

Lect. EZGİ KAR

Personal Information

Office Phone: [+90 274 260 0043](tel:+902742600043) Extension: 1257

Email: ezgi.kar@ksbu.edu.tr

Web: <https://avesis.ksbu.edu.tr/SA.0491>

International Researcher IDs

ORCID: 0000-0003-2134-4067

Publons / Web Of Science ResearcherID: AAR-1992-2020

Yoksis Researcher ID: 239760

Education Information

Doctorate, Eskisehir Osmangazi University, Tıp Fakültesi, Temel Tıp Bilimleri, Turkey 2018 - Continues

Postgraduate, Eskisehir Osmangazi University, Tıp Fakültesi, Temel Tıp Bilimleri, Turkey 2015 - 2018

Undergraduate, Ege University, Faculty Of Science, Biyokimya Bölümü, Turkey 2008 - 2012

Foreign Languages

English, C1 Advanced

Certificates, Courses and Trainings

Health&Medicine, İyi Klinik Uygulamalar ve Temel Klinik Araştırmalar Kursu, Eskişehir Osmangazi Üniversitesi, 2018

Health&Medicine, Deney Hayvanları Kullanım Sertifikası, Eskişehir Osmangazi Üniversitesi HADYEK, 2016

Dissertations

Postgraduate, RATLARDA LİPOLİSİT (LPS) İLE İNDÜKLENEN İNFLAMASYONUN KONTROLÜNDE, METFORMİN VE FİBROBLAST GROWTH FAKTÖR 21 (FGF21)'İN ETKİSİNİN İNCELENMESİ, Eskisehir Osmangazi University, Tıp Fakültesi, Temel Tıp Bilimleri, 2018

Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences, Biochemistry

Academic Titles / Tasks

Lecturer, Kütahya Health Sciences University, Rektörlük, 2022 - Continues

Research Assistant, Canakkale Onsekiz Mart University, Tıp Fakültesi, Temel Tıp Bilimleri, 2015 - 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **LoxBlock-1 or Curcumin Attenuates Liver, Pancreas and Cardiac Ferroptosis, Oxidative Stress, and Injury in Ischemia/Reperfusion-Damaged Rats by Facilitating ACSL/GPx4 Signaling**
Kar F., Yıldız F., Kar E., Hacıoğlu C., Burukoğlu Dönmez D., Şentürk H., Kanbak G.
TISSUE AND CELL, vol.82, no.102114, pp.1-10, 2023 (SCI-Expanded)
- II. **POSSIBLE PROPHYLACTIC OR THERAPEUTIC EFFECTS OF BORIC ACID ON SEPSIS INDUCED HEPATIC INJURY**
Kar E., Kar F., Can B., Güler G., Çakır Gündoğdu A., Özbayer C., Koçak F. E., Şentürk H.
TURKISH JOURNAL OF BIOCHEMISTRY, vol.47, no.1, pp.52, 2022 (SCI-Expanded)
- III. **POTENT PROBIOTICS ATTENUATE NEUROINFLAMMATION THROUGH THE SEMAPHORIN PATHWAY AND FERROPTOSIS IN THE GUT-BRAIN AXIS**
Kar F., Hacıoğlu C., Kar E., Burukoğlu Dönmez D.
TURKISH JOURNAL OF BIOCHEMISTRY, vol.47, no.1, pp.57-58, 2022 (SCI-Expanded)
- IV. **NEPHROGENIC AND NEUROPROTECTIVE EFFECT OF POTENT PROBIOTICS ON RAT NEUROINFLAMMATION MODEL AND NCM460 CELL INJURY: GUT-BRAIN-MICROBIOTA AXIS**
Kar F., Hacıoğlu C., Kar E., Koçak F. E., Kanbak G.
TURKISH JOURNAL OF BIOCHEMISTRY, vol.47, no.2, pp.86-87, 2022 (SCI-Expanded)
- V. **BORIC ACID INDUCES OXIDATIVE STRESS AND APOPTOSIS IN U251 GLIOBLASTOMA CELL LINE THROUGH SEMA3A/PLEXIN A1/NEUROFILIN 1 SIGNAL PATH**
Kar E., Övenler Z., Kar F., Hacıoğlu C., Koçak F. E.
TURKISH JOURNAL OF BIOCHEMISTRY, vol.47, no.2, pp.65-66, 2022 (SCI-Expanded)
- VI. **Conivaptan and Boric Acid Treatments in Acute Kidney Injury: Is This Combination Effective and Safe?**
Can B., Kar F., Kar E., Ozkoc M., Şentürk H., Burukoğlu Dönmez D., Kanbak G., Alataş İ. Ö.
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.200, no.8, pp.3723-3737, 2022 (SCI-Expanded)
- VII. **Probiotics ameliorates LPS induced neuroinflammation injury on A β 1-42, APP, γ - β secretase and BDNF levels in maternal gut microbiota and fetal neurodevelopment processes**
Kar F., Hacıoğlu C., Kar E., Burukoğlu Dönmez D., Kanbak G.
METABOLIC BRAIN DISEASE, vol.37, no.5, pp.1387-1399, 2022 (SCI-Expanded)
- VIII. **Oxidative Status and Thiol/Disulfide Homeostasis Are Changed During 75 g Oral Glucose Tolerance Test over a Five-Hour Period**
Küskü Kiraz Z., Kar E., Kar F., Kocatürk E., Kebapçı M. N., Alataş İ. Ö., Uslu S.
JOURNAL OF INVESTIGATIVE SURGERY, vol.35, no.8, pp.1626-1634, 2022 (SCI-Expanded)
- IX. **The effects of conivaptan and boric acid in post-ischemic renal function impairment**
Can B., Kar F., Kar E., Özkoç M., Şentürk H., Kanbak G., Alataş İ. Ö.
CLINICA CHIMICA ACTA, vol.530, no.1, pp.229-230, 2022 (SCI-Expanded)
- X. **The effects of conivaptan and boric acid on peripheral blood cells after renal ischemia in unilateral nephrectomized rats**
Can B., Kar F., Kar E., Özkoç M., Şentürk H., Kanbak G., Alataş İ. Ö.
CLINICA CHIMICA ACTA, vol.530, no.1, pp.172-173, 2022 (SCI-Expanded)
- XI. **The effects of N-acetylcysteine on experimentally created L-asparaginase-induced liver and pancreatic damage in rats**
Yurttaş G. N., Özdemir Z. C., Tanrıkuç C., Kar E., Kiraz Z. K., Alataş İ. Ö., Burukoğlu Dönmez D., Bör Ö.
LEUKEMIA & LYMPHOMA, vol.63, pp.1445-1454, 2022 (SCI-Expanded)
- XII. **Effects of metformin on lipopolysaccharide induced inflammation by activating fibroblast growth factor 21**
KAR E., ALATAŞ İ. Ö., ŞAHİNTÜRK V., ÖZ S.
BIOTECHNIC & HISTOCHEMISTRY, vol.97, no.1, pp.44-52, 2022 (SCI-Expanded)
- XIII. **Effects of Curcumin and Boric Acid Against Neurodegenerative Damage Induced by Amyloid Beta (1-42)**

Hacıoğlu C., Kar F., Kar E., Kara Y., Kanbak G.

BIOLOGICAL TRACE ELEMENT RESEARCH, vol.199, no.10, pp.3793-3800, 2021 (SCI-Expanded)

XIV. Evaluation of Total Antioxidant Capacity and Total Oxidant Status of Preterm and Term Breast Milk during the Course of Lactation and within a Nursing Session

Deniz A., AYDEMİR Ö., Sağlık A. C., Sekili Z., KÜSKÜ KIRAZ Z., KAR E., Tekin N.

AMERICAN JOURNAL OF PERINATOLOGY, vol.38, no.03, pp.258-264, 2021 (SCI-Expanded)

XV. Comparison of measured and calculated osmolality levels

Kar E., Kocatürk E., Küskü Kiraz Z., Demiryürek B., Alataş İ. Ö.

CLINICAL AND EXPERIMENTAL NEPHROLOGY, vol.24, no.5, pp.444-449, 2020 (SCI-Expanded)

Articles Published in Other Journals

I. Increased insulin secretion suppresses cortisol levels, exacerbates inflammation and beta-cell dysfunction Increased insulin resistance with cortisol levels and HOMA- beta

KOCATÜRK E., KAR E., Kiraz Z. K., ALATAŞ İ. Ö.

ANNALS OF CLINICAL AND ANALYTICAL MEDICINE, vol.12, pp.365-369, 2021 (ESCI)

II. Insulin resistance and pancreatic beta cell dysfunction are associated with thyroid hormone functions: A cross-sectional hospital-based study in Turkey

KOCATÜRK E., KAR E., Kiraz Z. K., ALATAŞ İ. Ö.

DIABETES & METABOLIC SYNDROME-CLINICAL RESEARCH & REVIEWS, vol.14, no.6, pp.2147-2151, 2020 (ESCI)

III. Effects of conivaptan and mannitol on serum cytokine levels (TNF- α , IL-15 and IL-35) following bilateral carotid artery occlusion

CAN B., ÖZ S., MUSMUL A., ERKMEN T., KAR E., ERDAŞ M., ALATAŞ İ. Ö.

Eurasian Journal of Biological and Chemical Sciences, pp.22-28, 2018 (Peer-Reviewed Journal)

IV. Early Treatment with Metformin Decreases Pancreatic Damage in Rats with LPS Induced Sepsis

Kar E., Alataş İ. Ö., Şahintürk V., Öz S.

Turkish Journal of Life Science, pp.194-199, 2018 (Peer-Reviewed Journal)

Books & Book Chapters

I. Kanserde Biyokimyasal Biyobelirteçler

KAR F., KAR E.

in: KANSER GENETİĞİ VE MOLEKÜLER BİYOLOJİSİ, , Editor, NOBEL AKADEMİK YAYINCILIK, pp.473-489, 2022

II. Vitaminlerin Kanserdeki Rolü: Etki Mekanizmaları

KAR E., KAR F.

in: Güncel Biyokimya Çalışmaları, Yücel Doğan, Editor, Akademisyen, pp.43-54, 2021

Refereed Congress / Symposium Publications in Proceedings

I. BORİK ASİT U251 GLİOBLASTOMA HÜCRE HATTINDA SEMA3A/PLEKSİN A1/NÖROFİLİN 1 SİNYAL YOLAĞI ARACILIĞIYLA OKSİDATİF STRES VE APOPTOZU İNDÜKLER

Kar E., Övenler Z., Kar F., Hacıoğlu C., Koçak F. E.

Uluslararası Biyokimya Kongresi 2022 // 33. Ulusal Biyokimya Kongresi, İzmir, Turkey, 26 - 30 October 2022, vol.47, pp.67-68

II. NCM460 HÜCRE HASARI VE NÖROİNFLAMASYON SIÇAN MODELİNDE GÜÇLÜ PROBİYOTİKLERİN NEFROJENİK VE NÖROPROTEKTİF ETKİSİ: BAĞIRSAK-BEYİN-MİKROBİYOTA EKSENİ

Kar F., Hacıoğlu C., Kar E., Koçak F. E., Kanbak G.

Uluslararası Biyokimya Kongresi 2022 // 33. Ulusal Biyokimya Kongresi, İzmir, Turkey, 26 - 30 October 2022,

vol.47, pp.67-68

- III. **Preclinical Applications of Hexagonal Boron Nitride Nanoparticles: A Cure for Osteoarthritis?**
KAR F., GÖNCÜ Y., KAR E., ÖZBAYER C., AY N., KAVUNCU V.
ULUSLARARASI BOR SEMPOZYUMU, İstanbul, Turkey, 05 October 2022, pp.371-372
- IV. **BORİK ASİTİN SEPSİS KAYNAKLI KARACİĞER HASARI ÜZERİNDEKİ OLASI KORUYUCU YA DA TEDAVİ EDİCİ ETKİLERİ**
Kar E., Kar F., Can B., Güler G., Çakır Gündoğdu A., Özbayer C., Koçak F. E., Şentürk H.
VII. Türkiye in vitro Diyagnostik (IVD) Sempozyumu, Turkey, 27 April 2022
- V. **Güçlü Probiyotikler Semaforin Yolu Üzerinden Nöroinflamasyonu ve Bağırsak-Beyin Eksenindeki Ferroptozu Azaltır**
Kar F., Hacıoğlu C., Kar E., Burukoğlu Dönmez D., Kanbak G.
VII. Türkiye in vitro Diyagnostik (IVD) Sempozyumu, 27 - 29 April 2022
- VI. **Nörodejeneratif hastalıklarda in vitro yöntem: Sinaptozomlar üzerinde toksisite çalışmaları ve vitamin türevi bileşiklerin etki mekanizması**
Kar F., Kar E.
4th International Eurasian Conference on Biological and Chemical Sciences, 24 - 26 November 2021, pp.1-2
- VII. **CONIVAPTAN AND ITS ROLE IN THE INFLAMMATORY PROCESS**
Can B., Kar F., Kar E., Özkoç M., Şentürk H., Kanbak G., Alataş İ. Ö.
Uluslararası Laboratuvar Tıbbı ve XX. Ulusal Klinik Biyokimya Kongresi, 25 - 26 December 2020
- VIII. **THE ASSOCIATION OF ALDOSTERONE-TO-RENIN ACTIVITY RATIO WITH KIDNEY FUNCTION TESTS AND EGFR**
KAR E., CAN B., KAR F., ALATAŞ İ. Ö.
Uluslararası Laboratuvar Tıbbı ve XX. Ulusal Klinik Biyokimya Kongresi, 25 - 26 December 2020
- IX. **INVESTIGATION OF POSSIBLE RELATIONS BETWEEN THYROIDFUNCTIONS AND ALDOSTERONE-TO-RENIN ACTIVITY RATIO**
KAR E., KAR F., CAN B., ALATAŞ İ. Ö.
Uluslararası Laboratuvar Tıbbı ve XX. Ulusal Klinik Biyokimya Kongresi, 25 - 26 December 2020
- X. **NEUROPROTECTIVE EFFECTS OF BORIC ACID ON BRAINAGAINST RENAL ISCHEMIA/REPERFUSION INJURY**
HACIOĞLU C., KAR F., KAR E., KARA Y., ŞENTÜRK H., KANBAK G.
TBD ULUSLARARASI BİYOKİMYAKONGRESİ 201829. ULUSALBİYOKİMYA KONGRESİ, Muğla, Turkey, 26 - 30 October 2018, vol.43
- XI. **Acute antidiabetic activities of aqueous extract of Cistus laurifolius via Metformin on streptozotocin-induced diabetic rats**
Yücel E., Kar F., Kar E., Hacıoğlu C., Kara Y., Şentürk H., Kanbak G.
2nd international plant science and technology congress, Muğla, Turkey, 11 - 14 October 2018
- XII. **The Validity of Serum Osmolality Determinations: Comparison of Measured and Calculated Osmolality Levels**
KAR E., KOCATÜRK E., KÜSKÜ KIRAZ Z., DEMİRYÜREK B., ALATAŞ İ. Ö.
5th EFLM-UEMS European Joint Congress in Laboratory Medicine- Laboratory Medicine at the Clinical Interface, 10 - 13 October 2018
- XIII. **The Effects of Metformin on LPS-Induced Kidney Damage in Rats**
YAVER E., ALATAŞ İ. Ö., ŞAHİNTÜRK V., ÖZ S.
IV. International Congress for Applied Biological Sciences, 3 - 05 May 2018
- XIV. **Levels of serum cytokines (TNF- α , IL-15 and IL-35) after treatments with conivaptan and mannitol following bilateral common carotid artery occlusion**
CAN B., ÖZ S., MUSMUL A., ERKMEN T., KAR E., ERDAŞ M., ALATAŞ İ. Ö.
International Eurasian Conference on Biological and Chemical Sciences(EurasianBioChem 2018), Ankara, Turkey, 26 - 27 April 2018
- XV. **Influence of Metformin on Pancreatic Tissue in Sepsis Model Induced by Lipopolysaccharide in Rats**
YAVER E., ALATAŞ İ. Ö., ŞAHİNTÜRK V., ÖZ S.

1st International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2018), 26 - 27 April 2018

- XVI. **Sıçanlarda L-Asparaginaz ile oluşturulan karaciğer ve pankreas hasarı üzerine N-Asetilsisteinin'in etkisi**
ÖZDEMİR Z. C., YURTTAŞ G., KAR E., TANRIKURT C., KÜSKÜ KIRAZ Z., BÖR Ö.
43. Ulusal Hematoloji Kongresi, Turkey, 1 - 04 November 2017
- XVII. **Investigation of the effect of L-NAME (N-Nitro L-Arginine Methyl Ester) and Vitamin E (α -tocopherol) on oxidative damage of liver tissue resulting from cigarette smoke exposure in male rats**
KARA Y., ERKMEN T., BURUKOĞLU DÖNMEZ D., ÖZ S., HACIOĞLU C., YAVER E., KAR F., Erdaş M., AKYÜZ F.
International Biochemistry Congress - 28th National Biochemistry Congress, 19 - 23 September 2017
- XVIII. **Investigation of The Influence of Metformin and Fibroblast Growth Factor 21(FGF21) In The Control of Inflammation Induced By Lipopolysaccharide (LPS) In Rats**
YAVER E., ALATAŞ İ. Ö., ŞAHİNTÜRK V., ÖZ S.
International Biochemistry Congress - 28th National Biochemistry Congress, 19 - 23 September 2017

Supported Projects

Can B., Kar E., Alataş İ. Ö., Kanbak G., Kar F., Şentürk H., Burukoğlu Dönmez D., Project Supported by Higher Education Institutions, Böbrek İskemi-Reperfüzyon Modeli'nde Conivaptan ve Borik Asit Tedavisinin Uzak-Organ Hasarı Üzerindeki Etkilerinin Araştırılması, 2020 - 2021

Küskü Kiraz Z., Kar E., Uslu S., Kar F., Kocatürk E., Kebapçı M. N., Project Supported by Higher Education Institutions, Oral Glikoz Tolerans Testi Sonrasında Meydana Gelen Değişikliklerin Oksidatif Stres ve Biyokimyasal Parametreler Üzerinden İncelenmesi, 2019 - 2020

Şehitoğlu H., Kar E., Ülker Çakır D., Öztopuz R. Ö., Ovalı M. A., Project Supported by Higher Education Institutions, Septik Sıçanlarda timol tedavisinin böbrek ve akciğer dokuları üzerindeki etkisinin genetik ve biyokimyasal açıdan incelenmesi, 2017 - 2017

Alataş İ. Ö., Kar E., Project Supported by Higher Education Institutions, Ratlarda Lipopolisakkarit(LPS) ile indüklenen inflamasyonun kontrolünde, Metformin ve Fibroblast Growth Faktör 21 (FGF21)'xxin etkisinin incelenmesi, 2016 - 2017

Scientific Refereeing

HUMAN & EXPERIMENTAL TOXICOLOGY, Journal Indexed in SCI-E, August 2021

DIABETES METABOLIC SYNDROME AND OBESITY-TARGETS AND THERAPY, Journal Indexed in ESCI, April 2021

BASIC & CLINICAL PHARMACOLOGY & TOXICOLOGY, SCI Journal, March 2021

HUMAN & EXPERIMENTAL TOXICOLOGY, Journal Indexed in SCI-E, December 2020

HUMAN & EXPERIMENTAL TOXICOLOGY, Journal Indexed in SCI-E, October 2020

HUMAN & EXPERIMENTAL TOXICOLOGY, Journal Indexed in SCI-E, August 2020

HUMAN & EXPERIMENTAL TOXICOLOGY, Journal Indexed in SCI-E, June 2020

JOURNAL OF CLUSTER SCIENCE, SCI Journal, March 2020

Tasks In Event Organizations

Kar F., KAR E., ALZHEIMER HASTALIGININ MOLEKULER TEMELI VE YENI TEDAVI STRATEJILERI SEMPOZYUMU, Scientific Congress, Turkey, Mayıs 2016

Metrics

Publication: 39
Citation (WoS): 26
Citation (Scopus): 24
H-Index (WoS): 3
H-Index (Scopus): 3

Awards

Kar F., Hacıođlu C., Kar E., Burukođlu Dönmez D., Kanbak G., Sözel sunu ikincilik ödülü, Türk Biyokimya Derneđi İzmir Şubesi, April 2022

Kar E., Özdemir Z. C., Yurttaş G., Tanrıkkurt C., Küskü Kiraz Z., Bör Ö., Sözel Sunu Birincilik Ödülü, Türk Pediatrik Hematoloji Derneđi, September 2021

Kar E., Bilimsel Yayın Teşvik Ödülü, Tübitak, July 2021

Kar E., Bilimsel Yayın Teşvik Ödülü, Tübitak, June 2020