



## CURRICULUM VITAE

**Name-Surname** : Benu Karahalil  
**Birthplace and Date** : Akçaabat-Turkey- September 14, 1967  
**Address** : Gazi University  
Faculty of Pharmacy (Eczacılık)  
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### DEGREES

**BS** : Gazi University, Faculty of Pharmacy, 1989  
**MS** : Gazi University, Faculty of Pharmacy, Toxicology Department, 1992  
**Ph.D** : Gazi University, Faculty of Pharmacy, Toxicology Department, 1996  
**Assist. Prof.** : Gazi University, Faculty of Pharmacy, Toxicology Department, 1998  
**Assoc. Prof.** : Gazi University, Faculty of Pharmacy, Toxicology Department, 1999  
**Prof.** : Gazi University, Faculty of Pharmacy, Toxicology Department, 2005

### SUBJECT AREA

- Drug safety and individual susceptibility
- Clinical toxicology
- Occupational and environmental toxicology
- Cosmetic safety
- Food Safety
- Genetics
- Toxicogenetics
- Pharmacogenetics
- Molecular toxicology
- Genotoxicity
- Mutagenicity
- Carcinogenicity

### INTERNATIONAL EXPERIENCES

National Institute of Standards and Technology (NIST), 1997 January-April Maryland-USA,

## Guest Researcher

Institute of Plant Genetics and Crop Plant Research (IPK), 1996 November-1997 November  
(two visits total 2 months) Gatersleben-Germany, Guest Researcher

Paterson Institute for Cancer Research, Christie Hospital NHS Trust, 2002 January (one visit  
2 weeks) Manchester-England, Guest Researcher

National Institute of Health (NIH), National Institute of Aging, Gerontology Research Center,  
Laboratory of Molecular Biology (2 years; 2001-2003), Visiting Fellow

National Institute of Health (NIH), National Institute of Aging, Gerontology Research Center,  
Laboratory of Molecular Biology (2 months; 2009), Visiting Fellow

## GRANT and SCHOLARSHIPS

1. USA-Maryland, National Institute of Standards and Technology (3 months)
2. Germany-Gatersleben, Institute of Plant Genetics and Crop Plant Research (IPK),  
(1.5 month)
3. NewIndigo Network Pilot Programme, Award of NPP grant for NanoLINEN  
(Nanotoxicology link between India and European Nations), European Coordinator, 2010.

## AWARDS

- 2006** “TUBITAK (The Scientific and Technical Research Council of Turkey) Award  
**2007** Young Female Scientist Award by L’Oreal & Turkish Academy of Sciences  
**2014** “Science Award” given by Academy of Pharmacy-Association of Turkish  
Pharmacists  
**2018** “Golden Mortar Science Award” represented by Eczaci Magazine

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## SCIENTIFIC SOCIETY OF AFFILIATIONS

International Union of Toxicology (IUTOX)

European Society of Toxicology (EUROTOX)

Turkish Society of Toxicology (TST)

Turkish Society of Pharmacology

Society of Pharmaceutical Sciences of Ankara (FABAD)

## **RESPONSIBILITIES (Editor, Advisory etc.)**

FABAD Journal of Pharmaceutical Sciences as a Member of Editorial Board (2003-2007)  
Toxicology and Industrial Health (TIH) as a Member of Editorial Board (2006-still ongoing)  
The President of Society of Pharmaceutical Sciences of Ankara (FABAD) (2010- 2012)  
Frontiers in Toxicogenomics as a Member of Editorial Board (2011)  
World Journal of Critical Care Medicine as a Member of Editorial Board (2012-2013)  
World Journal of Biological Research (2015-2016)  
SM Dentistry Journal (2016- 2018)  
SciTechz Anesthesia (2016- 2018)  
Neurology and Neuroscience (2016- 2018)

## **ADMINISTRATIVE EXPERIENCES**

1. Gazi University Faculty of Pharmacy-Faculty Board Member (2000-2001)
2. Gazi University Faculty of Pharmacy-Faculty Board Member (2003-2004)
3. Member of the Ministry of Agriculture and Rural Affairs Specialised Sub-Commission on Food Additives (2004-2009)
4. Member of the Ministry of Agriculture and Rural Affairs Specialised Sub-Commission on Contaminants (2004-2009)
5. Turkish Society of Toxicology-Treasurer (2004-2011)
6. Gazi University Academic Evaluation and Quality Development Board Unit Coordinator (2005-2012)
7. Gazi University Faculty of Pharmacy-Education Commission Member (2005-2015)
8. Member of Gazi University Faculty of Pharmacy Socrates/Erasmus Commission (2005-2010)
9. Gazi University Health Sciences Deputy Director (2007-2011)
10. Gazi University Faculty of Pharmacy - Board Member (2006-2012)
11. Member of the Advisory Board of Turkish Pharmacists Association Application and Research Centre (TEBAUM) (2010-2011).
12. Member of Bologna Coordination Commission of Institute of Health Sciences (2010-2011)
13. Institute of Health Sciences GÜADEK Coordinator (2012-2013)
14. Member of the Advisory Board of the Turkish Pharmacists Association (2011-2013)
15. Gazi University Erasmus Institution Coordinator (2016-Present)
16. Member of the Board of Directors of the Turkish Pharmacists Association Academy (2017-2019)
17. Gazi University YLSY coordinator (2019-Present)
18. Gazi University Exchange Programmes (Erasmus, Farabi and Mevlana) Institution Coordinator (2016-Present).
19. Gazi University Exchange Programmes YSLY Institution Coordinator (2019-Present).
20. Gazi University Education and Foreign Relations Deputy Coordinator (2018-Present)
21. Gazi University Career Planning Application and Research Centre Director (2018-Present)
22. GU Faculty of Pharmacy Strategic Plan Sub-Working Group (2019-Present)
23. GU Faculty of Pharmacy Quality Sub-Working Group (2019-Present)

23. GU Faculty of Pharmacy Internal Control Programme Working Group (2019-Present)
24. Member of Gazi University Internal Control Monitoring and Steering Committee (2020-Present).
25. Chairperson of the Advisory Board of the National Agency, Directorate of the Centre for European Union Education and Youth Programmes (2019-Present)
26. Head of the Department of Toxicology, Faculty of Pharmacy, GÜ (2020-Present)
27. Gazi University Protocol Commission (2020-2022)
28. Gazi University Scientific identity and field degree determination commission member (2020-2022).
29. Head of Toxicology (2020-Still)

### **Research Areas**

- Drug safety and individual sensitisation
- Individual susceptibility to diseases
- Occupational exposure-individual susceptibility
- Toxicogenetics
- Pharmacogenetics
- Molecular toxicology
- Clinical toxicology
- Occupational and environmental toxicology
- Cosmetics safety
- Genotoxicity, Mutagenicity and Carcinogenicity

### **INTERNATIONAL PUBLICATIONS**

1. ŞARDAŞ S, KARAHALİL B, KARAKAYA AE, Şaşmaz R. Mutagenic risk in psoriatic patients before and after 8-methoxypsoralen and longwave radiation, *Mutation Res.*, 312, 79-83, 1994.
2. ŞARDAŞ S, KARAHALİL B, AKYOL D, KÜKNER S, KARAKAYA AE. The effect of smoking SCE rate of newborn to smoking mothers, *Mutation Res.*, 341, 249-253, 1995.
3. KARAKAYA AE, KARAHALİL B, YILMAZER M, AYGÜN N, ŞARDAŞ S, BURGAZ S. Evaluation of genotoxic potential of styrene in furniture workers using unsaturated polyester resins, *Mutation Res.*, 392, 261-268, 1997.
4. ŞENTÜRKER S, KARAHALİL B, İNAL M, YILMAZ H, MÜSLÜMANOĞLU H, GEDİKOĞLU G, DİZDAROĞLU M. Oxidative DNA base damage and antioxidant enzyme levels in childhood acute lymphoblastic leukemia, *FEBS Letters*, 416, 286-290, 1997.
5. KARAHALİL B, ROLDAN-ARJONA T, DİZDAROĞLU M. Substrate specificity of *Schizosaccharomyces pombe* Nth protein for products of oxidative DNA damage, *Biochemistry*, 37, 590-595, 1998.
6. KARAHALİL B, GİRARD P, BOÏTEUX S, DİZDAROĞLU M. Substrate specificity of the Ogg 1 protein of *Saccharomyces cerevisiae*: Excision of guanine lesions produced in DNA by ionizing radiation- or metal ion/hydrogen peroxyde-generated free radicals, *Nucleic acid Res.*, 26, 1228-1232, 1998.
7. KARAHALİL B, BURGAZ S, FİŞEK G, KARAKAYA AE. Biological monitoring of

young workers exposed to polycyclic aromatic hydrocarbons in engine repair workshops, *Mutation Res.*, 412, 261-269,1998.

8. BURGAZ S, ERDEM O, KARAHALİL B, KARAKAYA, A.E: Cytogenetic biomonitoring of workers exposed to bitumen fumes; *Mutation Res.*, 419, 123-130, 1998.

9. DİZDAROĞLU M, KARAHALİL B, ŞENTÜRKER S, BUCKLEY TS, ROLDAN-ARJONA T. Excision of products of oxidative DNA base damage by human NTH 1 protein, *Biochemistry*, 38,243-246, 1998.

10.BURGAZ S, KARAHALİL B, BAYRAK P, TAŞKIN L, YAVUZASLAN F, BÖKESOY I, ANZİON RPM, BOS RP, PLATİN N. Urinary cyclophosphamide excretion and micronuclei frequencies in peripheral lymphocytes and in exfoliated buccal epithelial cells of nurses handling antineoplastics, *Mutation Res.*, 439, 97-104,1999.

11. KARAHALİL B, KARAKAYA AE, BURGAZ, S. The micronucleus assay in exfoliated buccal cells: application to occupational exposure to polycyclic aromatic hydrocarbons, *Mutation Res.*, 442, 29-35, 1999.

12. KOCABAŞ N A, KARAHALİL B, KARAKAYA AE, ŞARDAŞ S. Influence of GSTM1 genotype on comet assay and chromosome aberrations after induction by bleomycin in cultured human lymphocytes, *Mutation Res.*, 469, 199-205, 2000.

13. BURGAZ S, KARAHALİL B, CANLI Z, TERZİOĞLU F, ANÇEL G, ANZİON RBM, BOS RP, HÜTTNER E. Assessment of genotoxic damage in nurses occupationally exposed to antineoplastics by the analysis of chromosomal aberrations, *Hum. Exp. Toxicol.*, 21,129-135, 2000.

14. KARAHALİL B, ŞARDAŞ S, KOCABAŞ NA, ALHAYIROĞLU E, KARAKAYA AE, CİVELEK E. Chromosomal aberrations under basal conditions and after treatment with X-ray in human lymphocytes as related to the GSTM1 genotype, *Mutation Res.*, 515, 135-140, 2002.

15. BURGAZ S, DEMİRCİGİL GC, KARAHALİL B, KARAKAYA AE. Chromosomal damage in peripheral blood lymphocytes of traffic policemen and taxi drivers exposed to urban air pollution, *Chemosphere*, 47, 57-64, 2002.

16. KARAHALİL B, HOGUE BA, DE SOUZA-PINTO NC, BOHR V A. Base excision repair capacity in mitochondria and nuclei: tissue-specific variations, *FASEB J*, 16,1895-11902, 2002.

17. BİRİ A, CİVELEK E, KARAHALİL B, SARDAS S: Assessment of DNA damage in woman using oral contraceptives, *Mutation Res.*, 521, 113-119, 2002.

18. JENSEN A, CALVAYRAC G, KARAHALİL B, BOHR VA, STEVNSNER T. Mammalian OGG1 incises 8-oxoadenine opposite cytosine in nuclei and mitochondria, while a different glycosylase incises 8-oxoadenine opposite guanine in nuclei, *J Biol. Chem.* 278, 19541-19548, 2003.

19.KARAHALİL B, SOUZA-PINTO N, PARSONS JL, ELDER H, BOHR V. Compromised incision of oxidised pyrimidine in liver mitochondria of mice deficient in NTH1 and OGG1 glycosylases, *J Biol. Chem.*, 278, 33701-33707, 2003.

20. STUART J, KARAHALİL B, BARBARA H, SOUZA-PINTO N, BOHR V. Mitochondrial and nuclear DNA base excision repair are affected differently by caloric restriction, *FASEB J*, 18, 595-597, 2004.

21. KARAHALİL B, YAĞAR S, BAHADIR G,ŞARDAŞ S. Evaluation of genotoxic effects of Diazepam and Propofol by Chromosomal Aberration Assay in Cardiac Patients, *Mutation Res.*, 581, 181-186, 2005.

22. KARAHALİL B, AYGUN KOCABAŞ N. hOGG1 Ser326Cys genetic polymorphism in a

- Turkish population. Arch. Toxicol., 79, 377-380, 2005.
23. IMAM ZS, KARAHALİL B, HOGUE BA, SOUZA-PINTO NC, BOHR VA. Mitochondrial and nuclear DNA-repair capacity of various brain regions in mouse is altered in an age-dependent manner. Neurobiol. Aging, 27,1129-1136, 2006.
24. KARAHALİL B, RAHRAVİ H, ERTAŞ N, KARAKAYA AE. Examination of urinary mercury levels in dentists using cold-vapour atomic absorption spectrometry and mercury toxicity, Hum. Exp. Toxicol. 24, 383-388, 2005.
25. KOCABAŞ NA, KARAHALİL B. XRCC1 Arg399Gln Genetic Polymorphism in a Turkish Population. Int. Toxicol., 25, 419-422, 2006.
26. KARAHALİL B, KOCABAŞ NA, ÖZÇELİK, T. DNA Repair Gene Polymorphisms and Bladder Cancer Susceptibility in a Turkish Population, Anticancer Res., 26, 4955-4958, 2006.
27. KARAHALİL B, YAĞAR, S., ÖZİN, Y. Release of  $\alpha$ -glutathione s-transferase ( $\alpha$ -GST) and hepatocellular damage induced by Helicobacter pylori and eradication treatment, Curr. Drug Safety, 2, 43-46, 2006.
28. KARAHALİL B, AYKANAT B, ERTAŞ N. Dental lead levels in children from two different urban and suburban areas of Turkey. Int. J Hyg. Environ. Health 210, 107-112, 2007.
29. KAYMAK C, KARAHALİL B, OZCAN NN, OZTUNA D. Association between GSTP1 gene polymorphism and serum alpha-GST concentrations undergoing sevoflurane anaesthesia, Eur. J Anaesthesiol.,25, 193-199, 2008.
30. KARAHALİL B, EMERCE E, KOÇER B, HAN S, ALKİŞ N, KARAKAYA AE. The association of OGG1 Ser326Cys polymorphism and urinary 8-OHdG levels with lung cancer susceptibility: a hospital-based case-control study in Turkey. Arh. Hig. Rada. Toksikol., 59:241-250, 2008.
31. KARAHALİL B, COSKUN E, EMERCE E.: ADRA2A polymorphism and smoking in a Turkish population. Toxicol. Ind. Health, 24, 171-176, 2008.
32. AU WW, SARDAS S, KARAKAYA AE, KARAHALİL B. Vth International Conference on Environmental Mutagens in Human Populations: introduction. Mutation Res., 659, 2-3, 2008.
33. KARAHALİL B, GUMUS T, EMERCE E, IZDES S, KANBAK O, KESİMCİ E. Comet assay in evaluating DNA damage associated with ischaemia-reperfusion injury in patients undergoing coronary surgery. Arh. Hig. Rada. Toksikol., 60,307-315, 2009.
- 34.ENGİN A. B. , KARAHALİL B., Karakaya A. E. , Engin A., "Exposure to Helicobacter pylori and Serum Kynurenine to Tryptophan Ratio in Patients with Gastric Cancer", PTERIDINES, cilt.21, ss.110-120, 2010
34. KARAHALİL B, EMERCE E, KOCABAS NA, AKKAS E. Associations between GSTM1 and OGG1 Ser326Cys polymorphisms and smoking on chromosomal damage and birth growth in mothers. Mol. Biol. Reports, 38: 2911-2918, 2011.
- 35.KARAHALİL B, POLAT S, SENKOYLU A, BÖLÜKBAŞI S. Evaluation of DNA damage after tourniquet-induced ischaemia/reperfusion injury during lower extremity surgery. Injury, 41: 1003-1007, 2010.
36. ENGİN AB, KARAHALİL B, ENGİN A, KARAKAYA AE. Oxidative stress, Helicobacter pylori, and OGG1 Ser326Cys, XPC Lys939Gln, and XPD Lys751Gln polymorphisms in a Turkish population with colorectal carcinoma. Genet. Test. Mol. Biomarkers, 14, 559-564, 2010.
37. TÜRKAN H, AYDİN A, SAYAL A, KARAHALİL B. The Effect of Sevoflurane and

- Desflurane on Markers of Oxidative Status in Erythrocyte. *Toxicol. Ind. Health*, 27: 181-186, 2011.
38. YAĞAR S, YAVAŞ S, KARAHALİL B. The role of the ADRA2A C1291G genetic polymorphism in response to dexmedetomidine on patients undergoing coronary artery surgery. *Mol. Biol. Rep.*, 38: 3383-3389, 2011.
39. KARAHALİL B, KESİMCİ E, EMERCE E, GUMUS T, KANBAK O. The impact of OGG1, MTH1 and MnSOD gene polymorphisms on 8-hydroxy-2'-deoxyguanosine and cellular superoxide dismutase activity in myocardial ischemia-reperfusion. *Mol. Biol. Rep.* 38: 2427-2435, 2011.
40. KARAHALİL B., BOHR VA, DE SOUZA-PINTO, NC: Base Excision Repair Activities Vary in Human Lung Cancer Cells and Corresponding Normal Controls, *Anticancer Res.*, 30:4963-4971, 2010.
41. ENGİN AB, KARAHALİL B, ENGİN A, KARAKAYA AE. DNA repair enzyme polymorphisms and oxidative stress in a Turkish population with gastric carcinoma. *Mol. Biol. Rep.*, 38:5379-5386, 2011.
42. DHAWAN A, SHANKER R, LAFFON B, TAJES JF, FUCHS D, VAN DER LAAN G, VAN BROEKHUIZEN P, BECKER H, MORISKE HJ, TEIXEIRA JP, CARRIÈRE M, HERLİN-BOÏME N, ENGİN AB, COSKUN E, KARAHALİL B. NanoLINEN: nanotoxicology link between India and European Nations. *J Biomed. Nanotechnol.*, 7:203-204, 2011.
43. TÜRKAN H, AYDİN A, SAYAL A, EKEN A, AKAY C, KARAHALİL B. Oxidative and antioxidative effects of desflurane and sevoflurane on rat tissue in vivo. *Arh. Hig. Rada. Toksikol.*, 62:113-119, 2011. GOPALAN RC, EMERCE E, WRIGHT CW, KARAHALİL B, KARAKAYA AE, ANDERSON D. Effects of the anti-malarial compound cryptolepine and its analogues in human lymphocytes and sperm in the Comet assay. *Toxicol. Lett.*, 207:322-325, 2011.
45. ENGİN AB, KARAHALİL B, KARAKAYA AE, ENGİN A. Association between XRCC1 Arg399Gln and P53 Arg72Pro polymorphisms and the risk of gastric and colorectal cancer in Turkish population. *Arh Hig Rada Toksikol.*, 62:207-214, 2011.
46. KARAHALİL B, ULUKAYA M, ALP O. Pilot Study of Environmental Monitoring of Konya Region near Abandoned Mercury Mine in Turkey. *Bull. Environ. Contam. Toxicol.*, 88: 150-153, 2012.
47. KESİMCİ E, ENGİN AB, KANBAK O, KARAHALİL B. Association between ABCB1 gene polymorphisms and fentanyl's adverse effects in Turkish patients undergoing spinal anesthesia. *Gene.*, 493:273-277, 2012.
48. GÖNÜL N, KADIOĞLU E, KOCABAŞ NA, OZKAYA M, KARAKAYA AE, KARAHALİL B. The role of GSTM1, GSTT1, GSTP1 and OGG1 polymorphisms in type 2 diabetes mellitus risk: A case-control study in a Turkish population. *Gene* 505:121-127, 2012.
49. KARAHALİL B., ENGİN AB., COŞKUN E. Could OGG1 enzyme polymorphism be a biomarker of susceptibility in cancer? *Review, TIH*, 30, 814-825, 2012.
50. ENGİN AB, DORUK E, KARAHALİL B. Effect of N-acetyl cysteine, Neopterin and Dexamethasone on the Viability of Titanium dioxide Nanoparticles Exposed Cell Lines. *Pteridines*, 23:111-122, 2012.
51. KARAHALİL B, BOHR VA, WILSON III DM. Impact of DNA Polymorphisms in Key

DNA Base Excision Repair Proteins on Cancer Risk. Review Article, *Hum. Exp. Toxicol.*, 31: 981-1005, 2012.

52. KADIÖGLU E, KOCABAŞ NA, DEMİRCİGİL GD, COSKUN E, OZCAGLI E, DURMAZ E, KARAHALİL B, BURGAZ S, SARDAS S. Assessment of Individual Susceptibility to Baseline DNA and Cytogenetic Damage in a Healthy Turkish Population: Evaluation with Lifestyle Factors. *Gene Test. Mol. Biomarkers*, 16, 1157-1161, 2012.

53. CİNAR O, DİLBAZ S, TERZİOĞLU F, KARAHALİL B, YÜCEL C, TURK R, TASKİN L, KOSE SK. Does cigarette smoking really have detrimental effects on outcomes of IVF? *Eur J Obstet. Gynecol. Reprod. Biol.*,174:106-110, 2014.

54. KARAHALİL B, KADIÖGLU E, TUZUNER-ONCUL AM, CİMEN E, EMERCE E, KİSNİSCİ RS. Micronucleus assay assessment of possible genotoxic effects in patients treated with titanium alloy endosseous implants or miniplates. *Mutation Res.*, 760: 70-72, 2014.

55. KARAHALİL B. Melamine toxicity and safety issue in infant Formula, *J Translational Toxicol.*, 1: 72-75. 2014.

56. KARAHALİL B, ORHAN G, AK F. The impact of detoxifying and repair gene polymorphisms and the levels of serum ROS in the susceptibility to multiple sclerosis. *Clin. Neurol. Neurosurg.*, 139:288-294, 2015.

57. BRAZ MG, KARAHALİL B. Genotoxicity of Anesthetics Evaluated In Vivo (Animals). Review. *Biomed. Res. Int.*, 2015:1-8, 2015.

58.ENGİN AB, KARAHALİL B, KARAKAYA AE, ENGİN A. Helicobacter pylori and serum kynurenine-tryptophan ratio in patients with colorectal cancer. *World J Gastroenterol.*, 21:3636-43, 2015.

59.ORHAN G, ERUYAR E, MUNGAN SÖ, AK F, KARAHALİL B. The association of IL-18 gene promoter polymorphisms and the levels of serum IL-18 on the risk of multiple sclerosis. *Clin. Neurol. Neurosurg.* 2016; 146: 96-101.

60. ORHAN G, ELKAMA A, MUNGAN SÖ, ERUYAR E, KARAHALİL B. The impact of detoxifying and repair gene polymorphisms on oxidative stress in ischemic stroke. *Neurol. Sci.*, 37,955-961, 2016.

61. CİBA M, AK M, KARAHALİL B. Alpha-glutathione-s-transferase can be biomarker for both drug-related toxicity as well as individual susceptibility. *Minerva Psichiatria*, 2016, 57, 61-72.

62. TERZİOĞLU F, KARAHALİL B, YÜCEL Ç, TÜRK R. The effect of cotinine concentrations in seminal plasma and follicular fluid on the pregnancy outcomes of couples undergoing assisted reproductive techniques. *Turk J Med Sci.* 2016, 17;46(5):1495-1501.

63. KARAHALİL B. Overview of Systems Biology and Omics Technologies. *Curr Med Chem.* 23,4221-4230, 2016.

64. TERZİOĞLU F, TURK R, YUCEL C, DİLBAZ S, CİNAR O, KARAHALİL B. The effect of anxiety and depression scores of couples who underwent assisted reproductive techniques on the pregnancy outcomes. *Afr. Health Sci.*, 16, 441-450, 2016.

65. KARAHALİL B, ELKAMA A, ORHAN G. Oxidative stress gene polymorphisms may have an impact in the development of ischemic stroke. *J Gene. Med.*,19, 2017.

66. KESIMCI E, ÇOŞKUN E, UĞUR G, MÜDERRIS T, İZDEŞ S, KARAHALİL B. Can Sevoflurane Induce Micronuclei Formation in Nasal Epithelial Cells of Adult Patients? *Turk J Anaesthesiol Reanim.*, 45, 264-269, 2017.

67. KARAHALİL B, HARE E, KOÇ G, USLU İ, ŞENTÜRK K, ÖZKAN Y.



- hepatotoxicity associated with statins. *Arh Hig Rada Toksikol.*, 68, 254-260, 2017.
68. SALIHOĞLU E, DEMOKAN S, KARANLIK H, KARAHALİL B, ÖNDER S, AKAYDIN S. Investigation of expression levels of DNA repair genes in molecular subtypes of breast cancer. *J Proteomics Bioinform.*, 10, 2017.
69. ELKAMA A, KARAHALİL B. Role of gene polymorphisms in vitamin D metabolism and in multiple sclerosis. *Arh. Hig. Rada. Toksikol.*, 69, 25-31, 2018.
70. TÜRKAN H, KARAHALİL B, KADIOĞLU E, EREN K, GÜROL DT, KARAKAYA AE. The association between the OPRM1 A118G polymorphism and addiction in a Turkish population. *Arh Hig Rada Toksikol.* ;70(2):97-103, 2019. doi: 10.2478/aiht-2019-70-3153.
71. KARAHALİL B, YARDİM-AKAYDİN S, BAYTAS SN.: An overview of microtubule targeting agents for cancer therapy. *Arh Hig Rada Toksikol* 2019; 70:160-172. DOI: 10.2478/aiht-2019-70-3258.
72. KARAHALİL B., ELKAMA A., "The Impact of ACE2 Gene Polymorphism in the Development of COVID-19 Disease", *Gazi Medical Journal*, cilt.31, ss.518-521, 2020.
73. KARAHALİL B., Deniz M. E., İyigundogdu I., Tumer M., "Effects of COVID-19 on Respiratory System", *Gazi Medical Journal*, cilt.31, ss.528-531, 2020.
74. Aslan N. S., Orhan G., KARAHALİL B., "The impacts of prominent gene polymorphisms in DNA repair enzymes on Parkinson's disease", *Neuroscience Letters*, cilt.735, 2020.
75. ELKAMA A, ORHAN G, ALP O, TOSUN G, OZTEKİN N, KARAHALİL B. DNA Repair and Detoxifying Gene Polymorphisms in Patients with Multiple Sclerosis and Dental Amalgam Fillings. *Gazi Medical Journal*, 2021; 32:33-39.
76. YARDİM-AKAYDİN, S, KARAHALİL, B, NACAĞ BAYTAS, S. New therapy strategies in the management of breast cancer, *Drug Discovery Today* (2022), 27, 1755. (Q1)
77. MİSER-SALİHOĞLU E, DEMOKAN, S, KARANLIK, H, KARAHALİL, B, ÖNDER, S, CÖMERT, S, YARDİM-AKAYDİN, S, Investigation of mRNA Expression Levels of Tip60 and Related DNA Repair Genes in Molecular Subtypes of Breast Cancer. *Clinical Breast Cancer* (2022) 158. (Q2)
78. KARAHALİL B, MİSER SALİHOĞLU E, ELKAMA A, ORHAN G, SAYGIN E, YARDİM AKAYDİN S. Individual susceptibility has a major impact on strong association between oxidative stress, defence systems and Parkinson's disease. *Basic Clin Pharmacol Toxicol*. 2022, 130, 158. (Q2)
79. KARAHALİL B, ELKAMA A, AK M, NEMUTLU E. Metabolomics mapping changed after olanzapine therapy in drug-naive schizophrenia patients-the significant impact of gene polymorphisms. *Toxicol Res (Camb)*. 2022, 11, 547. (Q3)
80. ALBAYRAK A, BAŞGUT B, BIKMAZ GA, KARAHALİL B. Clinical pharmacist

assessment of drug-related problems among intensive care unit patients in a Turkish university hospital. *BMC Health Serv Res.* 2022, 22:79. (Q2)

81. TÜMER, M, KAYA UB, KARAHALİL, B, ERDEM AB, KAVALCİ, C. A retrospective study on methyl alcohol poisoning in turkey: treatment strateg. *Science and Health Care* (2022) 3, 42.(Q4)

82.. ALBAYRAK A, KARAHALİL, B. Pharmacist's Knowledge and Behaviors Toward Pharmacovigilance and Adverse Drug Reactions Reporting Process in Turkey. *Turkish Journal of Pharmaceutical Sciences* (2022) 10.4274/tjps.galenos.2022.59422. (Q2)

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