



## Personal Information

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## International Researcher IDs

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Publons / Web Of Science ResearcherID: F-5911-2015

ScopusID: 56568221000

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## Education Information

Doctorate, Istanbul University, Institute of Graduate Studies In Sciences, Genel Biyoloji Programı, Turkey 2009 - 2015

Postgraduate, Istanbul University, Institute of Graduate Studies In Sciences, Genel Biyoloji Programı, Turkey 2005 - 2009

Undergraduate, Istanbul University, Faculty Of Science, Biyoloji, Turkey 2001 - 2005

## Foreign Languages

English, B2 Upper Intermediate

## Certificates, Courses and Trainings

Health&Medicine, Real-Time PCR Çalıştayı, Arel Üniversitesi Moleküler Biyoloji ve Genetik, 2013

Health&Medicine, Deney Hayvanları Kullanım Kursu, İ.Ü., Hayvan Deneyleeri Yerel Etik Kurulu, DETAE, 2012

Health&Medicine, Temel Kök Hücre Teknikleri ve Moleküler Biyoloji Kursu, Kocaeli Üni., KÖGEM, 2009

## Dissertations

Doctorate, Sıçan prostat kanseri modelinde voltaj kapılı Na kanal aktivitesinin Gabapentin ile değerlendirilmesi: in vitro ve in vivo analizler, Istanbul University, Institute of Graduate Studies In Sciences, Fen Fakültesi Bölümü, 2015

Postgraduate, Dunning Sıçan Prostat Tümör Sıvısının Mat-LyLu Hücreleri Üzerine Etkisi, Istanbul University, Institute of Graduate Studies In Sciences, Genel Biyoloji Programı, 2009

## Research Areas

Life Sciences, Animal Biology, Animal Tissue Culture, Molecular Biology and Genetics, Molecular Biology of Cancer, Natural Sciences

## Academic Titles / Tasks

Research Assistant PhD, Istanbul University, Faculty of Science, Department of Biology, 2009 - Continues

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

- I. **Lidocaine Inhibits Rat Prostate Cancer Cell Invasiveness and Voltage-Gated Sodium Channel Expression in Plasma Membrane**  
Rizaner N., Fraser S. P., BUGAN GÜL İ., Purut E., Djamgoz M. B. A., Altun S.  
JOURNAL OF MEMBRANE BIOLOGY, vol.257, no.1-2, pp.17-24, 2024 (SCI-Expanded)
- II. **Oxidative brain and cerebellum injury in diabetes and prostate cancer model: Protective effect of metformin**  
Dağsuyu E., Köroğlu P., Bugan Gül İ., Bulan N. Ö., Yanardağ R.  
JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, vol.0, 2023 (SCI-Expanded)
- III. **Inhibition Effect of Cell-Free Supernatants of Environmental Acanthamoeba Strains on the Viability of Metastatic Cell-Lines**  
Zeybek Z., Kebabcı Ç., Bugan Gül İ., Akbaş F.  
MIKROBIYOLOJİ BULTENİ, vol.57, no.2, pp.283-292, 2023 (SCI-Expanded)
- IV. **Brain Boron Level, DNA Content, and Myeloperoxidase Activity of Metformin-Treated Rats in Diabetes and Prostate Cancer Model**  
Ozel A. B., Dagsuyu E., Aydin P. K., Bugan I., Bulan O. K., Yanardag R., YARAT A.  
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.200, no.3, pp.1164-1170, 2022 (SCI-Expanded)
- V. **The protective effect of metformin against testicular damage in diabetes and prostate cancer model**  
Aydin P. K., Karabulut-Bulan O., Bugan I., Turkyilmaz I. B., Altun S., Yanardag R.  
CELL BIOCHEMISTRY AND FUNCTION, vol.40, no.1, pp.60-70, 2022 (SCI-Expanded)
- VI. **Histological and biochemical investigation of the renoprotective effects of metformin in diabetic and prostate cancer model**  
Koroglu-Aydin P., BAYRAK B. B., Bugan I., Karabulut-Bulan O., YANARDAĞ R.  
TOXICOLOGY MECHANISMS AND METHODS, vol.31, no.7, pp.489-500, 2021 (SCI-Expanded)
- VII. **Anti-metastatic effect of ranolazine in an in vivo rat model of prostate cancer, and expression of voltage-gated sodium channel protein in human prostate**  
Bugan I., Kucuk S., Karagoz Z., FRASER S. P., KAYA H., DODSON A., FOSTER C. S., Altun S., DJAMGOZ M. B. A.  
PROSTATE CANCER AND PROSTATIC DISEASES, vol.22, no.4, pp.569-579, 2019 (SCI-Expanded)
- VIII. **Anti-metastatic effect of riluzole on Mat-LyLu rat prostate cancer cell line**  
Uzun S., ALTUN S., BUGAN İ.  
ANNALS OF ONCOLOGY, vol.28, 2017 (SCI-Expanded)
- IX. **Gabapentin, an Analgesic Used Against Cancer-Associated Neuropathic Pain: Effects on Prostate Cancer Progression in an In Vivo Rat Model**  
Bugan I., Karagoz Z., Altun S., Djamgoz M. B. A.  
BASIC & CLINICAL PHARMACOLOGY & TOXICOLOGY, vol.118, no.3, pp.200-207, 2016 (SCI-Expanded)
- X. **Inhibitory effects of dunning rat prostate tumor fluid on proliferation of the metastatic MAT-LyLu cell line**  
BUGAN İ., Altun S.  
Asian Pacific Journal of Cancer Prevention, vol.16, no.2, pp.831-836, 2015 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Drug repurposing: Metformin's effect against liver tissue damage in diabetes and prostate cancer model**  
Aydin P. K., TÜRKYILMAZ İ. B., Gul İ., BULAN N. Ö., YANARDAĞ R.  
Journal of Diabetes and Metabolic Disorders, vol.22, no.1, pp.225-236, 2023 (ESCI)

**II. Riluzole and ranolazine application of prostate cancer: Cancer related testicular and liver tissue damage**

Köroğlu P., Bugan Gül İ.

Experimental Biomedical Research, vol.5, no.1, pp.10-22, 2022 (Peer-Reviewed Journal)

**Refereed Congress / Symposium Publications in Proceedings**

- I. The Role of Metformin Against Diabetes and Cancer-induced Small Intestinal Damage**  
Dağsuyu E., Bugan Gül İ., Köroğlu P., Bulan N. Ö., Yanardağ R.  
4th International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2022), Ankara, Turkey, 14 - 16 December 2022, pp.28
- II. Protective effects of metformin against diabetes-induced lens damage and dunning prostate cancer model**  
TÜRKYILMAZ İ. B., KÖROĞLU AYDIN P., BUGAN İ., BULAN N. Ö., YANARDAĞ R.  
3. EBAT Congress, Antalya, Turkey, 04 November 2021, pp.80
- III. Metformin protects against diabetes-induced pancreas injury and dunning prostate cancer model**  
ERTİK O., KÖROĞLU AYDIN P., BUGAN İ., BULAN N. Ö., YANARDAĞ R.  
2nd International Congress on Medical Sciences and Biotechnology, Uşak, Turkey, 1 - 03 October 2020, pp.380
- IV. Metforminin Dunning Prostat Kanseri Modelinde Karaciğer Hasarı Üzerine Etkileri**  
Türkyılmaz İ. B., Köroğlu P., Bugan İ., Bulan N. Ö., Yanardağ R.  
"XI. Aziz Sancar DETAE Günleri", İstanbul, Turkey, 28 - 29 November 2019, pp.17-18
- V. Ranolazine and Riluzole Combination in Prostate Cancer Proliferation**  
ÖNEN C., BUGAN İ., ALTUN S., Djamgoz M.  
International Congress on Biological and Medical Sciences, Niğde, Turkey, 31 October - 03 November 2018, no.8, pp.103
- VI. Protective effects of metformin against liver damage in Dunning rat prostate cancer model**  
TÜRKYILMAZ İ. B., Köroğlu P., BULAN N. Ö., BUGAN İ., YANARDAĞ R.  
7. Multidisipliner Kanseri Araştırma & 1. Temel Onkoloji Kongresi Uluslararası Katılımlı, İzmir, Turkey, 11 - 14 October 2018, pp.156
- VII. Anti-metastatic effect of riluzole on Mat-LyLu rat prostate cancer cell line**  
Uzun S., Altun S., Bugan İ.  
ESMO Asia Congress, Singapore, Singapore, 17 - 19 November 2017, vol.28
- VIII. New Study on Metformin Action Against Testicular Injury: Prostate Cancer, Diabetes and Diabetes - Cancer Connection**  
Koroğlu P., Karabulut Bulan O., Turkyılmaz İ. B., Bugan İ., YANARDAĞ R., BULAN N. Ö.  
13 th Multinational Congress on Microscopy, Rovinj, Croatia, 24 - 29 September 2017, pp.385-386
- IX. The Role of Metformin on the Rat Prostate Cancer Cells: Proliferation and Lateral Motility**  
BUGAN İ., ALTUN S., BULAN N. Ö., DJAMGOZ M.  
1. Uluslararası Kanseri ve İyon Kanalları Kongresi, Şanlıurfa, Turkey, 21 - 23 September 2017, pp.106
- X. Dunning prostat kanseri modelinde karaciğer hasarı ve metformin**  
Köroğlu P., Bulan N. Ö., Türkyılmaz İ. B., Bugan İ., Altun S., Yanardağ R.  
23. Ulusal Elektron Mikroskopi Kongresi (Uluslararası Katılımlı), Antalya, Turkey, 19 - 21 May 2017, pp.19
- XI. Protective effects of metformin against testicular damage in Dunning rat prostate cancer model**  
Köroğlu P., BULAN N. Ö., TÜRKYILMAZ İ. B., BUGAN İ., ALTUN S., YANARDAĞ R.  
15th International Congress of Histochemistry and Cytochemistry, Antalya, Turkey, 18 - 21 May 2017, pp.279
- XII. Metformin Ameliorates Testicular Damage in Diabetes and Prostate Cancer Model**  
Koroğlu P., Karabulut Bulan Ö., Türkyılmaz İ. B., Bugan İ., Altun S., Yanardağ R.  
The 16 th European Microscopy Congress 2016, Lyon, France, 28 August - 02 September 2016, vol.LS03-050
- XIII. Prostat kanserli sıçanların testislerinde metforminin anti-oksidatif etkisi**  
Köroğlu P., BULAN N. Ö., TÜRKYILMAZ İ. B., Bugan İ., Altun S., YANARDAĞ R.

Uluslararası Katılımlı XIII. Ulusal Histoloji ve Embriyoloji Kongresi, İzmir, Turkey, 30 April - 03 May 2016, pp.493-494

**XIV. EFFECTS OF RILUZOLE ON HISTOPATHOLOGY OF TESTES IN RAT PROSTATE CANCER MODEL**

Köroğlu P., BULAN N. Ö., ALTUN S., BUGAN İ., Karagöz Z., Djamgoz M. B.

12. Mutinational Congress on Microscopy, Eger, Hungary, 23 - 28 August 2015, pp.145

**XV. 4T1 Meme Kanseri Üzerine TTX'in Etkisi ve Ortotropik Model**

Bugan İ., Altun S.

IV. Multidisipliner Kanser Araştırma Kongresi, Bursa, Turkey, 13 - 16 December 2012, pp.6

**XVI. Prostat Kanseri Metastazı Üzerine Gabapentinin Etkisi.**

Karagöz Z., ALTUN S., BUGAN İ., Djamgoz M.

IV. Multidisipliner Kanser Araştırma Kongresi, Bursa, Turkey, 1 - 04 December 2012, pp.5

**XVII. Prostat Kanseri Metastazına Karşı, Voltaj Kapılı Sodyum Kanal Blokeri Olarak Gabapentin?**

ALTUN S., Gümüşhan H., BUGAN İ., Karagöz Z., Djamgoz M.

21. Ulusal Biyoloji kongresi, İzmir, Turkey, 1 - 04 September 2012, pp.302-303

**XVIII. Vinpocetine ve Docosaheptaenoic Acid'in Mat-LyLu Sıçan Prostat Kanseri Hücrelerinin Hareketi Üzerine Etkileri**

ALTUN S., GÜMÜŞHAN H., BUGAN İ., Fraser S., EROL Z., Djamgoz M.

23. Ulusal Biyokimya Kongresi, Adana, Turkey, 1 - 04 December 2011, vol.36

**XIX. Dunning Prostat Tümör Sıvısının, In Vitro Prostat Tümör Hücreleri Üzerindeki Antiproliferatif Etkisi**

ALTUN S., Yıldırım Ş., Gümüşhan H., Djamgoz M., BUGAN İ.

XVII. Ulusal Kanser Kongresi, Antalya, Turkey, 1 - 04 April 2007, pp.198

## Supported Projects

BUGAN GÜL İ., Project Supported by Higher Education Institutions, Lokal Anestezik Lidocaine'in, Sıçan Prostat Kanseri Hücrelerinin Metastatik Potansiyeli Üzerindeki Rolü, 2019 - 2020

BUGAN GÜL İ., UZUN S., Project Supported by Higher Education Institutions, Metformin'in Metastatik Sıçan Prostat Kanseri Hücrelerinin İnvazyonu Üzerine Etkisi, 2018 - 2019

Bugan Gül İ., Project Supported by Higher Education Institutions, Sıçan Prostat Kanseri Modelinde Voltaj Kapılı Na Kanal Aktivitesinin Gabapentin ile Değerlendirilmesi İn Vitro ve İn Vivo Analizler, 2011 - 2015

Altun S., TUBITAK Project, İn Vivo Sıçan Prostat Kanseri Hücreleri ve Voltaj Kapılı Sodyum Kanal Ekspresyonu: Metastatik Potansiyelin Değerlendirilmesinde Yeni Stratejiler ve Moleküler Yaklaşımlar, 2011 - 2014

Altun S., TUBITAK Project, Vinpocetine ve Docosaheptaenoic Asidin, Mat-lylu Sıçan Prostat Kanseri Hücrelerindeki Sodyum Kanal Aracılı Rolü: Hücre Kinetikleri ve Migrasyon", 2010 - 2011

## Memberships / Tasks in Scientific Organizations

Moleküler Kanser Araştırma Derneği, Member, 2012 - Continues

## Metrics

Publication: 31

Citation (WoS): 70

Citation (Scopus): 74

H-Index (WoS): 5

H-Index (Scopus): 5

## **Congress and Symposium Activities**

1. Uluslar Arası Gen-Arel Moleküler Biyoloji ve Genetik Öğrenci Kongresi, Attendee, Arel Üniversitesi Tepekent Kampüsü/İstanbul , Turkey, 2013
- IV. Multidisipliner Kanser Araştırma Kongresi, Attendee, Bursa, Turkey, 2012
21. Ulusal Biyoloji Kongresi, Attendee, İzmir, Turkey, 2012
19. Ulusal Biyoloji Kongresi, Attendee, Trabzon, Turkey, 2008
- II. Multidisipliner Kanser Araştırmaları Sempozyumu, Attendee, Bursa, Turkey, 2008
- XVII. Ulusal Kanser Kongresi, Attendee, Antalya, Turkey, 2007