

Assoc. Prof. AYSUN ÖZDEMİR

Personal Information

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Education Information

Doctorate, Gazi University, Sağlık Bilimleri Enstitüsü, Farmakoloji (Dr), Turkey 2008 - 2014

Post Graduate, Gazi University, Sağlık Bilimleri Enstitüsü, Farmakoloji (YI) (Tezli), Turkey 2006 - 2008

Under Graduate, Gazi University, Eczacılık Fakültesi, Eczacılık Pr. (4 Yıllık), Turkey 2002 - 2006

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Kardiyak glikozit aracılıklı sitotoksiste ile rho/rho kinaz yolağının olası bağlantısının kanser hücre dizilerinde incelenmesi, Gazi University, Sağlık Bilimleri Enstitüsü, Farmakoloji (Dr), 2014

Post Graduate, İnsan umbilikal ven endotel hücrelerinde uvabain ile indüklenen aponekrotik ölümlerde Rho Kinazın olası rolünün incelenmesi, Gazi University, Sağlık Bilimleri Enstitüsü, Farmakoloji (YI) (Tezli), 2008

Research Areas

Health Sciences, Pharmacology and Therapeutics

Academic Titles / Tasks

Associate Professor, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 2019 - Continues

Research Assistant, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 2007 - 2019

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **The implication of ROCK 2 as a potential senotherapeutic target via the suppression of the harmful effects of the SASP: Do senescent cancer cells really engulf the other cells?**
Demir Y. D. , Özdemir A., Sicularli C., Benhür E., Ark M.
Cellular Signalling, vol.84, 2021 (Journal Indexed in SCI Expanded)
- II. **Antimigratory effect of pyrazole derivatives through the induction of STAT1 phosphorylation in A549 cancer cells.**
Şimay Demir Y. D. , Özdemir A., Özdemir R. G. , Cevher S. C. , Çalışkan B., Ark M.
The Journal of pharmacy and pharmacology, vol.73, pp.808-815, 2021 (Journal Indexed in SCI Expanded)
- III. **A novel proteolytic cleavage of ROCK 1 in cell death: Not only by caspases 3 and 7 but also by**

caspase 2

Özdemir A., İbişoğlu B., Şimay Demir Y. D. , Benhür E., Valipour F., Ark M.

BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, vol.547, pp.118-124, 2021 (Journal Indexed in SCI)

- IV. **A novel ROCK inhibitor: off-target effects of metformin**
ÖZDEMİR A., ARK M.
TURKISH JOURNAL OF BIOLOGY, vol.45, no.1, pp.35-45, 2021 (Journal Indexed in SCI)
- V. **Evaluation of Cytotoxic Activity of New Benzimidazole-Piperazine Hybrids Against Human MCF-7 and A549 Cancer Cells**
ÖZDEMİR A., Thranli S., ÇALIŞKAN B., Arka M., BANOĞLU E.
Pharmaceutical Chemistry Journal, vol.53, no.11, pp.1036-1046, 2020 (Journal Indexed in SCI Expanded)
- VI. **The connection between the cardiac glycoside-induced senescent cell morphology and Rho/Rho kinase pathway**
Simay Y. D. , ÖZDEMİR A., Ibisoglu B., ARK M.
CYTOSKELETON, vol.75, no.11, pp.461-471, 2018 (Journal Indexed in SCI)
- VII. **Gemcitabine hydrochloride-loaded liposomes and nanoparticles: comparison of encapsulation efficiency, drug release, particle size, and cytotoxicity**
YALÇIN T. E. , İLBASMIŞ TAMER S., Ibisoglu B., ÖZDEMİR A., ARK M., TAKKA S.
PHARMACEUTICAL DEVELOPMENT AND TECHNOLOGY, vol.23, no.1, pp.76-86, 2018 (Journal Indexed in SCI)
- VIII. **Promising anticancer activity of Cyclotrichium niveum L. extracts through induction of both apoptosis and necrosis**
ÖZDEMİR A., Yıldız M., ŞENOL DENİZ F. S. , Simay Y. D. , Iboglu B., GÖKBULUT A., ERDOĞAN ORHAN İ., ARK M.
FOOD AND CHEMICAL TOXICOLOGY, vol.109, pp.898-909, 2017 (Journal Indexed in SCI)
- IX. **Cardiac glycoside-induced cell death and Rho/Rho kinase pathway: Implication of different regulation in cancer cell lines**
ÖZDEMİR A., Simay Y. D. , Ibisoglu B., Yaren B., Bulbul D., ARK M.
STEROIDS, vol.109, pp.29-43, 2016 (Journal Indexed in SCI)
- X. **Identification of the T-complex protein as a binding partner for newly synthesized cytoplasmic dynein intermediate chain 2**
Ozdemir A., Machida K., Imataka H., Catling A. D.
BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, vol.469, no.1, pp.126-131, 2016 (Journal Indexed in SCI)
- XI. **Chronic ouabain treatment induces Rho kinase activation**
ÖZDEMİR A., Sahan G., Demirtas A., Aypar E., Gozubuyuk G., Turan N. N. , ARK M.
ARCHIVES OF PHARMACAL RESEARCH, vol.38, no.10, pp.1897-1905, 2015 (Journal Indexed in SCI)
- XII. **Ouabain induces Rho-dependent rock activation and membrane blebbing in cultured endothelial cells**
Ozdemir A., Ibisoglu B., Simay Y. D. , Polat B., Ark M.
MOLECULAR BIOLOGY, vol.49, no.1, pp.138-143, 2015 (Journal Indexed in SCI)
- XIII. **Epidermal Growth Factor Stimulates Extracellular-Signal Regulated Kinase Phosphorylation of a Novel Site on Cytoplasmic Dynein Intermediate Chain 2**
Pullikuth A. K. , Ozdemir A., Cardenas D., Bailey E., Sherman N. E. , Pfister K. K. , Catling A. D.
INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, vol.14, no.2, pp.3595-3620, 2013 (Journal Indexed in SCI)
- XIV. **Ouabain-induced apoptosis and Rho kinase: a novel caspase-2 cleavage site and fragment of Rock-2**
ARK M., ÖZDEMİR A., Polat B.
APOPTOSIS, vol.15, no.12, pp.1494-1506, 2010 (Journal Indexed in SCI)
- XV. **Ouabain-induced hypertension and rho kinase**
ÖZDEMİR A., Aypar E., Pahan G., Gozubuyuk G., Demirtap A., Turan N. N. , ARK M.
FASEB JOURNAL, vol.22, 2008 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Synthesis of novel potential ROCK inhibitors and their antimigratory effects**
TURANLI S., Uslu A. G. , ÖZDEMİR A.
Organic Communications, vol.13, no.4, pp.165-174, 2020 (Journal Indexed in ESCI)
- II. **xCELLigence Real Time Cell Analysis System A New Method for Cell Proliferation and Cytotoxicity**
ÖZDEMİR A., ARK M.
Niche Journal, vol.2, no.2, pp.15-17, 2014 (Refereed Journals of Other Institutions)
- III. **Uvabain Aracılıklı Apoptotik Hücre Ölümleri ve Rho Kinaz Bir Proteomik Çalışma**
BAYRAM E., ÖZDEMİR A., CİHAN A., ÖZEL DEMİRALP F. D. , POLAT B., ARK M.
Mersin Üniversitesi Sağlık Bilimleri Dergisi, 2010 (Other Refereed National Journals)
- IV. **Rho Kinaz ve Apoptoz**
ÖZDEMİR A., ARK M.
Mersin Üniversitesi Sağlık Bilimleri Dergisi, 2009 (Other Refereed National Journals)

Books & Book Chapters

- I. **Hücre Kültürü ve Temel Moleküler Biyoloji Protokolleri**
ARK M., ÖZDEMİR A., şimay y. d. , İBİŞOĞLU B.
Ankara Nobel Tıp Kitabevi, 2017
- II. **Hücre Kültürü ve Temel Moleküler Biyoloji Protokolleri**
ARK M., ÖZDEMİR A., ŞİMAY Y. D. , İbişoğlu B.
Ankara Nobel Tıp Kitabevleri, Ankara, 2017

Refereed Congress / Symposium Publications in Proceedings

- I. **Antimigratory Effect of a Newly Synthesized Pyrazole Derivative Compound in A549 Cancer Cells**
ÖZDEMİR A., Gönbe Özdemir R., ŞİMAY DEMİR Y. D. , Cevher S. C. , Şahinoğlu E., ÇALIŞKAN B., ARK M.
DGZ International Meeting, 17 - 19 September 2018, vol.44
- II. **Antimigratory Effect of a Newly Synthesized Pyrazole Derivative Compound in A549 Cancer Cells**
ÖZDEMİR A., özdemir r., Şimay y., cevher s., şahinoğlu e., ÇALIŞKAN B., ARK M.
DGZ International Meeting, 17 - 19 September 2018
- III. **Possible involvement of Rho Kinase on the secretory activity of drug-induced senescent cell**
ŞİMAY DEMİR Y. D. , ÖZDEMİR A., ARK M.
Cold Spring Harbor Meetings, 15 - 19 August 2017
- IV. **Possible involvement of Rho kinase on the secretory activity of drug-induced senescent cells**
simay y. d. , ÖZDEMİR A., ARK M.
Cell Death CSHL 2017, 15 - 19 August 2017
- V. **Holographic view of the senescent cells: Imagine all the senescent cells are not flattened**
Simay Y. D. , ÖZDEMİR A., İbisoglu B., ARK M.
Experimental Biology Meeting, Illinois, United States Of America, 22 - 26 April 2017, vol.31
- VI. **Anticancer activity of novel benzimidazole derivatives against MCF-7 cancer cells**
ÖZDEMİR A., Uzunoglu S., ÇALIŞKAN B., BANOĞLU E., ARK M.
Experimental Biology Meeting, Illinois, United States Of America, 22 - 26 April 2017, vol.31
- VII. **A Possible Novel Mechanism in the Formation of Senescent Cell Morphology Caveolar Depletion**
DİLBER ŞİMAY Y., ÖZDEMİR A., İBİŞOĞLU B., ARK M.
12th International Congress of Cell Biology, 21 - 25 July 2016
- VIII. **A Possible Novel Mechanism in the Formation of Senescent Cell Morphology Caveolar Depletion and Rho Kinases**

Dilber Şimay y., ÖZDEMİR A., İBİŞOĞLU B., ARK M.

12th International Congress of Cell Biology, 21 - 25 July 2016

- IX. **A possible novel mechanism in the formation of senescent cell morphology: caveolar depletion and rho kinases**
ŞİMAY DEMİR Y. D. , ÖZDEMİR A., İbişoğlu B., ARK M.
12th International Congress of Cell Biology, 21 - 25 July 2016
- X. **A novel Proteolytic Cleavage of ROCK 1 by caspase 2**
İBİŞOĞLU B., ÖZDEMİR A., ŞİMAY Y. D. , ARK M.
7th European Congress of Pharmacology, 26 - 30 June 2016
- XI. **A novel proteolytic cleavage of ROCK 1 by caspase-2**
İbişoğlu B., ÖZDEMİR A., ŞİMAY DEMİR Y. D. , ARK M.
7th European Congress of Pharmacology, 26 - 30 June 2016
- XII. **Cytotoxic Activity Appraisal of Different Extracts from Cyclotrichium Niveum L In Three Cell Lines**
YILDIZ M., ŞENOL F. S. , ÖZDEMİR A., İBİŞOĞLU B., ŞİMAY Y. D. , ERDOĞAN ORHAN İ., ARK M.
the 18th International Congress Phtopharm 2014, 3 - 05 July 2014
- XIII. **Cytotoxic Activity Appraisal of Different Extracts From Cyclotrichium Niveum L. In Three Cell Lines**
Yıldız M., ŞENOL DENİZ F. S. , ÖZDEMİR A., İbişoğlu B., ŞİMAY DEMİR Y. D. , ERDOĞAN ORHAN İ., ARK M.
pytopharm, 3 - 05 July 2014
- XIV. **Combination of ouabain and a specific ROCK inhibitor Y27632 in HeLa cells: implication of therapeutic benefits**
İbişoğlu B., ŞİMAY DEMİR Y. D. , ÖZDEMİR A., ARK M.
FASEB JOURNAL, San Diego, 26 - 30 April 2014, vol.28
- XV. **Combination of ouabain and a specific ROCK inhibitor Y27632 in HeLa cells: implication of therapeutic benefits**
Ibisoglu B., Simay Y., ÖZDEMİR A., ARK M.
Experimental Biology Meeting, California, United States Of America, 26 - 30 April 2014, vol.28
- XVI. **Rock Inhibition Reduces Senescent Cell Size**
Simay Y. D. , Hosbas S., Ibisoglu B., Yildiz M., ÖZDEMİR A., ARK M.
Joint Annual Meeting of the ASPET/BPS at Experimental Biology (EB), Massachusetts, United States Of America, 20 - 24 April 2013, vol.27
- XVII. **Cleavage of ROCK II: As a Common Phenomenon in Cell Death**
ÖZDEMİR A., Ibisoglu B., Simay Y. D. , Yaren B. M. , ARK M.
Joint Annual Meeting of the ASPET/BPS at Experimental Biology (EB), Massachusetts, United States Of America, 20 - 24 April 2013, vol.27
- XVIII. **Identification of the T complex protein as a novel binding partner for Cytoplasmic Dynein Intermediate Chain 2**
ÖZDEMİR A., PFİSTER K., MACHIDA K., CATLING A.
Louisiana Cancer Research Consortium 2013, 01 March 2013
- XIX. **Ouabain Induces Caspase-2 Dependent Rock II Cleavage In HeLa Cells**
ÖZDEMİR A., Bulbul D., ARK M.
Experimental Biology Meeting 2011, Washington, Kiribati, 9 - 13 April 2011, vol.25
- XX. **Ouabain induced hypertension and rho kinase**
ÖZDEMİR A., AYPAR E., ŞAHAN G., GÖZÜBÜYÜK G., DEMİRTAŞ A., TURAN DURAL N. N. , ARK M.
Experimental Biology 2008, 5 - 09 April 2008, vol.22

Supported Projects

ÖZDEMİR A., Project Supported by Higher Education Institutions, A549 kanser hücrelerinde kemoterapötiklerle indüklenen senesente teofilinin sekretom gelişimi üzerindeki etkisi, 2020 - Continues

ÖZDEMİR A., Project Supported by Higher Education Institutions, METFORMİN, GLİPİZİD ve TOLBUTAMİDİN OLASI

HEDEF DIŐI RHO KİNAZ İNHİBİSYONU ETKİSİNİN MCF7 ve HeLa KANSER HÜCRELERİNDE İNCELENMESİ, 2018 -
Continues

Ark M., Özdemir A., TUBITAK Project, Apoptotik Hücre Ölümünde Rock 1 İçin Olası Yeni Bir Proteolitik Düzenleyici
Mekanizmanın Belirlenmesi, 2017 - 2020

Ark M., ÖZDEMİR A., TUBITAK Project, Kanser hücrelerinde kemoterapötiklerle indüklenen senesense ait morfolojik
değişiklikler ve sekretom gelişiminde olası mekanizmaların incelenmesi, 2016 - 2019

Özdemir A., Ark M., Banođlu E., TUBITAK Project, Yeni Benzimidazol Türevlerinin Antikanser ve Antimigratuvar Etkileri ve
Bu Bileşiklere Ait Etki Mekanizmalarının MCF 7 ve A549 Kanser Hücre Hatlarında İncelenmesi, 2015 - 2017

Ark M., Özdemir A., Erdoğan Orhan İ., Şenol Deniz F. S. , Project Supported by Higher Education Institutions, Cylotrichium
niveum L.'den Elde Edilen Ekstrelerin Sitotoksik Aktivitelerinin İncelenmesi, 2011 - 2013

Citations

Total Citations (WOS):83

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