

Asst. Prof. ATILLA TOPÇU

Personal Information

Office Phone: [+90 464 212 3009](tel:+904642123009) Extension: 3301

Fax Phone: [+90 464 212 3015](tel:+904642123015)

Email: atilla.topcu@erdogan.edu.tr

Web: <https://avesis.erdogan.edu.tr/atilla.topcu>

Address: T.C. Recep Tayyip Erdoğan Üniversitesi Tıp Fakültesi, 53200 Rize

Education Information

Doctorate, Ataturk University, Sağlık Bilimleri Enstitüsü, Tıbbi Farmakoloji, Turkey 2011 - 2015

Dissertations

Doctorate, KEMİK DEFEKTİ OLUŞTURULMUŞ OSTEOPOROTİK RATLARDA BOR NİTRÜR VE/VEYA HİDROKSİAPATİT BİLEŞİKLERİNİN ETKİSİNİN ARAŞTIRILMASI , Ataturk University, Sağlık Bilimleri Enstitüsü, Tıp- Tıbbi Farmakoloji, 2015
Postgraduate, MEFV GENİNİN EXON 2 BÖLGESİNDEKİ Arg202Gln POLİMORFİZMİNİN BÖLGEMİZDEKİ SIKLIĞI ve EXON 10'DAKİ MUTASYONLAR İLE İLİŞKİSİ, Ataturk University, Sağlık Bilimleri Enstitüsü, Tıp- Tıbbi Biyoloji, 2011

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

Assistant Professor, Recep Tayyip Erdogan University, Tıp Fakültesi, Dahili Tıp Bilimleri Bölümü, 2018 - Continues

Assistant Professor, Recep Tayyip Erdogan University, Tıp Fakültesi, Dahili Tıp Bilimleri Bölümü, 2015 - 2018

Academic and Administrative Experience

Fakülte Yönetim Kurulu Üyesi, Recep Tayyip Erdogan University, Tıp Fakültesi, Dahili Tıp Bilimleri Bölümü, 2020 - Continues

Vice Dean, Recep Tayyip Erdogan University, Tıp Fakültesi, Dahili Tıp Bilimleri Bölümü, 2020 - Continues

Recep Tayyip Erdogan University, Girişimsel Olmayan Klinik Araştırmalar Etik Kurulu, 2018 - Continues

Head of Department, Recep Tayyip Erdogan University, Tıp Fakültesi, Dahili Tıp Bilimleri Bölümü, 2017 - Continues

Ethics Committee Member, Recep Tayyip Erdogan University, Tıp Fakültesi, Dahili Tıp Bilimleri Bölümü, 2016 - 2020

Recep Tayyip Erdogan University, Dönem 3 Koordinatör Yardımcısı, 2016 - 2018

Recep Tayyip Erdogan University, 2016 - 2016

Recep Tayyip Erdogan University, 2016 - 2016

ARTICLES PUBLISHED IN JOURNALS THAT ENTERED SCI, SSCI AND AHCI INDEXES

- I. **Bee pollen increases hippocampal brain-derived neurotrophic factor and suppresses neuroinflammation in adult rats with chronic immobilization stress.**
SARAL Ö., Sahin H., SARAL S., Alkanat M., AKYILDIZ K., TOPÇU A., YILMAZ A.
Neuroscience letters, vol.766, pp.136342, 2022 (Journal Indexed in SCI Expanded)
- II. **The protective role of fosfomycin in lung injury due to oxidative stress and inflammation caused by sepsis**
Yildiz I. E. , Topcu A., Bahceci I., Arpa M., Tumkaya L., Mercantepe T., Baticik S., Yildiz Y.
LIFE SCIENCES, vol.279, 2021 (Journal Indexed in SCI)
- III. **Apelin-13 activates the hippocampal BDNF/TrkB signaling pathway and suppresses neuroinflammation in male rats with cisplatin-induced cognitive dysfunction.**
Saral S., Topçu A., Alkanat M., Mercantepe T., Akyıldız K., Yıldız L., Tümkaya L., Yazıcı Z. A. , Yılmaz A.
Behavioural brain research, vol.408, pp.113290, 2021 (Journal Indexed in SCI Expanded)
- IV. **Can Dexmedetomidine Be Effective in the Protection of Radiotherapy-Induced Brain Damage in the Rat?**
Cinar S., TÜMKAYA L., MERCANTEPE T., SARAL S., RAKICI S., YILMAZ A., TOPÇU A., Sen A., KARAKAŞ S.
NEUROTOXICITY RESEARCH, 2021 (Journal Indexed in SCI)
- V. **Protective effects of nebivolol on ovarian ischemia-reperfusion injury in rat**
Colak S., Gurlek B., Topcu A., Tumkaya L., Mercantepe T., Yilmaz A.
JOURNAL OF OBSTETRICS AND GYNAECOLOGY RESEARCH, vol.46, no.11, pp.2407-2416, 2020 (Journal Indexed in SCI)
- VI. **The protective effects of angiotensin-converting enzyme inhibitor against cecal ligation and puncture-induced sepsis via oxidative stress and inflammation**
Kostakoglu U., Topcu A., Atak M., Tumkaya L., Mercantepe T., Uydu H. A.
LIFE SCIENCES, vol.241, 2020 (Journal Indexed in SCI)
- VII. **An investigation of the effects of metformin on ovarian ischemia-reperfusion injury in rats**
Topcu A., BALIK G., ATAK M., Mercantepe T., UYDU H. A. , Tumkaya L.
EUROPEAN JOURNAL OF PHARMACOLOGY, vol.865, 2019 (Journal Indexed in SCI)
- VIII. **The radioprotective effect of N-acetylcysteine against x-radiation-induced renal injury in rats**
Mercantepe T., Topcu A., Rakici S., Tumkaya L., YILMAZ A., MERCANTEPE F.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.26, no.28, pp.29085-29094, 2019 (Journal Indexed in SCI)
- IX. **Protective effects of amifostine, curcumin and melatonin against cisplatin-induced acute kidney injury (vol 391, pg 915, 2018)**
MERCANTEPE F., MERCANTEPE T., TOPÇU A., YILMAZ A., TÜMKAYA L.
NAUNYN-SCHMIEDEBERGS ARCHIVES OF PHARMACOLOGY, vol.392, pp.511, 2019 (Journal Indexed in SCI)
- X. **The effects of N-acetylcysteine on radiotherapy-induced small intestinal damage in rats**
MERCANTEPE F., Topcu A., Rakici S., Tumkaya L., YILMAZ A.
EXPERIMENTAL BIOLOGY AND MEDICINE, vol.244, no.5, pp.372-379, 2019 (Journal Indexed in SCI)
- XI. **An investigation of the effects of N-acetylcysteine on radiotherapy-induced testicular injury in rats**
Topcu A., MERCANTEPE F., Rakici S., Tumkaya L., UYDU H. A. , Mercantepe T.
NAUNYN-SCHMIEDEBERGS ARCHIVES OF PHARMACOLOGY, vol.392, no.2, pp.147-157, 2019 (Journal Indexed in SCI)
- XII. **Protective Effect of Tea Grape Extract on Cisplatin-Induced Muscle Atrophy: A Morphological Study**
BALIK M. S. , TUMKAYA L., MERCANTEPE T., YILMAZ A., BALIK G., TOPCU A., Yazici Z. A.
IRANIAN RED CRESCENT MEDICAL JOURNAL, vol.20, no.9, 2018 (Journal Indexed in SCI)
- XIII. **Protective effects of amifostine, curcumin, and melatonin against cisplatin-induced acute kidney injury**
Mercantepe F., Mercantepe T., Topcu A., Yilmaz A., Tumkaya L.
NAUNYN-SCHMIEDEBERGS ARCHIVES OF PHARMACOLOGY, vol.391, no.9, pp.915-931, 2018 (Journal Indexed in SCI)
- XIV. **Effects of oral zinc administration on long-term ipsilateral and contralateral testes damage after**

experimental testis ischaemia-reperfusion

Oral A., HALICI Z., BAYIR Y., Topcu A., Un H., Bilgin A. O. , Atmaca H. T.
ANDROLOGIA, vol.49, no.6, 2017 (Journal Indexed in SCI)

- XV. **Serum nesfatin-1 levels: a potential new biomarker in patients with subarachnoid hemorrhage**
ÇAKIR M., ÇALIKOĞLU Ç., Yılmaz A., AKPINAR E., BAYRAKTUTAN Z., Topcu A.
INTERNATIONAL JOURNAL OF NEUROSCIENCE, vol.127, no.2, pp.154-160, 2017 (Journal Indexed in SCI)
- XVI. **Inhibiting renin angiotensin system in rate limiting step by aliskiren as a new approach for preventing indomethacin induced gastric ulcers**
HALICI Z., Polat B., ÇADIRCI E., Topcu A., Karakus E., KÖSE D., ALBAYRAK A., BAYIR Y.
CHEMICO-BIOLOGICAL INTERACTIONS, vol.258, pp.266-275, 2016 (Journal Indexed in SCI)
- XVII. **Blocking of urotensin receptors as new target for treatment of carrageenan induced inflammation in rats**
ÇADIRCI E., HALICI Z., Yayla M., Toktay E., BAYIR Y., Karakus E., TOPÇU A., Buyuk B., ALBAYRAK A.
PEPTIDES, vol.82, pp.35-43, 2016 (Journal Indexed in SCI)
- XVIII. **Effects of amlodipine on ischaemia/reperfusion injury in the rat testis**
Dogan C., HALICI Z., Topcu A., ÇADIRCI E., Karakus E., BAYIR Y., Selli J.
ANDROLOGIA, vol.48, no.4, pp.441-452, 2016 (Journal Indexed in SCI)
- XIX. **Is there any correlation between levels of serum osteopontin, CEA, and FDG uptake in lung cancer patients with bone metastasis?**
Ayan A. K. , ERDEMÇİ B., Orsal E., BAYRAKTUTAN Z., AKPINAR E., Topcu A., Turkeli M., SEVEN B.
REVISTA ESPANOLA DE MEDICINA NUCLEAR E IMAGEN MOLECULAR, vol.35, no.2, pp.102-106, 2016 (Journal Indexed in SCI)
- XX. **A novel approach to contrast-induced nephrotoxicity: the melatonergic agent agomelatine**
KARAMAN A., Diyarbakir B., DURUR-SUBASI I., KÖSE D., Ozbek-Bilgin A., Topcu A., Gundogdu C., Durur-Karakaya A., BAYRAKTUTAN Z., ALPER F.
BRITISH JOURNAL OF RADIOLOGY, vol.89, no.1061, 2016 (Journal Indexed in SCI)
- XXI. **Boron and Poloxamer (F68 and F127) Containing Hydrogel Formulation for Burn Wound Healing**
Demirci S., Dogan A., Karakus E., HALICI Z., Topcu A., DEMİRCİ E., Sahin F.
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.168, no.1, pp.169-180, 2015 (Journal Indexed in SCI)
- XXII. **What is the role of renin inhibition during rat septic conditions: preventive effect of aliskiren on sepsis-induced lung injury**
AKPINAR E., HALICI Z., ÇADIRCI E., BAYIR Y., Karakus E., Calik M., Topcu A., Polat B.
NAUNYN-SCHMIEDEBERGS ARCHIVES OF PHARMACOLOGY, vol.387, no.10, pp.969-978, 2014 (Journal Indexed in SCI)
- XXIII. **Can early myocardial infarction-related deaths be diagnosed using postmortem urotensin receptor expression levels?**
ŞENER M. T. , Karakus E., HALICI Z., AKPINAR E., Topcu A., KÖK A. N.
FORENSIC SCIENCE MEDICINE AND PATHOLOGY, vol.10, no.3, pp.395-400, 2014 (Journal Indexed in SCI)
- XXIV. **Agomelatine: An antidepressant with new potent hepatoprotective effects on paracetamol-induced liver damage in rats**
Karakus E., HALICI Z., ALBAYRAK A., POLAT B., BAYIR Y., KİKİ İ., ÇADIRCI E., Topcu A., Aksak S.
HUMAN & EXPERIMENTAL TOXICOLOGY, vol.32, no.8, pp.846-857, 2013 (Journal Indexed in SCI)
- XXV. **HLA B27 Subtype Distribution Among Patients with Ankylosing Spondylitis in Eastern Turkey**
Diyarbakir E., Eyerci N., MELIKOĞLU M., Topcu A., Pirim I.
GENETIC TESTING AND MOLECULAR BIOMARKERS, vol.16, no.5, pp.456-458, 2012 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Agomelatine Reverses Scopolamine-Induced Learning and Memory Impairment in Adult Rats**
Saraç S., Topçu A., Sümer A., Kaya A. K. , Öztürk A., Pınarbaş E.

- Online Turkish Journal of Health Sciences, vol.6, no.4, pp.538-545, 2021 (National Refreed University Journal)
- II. **Dose Dependent Effects of Lithium Carbonate on Rat Thyroid Hormones, Parathormon and Calcium Levels with Thyroid Tissue**
TOPÇU A.
Southern Clinics of Istanbul Eurasia, vol.31, no.3, pp.192-198, 2020 (Other Refereed National Journals)
- III. **Comparative Efficacy of the Steroids Administered by Inhalation and Parenteral Route in Lambs with Experimentally Induced Endotoxemia**
KIRBAS A., KARAKUS E., OZKANLAR S., GEDİKLİ S., HANEDAN B., TOPÇU A., BAYRAKTUTAN Z.
INTERNATIONAL JOURNAL OF VETERINARY SCIENCE, no.4, pp.199-205, 2015 (Refereed Journals of Other Institutions)
- IV. **The Distribution of HLA B27 in Patients with Ankylosing Spondylitis in Eastern Anatolia**
DİYARBAKIR E., EYERCİ N., UZKESER H., KARATAY S., TOPÇU A., YİLDİRİM K., PİRİM İ.
İNÖNÜ ÜNİVERSİTESİ TIP FAKÜLTESİ DERGİSİ, no.19, pp.23-25, 2012 (National Refreed University Journal)
- V. **Anti-HLA Antikorlarının Multipar Gebelerden Alınan Serumlarında Tespiti**
EYERCİ N., SAHİN G. Z. , İNGEC M., TOPÇU A., PİRİM İ.
THE EURASIAN JOURNAL OF MEDICINE, no.38, pp.73, 2006 (National Refreed University Journal)

Books & Book Chapters

- I. **İlaçların Genel Özellikleri ve Acil İlaçları**
Topçu A.
in: PARAMEDİK-Acil Bakım İlkeleri ve Uygulamalar, Dr.Öğr.Üyesi Mehmet ALTUNTAŞ, Editor, Nobel Yayın Dağıtım, Ankara, pp.755-779, 2021
- II. **Kronik İlaç Kullanımına Bağlı Karın Ağrısı**
TOPÇU A.
in: KARIN AĞRISI, Doç.Dr.Ahmet ŞEN, Editor, Nobel Tıp Kitabevleri Tic. Ltd. Şti, İstanbul, pp.9-16, 2019

Refereed Congress / Symposium Publications in Proceedings

- I. **A RATIONAL PERSPECTIVE ON RATIONAL DRUG USE EDUCATION FOR INTERN DOCTORS: PHARMACOECONOMIC REFLECTIONS**
Öztürk A., Topçu A.
26th National and 1st International Pharmacology Congress/26.Ulusal ve 1. Uluslararası Farmakoloji Kongresi, İzmir, Turkey, 4 - 06 November 2021, pp.193-194
- II. **Apelin-13 Improves Cognitive Behavior by Affecting Hippocampal Neurochemistry in Adult Male Rats With Cisplatin-Induced Cognitive Impairment**
SARAL S., TOPÇU A., ALKANAT M., MERCANTEPE T., AKYILDIZ K., YILDIZ L., TÜMKAYA L., YAZICI Z. A. , YILMAZ A.
5th International Medicine and Health Sciences Researches Congress, 12 - 13 December 2020
- III. **The Effects of N-Acetylcysteine Against Ionizing radiation-induced Testicular Damage**
TOPCU A., MERCANTEPE F., RAKICI S., TÜMKAYA L., UYDU H. A. , MERCANTEPE T.
1st International Mediterranean Anatomy Congress, Konya, Turkey, 6 - 09 September 2018, vol.12, pp.130
- IV. **The Effects of N-Acetylcysteine Against Ionizing Radiation-Induced Testicular Damage**
TOPÇU A., MERCANTEPE T., TÜMKAYA L.
1st International Mediterranean Anatomy Congress (IMAC 2018), Konya, Turkey, 6 - 09 September 2018, pp.130
- V. **EFFECTS OF N-ACETYLCYSTEINE ON RADIOTHERAPY-INDUCED KIDNEY INJURY**
MERCANTEPE T., TOPCU A., TÜMKAYA L.
1st International Congress on Sports, Anthropology, Nutrition, Anatomy and Radiology, Nevşehir, Turkey, 03 May 2019 - 05 May 2018
- VI. **N-Asetilsisteinin Sıçanlarda Radyoterapi ile Oluşturulan İntestinal hasar Üzerine Etkileri**

MERCANTEPE F., TOPCU A., RAKICI S., TÜMKAYA L.

1.internation congress on sports, antropology, nutrition, anatomy and radiology, 3 - 05 May 2018, pp.190

VII. **The Effects of N-Acetylcysteine on Radiotherapy-Induced Small Intestinal Damage in Rats**

Mercantepe F., TOPÇU A., Rakici S., Tumkaya L.

1st International Congress on Sports, Antrhropology, Nutrition, Anatomy and Radiology, Nevşehir, Turkey, 3 - 05 May 2018, pp.190

VIII. **Effects of N-Acetylcysteine on Radiotherapy- Induced Kidney Injury**

Mercantepe T., TOPÇU A., Tumkaya L.

1st International Congress on Sports, Antrhropology, Nutrition, Anatomy and Radiology, Nevşehir, Turkey, 3 - 05 May 2018, pp.342

IX. **A novel approach to contrast-induced nephrotoxicity the melatoninergic agent agomelatine.**

KARAMAN A., DİYARBAKIR B., DURUR SUBAŞI I., KÖSE D., BİLGİN A. Ö. , TOPÇU A., GÜNDOĞDU C., DURUR KARAKAYA A., BAYRAKTUTAN Z., ALPER F.

3 RD International Multidisciplinary Symposium on Drug Research and Development, 5 October - 07 November 2017

X. **A Novel Approach to Contrast-Induced Nephrotoxicity: The Melatonergic Agent Agomelatine**

Karaman A., Diyarbakir B., Durur-Subasi İ., Kose D., Ozbek Bilgin A., TOPÇU A., Gundogdu C., Durur-Karakaya A., Bayraktutan Z., Alper F.

3 rd International Multidisciplinary Symposium on Drug Research and Development-DRD 2017, Erzurum, Turkey, 5 - 07 October 2017, pp.196

XI. **IS THERE ANY CORRELATION BETWEEN SERUM OSTEOPONTIN CEA LEVELS, AND UPTAKE IN BONE METASTASİS İN LUNG CANCER?**

AYAN A. K. , ERDEMCI B., ORSAL E., BAYRAKTUTAN Z., AKPINAR E., TOPÇU A., TURKELİ M., SEVEN B.

ANNUAL CONGRESS EUROPEAN ASSOCIATION OF NUCLEAR MEDİCİNE, Hamburg, Germany, 10 - 14 October 2015, pp.641

XII. **EFFECT OF ANGIOTENSİN II RECEPTOR BLOCKER TELMISARTAN ON BONE FRACTURE HEALİNG IN RATS: RELATIONSHIP BETWEEN VEGF AND TELMİSARTAN**

AKOZ A., HALİCİ Z., AKPINAR E., TOPÇU A., YAYLA M., AYDIN A., KARAKUS E., ATMACA H. T. , BAYRAKTUTAN Z.

WCO-IOF-ESCEO WORLD CONGRESS ON OSTEOPOROSİS, OSTEOARTHRİTİS AND MUSCULOSKELETAL DİSEASES, Milan, Italy, 26 - 29 March 2015, pp.712

XIII. **EFFECT OF BORON NITRIDE AND/OR HYDROXYAPATITE COMPOUND ON BONE DEFECT IN OSTEOPOROTIC RATS**

TOPÇU A., HALİCİ Z., KARAKUS E., CADİRCİ E., DOĞAN A.

WCO-IOF-ESCEO WORLD CONGRESS ON OSTEOPOROSİS, OSTEOARTHRİTİS AND MUSCULOSKELETAL DİSEASES, Milan, Italy, 26 - 29 March 2015, pp.680

XIV. **CORRELATION BETWEEN SERUM OSTEOPONTİN LEVELS AND PRESENCE OF BONE METASTASİS OF BREAST CANCER DETECTED BY 18F-FDG**

AYAN A. K. , ORSAL E., ERDEMCI B., TOPÇU A., TURKELİ M., BAYRAKTUTAN Z., SEVEN B.

ANNUAL CONGRESS EUROPEAN ASSOCIATION OF NUCLEAR MEDİCİNE, Gothenburg, Sweden, 18 - 22 October 2014, pp.477

XV. **Determinations of MEFV Gene Mutations Prevalence in the Familial Mediterranean Fever(FMF)at the Region of East Anatoli**

TASPINAR N., DOĞAN H., SAHİN G. Z. , DİYARBAKİR E., TOPÇU A., PİRİM İ.

4 TH INTERNATIONAL CONGRESS ON CELL MEMBRANES AND OXİDATIVE STRESS: FOCUS ON CALCIUM SIGNALING AND TRP CHANNELS, Isparta, Turkey, 26 - 29 June 2012, pp.88

XVI. **MEFV GENİNİN EXON 2 BÖLGESİNDEKİ Arg202Gln POLİMORFİZMİNİN BÖLGEMİZDEKİ SIKLIĞI ve EXON 10'DAKİ MUTASYONLAR İLE İLİŞKİSİ**

TOPÇU A., DİYARBAKİR E., EYERCİ N., DOĞAN H., PİRİM İ.

XII. ULUSAL TIBBİ BİYOLOJİ ve GENETİK KONGRESİ, Antalya, Turkey, 27 - 30 October 2011, pp.218

Memberships / Tasks in Scientific Organizations

Türkiye Beyin Arařtırmaları ve Sinir Bilimleri Derneęi, Member, 2019 - Continues

Türk Farmakoloji Derneęi, Member, 2015 - Continues

Tıbbi Genetik Derneęi, Member, 2010 - Continues

Citations

Total Citations (WOS):225

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