, 01 September 2005, pp.295
- **The effects of endurance training on the antioxidant defense mechanisms and lipid peroxidation in testicular tissues of rat**
Aksoy y., Aksoy H., DEMİRCAN B., Oztasan n., Çanakcı e., Yapanoglu T.
XXIII. World Congress of Pathology and Laboratory Medicine., Turkey, 01 May 2005, pp.246
- **Osteoartrit ve Romatoid Artrit'li Hastaların Serum ve Sinoviyal Sıvılarında Nitrik Oksit Düzeyleri.**
DEMİRCAN B., Alp H., ozkan a., Çelik R., Umudum z., Sahin y., Akcay F.
Klinik Biyokimya Uzmanları Derneği, 2.Ulusal Kongresi,, Muğla, Turkey, 01 September 2004, pp.357
- **Effects of both acute exhaustive exercise and endurance training on antioxidant defense mechanisms in heart tissues of the rat**

Gul M., DEMİRCAN B., Taysi S., Oztasan n., Gumustekin K., Sıktar e., Polat F., Akar s., Dane s.
Summer Meeting SFRR -Europe 2004 -Reactive Oxygen Species and Antioxidants, Poland, 01 August 2004,
pp.132-133

- **Osteoartrit ve Romatoid Artrit'li Hastaların Serum ve Sinoviyal Sıvılarında Süperoksit Dismutaz, Katalaz, Glutatyon Peroksidaz ve Ksantin Oksidaz Aktiviteleri ve Malondialdehit Düzeyleri.**
DEMİRCAN B., Çelik R., Alp H., Çelik G., ozkan a., Candar T., Akcay F.
18. Ulusal Biyokimya Kongresi, Trabzon, Turkey, 01 May 2004, pp.55-56
- **Role of Adrenal Gland Hormones in Anti-ulcer action mechanism of Nimesulide and Ranitidine.**
Suleyman H., DEMİRCAN B., Gocer F., Halıcı z., Hacımüftüoğlu A.
XVII. Ulusal Farmakoloji Kongresi (Türk-Hollanda Farmakoloji Dernekleri Ortak Toplantısı), Antalya, Turkey, 01 October 2003, pp.105
- **Oxidative stress in the premature infants of preeclamptic mothers.**
Tastekin a., Ors R., DEMİRCAN B., Sarıçam z., ermiş B., İncec M., Akcay F.
Annual Meeting of the European-Society-for-Paediatric-Research, Spain, 01 October 2003, pp.568
- **Anne ve Kord Kanında Malondialdehit ve Enzimik ve non-Enzimik Antioksidan Düzeyleri.**
DEMİRCAN B., Umudum z., Sahin y., yıldırım A., Kuskay S., Yılmaz A.
17. Ulusal Biyokimya Kongresi, Ankara, Turkey, 01 June 2002, pp.535
- **Anne ve Kord Kanında Rutin Demir Parametreleri ve Serüloplazmin.**
Sahin y., DEMİRCAN B., Umudum z., Yılmaz A., yıldırım A.
17. Ulusal Biyokimya Kongresi, Ankara, Turkey, 01 June 2002, pp.497

Supported Projects

Demircan Tan B., Yücel B., TUBITAK Project, Lösemi Hücrelerinde GLUT3 ekspresyonunun düzenlenmesinde STAT3 aktivasyonunun rolünün araştırılması , 2018 - 2020

ÖZDİLEK F. B. , DEMİRCAN B., Project Supported by Higher Education Institutions, PARKİNSON HASTALIĞI İLE İLİŞKİLİ SERUM mikroRNA DÜZEYLERİNİN ARAŞTIRILMASI, 2017 - 2019

DEMİRCAN B., Project Supported by Higher Education Institutions, Beyin Tümörlerinde Epigenetik Değişimler, 2017 - 2019

DEMİRCAN B., ŞENOL S., Project Supported by Higher Education Institutions, GLIAL TÜMÖRLÜ HASTALARDA MGMT PTEN RASSF1A VE SOCS3 GEN MODİFİKASYONLARININ ARAŞTIRILMASI, 2016 - 2019

AKALIN İ., IRAZ M., KANTER M., KOZAN R., ARTIŞ A. S. , DEMİRCAN B., ÖNCÜL Ş., ALKOÇ O. A. , YILMAZ S. N. , ÇETİNKAYA Z., et al., Project Supported by Higher Education Institutions, İstanbul Medeniyet Üniversitesi Deney Hayvanları ve Deneysel Araştırmalar Merkezi Alt Yapı Projesi, 2013 - 2016

KALCIOĞLU M. T. , Eğilmez O. K. , DEMİRCAN B., TEKİN M., Project Supported by Higher Education Institutions, PRELİNGUAL NON-SENDROMİK SENSÖRİNÖRAL İŞİTME KAYBI BULUNAN HASTALARDAKİ GENETİK MUTASYONLARIN VE EPİGENETİK MODİFİKASYONLARIN ARAŞTIRILMASI, 2013 - 2015

Memberships / Tasks in Scientific Organizations

Member, 2017 - Continues

Member, 2006 - Continues

Member, 2004 - Continues

Invited Congress and Symposium Activities

Uluslararası Akademik Araştırmalar Kongresi , Working Group, Bolu, Turkey, 2019

5th International Congress on Epigenetics & Chromatin, Working Group, Vienna, Austria, 2019

5th World Congress on Epigenetics and Chromosome, Attendee, İstanbul, Turkey, 2018

5th World Congress on Epigenetics and Chromosome, Invited Speaker, İstanbul, Turkey, 2018

25th Biennial Congress of the European Association for Cancer Research (EACR25), Attendee, Amsterdam,

Netherlands, 2018

2nd International Congress on Epigenetics and Chromatin, Attendee, Frankfurt, Germany, 2017

2. Hücre Ölümü Araştırma Teknikleri Teorik Kursu, Attendee, Eskişehir, Turkey, 2012

2. Uluslararası Akademik Performansa Dayalı Üniversite Sıralamaları Sempozyumu (URAP), Attendee, Ankara, Turkey, 2012

Epigenetik Projeleri Değerlendirme Paneli, Panelists, Ankara, Turkey, 2012

Citations

Total Citations (WOS):577

h-index (WOS):11