# Prof. SEMA BURGAZ

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## Education Information

Doctorate, Ankara University, Sağlık Bilimleri Enstitüsü, Farmasötik Toksikoloji (Dr) (Eczacılık), Turkey 1977 - 1983
Undergraduate, Ankara University, Eczacılık Fakültesi, Eczacılık Pr., Turkey 1971 - 1976

## Dissertations

Doctorate, Türkiye'xxde kullanılan dipridil grubu ve klorlu fenoksiasetik asit grubu herbisitlerin analitik toksikoloji açısından incelenmesi, Ankara University, Sağlık Bilimleri Enstitüsü, Farmasötik Toksikoloji (Dr) (Eczacılık), 1983

## Research Areas

Health Sciences, Pharmacology and Therapeutics

## Academic Titles / Tasks

Professor, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 1995 - Continues
Professor, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 1995 - Continues
Associate Professor, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 1988 - 1995
Assistant Professor, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 1986 - 1988

## Academic and Administrative Experience

Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 2012 - 2017

## Advising Theses

Burgaz S., Investigation Of Occupational Genotoxicity Risk Through Oxidative Dna Damage And Micronucleus-Cytome Assays In Urine Samples From Hairdressers Living In The City Of Mersin , Doctorate, A.AKTAŞ(Student), 2020
ERTAŞ N., BURGAZ S., İçme sularında arsenik kirliliği olan bölgelerde yaşayan bireylerin saç örneklerindeki arsenik düzeylerinin ve yanak epitel hücrelerinde olası genotoksik hasarın belirlenmesi, Postgraduate, B.ALTUN(Student), 2014
BURGAZ S., Determination Of Arsenic Concentrations In Hair Samples And Possible Genotoxic Damage In Buccal Epithelial Cells Of Individuals Living In Regions With Arsenic Contamination In Drinking Water, Postgraduate, B.ALTUN(Student), 2014
BURGAZ S., Kına tipi geçici dövmelerde Lawsone, p-fenilendiamin ve ağır metal düzeylerinin ileri analiz yöntemleriile belirlenmesi ve toksikolojik önemi, Postgraduate, A.AKTAŞ(Student), 2014

ÇAKMAK G., BURGAZ S., Çocuklarda kronik böbrek hastalığı ve böbrek nakli sonrası genotoksik hasarın biyoizlenmesi, Doctorate, B.AYKANAT(Student), 2010

BURGAZ S., Ameliyathane ve derlenme ünitesi personelinde genotoksik maruziyet riskinin mikroçekirdek yöntemi ile değerlendirilmesi, Postgraduate, D.ERAYDIN(Student), 2009

BURGAZ S., An examination of exposure to anesthetic gases at operating room and recovery unit personnel by buccal micronuclei method, Postgraduate, D.ERAYDIN(Student), 2009

BURGAZ S., Kuvarsın neden olabileceği genotoksisitenin in vitro ve moleküler epidemiyolojik yöntemlerle araştırılması, Doctorate, G.ÇAKMAK(Student), 2006

BURGAZ S., Baş-boyun kanserli hastalarda bazal ve radyasyonla indüklenmiş DNA hasarının mikroçekirdek yöntemi ile araştırılması, Postgraduate, E.COŞKUN(Student), 2005

BURGAZ S., Ereğli Demir-Çelik fabrikası kok fırını işçilerinde genotoksik hasarın mikroçekirdek ve kromozomal aberasyon teknikleri ile araştırılması, Postgraduate, C.DEMİROĞLU(Student), 2003

BURGAZ S., Trafik polisleri ve taksi sürücülerinde hava kirliliği maruziyetine yönelik idrarda l-hidroksipiren değerlerinin, periferal lenfositlerde kromozal aberasyon ve mikroçekirdek sıklıklarının araştırılması, Postgraduate, G.ÇAKMAK(Student), 2000

BURGAZ S., Siklofosfamid'in indüklediği in vivo kromozomal hasara karşı doğal ve sentetik orijinli bileşiklerin koruyucu etkilerinin üroteliyal epitel hücrelerinde mikroçekirdek testi ile araştırılması, Doctorate, N.GÜRBÜZ(Student), 2000

BURGAZ S., Kuaförlerde ve kozmetik üretim yerinde çalışan bireylerde olası genotoksik etkilerinin mikroçekirdek testi ile araştırılması, Postgraduate, H.İLBARS(Student), 1997

BURGAZ S., Terapötik dozda Parasetamol'ün olası genotoksik etkisinin bukkal epitel hücrelerinde incelenmesi, Postgraduate, F.DERAFSHANİ(Student), 1997

BURGAZ S., Oto boya kaplama endüstrisinde çalışan bireylerin idrar epitelinde mikroçekirdek sıklığının araştırılması, Postgraduate, A.SİBEL(Student), 1996

BURGAZ S., Mobilya endüstrisinde çalışan bireylerin idrar epitelinde mikroçekirdek sıklığının araştırılması, Postgraduate, M.YILMAZER(Student), 1995

BURGAZ S., Çevresel karsinojenik ve mutajenik maddelere maruziyetin etkisinin sigara içen bireylerin idrar epitellerinde incelenmesi, Postgraduate, M.AYŞE(Student), 1994

BURGAZ S., Ankara'da yaşayanların adipoz dokularında klorlu hidrokarbon pestisit kalıntı düzeylerinin araştırılması, Postgraduate, B.LAHİJANY(Student), 1992

BURGAZ S., Hidrokinon'un (HK) gelişim toksisitesinin döllenmiş tavuk embriyosunda analiz ve değerlendirilmesi, Postgraduate, M.ÖZCAN(Student), 1992

## Published journal articles indexed by SCI, SSCI, and AHCI

I. **Increased micronucleus frequencies in surrogate and target cells from workers exposed to crystalline silica-containing dust**
Demircigil G., Coskun E., Vidinli N., Erbay Y., YILMAZ M., Cimrin A., Schins R. P., Borm P. J., BURGAZ S.
MUTAGENESIS, vol.25, no.2, pp.163-169, 2010 (SCI-Expanded)

II. **Micronucleus frequencies in exfoliated buccal cells of head and neck cancer patients and their first degree relatives**
Coskun E., Cakmak G. D., Cetindag F., Sunter O., Edinsel H., Kocabas N. A., Burgaz S.
TOXICOLOGY LETTERS, vol.172, 2007 (SCI-Expanded)

III. **Investigation of oxidative DNA damage in crystalline silica-containing dust exposed workers**
Cakmak G. D., Kadioglu E., Coskun E., Vidinli N., Erbas Y., Schins R. P. F., Borm P. J. A., Burgaz S.
TOXICOLOGY LETTERS, vol.172, 2007 (SCI-Expanded)

IV. **Cytochrome P450 (CYP) and glutathione S-transferases (GST) polymorphisms (CYP1A1, CYP1B1, GSTM1, GSTP1 and GSTT1) and urinary levels of 1-hydroxypyrene in Turkish coke oven workers**
Ada A. O., Yilmazer M., Suzen S., Demiroglu C., Demirbag A. E., Efe S., Alemdar Y., Burgaz S., Iscan M.
GENETICS AND MOLECULAR BIOLOGY, vol.30, no.3, pp.511-519, 2007 (SCI-Expanded)

V. **Influence of XRCC1 Arg399Gln polymorphism on basal and radiation-induced micronucleus**

**frequencies in head and neck cancer patients and their first degree relatives**
Burgaz S., Kocabas N. A., Coskun E., Cakmak G. D., Cetindag F., Sunter O., Edinsel H.
TOXICOLOGY LETTERS, vol.164, 2006 (SCI-Expanded)

VI. **Biological monitoring of environmental exposure to polycyclic aromatic hydrocarbons: 1-hydroxypyrene in urine of Turkish coke oven workers**
Yilmazer M., Ada A., Suzen S., Demiroglu C., Demiroglu A., Efe S., Alemdar Y., Iscan M., Burgaz S.
BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY, vol.76, no.4, pp.559-565, 2006 (SCI-Expanded)

VII. **Occurrence of organochlorine pesticides in cancerous and non-cancerous breast tissues**
Burgaz S., Cok İ., Coban T., Bulbul D., Iscan M.
Fresenius Environmental Bulletin, vol.14, no.11, pp.1024-1030, 2005 (SCI-Expanded)

VIII. **Assessment of cytogenetic damage in lymphocytes and in exfoliated nasal cells of dental laboratory technicians exposed to chromium, cobalt, and nickel**
Burgaz S., Demircigil G., Yilmazer M., Ertas N., Kemaloglu Y. K., Burgaz Y.
MUTATION RESEARCH-GENETIC TOXICOLOGY AND ENVIRONMENTAL MUTAGENESIS, vol.521, pp.47-56, 2002 (SCI-Expanded)

IX. **The organochlorine pesticide residues and antioxidant enzyme activities in human breast tumors: Is there any association?**
Iscan M., Coban T., Cok İ., Bulbul D., Eke B., Burgaz S.
Breast Cancer Research and Treatment, vol.72, no.2, pp.173-182, 2002 (SCI-Expanded)

X. **Chromosomal damage in peripheral blood lymphocytes of traffic policemen and taxi drivers exposed to urban air pollution.**
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XI. **Assessment of genotoxic damage in nurses occupationally exposed to antineoplastics by the analysis of chromosomal aberrations.**
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Human & experimental toxicology, vol.21, no.3, pp.129-35, 2002 (SCI-Expanded)

XII. **Cytogenetic analysis of buccal cells from shoeworkers and pathology and anatomy laboratory workers exposed to n-hexane, toluene, methyl ethyl ketone and formaldehyde**
Burgaz S., Erdem O., ÇAKMAK G., Erdem N., Karakaya A., Karakaya A.
BIOMARKERS, vol.7, no.2, pp.151-161, 2002 (SCI-Expanded)

XIII. **Micronuclei frequencies in exfoliated nasal mucosa cells from pathology and anatomy laboratory workers exposed to formaldehyde**
Burgaz S., ÇAKMAK G., ERDEM O. A., Yilmaz M., Karakaya A.
NEOPLASMA, vol.48, no.2, pp.144-147, 2001 (SCI-Expanded)

XIV. **Monitoring of genotoxic damage in smokeless tobacco (Maras powder) consumers using micronucleated exfoliated oral cells**
Burgaz S., Cok İ., Uysal B., Karakaya A.
Biomarkers, vol.5, no.3, pp.219-224, 2000 (SCI-Expanded)

XV. **Effects of occupational chronic co-exposure to n-hexane, toluen, and methyl ethyl ketone on NK cell activity and some immunoregulatory cytokine levels in shoe workers**
Yucesoy B., ATAK YÜCEL A., Erdem O., Burgaz S., Imir T., Karakaya A., Karakaya A.
HUMAN & EXPERIMENTAL TOXICOLOGY, vol.18, no.9, pp.541-546, 1999 (SCI-Expanded)

XVI. **Investigation of some immunological functions in a group of asphalt workers exposed to polycyclic aromatic hydrocarbons**
Karakaya A., Yucesoy B., Turhan A., Erdem O., Burgaz S., Karakaya A.
TOXICOLOGY, vol.135, no.1, pp.43-47, 1999 (SCI-Expanded)

XVII. **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 (SCI-Expanded)

XVIII. **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 (SCI-Expanded)

XIX. **Organochlorine pesticide contaminants in human milk samples collected in Tebriz (Iran)**
Cok İ., Karakaya A., Afkham B., Burgaz S.
Bulletin of Environmental Contamination and Toxicology, vol.63, no.4, pp.444-450, 1999 (SCI-Expanded)

XX. **Cytogenetic biomonitoring of workers exposed to bitumen fumes.**
Burgaz S., Erdem O., Karahalil B., Karakaya A.
Mutation research, vol.419, pp.123-30, 1998 (SCI-Expanded)

XXI. **Organochlorine pesticide residue levels in human adipose tissue of residents of Manisa (Turkey), 1995-1996**
Cok İ., Bilgili A., Yarsan E., Bagci C., Burgaz S.
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XXII. **Biological monitoring of young workers exposed to polycyclic aromatic hydrocarbons in engine repair workshops.**
Karahalil B., Burgaz S., Fisek G., Karakaya A.
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XXIII. **Serum uric acid levels in cardiovascular diseases**
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XXIV. **Organochlorine pesticide residues in human breast milk from agricultural regions of Turkey, 1995-1996**
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XXV. **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 (SCI-Expanded)

XXVI. **Biological monitoring of n-hexane exposure in shoe workers**
Burgaz S., Cok İ., Ulusoy L., Tarhan U., Aygun N., Karakaya A.
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XXVII. **Immune function in n-hexane-exposed workers**
Karakaya A., Yucesoy B., Burgaz S., Karakaya A.
PREVENTIVE STRATEGIES FOR LIVING IN A CHEMICAL WORLD, vol.837, pp.122-125, 1997 (SCI-Expanded)

XXVIII. **Serum carotenoids and uric acid levels in relation to cancer**
Burgaz S., Torun M., Yardim S., Sargin H., Orman M., Ozdamar N.
JOURNAL OF CLINICAL PHARMACY AND THERAPEUTICS, vol.21, no.5, pp.331-336, 1996 (SCI-Expanded)

XXIX. **Some immunological parameters in workers occupationally exposed to n-hexane**
Karakaya A., Yucesoy B., Burgaz S., Sabir H., Karakaya A.
HUMAN & EXPERIMENTAL TOXICOLOGY, vol.15, no.1, pp.56-58, 1996 (SCI-Expanded)

XXX. **EVALUATION OF MICRONUCLEI IN EXFOLIATED UROTHELIAL CELLS AND URINARY THIOETHER EXCRETION OF SMOKERS**
BURGAZ S., ISCAN A., BUYUKBINGOL Z., BOZKURT A., KARAKAYA A.
MUTATION RESEARCH-ENVIRONMENTAL MUTAGENESIS AND RELATED SUBJECTS, vol.335, no.2, pp.163-169, 1995 (SCI-Expanded)

XXXI. **ORGANOCHLORINE PESTICIDE CONTAMINANTS IN HUMAN ADIPOSE-TISSUE COLLECTED IN TEBRIZ (IRAN)**
BURGAZ S., AFKHAM B., KARAKAYA A.

BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY, vol.54, no.4, pp.546-553, 1995 (SCI-Expanded)

XXXII. **ORGANOCHLORINE PESTICIDE CONTAMINANTS IN HUMAN ADIPOSE-TISSUE COLLECTED IN ANKARA (TURKEY) 1991-1992**
BURGAZ S., AFKHAM B., KARAKAYA A.
BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY, vol.53, no.4, pp.501-508, 1994 (SCI-Expanded)

XXXIII. **EFFECT OF HYDROQUINONE (HQ) ON THE DEVELOPMENT OF CHICK-EMBRYOS**
BURGAZ S., OZCAN M., OZKUL A., KARAKAYA A.
DRUG AND CHEMICAL TOXICOLOGY, vol.17, no.2, pp.163-174, 1994 (SCI-Expanded)

XXXIV. **THIOETHERS IN URINE OF STERILIZATION PERSONNEL EXPOSED TO ETHYLENE-OXIDE**
BURGAZ S., REZANKO R., KARA S., KARAKAYA A.
JOURNAL OF CLINICAL PHARMACY AND THERAPEUTICS, vol.17, no.3, pp.169-172, 1992 (SCI-Expanded)

XXXV. **EVALUATION OF URINARY-EXCRETION OF 1-HYDROXYPYRENE AND THIOETHERS IN WORKERS EXPOSED TO BITUMEN FUMES**
BURGAZ S., BORM P., JONGENEELEN F.
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XXXVI. **A SIGNAL ASSAY FOR THE DETECTION OF GENOTOXIC COMPOUNDS - APPLICATION ON THE URINES OF CANCER-PATIENTS ON CHEMOTHERAPY AND OF NURSES HANDLING CYTO-TOXIC DRUGS**
BURGAZ S., OZDAMAR Y., KARAKAYA A.
HUMAN TOXICOLOGY, vol.7, no.6, pp.557-560, 1988 (SCI-Expanded)

XXXVII. **THIOETHER EXCRETION OF WORKERS EXPOSED TO BITUMEN FUMES**
BURGAZ S., BAYHAN A., KARAKAYA A.
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XXXVIII. **URINARY THIOETHER EXCRETION IN NURSES AT AN ONCOLOGIC DEPARTMENT**
BAYHAN A., BURGAZ S., KARAKAYA A.
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XXXIX. **ORGANOCHLORINE PESTICIDE CONTAMINANTS IN HUMAN-MILK FROM DIFFERENT REGIONS OF TURKEY**
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XL. **LEVELS OF ORGANOCHLORINE PESTICIDES CONTAMINANTS IN HUMAN-MILK FROM DIFFERENT REGIONS OF TURKEY**
KARAKAYA A., BURGAZ S., KANZIK I.
VETERINARY AND HUMAN TOXICOLOGY, vol.29, pp.18-19, 1987 (SCI-Expanded)

## Articles Published in Other Journals

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## Refereed Congress / Symposium Publications in Proceedings

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II. **Association of methylenetetrahydrofolate reductase (MTHFR) variants and arsenic metabolism among subjects from Nevşehir Province.**
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III. **Evaluation of Thioredoxin-1 (TRX-1) levels in individuals chronically exposed to Arsenic via drinking water.**
Sengezer S., Kadıoğlu E., Hisarlı Çalık N. D., Aşık E., Çakmak G., Alshana U., Ertaş N., Çelebi C. R., Atabey E., Ataman O. Y., et al.
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IV. **Heavy Metals Bioaccumulation In Fish And Some Invertebrate Species From Black and Marmara Seas of Turkey**
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V. **Türkiye'xxde Sağlık Çalışanlarının Maruz kaldığı Kimyasal Tehlikeler: Anestezik Atık Gazlara Mesleki Maruziyet**
BURGAZ S.
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VI. **TOXICITY RISK OF ARSENIC (AS) CONTAMINATION BASED ON HAIR AS CUT-OFF VALUE IN RESIDENT**
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VII. **Toxicity Risk of Arsenic (As) Contamination Based on Hair as Cut-Off Value in Residents of Nevsehir Province Turkey.**
ALTUN B., ERTAŞ N., ALSHANA U., Hisarlı D., AŞIK E., ÇAKMAK G., KADIOĞLU E., Celebi C., ATABEY E., ATAMAN Y., et al.
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VIII. **Developmental toxicity testing of novel cosmetic compounds with embryonic stem cells**
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IX. **Investigation of Spatial and Temporal Genotoxicity and Cytotoxicity of Atmospheric Particles Collected from Kutahya**
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X. **Investigation of Spatial and Temporal and Genotoxicity and Cytotoxicityof Atmospheric Particles Collected from Kutahya**
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XI. **Elektronik sigara e sigara kullanıcılarında olası genotoksik hasarın ve nikotin maruziyetinin belirlenmesi**
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XIII. **THE FREQUENCY OF MICRONUCLEUS AND OTHER NUCLEAR ANOMALIES IN EXFOLIATED BUCCAL**

**CELLS OF INDIVIDUALS WHO CHRONICALLY EXPOSED TO LOW TO MODERATE LEVELS OF ARSENIC VIA DRINKING WATER**
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XIV. **DETERMINATION OF TOTAL ARSENIC IN MEAT SAMPLES BYATOMIC FLUORESCENCE SPECTROMETRY**
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XV. **Para phenylediamine and heavy metal levels in commercial black henna tattoo mixtures**
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XVI. **Determination of possible genotoxic damage and nicotine exposure of electronic cigarette e cigarette users**
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XVII. **Safety assessment of cosmetic products general principles**
BURGAZ S.
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XVIII. **The frequency of micronucleus and other nuclear anomalies in exfoliated buccal cells of individuals chronically exposed to low to moderate levels of arsenic via drinking water**
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XIX. **Gene Expression Levels in Individuals Exposed to Inorganic Arsenic via Drinking Water**
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XX. **Determination of possible genotoxic damage and nicotine exposure of electronic cigarette e cigarette users Abstract Book P64 p 125**
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## Metrics

Publication: 97
Citation (WoS): 1520
Citation (Scopus): 1578
H-Index (WoS): 24
H-Index (Scopus): 24