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Education Information

Doctorate, Hacettepe University, Sağlık Bilimleri Enstitüsü, Farmasötik Toksikoloji, Turkey 1980 - 1987

Postgraduate, Hacettepe University, Sağlık Bilimleri Enstitüsü, Farmasötik Toksikoloji, Turkey 1977 - 1980

Undergraduate, Hacettepe University, Eczacılık Fakültesi, Turkey 1973 - 1977

Foreign Languages

English, C1 Advanced

Research Areas

Health Sciences, Pharmacology and Therapeutics, Professional Sciences, Pharmaceutical Toxicology

Academic and Administrative Experience

Hacettepe Üniversitesi, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 2009 - 2013

Advising Theses

BAŞARAN A. N., Doğal ürünlerde bulunan fenolik bileşiklerin genotoksik ve antigenotoksik etkileri, Doctorate, G.TANER(Student), 2015

BAŞARAN A. N., Kuantum noktalarının memeli hücrelerindeki sitotoksik ve genotoksik etkileri, Doctorate, D.ÖZKAN(Student), 2015

BAŞARAN A. N., Titanyum dioksit ve lesitin kitosan nano partiküllerinin in vitro genotoksik ve sitotoksik değerlendirmesi, Postgraduate, R.YEŞİLÖZ(Student), 2011

Published journal articles indexed by SCI, SSCI, and AHCI

- Comparative in silico and in vitro evaluation of possible toxic effects of bisphenol derivatives in HepG2 cells**

BALCI ÖZYURT A., Yirun A., ÇAKIR D. A., ÖZÇELİK İ., Bacanlı M., YILDIZTEKİN K. G., SABUNCUOĞLU S., Basaran N., ERKEKOĞLU Ü. P.

TOXICOLOGY RESEARCH, no.4, 2024 (SCI-Expanded)

- II. **Evaluation of Oxidative Stress Parameters and Genotoxic Effects in Patients With Work-Related Asthma and Silicosis**
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Journal of Occupational and Environmental Medicine, vol.65, no.2, pp.146-151, 2023 (SCI-Expanded)
- III. **Comparative evaluation of the effects of bisphenol derivatives on oxidative stress parameters in HepG2 cells**
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- IV. **Using Z Boson Events to Study Parton-Medium Interactions in Pb-Pb Collisions**
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Physical Review Letters, vol.128, no.12, 2022 (SCI-Expanded)
- V. **A new calibration method for charm jet identification validated with proton-proton collision events at $\sqrt{s} = 13\text{TeV}$**
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- VI. **Measurement of $W\pm\gamma$ differential cross sections in proton-proton collisions at $s = 13\text{ TeV}$ and effective field theory constraints**
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- VII. **Evidence for $X(3872)$ in Pb-Pb Collisions and Studies of its Prompt Production at $s_{NN} = 5.02\text{ TeV}$**
Sirunyan A., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Erö J., Escalante Del Valle A., Flechl M., Frühwirth R., et al.
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- VIII. **Unpredictable adverse effects of herbal products**
Basaran N., PASLI D., Basaran A. A.
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- IX. **Evaluation of oxidative stress and immune parameters of boron exposed males and females**
Basaran N., DUYDU Y., Bacanlı M., ANLAR H. G., AYDIN DİLSİZ S., ÜSTÜNDAĞ A., YALÇIN C. Ö., Schwerdtle T., Bolt H. M.
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- X. **Effects of boron compounds on human reproduction**
Bolt H. M., Basaran N., DUYDU Y.
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- XI. **Evaluation of FSH, LH, testosterone levels and semen parameters in male boron workers under extreme exposure conditions**
DUYDU Y., Basaran N., Aydin S., ÜSTÜNDAĞ A., Yalcin C. O., ANLAR H. G., BACANLI M., AYDOS K., ATABEKOĞLU C. S., Golka K., et al.
ARCHIVES OF TOXICOLOGY, vol.92, no.10, pp.3051-3059, 2018 (SCI-Expanded)
- XII. **Boron and its compounds: current biological research activities**
Bolt H. M., DUYDU Y., Basaran N., Golka K.
ARCHIVES OF TOXICOLOGY, vol.91, no.8, pp.2719-2722, 2017 (SCI-Expanded)
- XIII. **Adverse Effects of Medicinal Herbs and Intoxication**
Basaran N.
TURKIYE KLINIKLERI TIP BILIMLERI DERGISI, vol.28, no.6, 2008 (SCI-Expanded)
- XIV. **Monitoring of DNA damage in environmentally boron exposed people in Turkey by the alkaline comet assay**

- Undeger U., Korkmaz M., AYDIN DİLSİZ S., Basaran N.
TOXICOLOGY LETTERS, vol.172, 2007 (SCI-Expanded)
- XV. **Modulating effects of the probiotic agent *Saccharomyces boulardii* on the DNA damage in acute necrotizing pancreatitis induced rats**
Sahin T., AYDIN DİLSİZ S., Yuksel O., Bostanci H., Basaran N.
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- XVI. **Effects of the probiotic agent *Saccharomyces Boulardii* on the DNA damage in acute necrotizing pancreatitis induced rats**
Sahin T., Aydin S., Yueksel O., Bostanci H., Akyuerek N., Memis L., Basaran N.
HUMAN & EXPERIMENTAL TOXICOLOGY, vol.26, no.8, pp.653-661, 2007 (SCI-Expanded)
- XVII. **The effects of thyme volatiles on the induction of DNA damage by the heterocyclic amine IQ and mitomycin C**
AYDIN DİLSİZ S., Basaran A. A., Basaran N.
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- XVIII. **The effects of thyme volatiles on the induction of DNA damage by the heterocyclic amine IQ and mitomycin C**
Aydin S., Basaran A., Basaran N.
MUTATION RESEARCH-GENETIC TOXICOLOGY AND ENVIRONMENTAL MUTAGENESIS, vol.581, pp.43-53, 2005 (SCI-Expanded)
- XIX. **Modulating effects of thyme and its major ingredients on oxidative DNA damage in human lymphocytes**
Aydin S., Basaran A., Basaran N.
JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, vol.53, no.4, pp.1299-1305, 2005 (SCI-Expanded)
- XX. **The modulating effects of quercetin and rutin on the mitomycin C induced DNA damage**
Undeger U., Aydin S., Basaran A., Basaran N.
TOXICOLOGY LETTERS, vol.151, no.1, pp.143-149, 2004 (SCI-Expanded)
- XXI. **The effect of vitamin E supplementation on antioxidant enzyme activities and lipid peroxidation levels in hemodialysis patients**
Giray B., Kan E., Bali M., Hincal F., Basaran N.
CLINICA CHIMICA ACTA, vol.338, pp.91-98, 2003 (SCI-Expanded)
- XXII. **Monitoring of DNA damage in foundry and pottery workers exposed to silica by the alkaline Comet Assay**
Basaran N., Shubair M., Undeger U., Kars A.
AMERICAN JOURNAL OF INDUSTRIAL MEDICINE, vol.43, no.6, pp.602-610, 2003 (SCI-Expanded)
- XXIII. **Assessment of DNA strand breakage by the alkaline COMET assay in dialysis patients and the role of Vitamin E supplementation**
Kan E., Undeger U., Bali M., Basaran N.
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Basaran N., Shubair M., Undeger U., Canpinar H., Kars A.
TOXICOLOGY, vol.178, no.2, pp.81-88, 2002 (SCI-Expanded)
- XXV. **Immunotoxicological investigation in rats dosed repeatedly with combinations of cypermethrin, As(III), and Hg(II)**
Institoris L., Siroki O., Undeger U., Basaran N., Desi I.
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- XXVI. **Alterations of neutrophil functions in foundry and pottery workers**
Basaran N., Undeger U., Shubair M.
IMMUNOPHARMACOLOGY AND IMMUNOTOXICOLOGY, vol.24, no.4, pp.639-650, 2002 (SCI-Expanded)
- XXVII. **A study on geno- and immunotoxicological effects of subacute propoxur and pirimicarb exposure in rats**

- Siroki O, Undeger U, Institoris L, Nehez M, Basaran N, Nagymajtenyi L, Desi I.
ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY, vol.50, no.1, pp.76-81, 2001 (SCI-Expanded)
- XXVIII. **Immunotoxicological investigations on rats treated subacutely with dimethoate, As³⁺ and Hg²⁺ in combination**
Institoris L, Siroki O, Undeger U, Basaran N, Desi I.
HUMAN & EXPERIMENTAL TOXICOLOGY, vol.20, no.7, pp.329-336, 2001 (SCI-Expanded)
- XXIX. **Detection of the effects of repeated dose combined propoxur and heavy metal exposure by measurement of certain toxicological, haematological and immune function parameters in rats**
Institoris L, Siroki O, Undeger U, Basaran N, Banerjee B, Desi I.
TOXICOLOGY, vol.163, pp.185-193, 2001 (SCI-Expanded)
- XXX. **Immunotoxicological investigation of subacute combined exposure by permethrin and the heavy metals arsenic(III) and mercury(II) in rats**
Institoris L, Siroki O, Undeger U, Basaran N, Desi I.
INTERNATIONAL IMMUNOPHARMACOLOGY, vol.1, no.5, pp.925-933, 2001 (SCI-Expanded)
- XXXI. **Effects of lead on immune parameters in occupationally exposed workers**
Basaran N, Undeger U.
AMERICAN JOURNAL OF INDUSTRIAL MEDICINE, vol.38, no.3, pp.349-354, 2000 (SCI-Expanded)
- XXXII. **Use of the alkaline comet assay to monitor DNA damage in technicians exposed to low-dose radiation**
Undeger U, Zorlu A. F., Basaran N.
JOURNAL OF OCCUPATIONAL AND ENVIRONMENTAL MEDICINE, vol.41, no.8, pp.693-698, 1999 (SCI-Expanded)
- XXXIII. **Assessment of DNA damage in nurses handling antineoplastic drugs by the alkaline COMET assay**
Undeger U, Basaran N, Kars A, Guc D.
MUTATION RESEARCH-GENETIC TOXICOLOGY AND ENVIRONMENTAL MUTAGENESIS, vol.439, no.2, pp.277-285, 1999 (SCI-Expanded)
- XXXIV. **Flavonoids modulate Comet assay responses to food mutagens in human lymphocytes and sperm**
Anderson D., Dobrzynska M., Basaran N., Basaran A., Yu T.
MUTATION RESEARCH-FUNDAMENTAL AND MOLECULAR MECHANISMS OF MUTAGENESIS, vol.402, pp.269-277, 1998 (SCI-Expanded)
- XXXV. **Effect of various genotoxins and reproductive toxins in human lymphocytes and sperm in the comet assay**
Anderson D., Dobrzynska M., BAŞARAN A. N.
TERATOGENESIS CARCINOGENESIS AND MUTAGENESIS, vol.17, no.1, pp.29-43, 1997 (SCI-Expanded)
- XXXVI. **THE EFFECT OF ANTIOXIDANTS ON BLEOMYCIN TREATMENT IN IN-VITRO AND IN-VIVO GENOTOXICITY ASSAYS**
ANDERSON D., BASARAN N., BLOWERS S., EDWARDS A.
MUTATION RESEARCH-FUNDAMENTAL AND MOLECULAR MECHANISMS OF MUTAGENESIS, vol.329, no.1, pp.37-47, 1995 (SCI-Expanded)
- XXXVII. **HUMORAL AND CELLULAR IMMUNE PARAMETERS IN UNTREATED AND PHENYTOIN-TREATED OR CARBAMAZEPINE-TREATED EPILEPTIC PATIENTS**
BASARAN N., HINCAL F., KANSU E., CIGER A.
INTERNATIONAL JOURNAL OF IMMUNOPHARMACOLOGY, vol.16, no.12, pp.1071-1077, 1994 (SCI-Expanded)
- XXXVIII. **SELENIUM STATUS IN TURKEY .2. SERUM SELENIUM CONCENTRATION IN HEALTHY RESIDENTS OF DIFFERENT AGES IN ANKARA**
Hıncal F., BAŞARAN A. N., Yetgin S., Gökmen O.
JOURNAL OF TRACE ELEMENTS AND ELECTROLYTES IN HEALTH AND DISEASE, vol.8, no.1, pp.9-12, 1994 (SCI-Expanded)
- XXXIX. **SERUM SELENIUM STATUS IN CHILDREN WITH IRON-DEFICIENCY ANEMIA**
Yetgin S., Hıncal F., BAŞARAN A. N., Ciliv G.
ACTA HAEMATOLOGICA, vol.88, no.4, pp.185-188, 1992 (SCI-Expanded)
- XL. **SERUM IMMUNOGLOBULINS, COMPLEMENT LEVELS AND LYMPHOCYTE SUBPOPULATIONS IN**

PHENYTOIN-TREATED EPILEPTIC PATIENTS

BASARAN N., KANSU E., HINCAL F.

IMMUNOPHARMACOLOGY AND IMMUNOTOXICOLOGY, vol.11, pp.335-346, 1989 (SCI-Expanded)

XLI. **Simple and rapid gas chromatographic determination of valproic acid in plasma**

Başaran N., Hıncal F.

The Analyst, vol.113, pp.1873-1874, 1988 (SCI-Expanded)

Articles Published in Other Journals

- I. **Interaction of curcumin on cisplatin cytotoxicity in HeLa and HepG2 carcinoma cells**
BECİT M., AYDIN DİLSİZ S., BAŞARAN A. N.
JOURNAL OF PHARMACY OF ISTANBUL UNIVERSITY, vol.50, no.3, pp.202-210, 2020 (ESCI)
- II. **Toxicological Issues of Occupational Exposure in Welding Workers**
Tokac D., BACANLI M., AYDIN DİLSİZ S., BAŞARAN A. N.
Literatür Eczacılık Bilimleri Dergisi, vol.9, no.1, pp.31-41, 2020 (Peer-Reviewed Journal)
- III. **Phytochemicals used in autoimmune disorders**
BACANLI M., AYDIN DİLSİZ S., BAŞARAN A. A., BAŞARAN A. N.
Hacettepe University Journal of the Faculty of Pharmacy, vol.40, no.2, pp.83-92, 2020 (Scopus)
- IV. **Potential Effects of Thymoquinone the Active Constituent of Black Seed (Nigella Sativa L.) on Human Health**
GÜZELSOY P., AYDIN S., BAŞARAN A. N.
Literatür Eczacılık Bilimleri Dergisi, vol.7, no.2, pp.118-135, 2018 (Peer-Reviewed Journal)
- V. **Pycnogenol in Human Health: An Overview [İnsan Sağlığında Piknogenol: Bir Genel Derleme]**
BECİT M., AYDIN S., BAŞARAN A. N.
FABAD JOURNAL OF PHARMACEUTICAL SCIENCES, vol.42, no.2, pp.125-138, 2017 (Scopus)
- VI. **Evaluation of Therapeutic and Toxic Effects of Curcumin: Review**
BECİT M., AYDIN S., BAŞARAN A. N.
Literatür Eczacılık Bilimleri Dergisi, vol.6, no.2, pp.126-142, 2017 (Peer-Reviewed Journal)
- VII. **Antioxidant capacities and cytotoxic properties of some natural phenolic compounds in different cell lines**
BACANLI M., ANLAR H. G., Sarıgöl Kılıç Z., AYDIN S., BAŞARAN A. A., BAŞARAN A. N.
ANKARA UNIVERSİTESİ ECZACILIK FAKULTESİ DERGISI, vol.34, no.1, pp.60-72, 2015 (Peer-Reviewed Journal)
- VIII. **The Effect of Tannic Acid on DNA Damage in Human Lymphocytes**
Tokaç D., AYDIN S., BAŞARAN A. A., BAŞARAN A. N.
ANKARA UNIVERSİTESİ ECZACILIK FAKULTESİ DERGISI, vol.34, no.133, pp.133-146, 2015 (Peer-Reviewed Journal)
- IX. **Effect of epigallocatechin gallate on oxidative DNA damage in human lymphocytes**
AYDIN S., Tokaç D., BAŞARAN A. N., BAŞARAN A. A.
TURKISH JOURNAL OF PHARMACEUTICAL SCIENCES, vol.12, no.1, pp.19-28, 2015 (Scopus)
- X. **The Effect of Lycopene on Oxidative DNA Damage in Human Lymphocytes**
Tokaç D., AYDIN S., BAŞARAN A. N., BAŞARAN A. A.
ANKARA UNIVERSİTESİ ECZACILIK FAKULTESİ DERGISI, vol.33, no.2, pp.1-24, 2013 (Scopus)

Books & Book Chapters

- I. **Effects of Phytochemicals Against Diabetes**
BACANLI M., AYDIN DİLSİZ S., BAŞARAN A. A., BAŞARAN A. N.
in: Advances in Food and Nutrition Research Volume:89, Fidel Toldra, Editor, Elsevier, pp.209-238, 2019
- II. **Farmasötik Toksikoloji**

Refereed Congress / Symposium Publications in Proceedings

- I. **Mesleki Maruziyetlerde Genotoksik Hasarın Değerlendirilmesinin Önemi,**
ANLAR H. G., AYDIN DİLSİZ S., BACANLI M., BAŞARAN A. N.
Uluslararası Mesleksel ve Çevresel Hastalıklar Kongresi, 3 - 07 March 2019
- II. **Yüksek Düzeyde Borik Asit ve Boratlara Maruz Kalmak Kadınlarda Gelişim Erkeklerde ise Ürme Toksisitesine Sebep Olabilir mi?**
DUYDU Y., BAŞARAN A. N., ÜSTÜNDAĞ A., AYDIN DİLSİZ S., YALÇIN C. Ö., ANLAR H. G., BACANLI M., AYDOS K., ATABEKOĞLU C. S., GOLKA K., et al.
IV. Ulusal Vektör Mücadelesi Sempozyumu, Antalya, Turkey, 1 - 04 November 2018
- III. **Interactions of pycnogenol with cisplatin on V79 cell viability**
AYDIN S., BECİT M., BAŞARAN A. A., BAŞARAN A. N.
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- IV. **Genotoxic Effects of Metformin in Human Cervix Adenocarcinoma Cells Using Comet Assay**
SARIAYDIN T., ÇAL T., AYDIN S., ÜNDEĞER BUCURGAT Ü., BAŞARAN A. N.
10th Congress of Toxicology in Developing Countries (CTDC10), Belgrade, Serbia And Montenegro, 18 - 21 April 2018
- V. **Interactions of Pycnogenol with cisplatin on V79 Cell Viability**
AYDIN S., BECİT M., BAŞARAN A. A., BAŞARAN A. N.
10th Congress of Toxicology in Developing Countries (CTDC10), Belgrade, Serbia And Montenegro, 18 - 21 April 2018
- VI. **Genotoxicity evaluation of naringin on mammalian cell lines by micronucleus assay**
BACANLI M., Anlar H. G., BAŞARAN A., Basaran N.
53rd Congress of the European-Societies-of-Toxicology (EUROTOX), Bratislava, Slovakia, 10 - 13 September 2017, vol.280
- VII. **Investigation of boron mediated reproductive and developmental effects in highly boron exposed population**
DUYDU Y., Basaran N., AYDIN DİLSİZ S., ÜSTÜNDAĞ A., Goktas H. G., Yalcin C. O., BACANLI M., SARIGÖL Z., AYDOS K., ATABEKOĞLU C. S., et al.
53rd Congress of the European-Societies-of-Toxicology (EUROTOX), Bratislava, Slovakia, 10 - 13 September 2017, vol.280
- VIII. **Effects of curcumin on cisplatin cytotoxicity in HepG2 cells**
Becit M., AYDIN DİLSİZ S., BAŞARAN A. A., Basaran N.
53rd Congress of the European-Societies-of-Toxicology (EUROTOX), Bratislava, Slovakia, 10 - 13 September 2017, vol.280
- IX. **Antigenotoxic effects of Pycnogenol in diabetic rats**
AYDIN DİLSİZ S., BACANLI M., Goktas H. G., ÜNDEĞER BUCURGAT Ü., ARI N., BAŞARAN A. A., Basaran N.
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- X. **Apoptosis induction by 2-mercaptopropionic acid (2-MPA)-coated silver sulfide QD in human A549 cells**
VARDAR D. Ö., AYDIN DİLSİZ S., Hocaoglu I., Acar H. F. Y., Basaran N.
53rd Congress of the European-Societies-of-Toxicology (EUROTOX), Bratislava, Slovakia, 10 - 13 September 2017, vol.280
- XI. **Can occupational exposure to crystalline silica in ceramic industries affect the immune parameters?**
Anlar H. G., BACANLI M., Iritas S., BAL C., KURT T., Tutkun E., Yilmaz O. H., Basaran N.

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XII. Assessment of cytotoxicity of pycnogenol in HepG2 cells treated with cisplatin

AYDIN DİLSİZ S., Becit M., BAŞARAN A. A., Basaran N.

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XIII. Are some natural compounds with high polarity cytotoxic in healthy cells?

Anlar H. G., Bacanli M., Basaran N., Basaran A. A.

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Basaran A. A., Bacanli M., Aydin S., Goktas H. G., Tokac D., Basaran N.

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XVI. Does ursolic acid have genotoxic properties on mammalian cell lines?

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14th International Congress of Toxicology in conjunction with the 10th Mexican Congress of Toxicology, Merida, Mexico, 2 - 09 October 2016, vol.259

XVII. Comparisons of antioxidant, cytotoxic and genotoxic/antigenotoxic effects of pycnogenol and rosmarinic acid

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XXI. Effects of curcumin on Aroclor 1254-induced cytotoxicity and genotoxicity in HepG2 cells

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XXII. Reproductive toxicity of boric acid and sodium borates

DUYDU Y., Basaran N., Bolt H. M.

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XXIV. Genotoxicity evaluation of limonene on mammalian cell lines by micronucleus assay

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XXV. The genotoxic and antigenotoxic properties of citrus phenolic limonene on mammalian cell lines

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XXVI. Effects of curcumin on cisplatin cytotoxicity in HeLa cells

- AYDIN DİLSİZ S., Becit M., Basaran A., Basaran N.
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- XXVII. **Effects of duration of silica exposure to DNA damage in ceramic workers in Turkey**
Anlar H. G., Bacanlı M., Iritas S., Bal C., Tutkun E., Yilmaz O., Basaran N.
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