

## Assoc. Prof. AYŞE NİHAL GÖMÜRGEN

### Personal Information

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### International Researcher IDs

ORCID: 0000-0002-0521-373X

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### Education Information

Doctorate, Gazi University, Fen Fakültesi, Biyoloji Bölümü, Turkey 1986 - 1990

Postgraduate, Gazi University, Fen Fakültesi, Biyoloji Bölümü, Turkey 1983 - 1985

Undergraduate, Hacettepe University, Fen Fakültesi, Biyoloji Bölümü, Turkey 1978 - 1982

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Diploid ve suni tetraploid adi otlak ayrığı (*Agropyron cristatum* (L.) Gaertn.)'da mitoz kromozomlarının yapısı ve mayoz bölünmenin tohum oluşumu ile ilgisi, Gazi Üniversitesi, Fen Fakültesi, Biyoloji Bölümü, 1990

Postgraduate, Hesperiidlerin Ergin Özellikleri ve Bunların Sistematik Değerlendirmesi, Gazi Üniversitesi, Fen Fakültesi, Biyoloji Bölümü, 1985

### Research Areas

Life Sciences, Plant Biology, Systematic Botany, Molecular Biology and Genetics, Cytogenetic, Natural Sciences

### Academic Titles / Tasks

Lecturer PhD, Hacettepe University, Fen Fakültesi, Biyoloji Bölümü, 2013 - Continues

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

- CHROMOSOME NUMBER, KARYOTYPE ANALYSIS AND POLLEN MORPHOLOGY OF TURKISH ENDEMIC TORDYLIUM ELEGANS (BOISS. & BAL.) ALAVA & HUB.-MOR. (APIACEAE)**  
Gömürgen A. N., Doğan C., Ozmen E., Baser B., Altınözlü H.  
PAKISTAN JOURNAL OF BOTANY, vol.43, pp.1803-1807, 2011 (SCI-Expanded)

**II. EVALUATION OF GENOTOXIC EFFECTS OF TWO POLYCYCLIC AROMATIC HYDROCARBONS WITH ALLIUM TEST**

KORKMAZ F., GÖMÜRGEN A. N., Mercangoz A.

FRESENIUS ENVIRONMENTAL BULLETIN, vol.18, no.12, pp.2306-2311, 2009 (SCI-Expanded)

**Articles Published in Other Journals**

- I. **EVALUATION OF CYTOTOXIC AND GENOTOXIC POTENTIAL OF AQUEOUS EXTRACTS OF MEDICINAL PLANT HELICHRYSUMMILL. USING ALLIUM CEPACHROMOSOME ASSAY**  
GÖMÜRGEN A. N.  
Biyoloji Bilimleri Araştırma Dergisi, vol.15, no.2, pp.50-57, 2022 (Peer-Reviewed Journal)
- II. **New Chromosome Numbers and Karyotype Analysis of Tordylium (Apiaceae) Species with Emphasis on Their Systematics and Evolutionary Significance**  
GÖMÜRGEN A. N., DOĞAN C., ÖZMEN BAYSAL E., ALTINÖZLÜ H., KOCA A.  
Hacettepe Journal of Biology and Chemistry, vol.50, no.2, pp.99-112, 2022 (Peer-Reviewed Journal)
- III. **CYTOTOXIC, GENOTOXIC AND PHYSIOLOGICAL EFFECTS OF HERBICIDE GRANWEED**  
GÖMÜRGEN A. N., BAYSAL FURTANA G., TIPIRDAMAZ R.  
The Turkish Journal of Occupational/Environmental Medicine and Safety, vol.2, pp.223, 2017 (Peer-Reviewed Journal)
- IV. **Cytological Effect of the Potassium Metabisulphite and Potassium Nitrate Food Preservative on Root Tips of Allium cepa L**  
GÖMÜRGEN A. N.  
Cytologia, no.70, pp.119, 2005 (Peer-Reviewed Journal)
- V. **Effects of Polyamines Putrescine Spermidine and Spermine on Root Tip Mitosis and Chromosomes in Allium cepa L**  
GÖMÜRGEN A. N., MUTLU F., BOZCUK S.  
Cytologia, vol.2, no.70, pp.212-224, 2005 (Scopus)
- VI. **The karyotype analysis of Liliaceae with B chromosome**  
GÖMÜRGEN A. N., ALTINÖZLÜ H.  
Hacettepe J. Biol. Chem, no.33, pp.1-5, 2004 (Peer-Reviewed Journal)
- VII. **Determination of toxicity of pulp mill effluents by using Allium test**  
TIPIRDAMAZ R., GÖMÜRGEN A. N., KOLANKAYA D., DOĞAN M.  
Journal of Agricultural Sciences (Turkey), 2003 (Peer-Reviewed Journal)
- VIII. **Chromosome Numbers and Karyotype Analysis of Anemone Blanda Schott Kotschy Ranunculaceae**  
GÖMÜRGEN A. N.  
Anadolu Üniversitesi Dergisi, 2003 (Peer-Reviewed Journal)
- IX. **Chromosome numbers and karyotype analysis of Centaurea tchihatcheffii Fisch et Mey Compositae Cardueae**  
GÖMÜRGEN A. N., ADIGÜZEL N.  
Ot Sist. Bot. Dergisi, vol.8, no.1, pp.83-86, 2001 (Peer-Reviewed Journal)
- X. **Cytological Effects of the Herbicide 2,4-D isooctylester 48 on root Mitosis of Allium cepa**  
GÖMÜRGEN A. N.  
Cytologia, vol.65, no.65, pp.383-388, 2000 (Scopus)
- XI. **The Effects of Temperature and Gibberellic Acid on Germination of Eranthis hyemalis L Salisb Seeds**  
TIPIRDAMAZ R., GÖMÜRGEN A. N.  
Turk. J. Bot, no.24, pp.143-145, 2000 (Peer-Reviewed Journal)
- XII. **Chromosome number and karyotype analysis of Eranthis hyemalis**  
GÖMÜRGEN A. N.  
Progress in Botanical Research, no.1, pp.489, 1998 (Peer-Reviewed Journal)
- XIII. **Meiotic Analysis of Selected Material of Sainfoin and its Progeny with Branched and Unbranched**

## **Peduncles**

GÖMÜRGEN A. N.

Turkish Journal of Botany, vol.20, no.20, pp.399-409, 1996 (Scopus)

## **Refereed Congress / Symposium Publications in Proceedings**

- I. **Cytotoxicity and Genotoxicity Evaluation of Aqueous Extracts of Medicinal Plant Helichrysum Mill. with Allium assay**  
GÖMÜRGEN A. N.  
IConPB 2022 3rd International Congress on Plant Biology September 21-23, 2022, Rize -Türkiye, Rize, Turkey, 21 September 2022, pp.138
- II. **Chromosome numbers of Ornithogalum nallihanense and Ornithogalum armeniacum**  
GÖMÜRGEN A. N., KOCA A.  
IConPB 2022 3rd International Congress on Plant Biology September 21-23, 2022, Rize -Türkiye, 21 September 2022, pp.192
- III. **Environmental Impact of Priority Pollutants on Ecosystem at low concentrations**  
BAYSAL FURTANA G., GÖMÜRGEN A. N., TIPIRDAMAZ R., SANİN S. L.  
International Symposium Ecology 2018 Kastamonu Turkey, Kastamonu, Turkey, 19 - 23 June 2018
- IV. **Effects of Acetamidrid on Allium cepa**  
GÖMÜRGEN A. N., BAYSAL FURTANA G., TIPIRDAMAZ R.  
International symposium Ecology 2018, Kastamonu, Turkey, 19 - 23 June 2018
- V. **The Effects of Granweed and Endosulfan on Antioxidant Enzyme Activities in Allium cepa L.**  
BAYSAL FURTANA G., GÖMÜRGEN A. N., SANİN S. L., TIPIRDAMAZ R.  
POG (Plant Oxygen Group) 2017, KUŞADASI/AYDIN, Turkey, 10 - 13 September 2017
- VI. **The Effects of Endosulfan on Growth and Lipid Peroxidation in Allium cepa**  
BAYSAL FURTANA G., GÖMÜRGEN A. N., SANİN S. L., TIPIRDAMAZ R.  
Ecology 2017 International Symposium, Kayseri, Turkey, 11 - 13 May 2017
- VII. **Cytotoxic and Genotoxic Effects of Endosulphan**  
GÖMÜRGEN A. N., BAYSAL FURTANA G., SANİN S. L., TIPIRDAMAZ R.  
Ecology 2017 International Symposium, Kayseri, Turkey, 11 - 13 May 2017
- VIII. **“Evaluation of genotoxic and cytotoxic risks of untreated and treated municipal waste water.”**  
TIPIRDAMAZ R., GÖMÜRGEN A. N., BAYSAL FURTANA G., SANİN S. L.  
ICAW 2017 Commet assay workshop, Pamplona, Spain, 29 - 31 August 2017
- IX. **Cytotoxic Genotoxic and Physiological Effects of herbicide Granweed**  
GÖMÜRGEN A. N., BAYSAL FURTANA G., TIPIRDAMAZ R.  
2nd INTERNATIONAL CONGRESS OF FORENSIC TOXICOLOGY Industrial and Environmental Toxicology, Ankara, Turkey, 26 - 30 May 2016
- X. **GÖMÜRGEN A N G B Furtana R Tıprdamaz Physiological and Cytogenetic effects of insecticide Korban 25 W on Allium cepa L**  
GÖMÜRGEN A. N., BAYSAL FURTANA G., TIPIRDAMAZ R.  
The International Conference on Civil and Environmental Engineering 20—23 May 2015, Nevşehir ,TURKEY, Nevşehir, Turkey, 20 - 23 May 2015
- XI. **Helianthum stipulatum (Cistaceae) Türü Üzerinde Taksonomik Çalışmalar**  
YEŞİLYURT E. B., ERİK S., ÖZMEN E., GÖMÜRGEN A. N., AKAYDIN G.  
22. Ulusal Biyoloji Kongresi, Eskişehir, Turkey, 23 June 2014, pp.472
- XII. **Helianthemum ledifolium var lasiocarpum Taksonunda Miksoploidi**  
BURCU Y., ERİK S., GÖMÜRGEN A. N., AKAYDIN G.  
22. Ulusal Biyoloji Kongresi, 23-27 Haziran 2014, Eskişehir Osmangazi Üniversitesi, Eskişehir, Türkiye, Turkey, 23 - 27 June 2014
- XIII. **CYTOLOGICAL EFFECT OF THE HERBICIDE 3 4 d ISOCTYLESTER 48 ON ROOT MITOSIS OF ALLIUM**

**CEPA**

GÖMÜRGEN A. N.

SECOND BALKAN BOTANICAL KONGRES, 14 - 18 May 2000

- XIV. **Endemik Ankyropetalum reuteri nin kromozom sayısı ve karyotip analizi Caryophyllaceae**  
GÖMÜRGEN A. N., ALTINÖZLÜ H.  
22. Ulusal Biyoloji Kongresi, 23-27 Haziran 2014, Eskişehir Osmangazi Üniversitesi, Eskişehir, Türkiye, Turkey, 23 - 27 June 2014
- XV. **Helianthemum salicifolium(Cistaceae) Üzerine Taksonomik, Morfolojik, Sitolojik, Palinolojik ve Ekolojik Çalışmalar**  
Yeşilyurt E. B., Erik S., Gömürgen A. N., Doğan C., Tavşanoğlu Ç., Özmen E., Akaydın G.  
21. Ulusal Biyoloji Kongresi, İzmir, Turkey, 03 September 2012, pp.671-672
- XVI. **Taxonomic studies on rare endemic species from Turkey: Helianthemum germanicopolitanum Bornm. (Cistaceae)**  
Yeşilyurt E. B., Erik S., Gömürgen A. N., Doğan C., Özmen E., Akaydın G.  
International Symposium On Biology of Rare and Endemic Plant Species, Muğla, Turkey, 23 - 27 April 2012, pp.59
- XVII. **Taxonomic studies on rare endemic species from Turkey Helianthemum germanicopolitanum Bornm CISTACEAE**  
BURCU Y., SADIK E., GÖMÜRGEN A. N., DOĞAN C., ÖZMEN E., AKAYDIN G.  
Teh second International Symposium on Biology of rare endemic Plant species (BIORARE), 24 - 27 April 2012
- XVIII. **Chromosome Number and Karyotype Analysis of Turkish Endemic Tordylium ketenoglui H.Duman amp A.Duran**  
GÖMÜRGEN A. N., DOĞAN C., ÖZMEN E., ALTINÖZLÜ H.  
20. Ulusal Biyoloji Kongresi, Denizli, Turkey, 21 - 25 June 2010
- XIX. **Bazı endemik Tordylium (Apiaceae) türlerinin polen morfolojisi**  
Özmen E., Doğan C., Gömürgen A. N., Altınözlü H.  
20. Ulusal Biyoloji Kongresi, Denizli, Turkey, 21 - 25 June 2010, pp.414
- XX. **Türkiye için endemik olan Tordylium elegans in Boiss Bal Alava Hub Mor Umbelliferae kromozom sayısı ve karyotip Analizi**  
GÖMÜRGEN A. N., ALTINÖZLÜ H.  
19. Ulusal Biyoloji Kongresi Trabzon, Turkey, 23 - 27 June 2008
- XXI. **BAZI ENDEMİK TORDYLIUM TÜRLERİNİN POLEN MORFOLOJİSİ**  
ÖZMEN E., DOĞAN C., GÖMÜRGEN A. N., ALTINÖZLÜ H.  
20. ULUSAL BİYOLOJİ KONGRESİ, Turkey, 21 - 25 June 2010
- XXII. **CHROMOSOME NUMBER KARYOTYPE ANALYSİSİ AND POLLEN MORPHOLOGY OF TURKISH ENDEMİK TORDYLIUM KETENOĞLUI H DUMAN A DURAN**  
GÖMÜRGEN A. N., DOĞAN C., ÖZMEN E., ALTINÖZLÜ H.  
20. ULUSAL BİYOLOJİ KONGRESİ, Turkey, 21 - 25 June 2010
- XXIII. **On farklı Aril Substitue Fenantren Türevinin Genotoksik etkisinin Ames Testi ve Allium Testi ile Araştırılması**  
Aydoğdu F., Mercangöz A., GÖMÜRGEN A. N.  
8. Ulusal Tıbbi Biyoloji Kongresi Adana, Turkey, 14 - 17 October 2003
- XXIV. **Saturea cuneifolia Ten Labiateae türünün kromozom sayısı ve karyotip analizi**  
GÖMÜRGEN A. N., Mehtap Ö., Sadık E.  
16. Ulusal Biyoloji Kongresi Malatya, Turkey, 4 - 07 September 2002
- XXV. **B kromozomlu Lilium martagon L Liliaceae Karyotip Analizi**  
GÖMÜRGEN A. N., ALTINÖZLÜ H.  
16. Ulusal Biyoloji Kongresi Malatya, Turkey, 4 - 06 September 2003
- XXVI. **CNTAUREA CİNSİNE AİT BAZI TÜRLERİN KROMOZOM SAYILARI**  
GÖMÜRGEN A. N.  
II. Uluslararası Gölbaşı Göller-Andezitve sevgi çiçeği Festivali Sempozyumu, 17 - 19 April 2005

## **Metrics**

Publication: 42

Citation (WoS): 3

Citation (Scopus): 38

H-Index (WoS): 3

H-Index (Scopus): 4

## **Non Academic Experience**

Gazi Üniversitesi