

## Assoc. Prof. FATMA AYDINOĞLU

### Personal Information

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### International Researcher IDs

ORCID: 0000-0003-3691-208X

Yoksis Researcher ID: 54740

### Education Information

Doctorate, Cukurova University, Tıp Fakültesi/ Sağlık Bilimleri Enstitüsü/ Farmakoloji, Dahili Tıp Bilimleri/ Farmakoloji Anabilim Dalı, Turkey 2007 - 2013

Postgraduate, Cukurova University, Tıp Fakültesi/ Sağlık Bilimleri Enstitüsü/ Farmakoloji, Dahili Tıp Bilimleri/ Farmakoloji Anabilim Dalı, Turkey 2004 - 2007

### Foreign Languages

English, B2 Upper Intermediate

### Certificates, Courses and Trainings

Health&Medicine, Türk Farmakoloji Derneği, XXII. Eğitim Toplantısı İnflamasyon ve Ağrı, Türk Farmakoloji Derneği, 2015

Other, Bir TÜBİTAK Projesi nasıl Hazırlanır ve Yazılır, TÜBİTAK, 2014

Health&Medicine, Klinik Araştırmalar ve Klinik Araştırma Başvuru Dosyalarının Etik Kurullarca Değerlendirilmesi, Türk Farmakoloji Derneği Klinik Farmakoloji Çalışma Grubu, 2014

Health&Medicine, 3. Nano Teknoloji Temelli Real-Time PCR Teknikleri Uygulamalı Kursu, Mersin Üniversitesi, 2013

Health&Medicine, İleri Moleküler Hücre Biyolojisi Teknikleri, TÜBİTAK, 2011

Education Management and Planning, Bilimsel Grafik Çizim ve Grafiklerin Sunuma Hazırlama, Ç.Ü. Tıp Fakültesi, 2006

### Dissertations

Doctorate, "Fare Korpus Kavernozum Düz Kasında Hidrojen Sülfid'in Gevşetici Etki Mekanizmasının Araştırılması", Cukurova University, Sağlık Bilimleri Enstitüsü, Farmakoloji Anabilim Dalı, 2013

Postgraduate, Alkol bağımlı farelerden izole edilen korpus kavernozum düz kasında nitrerjik gevşemelerin araştırılması, Cukurova University, Sağlık Bilimleri Enstitüsü, Farmakoloji Anabilim Dalı, 2007

### Research Areas

Medicine, Health Sciences, Internal Medicine Sciences, Pharmacology and Clinical Pharmacology, Medical Pharmacology and Toxicology, Pharmacology and Therapeutics, Professional Sciences, Pharmacology

## Academic Titles / Tasks

Associate Professor, Cukurova University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri, 2020 - Continues  
Assistant Professor, Cukurova University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 2018 - 2020  
Assistant Professor, Cukurova University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 2016 - 2018  
Lecturer PhD, Cukurova University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 2014 - 2016  
Research Assistant, Cukurova University, Tıp Fakültesi, Dahili Tıp Bilimleri/ Farmakoloji Anabilim Dalı, 2006 - 2013

## Academic and Administrative Experience

Head of Department, Cukurova University, 2020 - Continues  
Fakülte Kurulu Üyesi, Cukurova University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri, 2019 - Continues  
Fakülte Yönetim Kurulu Üyesi, Cukurova University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri, 2019 - Continues

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

- I. **The role of rhoA/rho-kinase and PKC in the inhibitory effect of L-cysteine/H<sub>2</sub>S pathway on the carbachol-mediated contraction of mouse bladder smooth muscle.**  
Dalkir F. T., Aydinoglu F., Ogulener N.  
Naunyn-Schmiedeberg's archives of pharmacology, 2023 (SCI-Expanded)
- II. **The role of l-cysteine/Hydrogen sulfide pathway on  $\beta_3$ -Adrenoceptor- induced relaxation in mouse gastric fundus.**  
Ozveren Adibelli E., Aydinoglu F., Ogulener N.  
Nitric oxide : biology and chemistry, vol.119, pp.19-28, 2021 (SCI-Expanded)
- III. **Involvement of RhoA/Rho-kinase in L-cysteine/H<sub>2</sub>S pathway-induced inhibition of agonist-mediated corpus cavernosal smooth muscle contraction**  
Aydinoglu F., ADIBELLI E., Yilmaz-Oral D., Ogulener N.  
NITRIC OXIDE-BIOLOGY AND CHEMISTRY, vol.85, pp.54-60, 2019 (SCI-Expanded)
- IV. **Involvement of RhoA/Rho-kinase in L-cysteine/H<sub>2</sub>S pathway-induced inhibition of agonist-mediated corpus cavernosal smooth muscle contraction**  
AYDINOĞLU F., Özveren Adibelli E., YILMAZ ORAL D., ÖĞÜLENER N.  
NITRIC OXIDE-BIOLOGY AND CHEMISTRY, vol.85, pp.54-60, 2019 (SCI-Expanded)
- V. **The Relaxant Mechanisms of Hydrogen Sulfide in Corpus Cavernosum**  
AYDINOĞLU F., ÖĞÜLENER N.  
VASCULAR EFFECTS OF HYDROGEN SULFIDE: METHODS AND PROTOCOLS, vol.2007, pp.137-150, 2019 (SCI-Expanded)
- VI. **The interaction of L-cysteine/H<sub>2</sub>S pathway and muscarinic acetylcholine receptors (mAChRs) in mouse corpus cavernosum**  
AYDINOĞLU F., Dalkir F. T., Demirbag H. O., ÖĞÜLENER N.  
NITRIC OXIDE-BIOLOGY AND CHEMISTRY, vol.70, pp.51-58, 2017 (SCI-Expanded)
- VII. **The role of arachidonic acid/cyclooxygenase cascade, phosphodiesterase IV and Rho-kinase in H<sub>2</sub>S-induced relaxation in the mouse corpus cavernosum.**  
Aydinoglu F., Ogulener N.  
Pharmacological reports : PR, vol.69, pp.610-615, 2017 (SCI-Expanded)
- VIII. **Characterization of relaxant mechanism of H<sub>2</sub>S in mouse corpus cavernosum**  
AYDINOĞLU F., ÖĞÜLENER N.  
CLINICAL AND EXPERIMENTAL PHARMACOLOGY AND PHYSIOLOGY, vol.43, no.4, pp.503-511, 2016 (SCI-Expanded)
- IX. **The effect of sub-chronic systemic ethanol treatment on corpus cavernosal smooth muscle**

### **contraction: the contribution of RhoA/Rho-kinase**

Kumcu E., AYDINOĞLU F., Astarci E., ÖĞÜLENER N.

NAUNYN-SCHMIEDEBERGS ARCHIVES OF PHARMACOLOGY, vol.389, no.3, pp.249-258, 2016 (SCI-Expanded)

- X. **Effects of ethanol on RhoA/Rho-kinase-mediated calcium sensitization in mouse lung parenchymal tissue**  
AYDINOĞLU F., KIROĞLU O. E., Astarci E., Balli E., ÖĞÜLENER N.  
EUROPEAN JOURNAL OF PHARMACOLOGY, vol.764, pp.318-327, 2015 (SCI-Expanded)
- XI. **Rosuvastatin prevents angiotensin II-induced vascular changes by inhibition of NAD(P)H oxidase and COX-1**  
Colucci R., Fornai M., Duranti E., Antonioli L., Rugani I., Aydinoglu F., Ippolito C., Segnani C., Bernardini N., Taddei S., et al.  
BRITISH JOURNAL OF PHARMACOLOGY, vol.169, no.3, pp.554-566, 2013 (SCI-Expanded)
- XII. **Comparative study of the quercetin, ascorbic acid, glutathione and superoxide dismutase for nitric oxide protecting effects in mouse gastric fundus**  
Ertug P. U., AYDINOĞLU F., Ozturk O. G., ŞİNGİRİK E., ÖĞÜLENER N.  
EUROPEAN JOURNAL OF PHARMACOLOGY, vol.698, pp.379-387, 2013 (SCI-Expanded)
- XIII. **Resistance artery mechanics and composition in angiotensin II-infused mice: effects of cyclooxygenase-1 inhibition**  
Viridis A., Colucci R., Neves M. F., Rugani I., Aydinoglu F., Fornai M., Ippolito C., Antonioli L., Duranti E., Solini A., et al.  
EUROPEAN HEART JOURNAL, vol.33, no.17, pp.2225-2234, 2012 (SCI-Expanded)
- XIV. **Effects of ethanol treatment on the neurogenic and endothelium-dependent relaxation of corpus cavernosum smooth muscle in the mouse**  
AYDINOĞLU F., Yilmaz S. N., Coskun B., DAĞLIOĞLU N., ÖĞÜLENER N.  
PHARMACOLOGICAL REPORTS, vol.60, no.5, pp.725-734, 2008 (SCI-Expanded)

## **Articles Published in Other Journals**

- I. **The possible contribution of NO and cyclooxygenase pathways to the effect of L-cysteine/H2S pathway on the contractile response of KCl in mouse gastric fundus**  
AYDINOĞLU F.  
CUKUROVA MEDICAL JOURNAL, vol.43, no.2, pp.276-285, 2018 (ESCI)
- II. **The effects of thiol modulators on nitrergic nerve- and S-nitrosothiols-induced relaxation in duodenum**  
Kiroğlu O., AYDINOĞLU F., ÖĞÜLENER N.  
Journal of Basic and Clinical Physiology and Pharmacology, vol.24, no.2, pp.143-150, 2013 (Scopus)

## **Books & Book Chapters**

- I. **The Relaxant Mechanisms of Hydrogen Sulfide in Corpus Cavernosum**  
AYDINOĞLU F., ÖĞÜLENER N.  
in: Vascular effect of HYDROGEN SULFIDE, Beltowski J., Editor, Humana Press, Inc., Newyork, pp.137-150, 2019
- II. **The Relaxant Mechanisms of Hydrogen Sulfide in Corpus Cavernosum.**  
AYDINOĞLU F., ÖĞÜLENER N.  
in: Methods in molecular biology, Jerzy Beltowsky, Editor, Totowa, NJ : Humana Press, New York, pp.137-150, 2019
- III. **Helmint infeksiyonlarının Kemoterapisi**  
ÖĞÜLENER N., AYDINOĞLU F.  
in: Goodman & Gilman'ın Farmakoloji ve Tedavi El Kitabı, Ş. Remzi Erdem, Müberra Devrim Güner, Editor, Güneş Tıp İstanbul Kitabevi, Ankara, pp.872-882, 2017

## Refereed Congress / Symposium Publications in Proceedings

- I. **The Effects of Cyclooxygenase Nitric Oxide Phosphodiesterase IV and Rho Kinase Inhibitors on Hydrogen Sulfide Induced Relaxant Response in Mouse Corpus Cavernosum**  
AYDINOĞLU F., ÖĞÜLENER N.  
European Journal of Pharmacology, 26 - 30 June 2016
- II. **The Interaction of L Cysteine Hydrogen Sulfide Pathway and Muscarinic Acetylcholine Receptors mAChRs in Mouse Corpus Cavernosum**  
DALKIR F. T., AYDINOĞLU F., ÖĞÜLENER N.  
7th European Pharmacology Congress, 26 - 30 June 2016
- III. **The Interaction of L cystein hydrogen sulfide pathway and M1 M2 and M3 muscarinic receptors in mice corpus cavernosum**  
DALKIR F. T., AYDINOĞLU F., ÖĞÜLENER N.  
7th Congress of European Pharmacology, 26 - 30 June 2016
- IV. **Fare korpus kavernosum dokusunda ekzojen hidrojen sülfürün gevşetici yanıtlarında atropin ve pirenzepinin olası etkisi**  
Dalkır F. T., AYDINOĞLU F., ÖĞÜLENER N.  
23. Ulusal Farmakoloji kongresi, Turkey, 7 - 10 September 2015
- V. **Fare korpus kavernozum dokusunda ekzojen hidrojen sülfür ün gevşetici yanıtlarında atropin ve pirenzepin in olası etkisi**  
Fatma Tuğçe D., AYDINOĞLU F., ÖĞÜLENER N.  
23. Ulusal Farmakoloji Kongresi, Adana, Turkey, 7 - 10 September 2015
- VI. **Fare korpus kavernozum düz kasında hidrojen sülfür ün gevşetici etkisinin araştırılması**  
AYDINOĞLU F., ÖĞÜLENER N.  
22. Ulusal Farmakoloji Kongresi, Antalya, Turkey, 4 - 07 November 2013, pp.21
- VII. **FARE KORPUS KAVERNOZUM DÜZ KASINDA HİDROJEN SÜLFÜR'ÜN GEVŞETİCİ ETKİ MEKANİZMASININ ARAŞTIRILMASI**  
AYDINOĞLU F., ÖĞÜLENER N.  
22. Ulusal Farmakoloji Kongresi, Antalya, Turkey, 4 - 07 November 2013, pp.105
- VIII. **. İzole fare akciğer dokusunda sub-akut etanol uygulamasının RhoA/Rho-kinaz yolağına etkisinin araştırılması.**  
ÖĞÜLENER N., AYDINOĞLU F.  
21. Ulusal Farmakoloji Kongresi, Eskişehir, Turkey, 19 - 22 October 2011, pp.287
- IX. **Resistance artery mechanics and composition in angiotensin II infused mice effects of cyclooxygenase 1 inhibition**  
Viridis A., Neves M. F., AYDINOĞLU F., daghini e., Duranti E., Rugani I., Rocchina C., Fornai M., Antonioli L., Blandizzi C., et al.  
20th Annual Meeting of the European Society of Hypertension, Oslo, Norway, 18 - 21 June 2010, vol.28, pp.118
- X. **The effects of ethanol-treatment on the neurogenic- and endothelium-dependent relaxation of corpus cavernosum smooth muscle in mouse**  
AYDINOĞLU F., Yılmaz S. N., Coskun B., DAĞLIOĞLU N., ÖĞÜLENER N.  
Fifth EPHAR Congress, Manchester, Manchester, United Kingdom, 13 - 17 July 2008, pp.81
- XI. **The effects of ethanol-treatment on the neurogenic- and endothelium-dependent relaxation of corpus cavernosum smooth muscle in mouse**  
AYDINOĞLU F., Yılmaz S. N., Coskun B., DAĞLIOĞLU N., ÖĞÜLENER N.  
Fifth EPHAR Congress, Manchester, Manchester, United Kingdom, 13 - 17 July 2008, pp.81
- XII. **Fare mide fundusunda nitrerjik gevşemeler üzerinde quercetin'in antioksidan etkisi**  
ÖĞÜLENER N., ERTUĞ F. P., AYDINOĞLU F., ŞİNGİRİK E.  
19. Ulusal Farmakoloji Kongresi, Trabzon, Turkey, 24 - 27 October 2007, pp.301
- XIII. **Fare korpus kavernozum düz kasında kronik etanol uygulamasının nitrerjik gevşemeler üzerine etkisi**

ÖĞÜLENER N., AYDINOĞLU F., Yılmaz S. N., Coskun B., DAĞLIOĞLU N.

19. Ulusal Farmakoloji Kongresi, Trabzon, Turkey, 24 - 27 October 2007, pp.309

XIV. **Antioxidant effect of quercetin on the nitregeric neurotansmitter in the mouse gastric fundus**

ÖĞÜLENER N., ERTUĞ F. P., AYDINOĞLU F., ŞİNGİRİK E.

XVth World Congress of Pharmacology 2006, Beijing, China, 02 July 2006 - 07 July 2007, pp.435

XV. **Antioxidant effect of quercetin on the nitregeric neurotansmitter in the mouse gastric fundus**

ÖĞÜLENER N., ERTUĞ F. P., AYDINOĞLU F., ŞİNGİRİK E.

XVth World Congress of Pharmacology 2006, Beijing, China, 02 July 2006 - 07 July 2007, pp.435

## Supported Projects

KESİKTAŞ E., ALPTEKİN Ö., SEYDAOĞLU G., POLAT S., AÇIKALIN A., DAĞLIOĞLU Y. K., AYDINOĞLU F., DÜLGAR A. G., Project Supported by Higher Education Institutions, Hidrojen Sülfürün Rat Cilt Fleplerinde İskemi-Reperfüzyon Hasarına Karşı Koruyucu etkisinin Araştırılması, 2018 - 2019

ÖĞÜLENER N., ALPTEKİN Ö., ÇIRAGİL P., AYDINOĞLU S., DEMİRCİ S., TARI Ö., BÜYÜKNACAR H. S., AYDINOĞLU F., Project Supported by Higher Education Institutions, ÇÜ ECZACILIK FAKÜLTESİ İKİNCİ SINIF ÖĞRENCİ LABORATUVARI ALT YAPI PROJESİ, 2017 - 2017

AYDINOĞLU F., KUMCU E., ÖĞÜLENER N., Project Supported by Higher Education Institutions, The effect of subchronic systemic ethanol treatment on corpus cavernosal smooth muscle contraction the contribution of RhoARhokinase, 2017 - 2017

AYDINOĞLU F., ÖĞÜLENER N., Project Supported by Higher Education Institutions, Characterization of relaxant mechanism of H<sub>2</sub> S in mouse corpus cavernosum, 2017 - 2017

ÖĞÜLENER N., AYDINOĞLU F., DALKIR F. T., ADIBELLİ E., Project Supported by Higher Education Institutions, Fare Korpus Kavernozum Dokusunda Hidrojen Sülfürün Fosfodiesteraz Enzimleri Üzerine Olası İnhibe Edici Etkisinin Araştırılması, 2016 - 2017

AYDINOĞLU F., ÖĞÜLENER N., ADIBELLİ E., DALKIR F. T., Project Supported by Higher Education Institutions, Fare Korpus Kavernozum Dokusunda LSisteinHidrojen Sülfür Yolağının İntraselüler Kalsiyum İle İlişkisi, 2016 - 2017

ÖĞÜLENER N., DALKIR F. T., AYDINOĞLU F., Project Supported by Higher Education Institutions, Fare korpus kavernozum düz kasında L-sistein/hidrojen sülfür yolağı ile muskarinik reseptörlerin ilişkisi, 2015 - 2017

ÖĞÜLENER N., KIROĞLU O., AYDINOĞLU F., Project Supported by Higher Education Institutions, Effects of ethanol on RhoARhokinase-mediated calcium sensitization in mouse lung parenchymal tissue, 2016 - 2016

ÖĞÜLENER N., AYGÜL A., BÜYÜKNACAR H. S., AYDINOĞLU S., ALPTEKİN Ö., AYDINOĞLU F., DEMİRCİ S., KUMCU E., ÇIRAGİL P., TARI Ö., Project Supported by Higher Education Institutions, Ç.Ü. ECZACILIK FAKÜLTESİ BİRİNCİ SINIF ÖĞRENCİ LABORATUVARI ALT YAPI PROJESİ, 2016 - 2016

AYDINOĞLU F., ÖĞÜLENER N., Project Supported by Higher Education Institutions, The Effects of Cyclooxygenase Nitric Oxide Phosphodiesterase IV and RhoKinase Inhibitors on Hydrogen SulfideInduced Relaxant Response in Mouse Corpus Cavernosum, 2016 - 2016

ÖĞÜLENER N., AYDINOĞLU F., DALKIR F. T., Project Supported by Higher Education Institutions, The Interaction of LCysteineHydrogen Sulfide Pathway and Muscarinic Acetylcholine Receptors mAChRs in Mouse Corpus Cavernosum, 2016 - 2016

## Memberships / Tasks in Scientific Organizations

Türk Farmakoloji Derneği, Member, 2007 - Continues

## Scientific Refereeing

The 6th International Conference on Biomedical Engineering and Biotechnology , Other journals, May 2017

6th International Conference on Biomedical Engineering and Biotechnology, Other journals, May 2017  
Project Supported by Higher Education Institutions, October 2016  
Archives Medical Review Journal, National Scientific Refreed Journal, April 2016  
Archives Medical Review Journal, National Scientific Refreed Journal, February 2016  
international journal of radiation biology, SCI Journal, November 2015

## **Metrics**

Publication: 40  
Citation (WoS): 112  
Citation (Scopus): 118  
H-Index (WoS): 7  
H-Index (Scopus): 7

## **Congress and Symposium Activities**

3. Uluslararası İlaç ve Eczacılık Kongresi, Attendee, İstanbul, Turkey, 2017
- 7th EPHAR, Attendee, İstanbul, Turkey, 2016
- 4th Conference of Hydrogen Sulfide Biology, Attendee, Napoli, Italy, 2016
23. Ulusal Farmakoloji Kongresi,, Attendee, Ankara, Turkey, 2015
- 3rd European Meeting on the Biology of Hydrogen Sulfide, Attendee, Athína, Greece, 2015
22. Ulusal Farmakoloji Kongresi, Attendee, Antalya, Turkey, 2013
20. Ulusal Farmakoloji Kongresi, Attendee, Eskişehir, Turkey, 2011
- 5th European Pharmacology Societies Congress, Attendee, Manchester, United Kingdom, 2008
19. Ulusal Farmakoloji Kongresi, Attendee, Trabzon, Turkey, 2007