



# YASEMIN AYDIN

## ASSOC. PROF.

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: F-3112-2012

ScopusID: 57210106323

Yoksis Researcher ID: 34852



### Learning Knowledge

Doctorate  
2006 - 2012

Istanbul University, Institute of Graduate Studies In Sciences, Biyoloji, Turkey

Postgraduate  
2002 - 2006

Istanbul University, Institute of Graduate Studies In Sciences, Biyoloji, Turkey

Undergraduate  
1998 - 2002

Istanbul University, Faculty Of Science, Biyoloji, Turkey

### Foreign Languages

English, C1 Advanced

### Certificates, Courses and Trainings

Education Management and Planning, ATCC cell culture seminar, LGC Standarts, 2012

Education Management and Planning, Deney Hayvanları Kullanım Kursu, İ.Ü. DETAE Deney Hayvanları Biyolojisi ve Biyomedikal Uygulama Teknikleri Anabilim Dalı, 2011

Education Management and Planning, Eppendorf Pipette Clinic & Centrifuges Clinic Katılım Kursu, Eppendorf, 2011

Education Management and Planning, Deney Hayvanları Uygulama ve Etik kursu, İ.Ü. Cerrahpaşa Tıp Fakültesi Deney Hayvanları Etik Kurulu, 2005

### Dissertations

Doctorate, Poliklorlu Bifeniller ve Vitamin E'nin TM3 Leydig Hücreleri Üzerine Etkileri, Istanbul University, Faculty of Science, Biyoloji, 2012

Postgraduate, *Mytilus Galloprovincialis* Lamarck, 1819'in Hepatopankreasındaki Fonksiyonel Hücrelerin Yapısı Üzerine Bir Araştırma , Istanbul University, Faculty of Science, Biyoloji, 2006

## Academic Titles / Tasks

Associate Professor  
2019 - Continues

Istanbul University, Faculty Of Science, Department Of Biology

Assistant Professor  
2018 - 2020

Istanbul University, Faculty of Science, Department of Biology

Research Assistant  
2009 - 2018

Istanbul University, Faculty of Science, Department of Biology

## Supported Projects

1. ORTA YILMAZ B., AYDIN Y., SARIALIOĞLU İ., ÇALMAZ E., ARMUT G., Project Supported by Higher Education Institutions, Perflorooktanoik asitin erkek üreme hücrelerinde ölüm yolları üzerine etkileri, 2024 - Continues
2. 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
3. Aydın Y., Kümbül Ö., Yılmaz Y., Project Supported by Higher Education Institutions, Nasetilsisteinin fare Leydig hücrelerinde sodyum florür kaynaklı sitotoksosite ve apoptoz üzerine koruyucu etkileri, 2023 - 2024
4. AYDIN Y., ÇALMAZ E., Project Supported by Higher Education Institutions, Akrilamidin Leydig hücrelerinde oluşturduğu toksisiteye luteolinin in vitro etkileri, 2023 - 2024
5. AYDIN Y., KESKİN B., Project Supported by Higher Education Institutions, Akrilamidin 3T3 embriyonik fibroblast hücrelerinde oluşturduğu genotoksisiteye luteolinin etkisi, 2022 - 2024
6. Orta Yılmaz B., Aydın Y., TUBITAK Project, 5-Hidroksimetilfurfuralın Erkek Üreme Toksikitesi Üzerine Etkisinin In Vivo Olarak İncelenmesi, 2022 - 2023
7. Aydın Y., TUBITAK Project, Furanın Sertoli Hücre Fonksiyonu Üzerine Etkilerinin Araştırılması, 2022 - 2023
8. Orta Yılmaz B., Aydın Y., Project Supported by Higher Education Institutions, 5-hidroksimetilfurfuralın erkek üreme toksikitesi üzerine etkisinin in vitro olarak incelenmesi, 2021 - 2023
9. Aydın Y., Çakır E., Project Supported by Higher Education Institutions, Klorpirifosun Sertoli Hücrelerinde hücre canlılığı ve genotoksosite üzerindeki etkilerinin incelenmesi, 2020 - 2021
10. AYDIN Y., Project Supported by Higher Education Institutions, Akrilamid ve metaboliti glisidamid Leydig ve Sertoli hücrelerinde antioksidan savunma sistemi ve steroidogenez üzerine etkileri, 2020 - 2020
11. ORTA YILMAZ B., AYDIN Y., ERKAN M. B., YILDIZBAYRAK N., Project Supported by Higher Education Institutions, Glisidamid ile uyarılmış embriyonik fibroblast hücrelerinde oluşan toksisiteye hesperidin ve vitamin C'nin etkisi, 2018 - 2020
12. AYDIN Y., DİKBASAN Y. Ü., Project Supported by Higher Education Institutions, Furanın Leydig hücrelerinde sitotoksosite oksidatif hasar ve apoptoz üzerindeki etkilerinin incelenmesi, 2018 - 2019
13. 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
14. 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
15. 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

16. KARA-ERTEKİN S., ŞEN E., AYDIN Y., Project Supported by Higher Education Institutions, The Effects Of Vitamin E On Genistein Induced Oxidative Damage On Tm3 Leydig Cells, 2017 - 2017
17. 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
18. AYDIN Y., ORTA YILMAZ B., Project Supported by Higher Education Institutions, Hamile sıçanlarda akrilamid, arsenik ve florürün erkek yavru steroidogenez profiline etkileri, 2013 - 2017
19. ERKAN M. B., AYDIN Y., Project Supported by Higher Education Institutions, Attenuating effect of vitamin e and genistein on polychlorinated biphenyl (aroclor 1242) induced oxidative damage and changes in steroidogenic enzymes in Leydig cells, 2015 - 2016
20. 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
21. ERKAN M. B., AYDIN Y., Project Supported by Higher Education Institutions, Morphological and histochemical examination of male and female gonads in Homarus gammarus (L. 1758), 2013 - 2016
22. AYDIN Y., Project Supported by Higher Education Institutions, EFFECT OF FLUORIDE ON LEYDIG CELL VIABILITY, CYTOTOXICITY AND OXIDATIVE DAMAGE IN VITRO, 2015 - 2015
23. AYDIN Y., Project Supported by Higher Education Institutions, Effects of Acrylamide and Glycidamide on Antioxidant Systems and Steroidogenic Enzymes on TM4 Sertoli Cell, 2014 - 2014
24. Aydın Y., İnceli M., Project Supported by Higher Education Institutions, Hibernasyon periyodunda kurbağa midesinde leptin reseptörünün saptanması, 2011 - 2012
25. Aydın Y., Erkan M. B., Project Supported by Higher Education Institutions, Poliklorlu bifeniller ve Vitamin E nin TM3 Leydig hücreleri üzerine etkileri, 2008 - 2012
26. Aydın Y., Erkan M. B., Project Supported by Higher Education Institutions, Mytilus galloprovincialis Lamarck 1819 in hepatopankreasındaki fonksiyonel hücreler üzerine bir araştırma , 2004 - 2006

## 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
2. AYDIN Y., Tübitak Bilimsel Yayın Teşvik Ödülü, Tübitak, October 2010
3. ERKAN M. B., OSKAY Ü., ASLAN E., AYDIN Y., Tübitak Bilimsel Yayın Teşvik Ödülü, Tübitak, May 2009

## Jury Memberships

Post Graduate, Post Graduate, İstanbul Üniversitesi, April, 2024  
Post Graduate, Post Graduate, İstanbul Üniversitesi, April, 2024  
Post Graduate, Post Graduate, İstanbul Üniversitesi, February, 2024  
Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, İstanbul Bilgi Üniversitesi, August, 2023  
Doctorate, Doctorate, Marmara Üniversitesi, July, 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  
Doctorate, Doctorate, İstanbul Üniversitesi, June, 2022  
Post Graduate, Post Graduate, İstanbul Üniversitesi, June, 2022  
Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi, January, 2021  
Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, İstanbul Yeni Yüzyıl Üniversitesi, December, 2019

## 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 Yilmaz B., Korkut A., Aydın Y.  
MOLECULAR BIOLOGY REPORTS, vol.51, pp.1047-1059, 2024 (SCI-Expanded)
- 2. New insights into the mechanisms underlying 5-hydroxymethylfurfural-induced suppression of testosterone biosynthesis in vivo and in vitro**  
Orta Yilmaz B., Aydın Y.  
TOXICOLOGY AND APPLIED PHARMACOLOGY, vol.493, pp.1-10, 2024 (SCI-Expanded)
- 3. N-acetylcysteine attenuates sodium arsenite-induced oxidative stress and apoptosis in embryonic fibroblast cells**  
Taşçi T., Orta Yilmaz B., Aydın Y., Çalışkan M.  
TOXICOLOGY RESEARCH, vol.13, no.4, 2024 (SCI-Expanded)
- 4. Assessment of the oxidative damage and apoptotic pathway related to furan cytotoxicity in cultured mouse Leydig cells**  
Aydın Y., Yilmaz B., Dikbasan Y. U., Orta-Yilmaz B.  
TOXICOLOGY RESEARCH, vol.12, no.3, pp.400-407, 2023 (SCI-Expanded)
- 5. 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)
- 6. 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)
- 7. Disruption of Leydig cell steroidogenic function by sodium arsenite and/or sodium fluoride**  
Orta Yilmaz B., Aydın Y.  
THERIOGENOLOGY, vol.193, no.193, pp.146-156, 2022 (SCI-Expanded)
- 8. Synergistic effects of arsenic and fluoride on oxidative stress and apoptotic pathway in Leydig and Sertoli cells**  
Aydın Y., Orta Yilmaz B.  
TOXICOLOGY, vol.475, pp.1-11, 2022 (SCI-Expanded)
- 9. Evaluation of citrinin-induced toxic effects on mouse Sertoli cells**  
Aydın 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)
- 10. Effects of Curcumin on Sodium Arsenite Induced Neoplastic Cell Transformation in Balb/c 3T3 Cells**  
Demircioglu B., Aydın Y., Orta-Yilmaz B., Yildizbayrak N., Erkan M.  
BRAZILIAN ARCHIVES OF BIOLOGY AND TECHNOLOGY, vol.64, pp.1-10, 2021 (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., Aydın Y., Erkan M.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.27, no.13, pp.15869-15877, 2020 (SCI-Expanded)
- 13. Comparison of endometrial prostanoid profiles in three infertile subgroups: the missing part of receptivity?**  
Demiral Keleş I., Ülgen E., Erkan M. B., Çelik S. E., Aydın Y., Önem A. N., Kandemir H., Arslanoğlu T., Apak M. R., Sezerman U., et al.  
FERTILITY AND STERILITY, vol.113, pp.670-679, 2020 (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. **Acrylamide and its metabolite glycidamide can affect antioxidant defenses and steroidogenesis in Leydig and Sertoli cells**  
 Aydin Y.  
 TOXICOLOGICAL AND ENVIRONMENTAL CHEMISTRY, vol.100, no.2, pp.247-257, 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. **The toxic effects of polychlorinated biphenyl (Aroclor 1242) on Tm3 Leydig cells**  
 Aydin Y., Erkan M.  
 TOXICOLOGY AND INDUSTRIAL HEALTH, vol.33, pp.636-645, 2017 (SCI-Expanded)
  18. **Macroscopic and Microscopic Examination of Seasonal Gonad Change in *Alburnus istanbulensis* (Battalgil, 1941) (Teleostei: Cyprinidae)**  
 Hamzaoglu E., Ozulug M., Tunali Y., Erkan M.  
 TURKISH JOURNAL OF FISHERIES AND AQUATIC SCIENCES, vol.15, no.3, 2015 (SCI-Expanded)
  19. **Testicular development of male mice offsprings exposed to acrylamide and alcohol during the gestation and lactation period**  
 Sen E., Tunali Y., Erkan M.  
 HUMAN & EXPERIMENTAL TOXICOLOGY, vol.34, pp.401-414, 2015 (SCI-Expanded)
  20. **Morphological and histochemical examination of male and female gonads in *Homarus gammarus* (L. 1758)**  
 Erkan M. B., Ayun Y.  
 CENTRAL EUROPEAN JOURNAL OF BIOLOGY, vol.9, no.1, pp.37-48, 2014 (SCI-Expanded)
  21. **Histology of the androgenic gland in *Eriphia verrucosa* (Forsk., 1775) (Decapoda, Brachyura)**  
 Erkan M. B., Tunali Y., Ekinci S., Kara S.  
 TURKISH JOURNAL OF ZOOLOGY, vol.34, no.1, pp.79-84, 2010 (SCI-Expanded)
  22. **MORPHOLOGY OF TESTIS AND VAS DEFERENS IN THE XANTHOID CRAB, *ERIPHIA VERRUCOSA* (FORSKAL, 1775) (DECAPODA: BRACHYURA)**  
 Erkan M. B., Tunali Y., Balkis H., Oliveria E.  
 JOURNAL OF CRUSTACEAN BIOLOGY, vol.29, no.4, pp.458-465, 2009 (SCI-Expanded)
  23. **MALE REPRODUCTIVE SYSTEM MORPHOLOGY AND SPERMATOPHORE FORMATION IN *ASTACUS LEPTODACTYLUS* (ESCHSCHOLTZ, 1823) (DECAPODA: ASTACIDAE)**  
 Erkan M. B., Tunali Y., Sancar-Bas S.  
 JOURNAL OF CRUSTACEAN BIOLOGY, vol.29, no.1, pp.42-50, 2009 (SCI-Expanded)
  24. **Seasonal variations in the ovary and testis of *Eriphia verrucosa* (Forsk., 1775) (Crustacea : Decapoda) from Karaburun, SW Black Sea (SC)**  
 Erkan M. B., Balkis H., Kurun A., Tunali Y.  
 PAKISTAN JOURNAL OF ZOOLOGY, vol.40, pp.217-221, 2008 (SCI-Expanded)
  25. **A structural study of functional cells in hepatopancreas of *Mytilus galloprovincialis* Lamarck, 1819**  
 Tunali Y., Erkan M. B.  
 PAKISTAN JOURNAL OF ZOOLOGY, vol.40, no.2, pp.109-114, 2008 (SCI-Expanded)

#### Articles Published in Other Journals

1. **Vitamin E and genistein generate a cytoprotective effect on polychlorinated biphenyl- induced oxidative stress in testicular Leydig cells**  
 Aydin Y., Orta Yilmaz B., Erkan M.  
 TRAKYA UNIVERSITY JOURNAL OF NATURAL SCIENCES, vol.25, no.1, pp.1-10, 2024 (ESCI)

2. **Exposure to Sodium Fluoride via Drinking Water Cause Cytotoxicity and Oxidative Damage in Leydig Cells**  
Aydın Y.  
TRAKYA UNIVERSITY JOURNAL OF NATURAL SCIENCES, vol.18, pp.115-122, 2017 (Peer-Reviewed Journal)

## Books & Book Chapters

1. **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
2. **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
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., 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., 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
8. **Antiaging Strategies Based on Telomerase Activity**  
AYDIN Y.  
in: Molecular Basis and Emerging Strategies for Anti-aging Interventions, Rizvi S.I., Çakatay U. , Editor, Springer, London/Berlin , Singapur, pp.97-109, 2018
9. **Erkek Üreme Sistemi**  
TUNALI Y.  
in: BRS Embriyoloji, İREZ T., ERKAN M., Editor, İstanbul Tıp Kitabevi, İstanbul, pp.180-191, 2016
10. **Plazma Membranı**  
TUNALI Y.  
in: Hücre Biyolojisi ve Histoloji, Hürdağ C., Editor, İstanbul Tıp Kitabevi, İstanbul, pp.1-14, 2016
11. **The effects of Vitamin E on Genistein-Induced Oxidative Damage on TM3 Leydig cells**  
Kara-Ertekin S., Tunali Y., Erkan M. B.  
in: Perspectives in Animal Ecology and Reproduction, Gupta V.K., Verma A.K., Singh G.D., Editor, Daya Publishing House, New Delhi, pp.301-314, 2015
12. **Protective role of Vitamin E on Polychlorinated Biphenyl (Aroclor 1260) induced oxidative damage**

**and changes in steroidogenic enzymes in TM3 Leydig cell line**

Tunalı Ayun Y., Erkan M.

in: Perspectives In Animal Ecology And Reproduction Vol.9, Gupta V. K., Verma A. K., Singh G. D., Editor, Daya Publishing House, New Delhi, pp.490-509, 2013

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

Tunalı Ayun Y., Orta B., Erkan M.

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

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

15. **Kısım I Sorular Gelişim Biyolojisine Giriş**

TUNALI AYUN Y.

in: Gelişim Biyolojisi, Erkan M. Tülay İ., Editor, Nobel Tıp Kitapevleri, İstanbul, pp.1-4, 2013

16. **Bölüm 2 Gelişim Genetiği**

TUNALI AYUN Y.

in: Gelişim Biyolojisi, Erkan M. Tülay İ., Editor, Nobel Tıp Kitapevleri, İstanbul, pp.31-68, 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. **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

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. **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

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. **Examining the impact of furan on Sertoli cell function**  
Dikbasan Y. Ü., Aydın Y.  
4th International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2022), Ankara, Turkey, 14 - 16 December 2022, pp.47
9. **ZINC AND VITAMIN C CAN PREVENT OXIDATIVE STRESS INDUCED BY LEAD NITRATE IN MOUSE LEYDIG CELLS**  
Saralioğlu İ., Keserci Y., Aydın Y., Orta Yılmaz B.  
IV. International Agricultural, Biological & Life Science Conference, Edirne, Turkey, 29 - 31 August 2022, pp.191-201
10. **EFFECTS OF VITAMIN C AND ZINC ON FURAN INDUCED TOXICITY IN TM4 SERTOLI CELLS**  
Dumanoglu Z., Orta Yılmaz B., Aydın Y.  
IV. International Agricultural, Biological & Life Science Conference, Edirne, Turkey, 29 - 31 August 2022, pp.253-263
11. **Chlorpyripos induces cytotoxicity and genotoxicity in Sertoli cells**  
Aydın Y., Çakır E.  
III. International Agricultural, Biological & Life Science Conference, Edirne, Turkey, 1 - 03 September 2021, pp.201
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. **Furan induces cytotoxicity, oxidative stress and apoptosis in Leydig cells**  
Dikbasan Y. Ü., AYDIN Y.  
International Biodiversity & Ecology Sciences Symposium, İstanbul, Turkey, 26 - 28 September 2019, pp.184
14. **Lipidomic analysis reveals increased TXA2 presence in non-receptive endometrium of recurrent miscarriage and repeated implantation failure patients**  
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34th Annual Meeting of the European-Society-of-Human-Reproduction-and-Embryology (ESHRE), Barcelona, Spain, 1 - 04 June 2018, vol.33, pp.337-338
15. **Ameliorative effects of vitamin C on cellular oxidative damage and apoptosis induced by glycidamide in Sertoli cells**  
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International Congress on Engineering and Life Sciences, Kastamonu, Turkey, 26 - 29 April 2018, vol.1, no.1, pp.1
16. **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
17. **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
18. **Whole-Genome Characterization and Composition of European Anchovy (*Engraulis Encrasicolus L., 1758*)**  
ELDEM V., Yüksel B., ERKAN M. B., Zararsız G., DİKMEN F., Saraç A., AYDIN Y., Taşçı T., Gücü A. C.  
FABA 2016: International Symposium on Fisheries and Aquatic Sciences, Antalya, Turkey, 3 - 05 November 2016,



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19. **Hamsi balığı (Engraulis Encrasicolus)'nın yumurta gelişiminde rol oynayan genlerin karşılaştırmalı transkriptomik yaklaşım ile belirlenmesi**  
ELDEM V., AYDIN Y., Yüksel B., ERKAN M. B.  
II. Ulusal Su Ürünleri Yetiştiriciliğinde Gamet Biyolojisi Çalıştayı, Muğla, Turkey, 19 - 21 April 2016, pp.1
20. **Attenuating effect of Vitamin E and genistein on polychlorinated biphenyl (araclor 1242) induced oksidatıve damage and changes in steroidogenic enzymes in Leydig cells**  
ERKAN M. B., AYDIN Y.  
9th Congress of the Turkish Society of Toxicology with Participation of the Hellenic Society of the Toxicology, İzmir, Turkey, 21 - 24 October 2015, pp.23
21. **Effect of fluoride on Leydig cell viability, cytotoxicity and oxidative damage in vitro**  
Tunali Y.  
51st Congress of the European-Societies-of-Toxicology (EUROTOX), Porto, Portugal, 13 - 16 September 2015, vol.238
22. **Acrylamide and Its Metabolite Glycidamide can Effect Antioxidant System and Steroidogenesis in Leydig Cell in vitro**  
TUNALI Y., ERKAN M. B.  
9th World Congress on Alternatives and Animal Use in the Life Sciences, Prag, Czech Republic, 24 - 28 August 2014, pp.136
23. **Effects of Acrylamide and Glycidamide on Antioxidant Systems and Steroidogenic Enzymes on TM4 Sertoli Cell**  
TUNALI Y.  
9th World Congress on Alternatives and Animal Use in the Life Sciences, Prag, Czech Republic, 24 - 28 August 2014, pp.136
24. **Morphological And Histochemical Examination Of Gonads In Homarus Gammarus (L. 1758) (Decapoda, Homaridae)**  
ERKAN M., TUNALI AYUN Y.  
The Crustacean Society Summer Meeting and 10th Colloquium Crustacea Decapoda Mediterranea in June 2012, in Athens-GREECE, Greece, 1 - 04 June 2012, pp.185
25. **The male reproductive system in Nephrops norvegicus (Decapoda, Nephropoidae)**  
TUNALI AYUN Y.  
The Crustacean Society Summer Meeting and 10th Colloquium Crustacea Decapoda Mediterranea in June 2012, in Athens-GREECE, Greece, 1 - 04 June 2012, pp.188

## Academic and Administrative Experience

2023 - Continues	<b>Bölüm Müfredat Komisyonu Üyesi</b>	Istanbul University, Faculty Of Science, Department Of Biology
2021 - Continues	<b>Bölüm Akademik Teşvik Değerlendirme Komisyonu Üyesi</b>	Istanbul University, Faculty Of Science, Department of Biology
2017 - 2022	<b>Ders Komisyonu Üyesi</b>	Istanbul University, Faculty Of Science, Department of Biology

## Courses

KARŞILAŞTIRMALI OMURGALI ANATOMİSİ, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021  
KARŞILAŞTIRMALI OMURGALI ANATOMİSİ, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021

HÜCRE VE MOLEKÜLER BİYOLOJİ ARAŞTIRMALARI II, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020  
HAYVANLARDA GELİŞİMİN MOLEKÜLER ORGANİZASYONU, Doctorate, 2023 - 2024  
HÜCRE FARKLILAŞMASI, Postgraduate, 2023 - 2024, 2021 - 2022, 2020 - 2021, 2019 - 2020  
MODEL SİSTEMLER, Postgraduate, 2023 - 2024, 2021 - 2022, 2020 - 2021  
BENEFICIAL ORGANISMS, Undergraduate, 2023 - 2024  
GELİŞİM BİYOLOJİSİ, Undergraduate, 2023 - 2024, 2021 - 2022, 2020 - 2021  
HÜCRE VE MOLEKÜLER BİYOLOJİ ARAŞTIRMALARI I, Undergraduate, 2023 - 2024, 2021 - 2022, 2019 - 2020, 2018 - 2019  
METAMORPHOSIS, REGENERATION AND AGING, Undergraduate, 2023 - 2024, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019  
HÜCRE İSKELETİ YAPI VE FONKSİYONU, Postgraduate, 2020 - 2021, 2019 - 2020  
İNSAN EMBRİYOLOJİSİNE GİRİŞ, Undergraduate, 2020 - 2021, 2019 - 2020  
MOLEKÜLER GENETİK, Undergraduate, 2020 - 2021, 2019 - 2020  
GELİŞİM BİYOLOJİSİNDE SEÇME KONULAR, Undergraduate, 2020 - 2021, 2019 - 2020  
GAMETOGENEZ, Postgraduate, 2020 - 2021  
GENETİK TOKSİKOLOJİ ARAŞTIRMA YÖNTEMLERİ, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019  
EMBRİYOLOJİ, Undergraduate, 2019 - 2020

### Advising Theses

Aydın Y., Akrilamidin Leydig hücrelerinde oluşturduğu toksisiteye luteolinin in vitro etkileri, Postgraduate, E.ÇALMAZ(Student), 2024  
Aydın Y., Akrilamidin 3T3 embriyonik fibroblast hücrelerinde oluşturduğu genotoksisiteye luteolinin etkisi, Postgraduate, B.KESKİN(Student), 2024  
Aydın Y., 3T3 embriyonik fibroblast hücrelerinde akrilamidin oluşturduğu oksidatif hasara luteolinin etkileri, Postgraduate, E.ÇAKIR(Student), 2024  
Aydın Y., Leydig Hücrelerinde Arseniğin Neden Olduğu Oksidatif Hasar Üzerine N-asetilsisteinin Etkisi, Postgraduate, C.ACI(Student), 2023  
Aydın Y., Furanın Sertoli Hücre Fonksiyonu Üzerine Etkilerinin Araştırılması, Postgraduate, Y.Ülkü(Student), 2023  
Aydın Y., Furanın TM4 Sertoli Hücrelerinde Oluşturduğu Toksisiteye Vitamin C ve Çinkonun Etkisi, Postgraduate, Z.DUMANOĞLU(Student), 2022

### Contractual Researches

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

### Memberships / Tasks in Scientific Organizations

Türk Toksikoloji Derneği, Member, 2017 - Continues  
The Crustacean Society, Member, 2008 - 2014  
International Society for the Study of Xenobiotics, Member, 2010 - 2011

### Scientific Refereeing

TOXICOLOGY MECHANISMS AND METHODS, SCI Journal, April 2021  
TOXICOLOGY AND APPLIED PHARMACOLOGY, SCI Journal, March 2021

Ethiopian Journal of Health Sciences, Journal Indexed in ESCI, October 2020  
TOXICOLOGY MECHANISMS AND METHODS, SCI Journal, September 2020  
HUMAN & EXPERIMENTAL TOXICOLOGY, SCI Journal, July 2020  
Fertility and Sterility, SCI Journal, October 2019  
Journal of Sexual Medicine, SCI Journal, June 2017  
Human&Experimental Toxicology, SCI Journal, April 2017  
Human&Experimental Toxicology, SCI Journal, September 2016  
Human&Experimental Toxicology, SCI Journal, March 2016  
Behavioral and Brain Functions, SCI Journal, January 2016  
Human&Experimental Toxicology, SCI Journal, January 2016  
Desalination and Water Treatment, SCI Journal, June 2015  
Cell Biology International, SCI Journal, September 2014  
Turkish journal of Biology, SCI Journal, July 2014  
Cell Biology International, SCI Journal, April 2014  
Cell Biology International, SCI Journal, February 2014

## Metrics

Publication: 68  
Citation (WoS): 208  
Citation (Scopus): 234  
H-Index (WoS): 9  
H-Index (Scopus): 9

## Congress and Symposium Activities

International Congress on Engineering and Life Sciences, Attendee, Kastamonu, Turkey, 2018  
FABA 2016: International Symposium on Fisheries and Aquatic Sciences, Attendee, Antalya, Turkey, 2016  
II. Ulusal Su Ürünleri Yetiştiriciliğinde Gamet Biyolojisi Çalıştayı, Attendee, Muğla, Turkey, 2016  
9th Congress of the Turkish Society of Toxicology with the participation of the Hellenic Society of Toxicology, Attendee, İzmir, Turkey, 2015  
51st Congress of European Societies of Toxicology Bridging Science For Safety, Attendee, Porto, Portugal, 2015  
9th World Congress on Alternatives and Animal Use in the Life Sciences, Attendee, Prag, Czech Republic, 2014  
The Crustacean Society Summer Meeting and 10th Colloquium Crustacea Decapoda Mediterranea in June 2012, in Athens-GREECE, Attendee, Atina, Greece, 2012

## Research Areas

Life Sciences, Biochemistry, Biochemical Toxicology, Animal Biology, Animal Tissue Culture, Animal Cytology and Histology, Animal Development and Maturation, Animal Reproduction, Molecular Biology and Genetics, Animal Molecular Genetics, Natural Sciences