

Prof. RANA ARSLAN

Personal Information

Office Phone: [+90 222 335 0580](tel:+902223350580) Extension: 3747

Email: rbeis@anadolu.edu.tr

Web: <https://avesis.anadolu.edu.tr/rbeis>

International Researcher IDs

ORCID: 0000-0002-8041-6844

Yoksis Researcher ID: 35952

Education Information

Doctorate, Anadolu University, SAĞLIK BİLİMLERİ ENSTİTÜSÜ, Farmakoloji (Dr), Turkey 1995 - 2000

Postgraduate, Anadolu University, SAĞLIK BİLİMLERİ ENSTİTÜSÜ, Farmakoloji (YI) (Tezli), Turkey 1992 - 1995

Undergraduate, Bursa Uludağ University, Fen-Edebiyat Fakültesi, Biyoloji Bölümü, Turkey 1987 - 1991

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Tastromin'xxin farmakolojik etkileri, Anadolu University, SAĞLIK BİLİMLERİ ENSTİTÜSÜ, Farmakoloji (Dr), 2000

Postgraduate, Dictamnus Albus'xxun dermatit yapıcı etkilerinin deney hayvanları üzerinde incelenmesi, Anadolu University, SAĞLIK BİLİMLERİ ENSTİTÜSÜ, Farmakoloji (YI) (Tezli), 1995

Research Areas

Health Sciences

Academic Titles / Tasks

Associate Professor, Anadolu University, ECZACILIK FAKÜLTESİ, ECZACILIK MESLEK BİLİMLERİ BÖLÜMÜ, 2013 - Continues

Assistant Professor, Anadolu University, ECZACILIK FAKÜLTESİ, ECZACILIK MESLEK BİLİMLERİ BÖLÜMÜ, 1991 - Continues

Courses

Klinik Eczacılık II, Undergraduate, 2015 - 2016

Seminer, Postgraduate, 2015 - 2016

İNNOVATİF FARMAKOLOJİ ve İLAÇ TARAMA STRATEJİLERİ, Undergraduate, 2015 - 2016

Reseptör, sinyilçi transdüksyonu, Postgraduate, 2015 - 2016

FARMAKOLOJİ IV, Undergraduate, 2015 - 2016, 2013 - 2014

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Use of kersetin and fisetin flavonoids in combination with pregabalin and gabapentin in the treatment of neuropathic pain**
Karabacak E., Eken H., Dallali I., ARSLAN R.
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- II. **Design, Synthesis, and <i>In Vivo</i> Evaluation of a New Series of Indole-Chalcone Hybrids as Analgesic and Anti-Inflammatory Agents**
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- III. **Antinociception Induced by Moringa Stenopetela (Baker f.) Cufod. Leaves Extract and Possible Mechanisms of Action**
Hussein M. C., BEKTAŞ TÜRKMEN N., ÖZTÜRK Y., ARSLAN R.
BRAZILIAN JOURNAL OF PHARMACEUTICAL SCIENCES, vol.58, 2022 (SCI-Expanded)
- IV. **The anxiolytic effect of perampanel and possible mechanisms mediating its anxiolytic effect in mice**
BEKTAŞ TÜRKMEN N., ARSLAN R., ALYU ALTINOK F.
LIFE SCIENCES, vol.261, 2020 (SCI-Expanded)
- V. **Physicochemical characterization and pharmacokinetic evaluation of rosuvastatin calcium incorporated solid lipid nanoparticles**
Al-Heibshy F. N. S., BAŞARAN E., ARSLAN R., ÖZTÜRK N., EROL K., DEMİREL M.
INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol.578, 2020 (SCI-Expanded)
- VI. **The nicotinic modulation of pain**
BEKTAŞ TÜRKMEN N., Nemutlu D., Cam M., Okcay Y., Eken H., ARSLAN R.
PAKISTAN JOURNAL OF PHARMACEUTICAL SCIENCES, vol.33, no.1, pp.229-239, 2020 (SCI-Expanded)
- VII. **Evaluation of wound healing effect of chitosan-based gel formulation containing vitexin**
BEKTAŞ TÜRKMEN N., ŞENEL B., Yenilmez E., ÖZATİK O., ARSLAN R.
SAUDI PHARMACEUTICAL JOURNAL, vol.28, no.1, pp.87-94, 2020 (SCI-Expanded)
- VIII. **Cannabinoid system involves in the analgesic effect of protocatechuic acid**
Dikmen D. Y., Okcay Y., ARSLAN R., BEKTAŞ TÜRKMEN N.
DARU-JOURNAL OF PHARMACEUTICAL SCIENCES, vol.27, no.2, pp.605-612, 2019 (SCI-Expanded)
- IX. **Preparation, characterization and pharmacokinetic evaluation of rosuvastatin calcium incorporated cyclodextrin-polyanhydride nanoparticles**
Al-Heibshy F. N. S., BAŞARAN E., ARSLAN R., ÖZTÜRK N., VURAL İ., DEMİREL M.
DRUG DEVELOPMENT AND INDUSTRIAL PHARMACY, vol.45, no.10, pp.1635-1645, 2019 (SCI-Expanded)
- X. **Potential Antithrombotic Effect of Crataegus Species**
ARSLAN R., BEKTAŞ TÜRKMEN N.
INDIAN JOURNAL OF PHARMACEUTICAL EDUCATION AND RESEARCH, vol.52, no.4, 2018 (SCI-Expanded)
- XI. **The possible mechanisms of protocatechuic acid-induced central analgesia**
ARSLAN R., AYDIN Ş., SAMUR D. N., BEKTAŞ TÜRKMEN N.
SAUDI PHARMACEUTICAL JOURNAL, vol.26, no.4, pp.541-545, 2018 (SCI-Expanded)
- XII. **Valnoctamide: The effect on relieving of neuropathic pain and possible mechanisms**
Samur D. N., ARSLAN R., AYDIN Ş., BEKTAŞ TÜRKMEN N.
EUROPEAN JOURNAL OF PHARMACOLOGY, vol.827, pp.208-214, 2018 (SCI-Expanded)
- XIII. **Zonisamide: Antihyperalgesic efficacy, the role of serotonergic receptors on efficacy in a rat model for painful diabetic neuropathy**
BEKTAŞ TÜRKMEN N., ARSLAN R., ÖZTÜRK Y.

LIFE SCIENCES, vol.95, no.1, pp.9-13, 2014 (SCI-Expanded)

- XIV. **Investigation for anti-inflammatory and anti-thrombotic activities of methanol extract of Capparis ovata buds and fruits**
BEKTAŞ TÜRKMEN N., ARSLAN R., GÖGER F., KIRIMER N., ÖZTÜRK Y.
JOURNAL OF ETHNOPHARMACOLOGY, vol.142, no.1, pp.48-52, 2012 (SCI-Expanded)
- XV. **Antinociceptive, antiinflammatory, and antioxidant activities of the ethanol extract of Crataegus orientalis leaves**
Bor Z., ARSLAN R., BEKTAŞ TÜRKMEN N., Pirildar S., DÖNMEZ A. A.
TURKISH JOURNAL OF MEDICAL SCIENCES, vol.42, no.2, pp.315-324, 2012 (SCI-Expanded)
- XVI. **Antithrombotic effects of ethanol extract of Crataegus orientalis in the carrageenan-induced mice tail thrombosis model**
ARSLAN R., Bor Z., BEKTAŞ TÜRKMEN N., Mericli A. H., ÖZTÜRK Y.
THROMBOSIS RESEARCH, vol.127, no.3, pp.210-213, 2011 (SCI-Expanded)
- XVII. **Antinociceptive effect of methanol extract of Capparis ovata in mice**
ARSLAN R., BEKTAŞ TÜRKMEN N.
PHARMACEUTICAL BIOLOGY, vol.48, no.10, pp.1185-1190, 2010 (SCI-Expanded)
- XVIII. **Antinociceptive activity of methanol extract of fruits of Capparis ovata in mice**
ARSLAN R., BEKTAŞ TÜRKMEN N., ÖZTÜRK Y.
JOURNAL OF ETHNOPHARMACOLOGY, vol.131, no.1, pp.28-32, 2010 (SCI-Expanded)
- XIX. **ROLE OF CARVACROL ON THE ANALGESIC ACTIONS OF NATURAL PRODUCTS**
AYDIN S., ÇAKMAK A., ARSLAN R.
JOURNAL OF PHYSIOLOGICAL SCIENCES, vol.59, pp.381, 2009 (SCI-Expanded)

Articles Published in Other Journals

- I. **A review on hydrogen sulfide: Is it pro-nociceptive or anti-nociceptive?**
Eken H., BEKTAŞ TÜRKMEN N., ARSLAN R.
ISTANBUL JOURNAL OF PHARMACY, vol.52, no.1, pp.101-107, 2022 (ESCI)
- II. **PHYTOCHEMICAL AND IN VITRO PHARMACOLOGICAL EVALUATION OF PHLOMIS PUNGENS PHLOMIS PUNGENS'İN FİTOKİMYA VE İN VİTRO FARMAKOLOJİK ETKİLERİNİN DEĞERLENDİRİLMESİ**
Okur M. E., Karadağ A. E., Reis R., Sipahi H., ARSLAN R., DEMİRCİ B., DEMİRCİ F.
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- III. **Dexketoprofen trometamol loaded solid lipid nanoparticles (SLNs): Formulation, in vitro and in vivo evaluation**
Öztürk A. A., Yenilmez E., Arslan R., Şenel B., Yazan Y.
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- IV. **Ferulik Asitin Periferik Analjezik Etkisi ve Olası Mekanizmaları**
Kaşık M., Eken H., ARSLAN R., BEKTAŞ TÜRKMEN N.
Mersin Üniversitesi Tıp Fakültesi Lokman Hekim Tıp Tarihi ve Folklorik Tıp Dergisi, 2019 (Peer-Reviewed Journal)
- V. **The antihyperalgesic effects of gabapentinoids, carbamazepine and its keto analogue, oxcarbazepine, in capsaicin-induced thermal hyperalgesia**
BEKTAŞ TÜRKMEN N., ALYU TEKEŞ F., EKEN H., ARSLAN R.
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Refereed Congress / Symposium Publications in Proceedings

- I. **The Contribution of Adrenergic Receptors in the Analgesic Effect of Rutin.**
Kasap M., EKEN H., Dallali İ., BEKTAŞ TÜRKMEN N., ARSLAN R.
The Eighth International Mediterranean Symposium on Medicinal and Aromatic Plants, (MESMAP-8), 2022., İzmir,

Turkey, 22 October 2022

- II. **Studies on development of lipid nanoparticle formulation containing vitexin and pDNA**
EKEN H., ŞENEL B., BEKTAŞ TÜRKMEN N., ARSLAN R.
International Biotechnology Congress (Bio-Türkiye), İstanbul, Turkey, 09 September 2021
- III. **CONTRIBUTION OF CANNABINOID SYSTEM TO THE ANTIHYPERALGESIC EFFECTS OF ANTIEPILEPTIC DRUGS**
BEKTAŞ TÜRKMEN N., ALYU ALTINOK F., OKÇAY Y., ARSLAN R.
13th International Symposium on Pharmaceutical Sciences, 22 June 2021
- IV. **The Contrubition of Adrenergic and Serotonergic Receptors In The Analgecis Effects of Quercetin**
EKEN H., ARSLAN R., BEKTAŞ TÜRKMEN N.
13th International Symposium on Pharmaceutical Sciences (ISOPS-13), Ankara, Turkey, 22 June 2021
- V. **ANTIHYPERCHOLESTEROLEMIC AND ANTIHYPERLIPIDEMIC ACTIVITY OF ROSUVASTATIN CALCIUM LOADED CYCLODEXTRIN-POLYANHYDRIDE AND SOLID LIPID NANOPARTICLES**
AL HEIBSHY F., NAMLI İ., ARSLAN R., BAŞARAN E., DEMİREL M.
8th BBBB International Conference on Pharmaceutical Sciences, İzmir, Turkey, 14 - 16 October 2019, pp.178-179
- VI. **ANTİEPİLEPTİKLERİN NÖROPATİK AĞRI TEDAVİSİNDEKİ ÖNEMİ**
TAŞDEMİR E., ARSLAN R., BEKTAŞ TÜRKMEN N.
4. Uluslararası Bilimsel Araştırmalar Kongresi, 14 - 17 February 2019
- VII. **Developments in Treatment of Autoimmune and Inflammatory Diseases with Monoclonal Antibodies**
OKÇAY Y., ARSLAN R., BEKTAŞ TÜRKMEN N.
International İVEK-BİO Congress, İstanbul, Turkey, 26 - 28 November 2018
- VIII. **Hidrojen Sülfür'ün Ağrıdaki Rolü.**
EKEN H., ARSLAN R., BEKTAŞ TÜRKMEN N.
2. Ulusal Marmara Eczacılık Kongresi, İstanbul, Turkey, 14 November 2018
- IX. **Biotechnological Drugs on Treatment of Neurodegenerative Diseases.**
EKEN H., ARSLAN R., BEKTAŞ TÜRKMEN N.
ULUSLAR ARASI İVEK-BİO, İstanbul, Turkey, 26 November 2018
- X. **ENHANCED ORAL BIOAVAILABILITY OF ROSUVASTATIN CALCIUM BY CYCLODEXTRIN-POLY(ANHYDRITE) NANOPARTICLES**
AL HEIBSHY F., BAŞARAN E., ÖZTÜRK N., ARSLAN R., EROL K., DEMİREL M.
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- XI. **SOLID LIPID NANOPARTICLES FOR THE ENHANCED ORAL BIOAVAILABILITY OF ROSUVASTATIN CALCIUM**
AL HEIBSHY F., BAŞARAN E., ÖZTÜRK N., ARSLAN R., EROL K., DEMİREL M.
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- XII. **Wound Healing Effect of Vitexin Formulation**
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12th International Symposium on Pharmaceutical Sciences (ISOPS), Ankara, Turkey, 26 - 28 June 2018
- XIII. **TRPV-1 channels contributes to antihyperalgesic effects of carbamazepine and Oxcarbazepine.**
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- XIV. **Anti-Inflammatory Activities, Phenolic and Flavonoid Contents of Aqueous, Ethanol and Methanol Extracts of Capparis Ovata var. palaestina**
OKUR M. E., ÇİÇEK POLAT D., YILMAZ SARIALTIN S., ÖZBEK H., ARSLAN R.
2nd International Gazi Pharma Symposium Series, Ankara, Turkey, 11 - 13 October 2017
- XV. **THE INVOLVEMENT OF TRPV-1 CHANNELS INANTIHYPERALGESIC EFFECTS OF GABAPENTINOLIDS**
BEKTAŞ TÜRKMEN N., ALYU TEKEŞ F., ARSLAN R.
2nd International Gazi Pharma Symposium, 11 - 13 October 2017
- XVI. **In vivo hypoglycemic activites of ethanol and aqueous extracts of Capparis ovata var. palaestina**
OKUR M. E., ÇİÇEK POLAT D., ÖZBEK H., ARSLAN R.

7. BBBB International Conference on Pharmaceutical Sciences, Hungary, 5 - 07 October 2017

- XVII. **Fitoöstrojenlerin farmakolojik etkileri**
Kayış K., ARSLAN R.
İLAÇ VE ECZACILIK KONGRESİ, 26 April 2017 - 29 January 2018
- XVIII. **Madde bağımlılığı ve ilaçla tedavisine genel bir değerlendirme**
ÖZKAN Ö., ARSLAN R.
İVEK 2017, 26 - 29 April 2017
- XIX. **Investigation of antimicrobial and antioxidant activity of Capparis ovata var. palaestina**
Okur M. E., Polat D. Ç., YILMAZ SARIALTIN S., YOLTAŞ A., ÖZBEK H., ARSLAN R.
IVEK 2017, 26 - 29 April 2017
- XX. **Potential Antithrombotic Effect of Crataegus Species**
ARSLAN R., BEKTAŞ TÜRKMEN N.
MESMAP-3 2017, 13 - 16 April 2017
- XXI. **The Involvement of NO-CGMP-ATP Sensitive KChannels Pathway in Protocatechuic Acid Peripheral Analgesia**
BEKTAŞ TÜRKMEN N., ARSLAN R.
MESMAP-3 2017, 13 - 16 April 2017
- XXII. **Kanserli Hastalarda Beslenme alışkanlıkları ve Alternatif Tedavi Kullanım Sıklıklarının Değerlendirilmesi**
ARSLAN R., Okkay Ö.
13. Türkiye Eczacılık Kongresi, Turkey, 21 - 24 December 2016
- XXIII. **The possible action mechanisms of central analgesic effects of protocatechuic acid**
BEKTAŞ TÜRKMEN N., ARSLAN R., AYDIN Ş.
30th CINP (International Journal of Neuropsychopharmacology) World Congress, 3 - 05 July 2016
- XXIV. **The role of opioidergic mechanisms on the anti allodynic and antihyperalgesic effect of valnoctamide in rats**
BEKTAŞ TÜRKMEN N., ARSLAN R., Nemutlu D., AYDIN Ş.
7th European Congress of Pharmacology (EPHAR2016), 26 - 30 June 2016
- XXV. **The Opioidergic, Serotonergic and Noradrenergic Modulation of Ferulic Acid-Induced Central Analgesia**
BEKTAŞ TÜRKMEN N., ARSLAN R.
30th World Congress of the International-College-of-Neuropsychopharmacology (CINP), Seoul, South Korea, 3 - 07 July 2016, vol.19, pp.282
- XXVI. **Potassium and TRP Channels Are Involved in Analgesic Effects of NSAIDs in Tail Immersion Test**
ARSLAN R., BEKTAŞ TÜRKMEN N.
30th World Congress of the International-College-of-Neuropsychopharmacology (CINP), Seoul, South Korea, 3 - 07 July 2016, vol.19, pp.281
- XXVII. **The Possible Action Mechanisms of Central Analgesic Effect of Protocatechuic Acid**
BEKTAŞ TÜRKMEN N., ARSLAN R., AYDIN Ş.
30th World Congress of the International-College-of-Neuropsychopharmacology (CINP), Seoul, South Korea, 3 - 07 July 2016, vol.19, pp.281-282
- XXVIII. **THE INVOLVEMENT OF THE TRP CHANNELS IN CENTRAL ANTINOCICEPTIVE EFFECT OF ETODOLAC AND DICLOFENAC**
BEKTAŞ TÜRKMEN N., ARSLAN R.
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- XXIX. **THE ROLE OF Kv7 POTASSIUM CHANNELS IN CENTRAL ANTINOCICEPTION INDUCED BY DICLOFENAC AND ETODOLAC**
BEKTAŞ TÜRKMEN N., ARSLAN R.
The Science of Pain and its Management, London, Canada, 8 - 11 December 2015
- XXX. **POSSIBLE INVOLVEMENT OF Kv7 POTASSIUM CHANNELS IN CENTRAL ANTINOCICEPTION INDUCED BY DIPYRONE AND KETOPROFEN**

ARSLAN R., BEKTAŞ TÜRKMEN N., Nemutlu D.

international multidisciplinary symposium on drug research and development (drd 2015), Turkey, 15 - 17 October 2015

XXXI. ARE TRP CHANNELS INVOLVED IN THE ANTINOCICEPTIVE EFFECTS OF NSAIDs

ARSLAN R., BEKTAŞ TÜRKMEN N., Nemutlu D.

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XXXII. Ferulic acid possesses central analgesic activity in mice

ARSLAN R., BEKTAŞ TÜRKMEN N., NEMUTLU SAMUR D.

9th IBRO World Congress of Neuroscience (IBRO-2015), Rio de Janeiro-Brazil, 7 - 11 July 2015

XXXIII. Protocatechuic acid is analgesic at central and peripheral levels in mice

BEKTAŞ TÜRKMEN N., ARSLAN R., NEMUTLU SAMUR D.

9th IBRO World Congress of Neuroscience (IBRO-2015), Rio de Janeiro-Brazil, 7 - 11 July 2015

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Pınar Ö., BEKTAŞ TÜRKMEN N., ARSLAN R.

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XXXV. Central Antinociception Induced by Luteolin

Pınar Ö., BEKTAŞ TÜRKMEN N., ARSLAN R.

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Pınar Ö., BEKTAŞ TÜRKMEN N., ARSLAN R.

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XXXVII. Ferulic Acid Possesses Central Analgesic Activity In Mice

Pınar Ö., BEKTAŞ TÜRKMEN N., ARSLAN R.

9th IBRO World Congress Of Neuroscience 2015, Rio de Janeiro, Brazil, 7 - 11 July 2015

XXXVIII. p-Coumaric acid induces antinociception in mice,

BEKTAŞ TÜRKMEN N., ARSLAN R., NEMUTLU SAMUR D.

11th International Symposium on Pharmaceutical Sciences (ISOPS-11), Ankara-Turkey, 9 - 12 June 2015

XXXIX. Reducing Effect of Apigenin and Hyperoside on Tail Thrombosis in Mice

BEKTAŞ TÜRKMEN N., ARSLAN R., Dilara N.

11th International Symposium on Pharmaceutical Sciences" (ISOPS), 9 - 12 June 2015

XL. P Coumaric Acid Induces Antinociception in Mice 11th International Symposium on Pharmaceutical Sciences

BEKTAŞ TÜRKMEN N., ARSLAN R., Dilara N.

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XLI. The Role of Vitexin and Quercetin in The Carrageenan Induced Tail Thrombosis Model in Mice

BEKTAŞ TÜRKMEN N., ARSLAN R., Dilara N.

11th International Symposium on Pharmaceutical Sciences" (ISOPS), 9 - 12 June 2015

XLII. The Role Of The Pharmacist In The Management of Chronic Obstructive Pulmonary Disease COPD

Mustafa Şenol K., ARSLAN R., Marek C.

Uluslararası İlaç ve Eczacılık Kongresi (İVEK), İstanbul, Turkey, 28 - 30 November 2014

XLIII. The Role of The Pharmacist In The Treatment Of Type 2 Diabetes

Mustafa Şenol K., ARSLAN R., Marek C.

Uluslararası İlaç ve Eczacılık Kongresi (İVEK), İstanbul, Turkey, 28 - 30 November 2014

XLIV. The role of descending serotonergic mechanisms in anti hyperalgesic effect of zonisamide in a rat model for painful diabetic neuropathy

BEKTAŞ TÜRKMEN N., ARSLAN R.

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XLV. Zonisamidin STZ ile indüklenen nöropati modelinin erken ve geç döneminde antihiperalezik etkinliğinin karşılaştırılması

BEKTAŞ N., ARSLAN R.

- Türk Farmakoloji Derneği 21. Ulusal Farmakoloji Kongresi, Turkey, 19 - 22 October 2011
- XLVI. **Bazı NSAİ ilaçların santral analjezik etkilerinde olası adrenerjik mekanizmalar**
ARSLAN R., BEKTAŞ N.
Türk Farmakoloji Derneği 21. Ulusal Farmakoloji Kongresi, Turkey, 19 - 22 October 2011
- XLVII. **Anxiolytic like effects of zonisamide in mice**
BEKTAŞ N., ARSLAN R.
8th International Brain Research Organization World Congress of Neuroscience-IBRO World Congress of Neuroscience, 14 - 18 July 2011
- XLVIII. **Possible involvement of serotonergic mechanisms in the central analgesic effect of some NSAİ drugs**
ARSLAN R., BEKTAŞ N.
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- XLIX. **Antitumor activity of zonisamide on C6 rat glioma cells**
ZEYNEP B., BEKTAŞ N., ARSLAN R., İNCESU Z.
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- L. **Crataegus orientalis etanol ekstresinin antiinflamatuvar etkileri**
ARSLAN R., BOR Z., BEKTAŞ N.
10. Türkiye Eczacılık Kongresi, Turkey, 30 September - 03 October 2010
- LI. **Antinociceptive effect of methanolic extract of Capparis ovata Desf at acetic acid induced writhing Test in mice**
ARSLAN R., BEKTAŞ N.
9. International Symposium on Pharmaceutical Sciences, 23 - 26 June 2009
- LII. **Central analgesic effect of methanolic extract of Capparis ovata Desf in mice**
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- LIIL. **Gastroprotective effect of montelukast (singulaire) on indomethacine induced gastric ulcer in rats and its relation with myeloperoxidase and some antioxidant enzymes**
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- LIV. **Possible involvement of adrenergic mechanisms in the analgesia of some NSAİ drugs as examined by hot plate test**
ARSLAN R., BEKTAŞ N., ÖZTÜRK B.
3. International Meeting on Pharmacy and Pharmaceutical Sciences, 2 - 07 October 2006