

Prof. BENSU KARAHALİL

Personal Information

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Education Information

Under Graduate, Gazi University, Eczacılık Fakültesi, Eczacılık Pr., Turkey 1985 - 1999

Doctorate, Gazi University, Sağlık Bilimleri Enstitüsü, Farmasötik Toksikoloji (Dr), Turkey 1992 - 1996

Post Graduate, Gazi University, Sağlık Bilimleri Enstitüsü, Farmasötik Teknoloji (Yl) (Tezli), Turkey 1989 - 1992

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Security, Genotoksisite ve analiz yöntemleri Eğitim Kursu, Türk Toksikoloji Derneği, 2012

Health&Medicine, 9th International Comet Assay Work, Türk Toksikoloji Derneği, 2011

Research Areas

Health Sciences

Academic Titles / Tasks

Professor, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 2005 - Continues

Professor, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri, 1989 - Continues

Professional Experience

Coordinator of The Rectorate, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri, 2020 - Continues

Rectorate Commissioner, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri, 2020 - Continues

Head of Department, Gazi University, Eczacılık Fakültesi, 2020 - Continues

Director of the Center, Gazi University, Rektörlük, 2019 - Continues

Mevlana Exchange Program Coordinator, Gazi University, Rektörlük, 2018 - Continues

Assistant Coordinator, Gazi University, Rektörlük, 2018 - Continues

Erasmus Coordinator, Gazi University, Rektörlük, 2017 - Continues
Farabi Coordinator, Gazi University, Rektörlük, 2016 - Continues
Anabilim Dalı Akademik Kurul Üyesi, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri, 1997 - Continues
Eğitim ve Müfredat Kurulu üyesi, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri, 2005 - 2015
Fakülte Yönetim Kurulu Üyesi, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri, 2006 - 2012
Bölüm Kalite Komisyonu Üyesi, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri, 2005 - 2012
Assistant Director of the Institute, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 2007 - 2011
Fakülte Kurulu Üyesi, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri, 2003 - 2004
Fakülte Kurulu Üyesi, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri, 2000 - 2001

Courses

Toksikogenetik, Under Graduate, 2020 - 2021
KLİNİK TOKSİKOLOJİ, Post Graduate, 2020 - 2021
MOLEKÜLER TOKSİKOLOJİ I, Under Graduate, 2020 - 2021
İLAÇ GÜVENLİĞİ VE FARMAKOVİJİLANLANS , Post Graduate, 2019 - 2020
Genotoksisite, Doctorate, 2019 - 2020
GIDA TOKSİKOLOJİSİ VE GIDA GÜVENLİĞİ, Post Graduate, 2019 - 2020, 2020 - 2021
HEDEF ORGAN TOKSİSİTESİ I, Doctorate, 2018 - 2019
MOLEKÜLER TOKSİKOLOJİ II, Doctorate, 2017 - 2018
Moleküler Biyoloji Teknikleri, Doctorate, 2017 - 2018
Hedef Organ Toksisitesi II, Doctorate, 2017 - 2018

Advising Theses

Karahalil B., DNA onarım enzimlerindeki gen polimorfizmlerinin parkinson hastalığı üzerine etkisi, Doctorate, N.SELMA(Student), 2019
Karahalil B., Tahıl bazlı bebek mamalarında doğal mikotoksin zearalenone ve metabolitlerinin biyoizlemesi, Doctorate, T.BÜLENT(Student), 2016
KARAHALİL B., The Role Of Manganese Superoxide Dismutase And Glutathione Peroxidase Gene Polymorphisms In Parkinson S Disease, E.Saygın(Student), 2016
Karahalil B., Manganez süperoksit dismutaz ve glutatyon peroksidaz gen polimorfizmlerinin parkinson hastalığındaki rolü, Post Graduate, E.SAYGIN(Student), 2016
KARAHALİL B., Biomonitoring Of The Natural Mycotoxins Zearalenone And Its Metabolites In Cereal-Based Baby Foods, T.Bülent(Student), 2016
KARAHALİL B., The Toxicity Of Antipsychotics And The Effect Of Individual Susceptibility, M.Keçik(Student), 2014
Karahalil B., Antipsikotiklerin toksisitesi ve bireysel duyarlılığın toksisite üzerine etkisi, Doctorate, M.KEÇİK(Student), 2014
Karahalil B., Environmental monitoring of Konya region near an abandoned mercury mine in Turkey, Post Graduate, M.ULUKAYA(Student), 2010
Karahalil B., Role of GST gene and OGG1 gene polymorphisms in etiology of Diabetes Mellitus disease, Doctorate, N.GÖNÜL(Student), 2010
Karahalil B., The investigation of interaction between ABCB1 genetic polymorphisms and Fentanyl effects, Doctorate, E.KESİMCİ(Student), 2010
KARAHALİL B., Comparison of alpha 2a gene C-1291G polymorphism and dexmedetomidin's sedative and haemodynamics effects, S.Yağar(Student), 2008
Karahalil B., Alt ekstremitede turnike uygulanan ortopedi hastalarında iskemi-reperfüzyon hasarı sonucu oluşan oksidatif DNA hasarının araştırılması, Post Graduate, S.POLAT(Student), 2008
Karahalil B., Deksmetomidinin sedatif ve hemodinamik etkileri ile alfa 2a gen C-1291G polimorfizmi arasındaki ilişkinin

araştırılması, Doctorate, S.YAĞAR(Student), 2008

KARAHALİL B., ALT EKSTREMİTEDE TURNİKE UYGULANAN ORTOPEDİ HASTALARINDA İSKEMİ-REPERFÜZYON HASARI SONUCU OLUSAN OKSİDATİF DNA HASARININ ARASTIRILMASI, S.POLAT(Student), 2008

Karahalil B., ASSOCIATION OF THE OGG1 SER326CYS POLYMORPHISM WITH LUNG CANCER RISK AND 8-OHdG LEVELS AS A BIOMARKER OF OXIDATIVE DAMAGE IN TURKISH POPULATION, Post Graduate, E.EMERCE(Student), 2007

Karahalil B., Kurşunun yol açtığı çevre kirliliğinin süt dişlerinde AAS tekniği ile biyoizlenmesi, Post Graduate, B.AYKANAT(Student), 2004

Karahalil B., Parasetamol ile oluşturulan oksidatif DNA baz hasarının gaz kromatografisi-kütle spektrometrisi tekniği ile araştırılması, Post Graduate, E.DURMAZ(Student), 2003

Karahalil B., Mesleki olarak cıvaya maruz kalan dişhekimlerinde idrar cıva düzeylerinin soğuk buhar atomik absorpsiyon spektrometrisi ile araştırılması, Post Graduate, H.RAHRAVİ(Student), 2002

Karahalil B., Antineoplastik ilaçlara mesleki olarak maruziyetin gaz kromatografisi- kütle spektrometrisi (GC-MS) ile araştırılması, Post Graduate, N.KAMELYA(Student), 2000

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

- I. **The impacts of prominent gene polymorphisms in DNA repair enzymes on Parkinson's disease**
Aslan N. S. , Orhan G., Karahalil B.
NEUROSCIENCE LETTERS, vol.735, 2020 (Journal Indexed in SCI)
- II. **An overview of microtubule targeting agents for cancer therapy**
KARAHALİL B., Yardim-Akaydin S., BAYTAŞ S.
ARHIV ZA HIGIJENU RADA I TOKSIKOLOGIJU-ARCHIVES OF INDUSTRIAL HYGIENE AND TOXICOLOGY, vol.70, no.3, pp.160-172, 2019 (Journal Indexed in SCI)
- III. **Role of gene polymorphisms in vitamin D metabolism and in multiple sclerosis**
ELKAMA A., KARAHALİL B.
ARHIV ZA HIGIJENU RADA I TOKSIKOLOGIJU-ARCHIVES OF INDUSTRIAL HYGIENE AND TOXICOLOGY, vol.69, no.1, pp.25-31, 2018 (Journal Indexed in SCI)
- IV. **Oxidative stress gene polymorphisms may have an impact in the development of ischemic stroke**
KARAHALİL B., ELKAMA A., Orhan G.
JOURNAL OF GENE MEDICINE, vol.19, no.3, 2017 (Journal Indexed in SCI)
- V. **Genotoxicity of Anesthetics Evaluated In Vivo (Animals)**
Braz M. G. , KARAHALİL B.
BIOMED RESEARCH INTERNATIONAL, vol.2015, 2015 (Journal Indexed in SCI)
- VI. **Could 8-oxoguanine DNA glycosylase 1 Ser326Cys polymorphism be a biomarker of susceptibility in cancer?**
KARAHALİL B., ENGİN A. B. , Coskun E.
TOXICOLOGY AND INDUSTRIAL HEALTH, vol.30, no.9, pp.814-825, 2014 (Journal Indexed in SCI)
- VII. **Does cigarette smoking really have detrimental effects on outcomes of IVF?**
ÇINAR Ö., Dilbaz S., Terzioglu F., KARAHALİL B., YÜCEL Ç., Turk R., Taskin L., KÖSE S. K.
EUROPEAN JOURNAL OF OBSTETRICS & GYNECOLOGY AND REPRODUCTIVE BIOLOGY, vol.174, pp.106-110, 2014 (Journal Indexed in SCI)
- VIII. **Micronucleus assay assessment of possible genotoxic effects in patients treated with titanium alloy endosseous implants or miniplates**
KARAHALİL B., KADIOĞLU E., Tuzuner-Oncul A. M. , Cimen E., EMERCE E., KİŞNİŞÇİ R. Ş.
MUTATION RESEARCH-GENETIC TOXICOLOGY AND ENVIRONMENTAL MUTAGENESIS, vol.760, pp.70-72, 2014 (Journal Indexed in SCI)
- IX. **Impact of DNA polymorphisms in key DNA base excision repair proteins on cancer risk.**
Karahalil B., Bohr V. A. , Wilson D. M.
Human & experimental toxicology, vol.31, no.10, pp.981-1005, 2012 (Journal Indexed in SCI Expanded)
- X. **Association between ABCB1 gene polymorphisms and fentanyl's adverse effects in Turkish patients**

undergoing spinal anesthesia.

Kesimci E., Engin A. B. , Kanbak O., Karahalil B.

Gene, vol.493, no.2, pp.273-7, 2012 (Journal Indexed in SCI Expanded)

- XI. **The impact of OGG1, MTH1 and MnSOD gene polymorphisms on 8-hydroxy-2'-deoxyguanosine and cellular superoxide dismutase activity in myocardial ischemia-reperfusion.**
Karahalil B., Kesimci E., EMERCE E., Gumus T., Kanbak O.
Molecular biology reports, vol.38, no.4, pp.2427-35, 2011 (Journal Indexed in SCI Expanded)
- XII. **The effect of sevoflurane and desflurane on markers of oxidative status in erythrocyte.**
Turkan H., Aydin A., Sayal A., Karahalil B.
Toxicology and industrial health, vol.27, no.2, pp.181-6, 2011 (Journal Indexed in SCI Expanded)
- XIII. **Base excision repair activities differ in human lung cancer cells and corresponding normal controls.**
Karahalil B., Bohr V. A. , de Souza-Pinto N. C.
Anticancer research, vol.30, no.12, pp.4963-71, 2010 (Journal Indexed in SCI Expanded)
- XIV. **Comet assay in evaluating DNA damage associated with ischaemia-reperfusion injury in patients undergoing coronary surgery.**
Karahalili B., Gumus T., EMERCE E., Izdes S., Kanbak O., Kesimci E.
Arhiv za higijenu rada i toksikologiju, vol.60, no.3, pp.307-15, 2009 (Journal Indexed in SCI Expanded)
- XV. **Vth International Conference on Environmental Mutagens in Human Populations: Introduction**
Au W. W. , Sardas S., Karakaya A. E. , KARAHALİL B.
MUTATION RESEARCH-REVIEWS IN MUTATION RESEARCH, vol.659, pp.2-3, 2008 (Journal Indexed in SCI)
- XVI. **ADRA2A polymorphism and smoking in a Turkish population.**
Karahalil B., Coskun E., EMERCE E.
Toxicology and industrial health, vol.24, no.3, pp.171-6, 2008 (Journal Indexed in SCI Expanded)
- XVII. **Association between GSTP1 gene polymorphism and serum alpha-GST concentrations undergoing sevoflurane anaesthesia.**
Kaymak C., Karahalil B., Ozcan N. N. , Oztuna D.
European journal of anaesthesiology, vol.25, no.3, pp.193-9, 2008 (Journal Indexed in SCI Expanded)
- XVIII. **Dental lead levels in children from two different urban and suburban areas of Turkey**
Karahalil B., Aykanat B., Ertas N.
INTERNATIONAL JOURNAL OF HYGIENE AND ENVIRONMENTAL HEALTH, vol.210, no.2, pp.107-112, 2007 (Journal Indexed in SCI)
- XIX. **DNA repair gene polymorphisms and bladder cancer susceptibility in a Turkish population.**
Karahalil B., Kocabas N. A. , Ozcelik T.
Anticancer research, vol.26, pp.4955-8, 2006 (Journal Indexed in SCI Expanded)
- XX. **XRCC1 Arg399Gln genetic polymorphism in a Turkish population.**
Kocabas N. A. , Karahalil B.
International journal of toxicology, vol.25, no.5, pp.419-22, 2006 (Journal Indexed in SCI Expanded)
- XXI. **Mitochondrial and nuclear DNA-repair capacity of various brain regions in mouse is altered in an age-dependent manner.**
Imam S. Z. , Karahalil B., Hogue B. A. , Souza-Pinto N. C. , Bohr V. A.
Neurobiology of aging, vol.27, no.8, pp.1129-36, 2006 (Journal Indexed in SCI Expanded)
- XXII. **Examination of urinary mercury levels in dentists in Turkey**
Karahalil B., Rahravi H., Ertas N.
HUMAN & EXPERIMENTAL TOXICOLOGY, vol.24, no.8, pp.383-388, 2005 (Journal Indexed in SCI)
- XXIII. **hOGG1 SER326CYS genetic polymorphism in a Turkish population.**
Karahalil B., Kocabas N.
Archives of toxicology, vol.79, no.7, pp.377-80, 2005 (Journal Indexed in SCI Expanded)
- XXIV. **Diazepam and propofol used as anesthetics during open-heart surgery do not cause chromosomal aberrations in peripheral blood lymphocytes.**
Karahalil B., Yagar S., Bahadir G., Durak P., Sardas S.
Mutation research, vol.581, pp.181-6, 2005 (Journal Indexed in SCI Expanded)

- XXV. **Mitochondrial and nuclear DNA base excision repair are affected differently by caloric restriction**
Stuart J., Karahalil B., Hogue B., Souza-Pinto N., Bohr V.
FASEB JOURNAL, vol.18, no.1, pp.595-615, 2004 (Journal Indexed in SCI)
- XXVI. **Compromised incision of oxidized pyrimidines in liver mitochondria of mice deficient in NTH1 and OGG1 glycosylases.**
Karahalil B., de Souza-Pinto N., Parsons J., Elder R., Bohr V.
The Journal of biological chemistry, vol.278, no.36, pp.33701-7, 2003 (Journal Indexed in SCI Expanded)
- XXVII. **Mammalian 8-oxoguanine DNA glycosylase 1 incises 8-oxoadenine opposite cytosine in nuclei and mitochondria, while a different glycosylase incises 8-oxoadenine opposite guanine in nuclei.**
Jensen A., Calvayrac G., Karahalil B., Bohr V., Stevnsner T.
The Journal of biological chemistry, vol.278, no.21, pp.19541-8, 2003 (Journal Indexed in SCI Expanded)
- XXVIII. **Base excision repair capacity in mitochondria and nuclei: tissue-specific variations.**
Karahalil B., Hogue B., De Souza-Pinto N., Bohr V.
FASEB journal : official publication of the Federation of American Societies for Experimental Biology, vol.16, no.14, pp.1895-902, 2002 (Journal Indexed in SCI Expanded)
- XXIX. **Assessment of DNA damage in women using oral contraceptives.**
Biri A., Civelek E., Karahalil B., Sardas S.
Mutation research, vol.521, pp.113-9, 2002 (Journal Indexed in SCI Expanded)
- XXX. **Chromosomal damage in peripheral blood lymphocytes of traffic policemen and taxi drivers exposed to urban air pollution.**
Burgaz S., Demircigil G., Karahalil B., Karakaya A.
Chemosphere, vol.47, no.1, pp.57-64, 2002 (Journal Indexed in SCI Expanded)
- XXXI. **Chromosomal aberrations under basal conditions and after treatment with X-ray in human lymphocytes as related to the GSTM1 genotype.**
Karahalil B., Sardas S., Kocabas N., Alhayiroglu E., Karakaya A., Civelek E.
Mutation research, vol.515, pp.135-40, 2002 (Journal Indexed in SCI Expanded)
- XXXII. **Assessment of genotoxic damage in nurses occupationally exposed to antineoplastics by the analysis of chromosomal aberrations.**
Burgaz S., Karahalil B., Canli Z., Terzioglu F., Ancel G., Anzion R., Bos R., Huttner E.
Human & experimental toxicology, vol.21, no.3, pp.129-35, 2002 (Journal Indexed in SCI Expanded)
- XXXIII. **Influence of GSTM1 genotype on comet assay and chromosome aberrations after induction by bleomycin in cultured human lymphocytes.**
Kocabas N., Karahalil B., Karakaya A., Sardas S.
Mutation research, vol.469, no.2, pp.199-205, 2000 (Journal Indexed in SCI Expanded)
- XXXIV. **The micronucleus assay in exfoliated buccal cells: application to occupational exposure to polycyclic aromatic hydrocarbons.**
Karahalil B., Karakaya A., Burgaz S.
Mutation research, vol.442, no.1, pp.29-35, 1999 (Journal Indexed in SCI Expanded)
- XXXV. **Urinary cyclophosphamide excretion and micronuclei frequencies in peripheral lymphocytes and in exfoliated buccal epithelial cells of nurses handling antineoplastics.**
Burgaz S., Karahalil B., Bayrak P., Taskin L., Yavuzaslan F., Bokesoy I., Anzion R., Bos R., Platin N.
Mutation research, vol.439, pp.97-104, 1999 (Journal Indexed in SCI Expanded)
- XXXVI. **Excision of products of oxidative DNA base damage by human NTH1 protein.**
Dizdaroglu M., Karahalil B., Senturker S., Buckley T., Roldan-Arjona T.
Biochemistry, vol.38, no.1, pp.243-6, 1999 (Journal Indexed in SCI Expanded)
- XXXVII. **Cytogenetic biomonitoring of workers exposed to bitumen fumes.**
Burgaz S., Erdem O., Karahalil B., Karakaya A.
Mutation research, vol.419, pp.123-30, 1998 (Journal Indexed in SCI Expanded)
- XXXVIII. **Substrate specificity of the Ogg1 protein of Saccharomyces cerevisiae: excision of guanine lesions produced in DNA by ionizing radiation- or hydrogen peroxide/metal ion-generated free radicals.**
Karahalil B., Girard P., Boiteux S., Dizdaroglu M.

- Nucleic acids research, vol.26, no.5, pp.1228-33, 1998 (Journal Indexed in SCI Expanded)
- XXXIX. **Biological monitoring of young workers exposed to polycyclic aromatic hydrocarbons in engine repair workshops.**
Karahalil B., Burgaz S., Fisek G., Karakaya A.
Mutation research, vol.412, no.3, pp.261-9, 1998 (Journal Indexed in SCI Expanded)
- XL. **Substrate specificity of Schizosaccharomyces pombe Nth protein for products of oxidative DNA damage.**
Karahalil B., Roldan-Arjona T., Dizdaroglu M.
Biochemistry, vol.37, no.2, pp.590-5, 1998 (Journal Indexed in SCI Expanded)
- XLI. **Oxidative DNA base damage and antioxidant enzyme levels in childhood acute lymphoblastic leukemia.**
Senturker S., Karahalil B., Inal M., Yilmaz H., Muslumanoglu H., Gedikoglu G., Dizdaroglu M.
FEBS letters, vol.416, no.3, pp.286-90, 1997 (Journal Indexed in SCI Expanded)
- XLII. **Evaluation of genotoxic potential of styrene in furniture workers using unsaturated polyester resins.**
Karakaya A., Karahalil B., Yilmazer M., Aygun N., Sardas S., Burgaz S.
Mutation research, vol.392, no.3, pp.261-8, 1997 (Journal Indexed in SCI Expanded)
- XLIII. **The effect of smoking on sister chromatid exchange rate of newborn infants born to smoking mothers.**
SARDAS S., KARAHALIL B., AKYOL D., KUKNER S., KARAKAYA A.
Mutation research, vol.341, no.4, pp.249-53, 1995 (Journal Indexed in SCI Expanded)
- XLIV. **Mutagenic risk in psoriatic patients before and after 8-methoxypsoralen and long-wave ultraviolet radiation.**
SARDAS S., KARAHALIL B., KARAKAYA A., SASMAZ R.
Mutation research, vol.312, no.2, pp.79-83, 1994 (Journal Indexed in SCI Expanded)

Articles Published in Other Journals

- I. **DNA Repair and Detoxifying Gene Polymorphisms in Patients with Multiple Sclerosis and Dental Amalgam Fillings**
Elkama A., Orhan G., Alp O., Tosun G., Öztekin Z. N. , Karahalil B.
Gazi Medical Journal, no.32, pp.33-39, 2020 (Journal Indexed in ESCI)
- II. **Gebelikte Takviye edici Gıdalar –Ne Güvenli Ne Değil**
KARAHALİL B.
Mised, 2018 (National Non-Refereed Journal)
- III. **Takviye edici Gıdalara Genel bir Bakış**
KARAHALİL B.
Mised, 2018 (National Non-Refereed Journal)
- IV. **Gebelikte ilaç kullanımı**
KARAHALİL B.
e sağlık dergisi, no.27, 2018 (Other Refereed National Journals)
- V. **Prenatal dönemde ilaç kullanımı ve teratojenite riski**
KARAHALİL B.
Türkiye Klinikleri J Med Genet-Special Topics, 2018 (Other Refereed National Journals)
- VI. **Can Sevoflurane Induce Micronuclei Formation in Nasal Epithelial Cells of Adult Patients?**
Kesimci E., Coskun E., Ugur G., Muderris T., İZDEŞ S., KARAHALİL B.
TURKISH JOURNAL OF ANAESTHESIOLOGY AND REANIMATION, vol.45, no.5, pp.264-269, 2017 (Journal Indexed in ESCI)
- VII. **DNA repair pathways are as novel therapeutic targets**
KARAHALİL B.

- International Research Journal of Pharmaceutical Sciences, 2017 (Refereed Journals of Other Institutions)
- VIII. **Çocuklarda Kimyasal Maddelere İlişkin Farkındalığın Artırılması Bir Öğretim Materyalinin Geliştirilmesi ve Denenmesi**
ÇAKMAK DEMİRCİGİL G., DEMİRHAN İŞCAN C., KADIOĞLU E., BIKMAZ F., ÇOK F., ÇAKIR H., KARAARSLAN A., GÜRER ORHAN H., ORHAN H., KARAHALİL B., et al.
Ankara Üniversitesi Eğitim Bilimleri Fakültesi Dergisi, vol.46, no.1, pp.225-248, 2013 (Other Refereed National Journals)
- IX. **Release of alpha-glutathione S-transferase (alpha-GST) and hepatocellular damage induced by Helicobacter pylori and eradication treatment.**
Karahalil B., Yağar S., Ozin Y.
Current drug safety, vol.2, pp.43-6, 2007 (Refereed Journals of Other Institutions)

Books & Book Chapters

- I. **SEPSİS VE SEPTİK ŞOKTA ANTİMİKROBİYAL İLAÇLARIN FARMAKOKİNETİK VE FARMAKODİNAMİĞİ**
ALBAYRAK A., KARAHALİL B.
in: SAĞLIK BİLİMLERİNDE FARKLI ALANLAR VE SORUNLARA BAKIŞ, Mukadder Mollaoğlu, Murat Can Mollaoğlu, Editor, İKSAD YAYINEVİ, pp.15-39, 2020
- II. **YENİ ANTİFUNGAL İLAÇLAR**
ALBAYRAK A., KARAHALİL B.
in: SAĞLIK BİLİMLERİNDE FARKLI ALANLAR VE SORUNLARA BAKIŞ, Mukadder Mollaoğlu Murat Can Mollaoğlu, Editor, İKSAD YAYINEVİ, pp.217-243, 2020
- III. **Challenges, recommendations and strategies for nanotoxicology evaluation and its management**
KARAHALİL B.
in: Nanotoxicology Toxicity evaluation, risk assessment and management, Kumar V, Dasgupta N, Ranjan S, Editor, Taylor and Francis, Florida, pp.649-657, 2018
- IV. **Dermakozmetik/kozmesötik ürünlerin güvenliği**
KARAHALİL B., ENGİN A. B.
in: Dermakozmetik Kozmesötik Madde ve ürünler, E. Yasemin Yazan, Editor, Nobel tıp kitabevleri, İstanbul, pp.183-202, 2016

Refereed Congress / Symposium Publications in Proceedings

- I. **Gıda katkı maddeleri ve risk iletişimi**
KARAHALİL B., BAŞ M.
9. Ulusal sağlıklı yaşam kongresi, İstanbul, Turkey, 7 - 11 October 2020
- II. **Gıda Katkı Maddeleri ve risk iletişimi**
KARAHALİL B., BAŞ M.
12. İzmir Aile Hekimleri Derneği Kongresi, Cyprus (Kkct), 16 - 19 April 2020
- III. **Food safety risk assessment**
KARAHALİL B.
Conference on Food and Nutrition Safety, Azerbaijan, 25 - 26 November 2019
- IV. **Olanzapine induced hepatotoxicity is investigated by individual susceptibility and metabolomics**
KARAHALİL B., ELKAMA A., AK M., NEMUTLU E., ilik n.
science, production, 23 - 24 October 2019
- V. **Risk assessment and risk communication of food additives**
KARAHALİL B.
Dietary supplement. science, production, management, 25 - 26 October 2019
- VI. **Risk evaluation of Food additives**

KARAHALİL B.

Scientific conference on food and food additives, Georgia, 23 - 24 October 2019

- VII. **The role of homocysteine through reactive oxygen species (ROS) in Parkinson's disease and investigation of its variation with individual susceptibility**

KARAHALİL B., ASLAN N., SAYGIN E., ELKAMA A., SALİHOĞLU E., ORHAN G., AKAYDIN S.

10th International Congress of the Turkish Society of Toxicology, 16 - 19 October 2019

- VIII. **Olanzapine induced hepatotoxicity is investigated by individual susceptibility and metabolomics**

KARAHALİL B., ELKAMA A., AK M., NEMUTLU E., İLİK N.

TOXICOLOGY LETTERS, Helsinki, Finland, 8 - 11 September 2019, vol.314, pp.91

- IX. **Probiyotiklerin Güvenilirliği**

KARAHALİL B.

5. Ulusal Bağırsak Mikrobiyotası ve Probiyotik Kongresi, Turkey, 11 - 13 October 2018

- X. **MRNA AND PROTEIN EXPRESSION LEVELS OF P53 IN MOLECULAR SUBTYPES OF BREAST CANCER ...**

SALİHOĞLU E., DEMOKAN S., KARANLIK H., KARAHALİL B., AKAYDIN S.

12th International Symposium on Pharmaceutical Sciences, 26 - 29 June 2018

- XI. **Investigation of expression levels of DNA repair genes in molecular subtypes of breast cancer**

SALİHOĞLU E., DEMOKAN S., KARANLIK H., KARAHALİL B., ÖNDER S., AKAYDIN S.

9th world biomarkers congress and 20th International congress on Pharmaceutical biotechnology, Madrid, Spain, 7 - 09 December 2017

- XII. **DNA repair in cancer from past to now**

KARAHALİL B.

International Meeting on Education and Research in Health Sciences, 3 - 05 November 2017

- XIII. **The role of folate dependent genetic susceptibility in the risk of Multiple Sclerosis.**

aşçı A. E., ELKAMA A., Orhan G., KARAHALİL B.

2nd International Gazi Pharma, 11 - 13 October 2017

- XIV. **Serum alpha-GST activity as an alternative biomarker in olanzapine induced hepatotoxicity under the impact of genetic polymorphism of GSTs**

ELKAMA A., AK M., NEMUTLU E., İlik N., KARAHALİL B.

53rd Congress of the European-Societies-of-Toxicology (EUROTOX), Bratislava, Slovakia, 10 - 13 September 2017, vol.280

- XV. **The role of manganese superoxide dismutase and glutathione peroxidase gene polymorphisms in Parkinson's disease.**

saygın E., Orhan G., ELKAMA A., KARAHALİL B.

Society of Toxicology 56th Annual Meeting, 10 - 15 March 2017

- XVI. **CAT MNSOD VE GPX1 GENETİK POLİMORFİZMLERİNİN İNME İLE İLİŞKİSİNİN TÜRK POPÜLASYONUNDA İNCELENMESİ**

ORHAN G., ELKAMA A., ÖZTEKİN N., KARAHALİL B.

52.Ulusal Nöroloji Kongresi, Turkey, 25 November - 01 December 2016

- XVII. **MULTİPLE SKLEROZ HASTALARINDA AMALGAM DIŞ DOLGULARINDAKİ CİVA ÇİNKO VE BAKIR MARUZİYETİNE GENETİK DUYARLILIĞIN ARAŞTIRILMASI**

ORHAN G., ELKAMA A., ALP O., TOSUN G., ÖZTEKİN N., KARAHALİL B.

52.Ulusal Nöroloji Kongresi, Turkey, 25 November - 01 December 2016

- XVIII. **Kişiselleştirilmiş tıp**

KARAHALİL B.

Tark2016, Turkey, 26 - 30 October 2016

- XIX. **Güneş ürünleri ve toksisite**

KARAHALİL B.

Sektör eczacı buluşması, Turkey, 05 May 2016 - 07 May 2016

- XX. **DNA onarım enzimlerinin ilaç olarak kullanımı Kanser**

KARAHALİL B.

1. Ulusal Marmara Eczacılık Kongresi, Turkey, 3 - 05 March 2016

- XXI. **Genetic polymorphisms can be prognostic and predictive biomarkers for cancer risk**
KARAHALİL B.
GPSS-International Gazi Pharmacy Symposium Series, Antalya, Turkey, 12 - 15 November 2015
- XXII. **The impact of detoxifying gene polymorphisms on the risk of stroke**
ELKAMA A., Orhan g., Esra E., KARAHALİL B.
TURKHELTOX Toxicology Congress - 9th Congress of the Turkish Society of Toxicology with participation of the Hellenic Society of Toxicology, 21 - 24 October 2015
- XXIII. **Genotoxicity and methods of analysis**
KARAHALİL B.
TURKHELTOX Toxicology Congress - 9th Congress of the Turkish Society of Toxicology with participation of the Hellenic Society of Toxicology, 21 - 24 October 2015
- XXIV. **The impact of dexoifying and repair gene polymorphism and the levels of serum ros in the susceptibility to multiple sclerosis a hospital based case control study**
KARAHALİL B., Gürdal O., Ak F.
31st of the european committee for treatment and research in multiple sclerosis, 7 - 10 October 2015
- XXV. **The Roles of DNA Gene Polymorphisms and Antioxidant Activity in Ischemia – Reperfusion Status in Clinic**
EMERCE E., KARAHALİL B., KESİMCİ E., GÜMÜŞ T., KANBAK O.
10th International Conference on Environmental Mutagens, Floransa, Italy, 20 - 25 August 2009, pp.254
- XXVI. **Association of the OGG1 Ser326Cys Polymorphism with Oxidative DNA Damage in Myocardial Ischemia-Reperfusion**
EMERCE E., KARAHALİL B., KESİMCİ E., GÜMÜŞ T., KANBAK O.
9th International Symposium on Pharmaceutical Sciences, Ankara, Turkey, 23 - 26 June 2009, pp.398
- XXVII. **Koronar Arter Bypass Greftleme Cerrahisine Bağlı İskemi Reperfüzyonda Bireysel Duyarlılığın Oksidatif Hasar Üzerine Etkisi**
EMERCE E., KARAHALİL B., KESİMCİ E., GÜMÜŞ T., KANBAK O.
7. Uluslararası Katılımlı Türk Toksikoloji Derneği Kongresi, Ankara, Turkey, 30 May - 01 June 2009, pp.87
- XXVIII. **The Alkaline Comet Assay as Biomarker in Assessment of DNA Damage After Ischemia-Reperfusion Injury in Patients Undergoing Coronary Surgery**
KARAHALİL B., EMERCE E., GÜMÜŞ T., İZDEŞ S., KANBAK O., KESİMCİ E.
45th Congress of the European Societies of Toxicology, Rodos, Greece, 5 - 08 October 2008, pp.83
- XXIX. **XPC Lys939Gln and XPD Lys751Gln polymorphisms in gastric carcinoma patients**
ENGİN A. B. , KARAHALİL B., Engin A., Karakaya A. E.
45th Congress of the European-Societies-of-Toxicology, Rhodes, Greece, 5 - 08 October 2008, vol.180
- XXX. **Alpha-2A adrenergic receptor gene (ADRA2A) polymorphism in a Turkish population**
Emerce E., Karahalil B., Coskun E.
45th Congress of the European-Societies-of-Toxicology, Rhodes, Greece, 5 - 08 October 2008, vol.180
- XXXI. **XPC Lys939Gln and XPD Lys751Gln polymorphisms, oxidative stress and Helicobacter pylori IgG seropositivity in colorectal carcinoma**
ENGİN A. B. , KARAHALİL B., Engin A., Karakaya A. E.
45th Congress of the European-Societies-of-Toxicology, Rhodes, Greece, 5 - 08 October 2008, vol.180
- XXXII. **The alkaline comet assay as biomarker in assessment of DNA damage after ischemia-reperfusion injury in patients undergoing coronary surgery**
KARAHALİL B., Emerce-Tufan E., Gumus T., Izdes S., Kanbak O., Kesimci E.
45th Congress of the European-Societies-of-Toxicology, Rhodes, Greece, 5 - 08 October 2008, vol.180
- XXXIII. **The Effects of Ischemia/Reperfusion Injury on Lactate Levels and DNA Damage in Patients Undergoing Coronary Artery Bypass Graft Surgery**
EMERCE E., KARAHALİL B., GÜMÜŞ T., İZDEŞ S., KANBAK O., KESİMCİ E.
38th Annual Meeting of Environmental Mutagen Society, Cavtat, Croatia, 21 - 25 September 2008, pp.127
- XXXIV. **Maternal Smoking Effects on Neonatal Birth Growth and Its Association with Maternal GSTM1 and OGG1 Polymorphisms**

EMERCE E., KARAHALİL B., AKKAŞ E., AYGÜN KOCABAŞ N.

3rd EACEH - Euro-Asian Conference on Hazardous Waste Human Health, İstanbul, Turkey, 27 - 30 March 2008, pp.62

XXXV. **Association of the OGG1 Ser326Cys Polymorphism with Lung Cancer Risk In A Turkish Population**

KARAKAYA A. E. , KARAHALİL B., EMERCE E., KOÇER B., HAN S., ALKIŞ N.

47th Annual Meeting and ToxExpo, Society of Toxicology, Seattle, United States Of America, 16 - 20 March 2008, pp.404

XXXVI. **OGG1 Ser326Cys Polymorphism and Lung Cancer Susceptibility in Turkish Population**

EMERCE E., KARAHALİL B., KOÇER B., HAN S., ALKIŞ N., KARAKAYA A. E.

44th Congress of the European Societies of Toxicology, Amsterdam, Netherlands, 7 - 10 October 2007, vol.172, pp.174

XXXVII. **Association of the OGG1 Ser326Cys Polymorphism With Gynecologic Cancer Risk**

Karahalil B., Yikan A., Emerce E., Alkiş N.

11th International Congress of Toxicology, Montreal, Canada, 15 - 19 July 2007

XXXVIII. **hOGG1 Ser326Cys Polymorphism and Lung Cancer Susceptibility in Turkish Population**

EMERCE E., KARAHALİL B., KOÇER B., HAN S., ALKIŞ N., KARAKAYA A. E.

5th International Conference on Environmental Mutagens in Human Populations, Antalya, Turkey, 20 - 24 May 2007, pp.73

XXXIX. **Effect of the GSTM1 Polymorphism on the Relationship Between Maternal Exposure to Environmental Tobacco Smoke and Neonatal Birth Weight**

EMERCE E., KARAHALİL B., AKKAŞ E., AYGÜN KOCABAŞ N.

6th International Congress of Turkish Society of Toxicology, Antalya, Turkey, 2 - 05 November 2006, pp.187

Supported Projects

KARAHALİL B., ELKAMA A., Project Supported by Higher Education Institutions, Benzin istasyonu çalışanlarında genotoksik etkinin araştırılması, 2019 - Continues

KARAHALİL B., AKAYDIN S., Project Supported by Higher Education Institutions, Meme Kanseri Hücrelerde Tip60 Geninin Susturulmasının Radyoterapiye Yanıt Üzerine Etkisi, 2019 - Continues

KARAHALİL B., Project Supported by Higher Education Institutions, Jinekolojik malignansili hastalarda idrar 8-OH Guanin tayini ve hOGG1 ser326cys polimorfizm sıklığının araştırılması, 2006 - Continues

KARAHALİL B., Project Supported by Higher Education Institutions, Akciğer Kanseri ve DNA onarım enzimi OGG1 ser326cys polimorfizmi ilişkisinin Türk popülasyonunda araştırılması, 2006 - Continues

KARAHALİL B., Project Supported by Higher Education Institutions, Deksmetomidinin sedatif ev vasküler etkileriyle α-adrenerjik reseptör poliformizmi arasındaki ilişkinin saptanması, 2005 - Continues

KARAHALİL B., Project Supported by Higher Education Institutions, Helicobacter pylori tedavisinde kullanılan ilaç ve ilaç kombinasyonlarının olası hepatotoksik etkisi plazma ?-GST biyogöstergesi kullanılarak araştırılması, 2004 - Continues

KARAHALİL B., Project Supported by Higher Education Institutions, Antineoplastik ajanlara maruz kalmış hemşirelerin idrarlarında gaz kromatografisi kütle spektrometresi yöntemi ile siklofosamid tayini, 2000 - Continues

KARAHALİL B., AKAYDIN S., Project Supported by Higher Education Institutions, Reaktif oksijen türleri (ROT) aracılığıyla homosisteinin Parkinson hastalığındaki rolü ve bunun bireysel duyarlılıkla değişiminin araştırılması, 2017 - 2019

KARAHALİL B., AKAYDIN S., SALİHOĞLU E., Project Supported by Higher Education Institutions, Tip60 ve etkilediği DNA onarım genlerinin metilasyon ve ekspresyon seviyeleri ile meme kanserinin moleküler alt grupları arasındaki ilişkilerin incelenmesi, 2017 - 2019

KARAHALİL B., ELKAMA A., Project Supported by Higher Education Institutions, HOMOSİSTEİN METABOLİZMASININ GENETİK VARYANTLARI VE MULTİPL SKLEROZİS RİSKİ, 2016 - 2017

KARAHALİL B., ENGİN A. B. , TUBITAK Project, Antipsikotiklerin toksisitesi ve bireysel duyarlılığın toksisite üzerine etkisi, 2015 - 2017

KARAHALİL B., Project Supported by Higher Education Institutions, MTHFR 677CT gen polimorfizmi ile homosistein ve B vitamini seviyelerinin Parkinson hastalığındaki rolü, 2015 - 2016

KARAHALİL B., Project Supported by Higher Education Institutions, Koroner Arter Bypass Greft (KABG) sırasında oluşan iskemi/reperfüzyona bağlı inflamatuvar cevap ve oksidatif stresin araştırılması, 2011 - 2014

KARAHALİL B., ENGİN A. B. , AKAYDIN S., Project Supported by Higher Education Institutions, Koroner Arter Bypass Greft KABG sırasında oluşan iskemi reperfüzyona bağlı inflamatuvar cevap ve oksidatif stresin araştırılması, 2011 - 2014

Kadioğlu E., Karahalil B., Emerce E., Öncül A. M. T. , Project Supported by Higher Education Institutions, Titanyum alaşımlı endoosseoz implant veya mini plak uygulanan hastalarda genotoksik etkilerin mikroçekirdek yöntemi ile araştırılması, 2009 - 2013

KARAHALİL B., Project Supported by Higher Education Institutions, Ankara keçisi spermasında farklı ozmotik ve kriyoprotektif ortamların kromatin hasarı üzerine etkisinin Comet Testi ile saptanması, 2012 - 2012

KARAHALİL B., Project Supported by Higher Education Institutions, ABCB1 genindeki genetik polimorfizmler ile fentanilin etikeri arasındaki ilişkinin araştırılması, 2009 - 2011

KARAHALİL B., Project Supported by Higher Education Institutions, İnfertil Çiftlerin Yaşadıkları Sorunların ve Foliküler Sıvı Seminal Plazmadaki Kotinin Düzeylerinin Yardımcı Üreme Tekniklerinin Başarı Oranına Etkisi, 2009 - 2011

KARAHALİL B., Project Supported by Higher Education Institutions, Tip II Diyabet Hastalığının Etiyolojisinde Glutatyon S-Transferaz ve OGG1 Gen Polimorfizmlerinin Rolü, 2008 - 2011

Emerce E., Karahalil B., Kesimci E., Kanbak O., Gümüş T., TÜBA Project, Miyokardiyal iskemi reperfüzyonunda oksidatif DNA hasarının comet yöntemi ile araştırılması, 2007 - 2008

Karahalil B., Emerce E., Project Supported by Higher Education Institutions, Akciğer Kanseri ve DNA Onarım Enzimi OGG1 Ser326Cys Polimorfizmi İlişkisinin Türk Populasyonunda Araştırılması, 2005 - 2007

Activities in Scientific Journals

World Journal of Biological Research , Publication Committee Member, 2015 - Continues

FRONTIERS IN GENETICS, Advisory Committee Member, 2014 - Continues

World Journal of Critical Care Medicine, Publication Committee Member, 2012 - Continues

Clinical Medicine, Publication Committee Member, 2011 - Continues

Toxicology And Industrial Health, Publication Committee Member, 2004 - Continues

Restorative Neurology And Neuroscience, Publication Committee Member, 2016 - 2019

FABAD Journal of Pharmaceutical Sciences, Publication Committee Member, 2003 - 2014

Citations

Total Citations (WOS):1835

h-index (WOS):25

Invited Talks

Gıda katkı maddeleri ve risk iletişimi , Seminar, Muğla Sıtkı Koçman Üniversitesi, Turkey, December 2020

Gıda katkı maddeleri ve risk iletişimi , Seminar, Kırıkkale Üniversitesi, Turkey, December 2020

Gıda katkı maddeleri ve risk iletişimi , Seminar, Bezmiâlem Vakıf Üniversitesi, Turkey, December 2020

Gıda katkı maddeleri ve risk iletişimi , Seminar, Bahçeşehir Üniversitesi, Turkey, November 2020

Gıda katkı maddeleri ve risk iletişimi , Conference, İstanbul Aile Hekimliği Derneği kongresi, Turkey, November 2020

Gıda katkı maddeleri ve risk iletişimi , Conference, Ulusal Güney Aile Hekimliği Kongresi, Turkey, November 2020

Gıda katkı maddeleri ve risk iletişimi , Conference, AHEKON digital 2020, Turkey, November 2020

Gıda katkı maddeleri ve risk iletişimi , Conference, İzmir aile hekimleri derneği, Turkey, October 2020

Gıda katkı maddeleri ve risk iletişimi , Seminar, Gümüşhane Üniversitesi, Turkey, October 2020

Gıda katkı maddeleri ve risk iletişimi , Seminar, Erzurum Teknik Üniversitesi, Turkey, October 2020

Gıda katkı maddeleri ve risk iletişimi , Conference, Acıbadem Mehmet Ali Aydınlar Üniversitesi, Turkey, October 2020

Gıda katkı maddeleri ve risk iletişimi , Conference, 20th International Eastern Mediterranean Family Medicine Congress, Turkey, September 2020

Gıda katkı maddeleri ve risk iletişimi, Conference, Sağlık Bilimleri Üniversitesi, Turkey, December 2019

Food additives and risk communic, Conference, Conference on food and nutrition safety, Azerbaijan, November 2019

Gıda katkı maddeleri ve risk iletişimi , Conference, 3. ARGEV Aile Hekimliği Kongr, Turkey, November 2019

Food additives, Conference, İzmir Katip Çelebi Üniversitesi, Turkey, October 2019

Food additives and risk communication, Conference, 18. Ulusal Aile Hekimliği Kongresi , Turkey, May 2019

DNA repair in cancer from past to now , Conference, International Meeting on Education and Research in Health Sciences, Turkey, June 2017

DNA onarım enzimlerinin ilaç olarak kullanımı: Kanser teda, Conference, Marmara Üniversitesi, Turkey, November 2016

Kişiselleştirilmiş Tıp, Conference, TARK 2016, 50. Ulusal Anestezi Kongresi, Turkey, October 2016

Güneş Ürünleri ve Toksikite, Conference, Sektör Eczacı Buluşması, Turkey, May 2016

Antineoplastik ilaçlara toksikolojik yaklaş, Conference, 2. Onkoloji ve beslenme destek eczacılığı kongresi, Turkey, October 2012

Gıda endüstrisinde nanoteknolojinin kullanılması ve güvenlik sorunu, Conference, 11. Ulusal Gıda Kongr, Turkey, October 2012

Farmakogenetik ve İlaç Advers Etkileri,, Conference, Anadolu Üniversitesi, Turkey, October 2010

Risk Değerlendirmesinde Biyogöstergelerin Rolü: Etkinin Biyogöstergeleri, Conference, Erzurum Teknik Üniversitesi, Turkey, May 2010

Saç Boyaları Ve Kozmetikler, Conference, Perinatal Tıp Çalışma Grubu Toplantısı, Çevresel Teratojenlerin Fetusa Etkileri,, Turkey, April 2010

Perihan Çambelin Hayatı, Conference, Anadolu Üniversitesi, Turkey, April 2009

Hava kirliliği ve kanser riski, Conference, Ulusal Kanser Haftası, Turkey, April 2008

DNA Repair Enzyme Polymorphisms; As A Biomarker of Cancer Susceptibility, Seminar, Orta Doğu Teknik Üniversitesi, Turkey, October 2007

Ankara'da İçme Suyu Arıtma Tesislerinin Durumu ve Yeni Kaynakların Yaratacağı Sorunlar ve Alınması Gereken Önlemler, Conference, Su Kesintileri ve Hastalık Riski Sempozyumu, Turkey, August 2007

DNA repair enzymes: OGG1 enzyme, Conference, Erzurum Teknik Üniversitesi, Turkey, November 2006

DNA repair systems and their targets, Conference, II. Mediterranean Pharmacy Congress,, Turkey, October 2006

İlaç advers etkileri ve etkileşimleri, Conference, Gazi Üniversitesi, Turkey, March 2005

Biomonitoring of drug-induced DNA damage by Sister Chromatid Exchange and Micronucleus, Conference, Diğer Kurumlar, Egypt, December 2003

Scholarships

Araştırma Bursu, Other International Organizations, 2009 - 2009

Fellowship, Official Institutions of Foreign Countries, 2001 - 2003

Araştırma Bursu, Other International Organizations, 2002 - 2002

Guest researcher, Other International Organizations, 1997 - 1997

Nato araştırma bursu, NATO, 1996 - 1996

Awards

Karahalil B., Tübitak teşvik ödülü, Tübitak, May 2006

Non Academic Experience

Other, Gazi University, Eczacılık Meslek Bilimleri

Other Public Institution, Gazi University, Eczacılık Meslek Bilimleri
Other, Gazi University, Eczacılık Meslek Bilimleri
Professional Association, Gazi University, Eczacılık Meslek Bilimleri
Other Public Institution, Gazi University, Eczacılık Meslek Bilimleri
Professional Association, Gazi University, Eczacılık Meslek Bilimleri
Other, Gazi University, Eczacılık Meslek Bilimleri
Professional Association, Gazi University, Eczacılık Meslek Bilimleri
Other, Gazi University, Eczacılık Meslek Bilimleri
Other, Gazi University, Eczacılık Meslek Bilimleri