

Asst. Prof. NUR BANU BAL

Personal Information

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Education Information

Doctorate, Gazi University, Sağlık Bilimleri Enstitüsü, Farmakoloji (Dr), Turkey 2011 - 2016

Undergraduate, Gazi University, Eczacılık Fakültesi, Eczacılık Pr., Turkey 2005 - 2010

Dissertations

Doctorate, Hipertansiyon nedeniyle gelişen kardiyak işlev bozukluğunda "karaciğer X reseptörleri"nin (liver X receptor LXR) rolü, Gazi University, Sağlık Bilimleri Enstitüsü, Farmakoloji (Dr), 2016

Research Areas

Health Sciences

Academic Titles / Tasks

Assistant Professor, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri, 2019 - Continues

Research Assistant, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri, 2012 - 2019

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

- I. **Resveratrol and regular exercise may attenuate hypertension-induced cardiac dysfunction through modulation of cellular stress responses.**
Bal N. B. , Bostancı A., Sadi G., Dönmez M. O. , Uludağ M. O. , Demirel-Yılmaz E.
Life sciences, pp.120424, 2022 (Journal Indexed in SCI Expanded)
- II. **Simple heteroaryl modifications in the 4,5-diarylisoaxazol-3-carboxylic acid scaffold favorably modulates the activity as dual mPGES-1/5-LO inhibitors with in vivo efficacy**
Gurses T., OLĞAÇ A., Garscha U., GÜR MAZ Z. T. , BAL N. B. , Uludag O., ÇALIŞKAN B., Schubert U. S. , Werz O., BANOĞLU E.
BIOORGANIC CHEMISTRY, vol.112, 2021 (Journal Indexed in SCI)
- III. **Reversal of deleterious effect of hypertension on the liver by inhibition of endoplasmic reticulum stress**
BAL N. B. , HAN S., KİREMİTÇİ S., ULUDAĞ M. O. , DEMİREL YILMAZ E.
MOLECULAR BIOLOGY REPORTS, vol.47, no.3, pp.2243-2252, 2020 (Journal Indexed in SCI)
- IV. **Hypertension-induced cardiac impairment is reversed by the inhibition of endoplasmic reticulum stress**
BAL N. B. , HAN S., KİREMİTÇİ S., SADI G., Uludag O., DEMİREL YILMAZ E.
JOURNAL OF PHARMACY AND PHARMACOLOGY, vol.71, no.12, pp.1809-1821, 2019 (Journal Indexed in SCI)

- V. **Activation of Liver X Receptors by GW3965 Attenuated Deoxycorticosterone Acetate-Salt Hypertension-Induced Cardiac Functional and Structural Changes**
BAL N. B. , HAN S., USANMAZ S. E. , KİREMİTÇİ S., SADİ G., Uludag O., DEMİREL YILMAZ E.
JOURNAL OF CARDIOVASCULAR PHARMACOLOGY, vol.74, no.2, pp.105-117, 2019 (Journal Indexed in SCI)
- VI. **Inhibition of endoplasmic reticulum stress protected DOCA-salt hypertension-induced vascular dysfunction**
HAN S., BAL N. B. , SADİ G., USANMAZ S. E. , Tuğlu M. M. , ULUDAĞ M. O. , DEMİREL YILMAZ E.
VASCULAR PHARMACOLOGY, vol.113, pp.38-46, 2019 (Journal Indexed in SCI)
- VII. **Antinociceptive Effect of Liposomal Bupivacaine Formulations After Intrathecal Administration in Rats**
Yigit I., Gunaydin B., Emmez Ö. H. , Uludag O., Bal N. B. , Degim T.
TURKISH JOURNAL OF MEDICAL SCIENCES, vol.49, pp.429-434, 2019 (Journal Indexed in SCI)
- VIII. **The effects of LXR agonist GW3965 on vascular reactivity and inflammation in hypertensive rat aorta**
HAN S., BAL N. B. , SADİ G., USANMAZ S. E. , ULUDAĞ M. O. , DEMİREL YILMAZ E.
LIFE SCIENCES, vol.213, pp.287-293, 2018 (Journal Indexed in SCI)
- IX. **The effects of resveratrol and exercise on age and gender-dependent alterations of vascular functions and biomarkers**
HAN S., BAL N. B. , Sadi G., USANMAZ S. E. , ULUDAĞ M. O. , DEMİREL YILMAZ E.
EXPERIMENTAL GERONTOLOGY, vol.110, pp.191-201, 2018 (Journal Indexed in SCI)
- X. **Effects of Ozone Treatment in Endotoxin Induced Shock Model in Rats**
ULUDAĞ M. O. , Ozdemir E. D. , BAL N. B. , HAN S., Dayanir H., Babacan A., USANMAZ S. E. , DEMİREL YILMAZ E.
INTERNATIONAL JOURNAL OF PHARMACOLOGY, vol.13, no.2, pp.166-174, 2017 (Journal Indexed in SCI)
- XI. **SYNTHESIS AND ANTINOCICEPTIVE ACTIVITY OF MEPERIDINE-LIKE BENZIMIDAZOLE DERIVATIVES**
Ercanlı T., BAL N. B. , ÖZDEMİR E., DÜNDAR Y., ULUDAĞ M. O. , Cakir B., Ozden T., ÖNKOL T.
REVUE ROUMAINE DE CHIMIE, vol.61, no.1, pp.15-23, 2016 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Kardiyovasküler Sistemde Karaciğer X Reseptörleri**
Bal N. B. , Uludağ M. O. , Demirel Yılmaz E.
Türkiye Klinikleri Tıp Bilimleri Dergisi, vol.39, no.4, pp.430-443, 2019 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

- I. **KALPTE HİPERTANSİYONA BAĞLI GELİŞEN İNFLAMAZOM AKTİVASYONU VE MİTOFAJİ ÜZERİNE RESVERATROL VE DÜZENLİ EGZERSİZİN ETKİSİ**
Bal N. B. , Dönmez M. O. , Uludağ M. O. , Demirel Yılmaz E.
26. ULUSAL ve 1. ULUSLARARASI FARMAKOLOJİ KONGRESİ, Ankara, Turkey, 4 - 06 November 2021, pp.360-361
- II. **The effect of resveratrol and regular exercise on the cardiac oxidative stress and adrenergic responses in the hypertension**
Bal N. B. , Usanmaz S. E. , Uludağ M. O. , Demirel Yılmaz E.
3rd International Gazi Pharma Symposium Series (GPSS-2021), Ankara, Turkey, 8 - 10 September 2021, pp.97
- III. **The effect of 4-phenylbutyric acid on the hypertension induced cardiac stress responses**
Bal N. B. , Han S., Usanmaz S. E. , Sadi G., Uludağ M. O.
3rd International Gazi Pharma Symposium Series (GPSS-2021), Ankara, Turkey, 8 - 10 September 2021, pp.67
- IV. **THE EFFECT OF 4-PHENYLBUTYRIC ACID ON HYPERTENSION-INDUCED CARDIAC IMPAIRMENTS**
Bal N. B. , Han S., Uludağ M. O. , Demirel Yılmaz E.
13th International Symposium on Pharmaceutical Sciences (ISOPS) , Ankara, Turkey, 22 - 25 June 2021, pp.75

- V. **Gender dependent effects of resveratrol and regular exercise on the expression of various proteins in kidney**
BAL N. B. , HAN S., ULUDAĞ M. O. , DEMİREL YILMAZ E.
1st International Conference on Preventive Medicine (1st ICPM), 12 - 14 November 2019
- VI. **Düzenli Hareket ve Resveratrol'ün Kalp ve Böbrek Dokusunda Nitrik Oksit ve Toplam Antioksidan Kapasite Üzerine Cinsiyete Bağlı Etkileri**
BAL N. B. , HAN S., USANMAZ S. E. , ULUDAĞ M. O. , DEMİREL YILMAZ E.
25. Ulusal Farmakoloji Kongresi, Turkey, 4 - 07 November 2019
- VII. **TUDCA ile Endoplazmik Retikulum Stresinin Engellenmesinin Hipertansiyonda Gelişen Karaciğer Hasarına Etkisi**
BAL N. B. , HAN S., KİREMİTÇİ S., ULUDAĞ M. O. , DEMİREL YILMAZ E.
25. Ulusal Farmakoloji Kongresi, Turkey, 4 - 07 November 2019
- VIII. **The effects of endoplasmic reticulum stress inhibition on vascular and cardiac EGFR signaling in hypertension**
BAL N. B. , HAN S., Tuğlu M. M. , ULUDAĞ M. O. , DEMİREL YILMAZ E.
18th World Congress of Basic and Clinical Pharmacology (WCP2018), 1 - 06 July 2018
- IX. **Resveratrol ve Egzersizin Oksidatif Stres ile İlişkili Genler Üzerindeki Yaşa ve Cinsiyete Bağlı Etkileri**
Han S., Sadi G., Bal N. B. , Uludağ M. O. , Demirel Yılmaz E.
24. Ulusal Farmakoloji Kongresi, Trabzon, Turkey, 17 - 20 October 2017
- X. **HİPERTANSİYONDA ENDOPLAZMİK RETİKULUM STRESİNİN ENGELLENMESİNİN KALP ve DAMARDA MİTOJENİK YOLAKLARA ETKİSİ**
Bal N. B. , Han S., Tuğlu M. M. , Uludağ M. O. , Demirel Yılmaz E.
24. Ulusal Farmakoloji Kongresi, Trabzon, Turkey, 17 - 20 October 2017
- XI. **Activation of liver X receptors prevents cardiac functional and structural changes in DOCA-salt hypertensive rats.**
Bal N. B. , Han S., Usanmaz S. E. , Kiremitçi S., Sadi G., Uludağ M. O. , Demirel Yılmaz E.
2nd International Gazi Pharma Symposium, Ankara, Turkey, 11 - 13 October 2017
- XII. **Inhibition of endoplasmic reticulum stress reversed doca-salt hypertension-induced structural changes in cardiac and hepatic tissues**
Bal N. B. , Han S., Kiremitçi S., Uludağ M. O. , Demirel Yılmaz E.
2nd International Gazi Pharma Symposium Series (GPSS-2017), Ankara, Turkey, 11 - 13 October 2017
- XIII. **Aging and gender dependent alteration of oxidatve stress related genes.**
HAN S., SADİ G., BAL N. B. , ULUDAĞ M. O. , DEMİREL YILMAZ E.
19th International conference on Oxidative Stress Reduction, Redox Homeostasis and Antioxidants, 26 - 27 July 2017
- XIV. **Inhibition of endoplasmic reticulum stress protected hypertension induced alteration in the protein expression of rat aorta**
Han S., Bal N. B. , Sadi G., Uludağ M. O. , Demirel Yılmaz E.
The EMBO meeting, Mannheim, Germany, 10 - 13 September 2016
- XV. **Effects of LXR agonist GW3965 on expression of functional proteins in hypertensive rat aorta**
Han S., Bal N. B. , Sadi G., Uludağ M. O. , Demirel Yılmaz E.
The EMBO meeting, Mannheim, Germany, 10 - 13 September 2016
- XVI. **Effect of endoplasmic reticulum stress inhibition on cardiac remodelling induced by hypertension**
Bal N. B. , Han S., Kiremitçi S., Sadi G., Uludağ M. O. , Demirel Yılmaz E.
7th European Congress of Pharmacology (EPHAR), İstanbul, Turkey, 26 - 30 June 2016
- XVII. **Effects of endoplasmic reticulum stress on hypertension induced endothelial dysfunction in rat**
Han S., Bal N. B. , Usanmaz S. E. , Uludağ M. O. , Demirel Yılmaz E.
7th European Congress of Pharmacology (EPHAR), İstanbul, Turkey, 26 - 30 June 2016
- XVIII. **Effects of LXR agonist GW3965 on vascular reactivity in DOCA salt induced hypertension in rat**
Han S., Bal N. B. , Usanmaz S. E. , Uludağ M. O. , Demirel Yılmaz E.
7th European Congress of Pharmacology (EPHAR), İstanbul, Turkey, 26 - 30 June 2016

- XIX. **The role of Liver X Receptors on cardiac dysfunction induced by hypertension**
Bal N. B. , Han S., Usanmaz S. E. , Uludağ M. O. , Demirel Yılmaz E.
7th European Congress of Pharmacology (EPHAR), İstanbul, Turkey, 26 - 30 June 2016
- XX. **SYNTHESIS AND ANTINOCICEPTIVE ACTIVITY OF MEPERIDINELIKEBENZIMIDAZOLE DERIVATIVES**
TANER E., BAL N. B. , ELİF DERYA Ö., DÜNDAR Y., ULUDAĞ M. O. , ÇAKIR B., ÖZDEN T., ÖNKOL T.
1st International Gazi Pharma SymposiumSeries (GPSS-2015), 12 - 15 November 2015
- XXI. **Hipertansiyonda gelişen endoplazmik retikulum stresinin damar cevapları üzerine etkisi**
Han S., Bal N. B. , Usanmaz S. E. , Uludağ M. O. , Demirel Yılmaz E.
23. Ulusal Farmakoloji Kongresi, Ankara, Turkey, 7 - 10 September 2015, pp.308
- XXII. **Age and gender dependent effects of resveratrol and regular aerobic exercise on the endothelial function related blood biomarkers**
BAL N. B. , HAN S., USANMAZ S. E. , ULUDAĞ M. O. , DEMİREL YILMAZ E.
17th World Congress Of Basic And Clinical Pharmacology, 13 - 18 June 2014
- XXIII. **Age and gender dependent effects of resveratrol and exercise on vascular relaxations.**
Han S., Bal N. B. , Uludağ M. O. , Demirel Yılmaz E.
The 5th EMBO meeting, Amsterdam, Netherlands, 21 - 24 September 2013, pp.240

Memberships / Tasks in Scientific Organizations

Türk Farmakoloji Derneği, Member, 2011 - Continues, Turkey

Citations

Total Citations (WOS):33

h-index (WOS):4