



# BANU ORTA YILMAZ

## ASSOC. PROF.

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### International Researcher IDs

ScholarID: JjZkoAAAAJ

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Publons / Web Of Science ResearcherID: AAC-7970-2020

ScopusID: 57203840980

Yoksis Researcher ID: 33332



### Learning Knowledge

Doctorate

2013 - 2017

Istanbul University, Fen Bilimleri , Turkey

Postgraduate

2010 - 2012

Istanbul University, Fen Bilimleri , Turkey

Masters (Non-Thesis)

2009 - 2010

Istanbul University, Fen Bilimleri , Turkey

Undergraduate

2005 - 2009

Marmara University, Faculty Of Arts And Sciences, Biyoloji, Turkey

### Foreign Languages

English, B2 Upper Intermediate

### Certificates, Courses and Trainings

Health&Medicine, Eppendorf Pipette Clinic & Centrifuges Clinic Katılım Kursu, Eppendorf, 2011

Health&Medicine, Deney Hayvanları Kullanım Kursu, İ.Ü. DETAE Deney Hayvanları Biyolojisi ve Biyomedikal Uygulama Teknikleri Anabilim Dalı, 2011

### Dissertations

Doctorate, Sodyum florürün Leydig hücrelerinde steroidogenik yolak üzerinde in vitro etkileri, Istanbul University, Faculty of Science, Biyoloji, 2013

Postgraduate, Sodyum Florür'ün TM4 Sertoli Hücreleri Üzerinde Oluşturduğu Oksidatif Hasara Vitamin C'nin Etkisi, Istanbul University, Faculty of Science, Biyoloji, 2012

## Academic Titles / Tasks

Associate Professor  
2021 - Continues

Istanbul University, Faculty of Science, Department of Biology

Research Assistant PhD  
2017 - 2021

Istanbul University, Faculty of Science, Department of Biology

Research Assistant  
2014 - 2017

Istanbul University, Faculty of Science, Department of Biology

## Supported Projects

1. Aydın Y., Orta Yılmaz B., Project Supported by Higher Education Institutions, 5-hidroksimetilfurfuralın erkek üreme hücreleri üzerindeki apoptotik ve otofajik etkilerinin in vitro araştırılması, 2023 - 2025
2. Orta Yılmaz B., Agalar A., Project Supported by Higher Education Institutions, Fare Leydig hücrelerinde sodyum florürün neden olduğu genotoksositeye karşı n-asetilsisteinin koruyucu rolünün araştırılması, 2023 - 2024
3. Orta Yılmaz B., Kurtel H., Project Supported by Higher Education Institutions, 5-hidroksimetilfurfuralın karaciğer toksisitesi üzerine etkilerinin in vivo olarak incelenmesi, 2023 - 2024
4. ORTA YILMAZ B., FAKİOĞLU İ., ARMUT G., Project Supported by Higher Education Institutions, Sodyum florür ve hesperidinin fare Leydig hücrelerinde genotoksosite üzerinde etkilerinin araştırılması, 2022 - 2023
5. ORTA YILMAZ B., YILMAZ B., Project Supported by Higher Education Institutions, Furannın Leydig Hücrelerinde Genotoksik Profilinin Değerlendirilmesi, 2022 - 2023
6. Orta Yılmaz B., Aydın Y., Project Supported by Higher Education Institutions, 5-hidroksimetilfurfuralın erkek üreme toksisitesi üzerine etkisinin in vitro olarak incelenmesi, 2021 - 2023
7. EROL A., ÖZHAN G., ULUTAŞ D., KURUOĞLU F., SOLAKOĞLU S., AKÇAALAN ALBAY R., CEVHER E., GÜL A., BAYKAL B., GAZİOĞLU C., et al., Project Supported by Higher Education Institutions, İstanbul Üniversitesi Araştırma Laboratuvarlarının Sürekliliği ve Geliştirilmesi, 2021 - 2023
8. ORTA YILMAZ B., KESERCİ Y., SARIALİOĞLU İ., Project Supported by Higher Education Institutions, Kurşun nitratin Leydig hücreleri üzerinde oluşturduğu toksisiteye karşı C vitamini ve çinkonun etkisinin incelenmesi, 2021 - 2022
9. Orta Yılmaz B., Kurtel H., Project Supported by Higher Education Institutions, Sertoli hücrelerinde klorpirifos sitotoksitesinin değerlendirilmesi, 2020 - 2021
10. ORTA YILMAZ B., AYDIN Y., ERKAN M. B., YILDIZBAYRAK N., Project Supported by Higher Education Institutions, Glisamid ile uyarılmış embriyonik fibroblast hücrelerinde oluşan toksisiteye hesperidin ve vitamin C'nin etkisi, 2018 - 2020
11. ORTA YILMAZ B., YILMAZ B., Project Supported by Higher Education Institutions, Furannın Leydig hücrelerinde hücre canlılığı ve antioksidan savunma sistemi üzerindeki etkilerinin incelenmesi, 2018 - 2019
12. ORTA YILMAZ B., ERKAN M. B., KORKUT A., Project Supported by Higher Education Institutions, Sodium fluoride disrupts testosterone biosynthesis by affecting the steroidogenic pathway in TM3 Leydig cells, 2018 - 2019
13. ORTA YILMAZ B., ERKAN M. B., YILDIZBAYRAK N., Project Supported by Higher Education Institutions, Sodium arsenite induced detriment of cell function in Leydig and Sertoli cells the potential relation of oxidative damage and antioxidant defense system, 2018 - 2019
14. ORTA YILMAZ B., YILDIZBAYRAK N., AYDIN Y., Project Supported by Higher Education Institutions, Evidence of acrylamide and glycidamideinduced oxidative stress and apoptosis in Leydig and Sertoli cells, 2017 - 2018

15. ERKAN M. B., YILDIZBAYRAK N., AYDIN Y., TOPÇUL M. R., ORTA YILMAZ B., ÖZ G., Project Supported by Higher Education Institutions, Akrilamid ve Glisidamid'in Leydig hücrelerinde apoptotik ve steroidogenik yolak üzerinde in vitro etkileri, 2015 - 2018
16. ORTA YILMAZ B., AYDIN Y., Project Supported by Higher Education Institutions, Co-exposure to sodium arsenite and sodium fluoride induced cellular and oxidative damage in Sertoli cells, 2017 - 2017
17. ERKAN M. B., ORTA YILMAZ B., Project Supported by Higher Education Institutions, Sodyum florürün Leydig hücrelerinde steroidogenik yolak üzerinde in vitro etkileri, 2014 - 2017
18. ERKAN M. B., ELDEM V., ORTA YILMAZ B., AYDIN Y., Project Supported by Higher Education Institutions, Hamsi balığı (*Engraulis encrasicolus* L., 1758)' nın genom karakteri ve kompozisyonunun araştırılması, 2014 - 2017
19. AYDIN Y., ORTA YILMAZ B., Project Supported by Higher Education Institutions, Hamile sıçanlarda akrilamid, arsenik ve florürün erkek yavru steroidogenez profiline etkileri, 2013 - 2017
20. ERKAN M. B., ORTA YILMAZ B., Project Supported by Higher Education Institutions, EFFECTS OF VITAMIN C ON ANTIOXIDANT SYSTEMS AND STEROIDOGENIC ENZYMES IN SODIUM FLUORIDE EXPOSED TM4 SERTOLI CELLS, 2016 - 2016
21. ERKAN M. B., ORTA YILMAZ B., AYDIN Y., Project Supported by Higher Education Institutions, Antioxidant activity of Genistein on polychlorinated biphenyls (Aroclor 1260) Induced toxicity in TM3 cell line, 2013 - 2016

## Awards

1. ALTUĞ G., ORTA YILMAZ B., AYDIN Y., ERKAN M. B., ERKAN M. B., AYDIN Y., GÜZELDEMİRCİ N., ERYILMAZ L., ÖZTÜRK B., Başarılı Araştırmacı Ödülü, İstanbul Üniversitesi Bilimsel Araştırma Projeleri Birimi, May 2014

## Jury Memberships

Post Graduate, Post Graduate, Marmara Üniversitesi, September, 2023

Post Graduate, Post Graduate, Marmara Üniversitesi, September, 2023

Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, İstanbul Bilgi Üniversitesi, August, 2023

Post Graduate, Post Graduate, İstanbul Üniversitesi, March, 2023

Post Graduate, Post Graduate, İstanbul Üniversitesi, March, 2023

Post Graduate, Post Graduate, İstanbul Üniversitesi, March, 2023

Post Graduate, Post Graduate, İstanbul Üniversitesi, June, 2022

Doctorate, Doctorate, Marmara Üniversitesi, August, 2021

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

1. **The impact of furan exposure on steroidogenesis in Leydig cells: cellular and molecular observations**  
Orta Yılmaz B., Korkut A., Aydın Y.  
MOLECULAR BIOLOGY REPORTS, vol.51, pp.1047-1059, 2024 (SCI-Expanded)
2. **N-acetylcysteine attenuates sodium arsenite-induced oxidative stress and apoptosis in embryonic fibroblast cells**  
Taşçı T., Orta Yılmaz B., Aydın Y., Çalışkan M.  
TOXICOLOGY RESEARCH, vol.13, no.4, 2024 (SCI-Expanded)
3. **Assessment of the oxidative damage and apoptotic pathway related to furan cytotoxicity in cultured mouse Leydig cells**  
Aydın Y., Yılmaz B., Dikbasan Y. U., Orta-Yılmaz B.  
TOXICOLOGY RESEARCH, vol.12, no.3, pp.400-407, 2023 (SCI-Expanded)

4. **Dynamic assessment of the relationship between oxidative stress and apoptotic pathway in embryonic fibroblast cells exposed to glycidamide: possible protective role of hesperidin**  
ORTA YILMAZ B., AYDIN Y.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.30, no.18, pp.53295-53308, 2023 (SCI-Expanded)
5. **Furan promotes cytotoxic effects through DNA damage and cell apoptosis in Leydig cells**  
YILMAZ B. E., AYDIN Y., ORTA YILMAZ B.  
Toxicology Mechanisms and Methods, vol.33, no.9, pp.796-805, 2023 (SCI-Expanded)
6. **Disruption of Leydig cell steroidogenic function by sodium arsenite and/or sodium fluoride**  
Orta Yilmaz B., Aydin Y.  
THERIOGENOLOGY, vol.193, no.193, pp.146-156, 2022 (SCI-Expanded)
7. **Synergistic effects of arsenic and fluoride on oxidative stress and apoptotic pathway in Leydig and Sertoli cells**  
Aydin Y., Orta Yilmaz B.  
TOXICOLOGY, vol.475, pp.1-11, 2022 (SCI-Expanded)
8. **Evaluation of citrinin-induced toxic effects on mouse Sertoli cells**  
Aydin Y., Orta Yilmaz B., Yıldızbayrak N., Korkut A., Arabul-Kursun M., İrez T., Erkan M.  
Drug And Chemical Toxicology, vol.44, no.6, pp.559-565, 2021 (SCI-Expanded)
9. **Effects of Curcumin on Sodium Arsenite Induced Neoplastic Cell Transformation in Balb/c 3T3 Cells**  
Demircioglu B., Aydin Y., Orta-Yilmaz B., Yildizbayrak N., Erkan M.  
BRAZILIAN ARCHIVES OF BIOLOGY AND TECHNOLOGY, vol.64, pp.1-10, 2021 (SCI-Expanded)
10. **Sodium arsenite-induced detriment of cell function in Leydig and Sertoli cells: the potential relation of oxidative damage and antioxidant defense system**  
ORTA YILMAZ B., Yildizbayrak N., Erkan M.  
Drug and Chemical Toxicology, vol.43, no.5, pp.479-487, 2020 (SCI-Expanded)
11. **Vitamin C inhibits glycidamide-induced genotoxicity and apoptosis in Sertoli cells**  
ORTA YILMAZ B., Yildizbayrak N., AYDIN Y.  
JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, vol.34, no.9, 2020 (SCI-Expanded)
12. **Acrolein exerts a genotoxic effect in the Leydig cells by stimulating DNA damage-induced apoptosis**  
Yildizbayrak N., Orta-Yilmaz B., Aydin Y., Erkan M.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.27, no.13, pp.15869-15877, 2020 (SCI-Expanded)
13. **Protective effects of vitamin C and curcumin against acrylamide toxicity in embryonic fibroblast cells**  
Orta-Yilmaz B.  
Toxicological and Environmental Chemistry, vol.101, pp.389-403, 2019 (SCI-Expanded)
14. **Protective effects of curcumin on biochemical and molecular changes in sodium arsenite-induced oxidative damage in embryonic fibroblast cells**  
Perker M. C., Yilmaz B. O., Yildizbayrak N., Aydin Y., Erkan M. B.  
JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, vol.33, no.7, 2019 (SCI-Expanded)
15. **Sodium fluoride disrupts testosterone biosynthesis by affecting the steroidogenic pathway in TM3 Leydig cells**  
Yilmaz B. O., Korkut A., Erkan M.  
CHEMOSPHERE, vol.212, pp.447-455, 2018 (SCI-Expanded)
16. **Evidence of acrylamide- and glycidamide-induced oxidative stress and apoptosis in Leydig and Sertoli cells**  
Yilmaz B., Yildizbayrak N., Aydin Y., Erkan M. B.  
Human and Experimental Toxicology, vol.36, pp.1225-1235, 2017 (SCI-Expanded)
17. **EFFECTS OF VITAMIN C ON SODIUM FLUORIDE-INDUCED OXIDATIVE DAMAGE IN SERTOLI CELLS**  
Yilmaz B., Erkan M.  
FLUORIDE, vol.48, no.3, pp.241-251, 2015 (SCI-Expanded)
18. **EFFECTS OF VITAMIN C ON ANTIOXIDANT SYSTEMS AND STEROIDOGENIC ENZYMES IN SODIUM FLUORIDE-EXPOSED TM4 SERTOLI CELLS**  
Orta B., Erkan M.

## Articles Published in Other Journals

1. **Vitamin E and genistein generate a cytoprotective effect on polychlorinated biphenyl- induced oxidative stress in testicular Leydig cells**  
Aydın Y., Orta Yılmaz B., Erkan M.  
TRAKYA UNIVERSITY JOURNAL OF NATURAL SCIENCES, vol.25, no.1, pp.1-10, 2024 (ESCI)
2. **THE EFFECTS OF VITAMIN C ON GLYCIDAMIDE-INDUCED CELLULAR DAMAGE AND APOPTOSIS IN MOUSE LEYDIG CELLS**  
Orta Yılmaz B.  
TRAKYA UNIVERSITY JOURNAL OF NATURAL SCIENCES, vol.20, no.1, pp.9-17, 2019 (ESCI)

## Books & Book Chapters

1. **Enhancement of Insulin Sensitivity and Management of Lipid Disorders during Gestational Diabetes Mellitus: Role of Capsaicin**  
Orta Yılmaz B., Korkut A., Aydın Y.  
in: Natural Products and their Bioactives in Antidiabetic Drug Discovery, Pandey Kanti Bhooshan, Suttajit Maitree, Atukeren Pinar, Editor, John Wiley & Sons, West Sussex, UK , New Jersey, pp.294-307, 2024
2. **The Genotoxic Effects of Heat-Induced Food Contaminants in the Male Reproductive System**  
Orta Yılmaz B., Kurtel H., Keskin B., Aydın Y.  
in: Genotoxicity: Advances in Research and Applications, Alimba Chibuisi Gideon, Editor, NOVA Science Publishers Inc. , New York, pp.1-31, 2024
3. **The Role of Telomerase Activators in Antiaging Strategies and their Clinical Potential**  
Aydın Y., Orta Yılmaz B.  
in: Emerging Anti-Aging Strategies, Rizvi, Syed Ibrahim, Editor, Springer Nature, Singapore, pp.227-242, 2023
4. **Chapter 12 - Plant polyphenols in the regulation of ion channels during aging and induced diseases**  
ORTA YILMAZ B., YILMAZ B., AYDIN Y.  
in: Plant Bioactives as Natural Panacea Against Age-Induced Diseases, Pandey Kanti Bhooshan, Suttajit Maitree, Editor, Elsevier, Amsterdam, pp.235-252, 2022
5. **Chapter 5 - Plant bioactives in immune modulation and their role in antiaging**  
AYDIN Y., DİKBASAN Y. Ü., ORTA YILMAZ B.  
in: Plant Bioactives as Natural Panacea Against Age-induced Diseases, Pandey Kanti Bhooshan, Suttajit Maitree, Editor, Elsevier, Amsterdam, pp.85-109, 2022
6. **16. Arsenic-induced oxidative stress in reproductive systems**  
Erkan M. B., Aydın Y., Orta Yılmaz B., Yıldızbayrak N.  
in: Toxicology- Oxidative Stress and Dietary Antioxidants, Victor Preedy, Vinood Patel, Editor, AP, London , London, pp.145-153, 2021
7. **42. Protective effects of vitamin C against fluoride toxicity**  
Erkan M. B., Aydın Y., Orta Yılmaz B., Yıldızbayrak N.  
in: Toxicology- Oxidative Stress and Dietary Antioxidants, Victor Preedy, Vinood Patel, Editor, AP, London , London, pp.435-442, 2021
8. **16. Arsenic-induced oxidative stress in reproductive systems**  
Erkan M., Aydın Y., Orta Yılmaz B., Yıldızbayrak N.  
in: Toxicology- Oxidative Stress and Dietary Antioxidants, Victor Preedy, Vinood Patel, Editor, AP, London , London, pp.145-153, 2021
9. **42. Protective effects of vitamin C against fluoride toxicity**  
Erkan M., Aydın Y., Orta Yılmaz B., Yıldızbayrak N.

in: Toxicology- Oxidative Stress and Dietary Antioxidants, Vinood Patel, Victor Preedy, Editor, AP, London, London, pp.435-442, 2021

10. **The Role of Environmental Contaminants in Leydig Cell Steroidogenesis**

Orta Yılmaz B., Erkan M. B.

in: Leydig Cells: Structure, Functions and Clinical Aspects, Bruno Solomon, Editor, NOVA Science Publishers Inc. , New York, pp.49-70, 2020

11. **The Role of Environmental Contaminants in Leydig Cell Steroidogenesis**

Orta Yılmaz B., Erkan M.

in: Leydig Cells: Structure, Functions and Clinical Aspects, Bruno Solomon (Editor), Editor, NOVA Science Publishers Inc. , New York, pp.49-70, 2020

12. **The Potential Role of Stem Cell Reprogramming in Antiaging**

Orta Yılmaz B., Erkan M. B.

in: Molecular Basis and Emerging Strategies for Anti-aging Interventions, Rizvi S. I., Çakatay U., Editor, Springer, London/Berlin , Singapore, pp.35-45, 2018

13. **İnsan Gelişiminin 1. Haftası**

ORTA YILMAZ B.

in: BRS Embriyoloji, İrez T., Erkan M., Editor, İstanbul Tıp Kitap Yayınevi, İstanbul, pp.12-17, 2016

14. **Antioxidant activity of Genistein on Polychlorinated Biphenyl (Aroclor 1260) induced toxicity in TM3 cell line**

Aydın Y., Orta Yılmaz B., Erkan M.

in: Perspectives In Animal Ecology And Reproduction Vol.9, Gupta V. K., Verma A. K., Singh G., Editor, Daya Publishing House, New Delhi, pp.467-489, 2013

## Refereed Congress / Symposium Publications in Proceedings

1. **PROTECTIVE EFFECTS OF N-ACETYLSYSTEINE ON SODIUM FLUORIDE INDUCED CYTOTOXICITY AND APOPTOSIS IN MOUSE LEYDIG CELLS**

Yılmaz Y., Kümbül Ö., Orta Yılmaz B., Aydın Y.

VI. International Agricultural, Biological & Life Science Conference, Edirne, Turkey, 18 - 20 September 2024, pp.345-355

2. **N-ACETYLCYSTEINE SUPPRESSES SODIUM FLUORIDE-INDUCED GENOTOXICITY IN MOUSE LEYDIG CELLS**

Agalar A., Aydın Y., Orta Yılmaz B.

VI. International Agricultural, Biological & Life Science Conference, Edirne, Turkey, 18 - 20 September 2024, pp.680-690

3. **In vitro effects of luteolin on the toxicity of acrylamide in Leydig cells**

Çalmaz E., Orta Yılmaz B., Aydın Y.

VI. International Conferences on Natural Sciences and Technologies, Antalya, Turkey, 30 May - 01 June 2024, pp.26

4. **Luteolin alleviates genotoxicity by attenuating micronucleus formation and cellular damage in acrylamide-exposed embryonic fibroblast cells**

Keskin B., Orta Yılmaz B., Aydın Y.

6th International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2023) October 11-13, 2023. , Ankara, Turkey, 11 - 13 October 2023, pp.292

5. **IMPACT OF HESPERIDIN AGAINST GENOTOXIC RISKS CAUSED BY SODIUM FLUORIDE IN MICE LEYDIG**

Armut G., Fakioğlu İ., Aydın Y., Orta Yılmaz B.

V. International Agricultural, Biological & Life Science Conference, Edirne, Turkey, 18 - 20 September 2023, pp.103-111

6. **THE EFFECTS OF LUTEOLIN ON ACRYLAMIDE INDUCED OXIDATIVE DAMAGE IN 3T3 EMBRYONIC FIBROBLAST CELLS**

Çakır E., Orta Yılmaz B., Aydın Y.

- V. International Agricultural, Biological & Life Science Conference, Edirne, Turkey, 18 - 20 September 2023, pp.197-205
7. **Effect of N-acetylcysteine on oxidative damage caused by arsenic in Leydig cells**  
Acı Kuşan C., Orta Yılmaz B., Aydın Y.  
4th International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2022), Ankara, Turkey, 14 - 16 December 2022, pp.374-381
  8. **Evaluation of the genotoxic profile of furan in Leydig cells**  
Yılmaz B., Orta Yılmaz B.  
4th International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2022), Ankara, Turkey, 14 - 16 December 2022, pp.5
  9. **EFFECTS OF VITAMIN C AND ZINC ON FURAN INDUCED TOXICITY IN TM4 SERTOLI CELLS**  
Dumanoğlu Z., Orta Yılmaz B., Aydın Y.  
IV. International Agricultural, Biological & Life Science Conference, Edirne, Turkey, 29 - 31 August 2022, pp.253-263
  10. **ZINC AND VITAMIN C CAN PREVENT OXIDATIVE STRESS INDUCED BY LEAD NITRATE IN MOUSE LEYDIG CELLS**  
Sarıalioğlu İ., Keserci Y., Aydın Y., Orta Yılmaz B.  
IV. International Agricultural, Biological & Life Science Conference, Edirne, Turkey, 29 - 31 August 2022, pp.191-201
  11. **Evaluation of chlorpyrifos cytotoxicity in Sertoli cells**  
Orta Yılmaz B., Kurtel H.  
III. International Conference on Agricultural, Biological and Life Science, İstanbul, Turkey, 1 - 03 September 2021, pp.199
  12. **Antioxidant activity of ascorbic acid on sodium fluoride induced cytotoxicity, oxidative damage, and apoptosis in Leydig cells**  
Orta Yılmaz B., Aydın Y.  
3rd International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2020), Ankara, Turkey, 19 - 20 March 2020, pp.15-22
  13. **Vitamin C prevents arsenic-induced oxidative and DNA damage in TM3 cell line**  
Orta Yılmaz B.  
3rd International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2020), Ankara, Turkey, 19 - 20 March 2020, pp.296
  14. **Evaluation of the antioxidant defense system parameters in furan- induced toxicity in Leydig cells**  
ORTA YILMAZ B., YILMAZ B.  
International Conference on Natural Sciences and Technology, Prizren, Kosova, 26 - 30 August 2019, pp.1
  15. **Ameliorative effects of vitamin C on testosterone biosynthesis in acrylamide-exposed Leydig cells**  
ORTA YILMAZ B.  
2ND INTERNATIONAL EURASIAN CONFERENCE ON BIOLOGICAL AND CHEMICAL SCIENCES, Ankara, Turkey, 28 - 29 June 2019, pp.344
  16. **Vitamin C Effectively Ameliorates Glycidamide-Induced Cellular Damage and Apoptosis in Mouse Leydig Cells**  
ORTA YILMAZ B.  
International Symposium Ecology, Kastamonu, Turkey, 19 - 23 June 2018, pp.155
  17. **Anti-Oxidative Effects of Curcumin on Sodium Arsenite Induced Oxidative Damage in 3T3 Embryonic Fibroblast Cells**  
ORTA YILMAZ B., AYDIN Y., Yıldızbayrak N., PERKER M. C., ERKAN M. B.  
INTERNATIONAL EURASIAN CONFERENCE ON BIOLOGICAL AND CHEMICAL SCIENCES, Ankara, Turkey, 26 - 27 April 2018, vol.1, no.1, pp.356
  18. **Ameliorative effects of vitamin C on cellular oxidative damage and apoptosis induced by glycidamide in Sertoli cells**  
AYDIN Y., ORTA YILMAZ B.

- International Congress on Engineering and Life Sciences, Kastamonu, Turkey, 26 - 29 April 2018, vol.1, no.1, pp.1
19. **Co-exposure to sodium arsenite and sodium fluoride induced cellular and oxidative damage in Sertoli cells**  
ORTA YILMAZ B., AYDIN Y.  
3rd International Congress on Environmental Researches and Technology (ICERAT), Belgrad, Serbia And Montenegro, 8 - 12 November 2017, pp.1-2
20. **Effects of Fluoride on the Expression of Steroidogenesis Genes in TM3 Leydig Cells**  
ORTA YILMAZ B., ERKAN M. B.  
18TH EUROPEAN SYMPOSIUM ON FLUORINE CHEMISTRY, Kiev, Ukraine, 7 - 12 August 2016, pp.111
21. **Acrylamide and Glycidamide can Effect Leydig and Sertoli Cell Viability, Oxidative Damage and Apoptosis in vitro**  
ORTA YILMAZ B., Yıldızbayrak N., ERKAN M. B.  
9th World Congress on Alternatives and Animal Use in the Life Sciences, Prag, Czech Republic, 24 - 28 August 2014, pp.136-137

## Academic and Administrative Experience

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	<b>Bölüm Akademik Teşvik</b>	
2021 - Continues	<b>Değerlendirme Komisyonu Üyesi</b>	Istanbul University, Faculty Of Science, Department of Biology

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## Courses

HÜCRE VE MOLEKÜLER BİYOLOJİ ARAŞTIRMALARI II, Undergraduate, 2022 - 2023, 2021 - 2022  
Gelişim Biyolojisinde Seçme Konular, Undergraduate, 2021 - 2022  
Hücre İskeleti Yapı ve Fonksiyonu, Postgraduate, 2021 - 2022  
Gametogenez, Postgraduate, 2022 - 2023, 2021 - 2022  
Gelişim Biyolojisi, Undergraduate, 2022 - 2023  
Moleküler Genetik, Undergraduate, 2021 - 2022  
İnsan Embriyolojisine Giriş, Undergraduate, 2021 - 2022  
Genetik Toksikoloji Araştırma Yöntemleri, Undergraduate, 2022 - 2023, 2021 - 2022  
HÜCRE VE MOLEKÜLER BİYOLOJİ ARAŞTIRMALARI I, Undergraduate, 2021 - 2022

## Advising Theses

Orta Yılmaz B., 5-hidroksimetilfurfuralın karaciğer toksisitesi üzerine etkilerinin in vivo olarak incelenmesi, Postgraduate, H.KURTEL(Student), Continues  
Orta Yılmaz B., Furanın Leydig Hücrelerinde Genotoksik Profilinin Değerlendirilmesi, Postgraduate, B.YILMAZ(Student), 2023

## Contractual Researches

- Orta Yılmaz B., Aydın Y., MEDİ PRİME İLAÇ SANAYİ VE TİCARET ANONİM ŞİRKETİ , Hesperidin-Kurkumin Kompleksinin Kanser Tedavisinde Kullanılabilirliği, 2022 - 2023

## Research Areas



Life Sciences, Animal Biology, Animal Tissue Culture, Animal Development and Maturation, Animal Reproduction, Molecular Biology and Genetics, Animal Molecular Genetics, Natural Sciences