

Personal Information

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Education Information

Expertise In Medicine, Ankara University, Tıp Fakültesi, Dahili Tıp Bilimleri Bölümü, Turkey 1987 - 1990

Undergraduate, Ankara University, Tıp Fakültesi, Tıp Pr., Turkey 1978 - 1984

Research Areas

Health Sciences

Academic Titles / Tasks

Professor, Ankara University, Tıp Fakültesi, Dahili Tıp Bilimleri Bölümü, 2001 - Continues

Associate Professor, Ankara University, Tıp Fakültesi, Dahili Tıp Bilimleri Bölümü, 1995 - 2001

Assistant Professor, Ankara University, Tıp Fakültesi, Dahili Tıp Bilimleri Bölümü, 1992 - 1995

Academic and Administrative Experience

Ankara University, 2007 - 2019

Courses

İlaç Hedefi Olarak Santral Sinir Sistemi, Doctorate, 2015 - 2016

Santral Sinir Sistemi Farmakolojisi, Undergraduate, 2015 - 2016, 2014 - 2015

Santral Sinir Sistemi Farmakolojisi, Postgraduate, 2014 - 2015

İlaç Hedefi Olarak Santral Sinir Sistemi, Doctorate, 2014 - 2015

Akılci İlaç Kullanımı, Undergraduate, 2014 - 2015

Santral Sinir Sistemi Farmakolojisi, Doctorate, 2014 - 2015, 2013 - 2014

NÖROFARMAKOLOJİ, Undergraduate, 2013 - 2014

AKILCI İLAÇ KULLANIMI STAJI, Undergraduate, 2013 - 2014

NÖROFARMAKOLOJİDE ÖZEL KONULAR, Doctorate, 2013 - 2014

Advising Theses

- AKARSU E. S., Genç ve yaşlı sıçanlarda bellek oluşumu ve depolanmasının, zaman bağımlı olarak beyin farklı bölgelerinde DNA metilasyonu yönünden incelenmesi, Doctorate, Ç.YAZICI(Student), 2018
- AKARSU E. S., İlk atak ilaç kullanmamış non-afektif psikoz hastalarında uyku ve bilişsel süreçlerin incelenmesi, Doctorate, N.YAZIHAN(Student), 2017
- SAZLI M. H., AKARSU E. S., Deneysel olarak oluşturulan epileptik diken aktivitesinin sinyal işleme metotları ve yapay sinir ağları kullanılarak incelenmesi ve bulguların otonomik ve davranışsal yanıtlarla füzyonu, Doctorate, D.KARAÇOR(Student), 2015
- AKARSU E. S., Investigation of the effects of KML 29, a selective inhibitor of monoacylglycerol lipase (MAGL) on fever induced by lipopolysaccharide (LPS) in rats, Postgraduate, F.ESİN(Student), 2015
- AKARSU E. S., E. coli 0111:B4 ve 055:B5 serotipi lipopolisakaritlerinin sıçanlarda oluşturduğu termoregülatuar ve davranışsal değişikliklerin farmakolojik karakterizasyonu, Expertise In Medicine, M.DEVRİM(Student), 2001

Jury Memberships

- Associate Professor Exam, Associate Professor Exam, Ankara Üniversitesi, December, 2023
- Associate Professor Exam, Associate Professor Exam, Ankara Üniversitesi, April, 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **The investigation of the molecular changes during lipopolysaccharide-induced systemic inflammation on rat hippocampus by using FTIR spectroscopy**
Cakmak-Arslan G., Kaya Y., Mamuk S., AKARSU E. S., Severcan F.
JOURNAL OF BIOPHOTONICS, 2024 (SCI-Expanded)
- II. **INVESTIGATION OF SLEEP AND COGNITIVE FUNCTIONS ON FIRST EPISODE DRUG-NAIVE NON-AFFECTIVE PSYCHOTIC PATIENTS**
Yazihan N., Yetkin S., Kizilay E., Akarsu E. S.
SLEEP MEDICINE, vol.40, 2017 (SCI-Expanded)
- III. **Calcineurin and Reelin Gene Promoter Region Methylation Changes Due to Fear Conditioned Long-Term Memory Formation in Hippocampal And Dorsomedial Prefrontal Cortex Tissues of Young or Aged Rats**
Mutlu C. Y., ÖZTÜRK G., Akarsu E. S., BAYRAK Ö. F., YILMAZ B., Seker B., Suakar O.
ACTA PHYSIOLOGICA, vol.221, pp.43-44, 2017 (SCI-Expanded)
- IV. **Discrete Lissajous Figures and Applications**
Karacor D., Nazlıbilek S., Sazlı M. H., Akarsu E. S.
IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, vol.63, no.12, pp.2963-2972, 2014 (SCI-Expanded)
- V. **Hormonal synchronization of lipopolysaccharide-induced hypothermic response in rats**
Polat H., Mamuk S., Akarsu E. S.
JOURNAL OF ENDOCRINOLOGICAL INVESTIGATION, vol.36, no.10, pp.816-824, 2013 (SCI-Expanded)
- VI. **Seizure susceptibility and electroencephalogram power spectra alterations at various phases of the lipopolysaccharide-induced hypothermic response in biotelemetered rats**
AKARSU E. S., Mamuk S.
Epilepsy Research, vol.100, no.1-2, pp.20-26, 2012 (SCI-Expanded)
- VII. **Nadroparine Blunts Lipopolysaccharide-Induced Hypothermia and Behavioral Depression in Mice**
AKYOL C., Ozis E., ÇAKMAK A., Akarsu E. S., KUZU M. A.
JOURNAL OF INVESTIGATIVE SURGERY, vol.21, no.6, pp.311-317, 2008 (SCI-Expanded)
- VIII. **The elevation of serum tumor necrosis factor (TNF)-alpha and hypothalamic prostaglandin (PG) D2 levels in lipopolysaccharide (LPS)-induced hypothermia in rats: Possible role of cyclooxygenase (COX)-1**

AKARSU E. S., Usanmaz S. E., Mamuk S.

FASEB JOURNAL, vol.22, 2008 (SCI-Expanded)

- IX. **Interleukin-6 levels and HPA axis activation in breast cancer patients with major depressive disorder**
Soygur H., Palaoglu O., Akarsu E. S., Cankurtaran E. S., Ozalp E., Turhan L., Ayhan I. H.
PROGRESS IN NEURO-PSYCHOPHARMACOLOGY & BIOLOGICAL PSYCHIATRY, vol.31, no.6, pp.1242-1247, 2007 (SCI-Expanded)
- X. **Escherichia coli lipopolysaccharides produce serotype-specific hypothermic response in biotelemetered rats**
Akarsu E. S., Mamuk S.
AMERICAN JOURNAL OF PHYSIOLOGY-REGULATORY INTEGRATIVE AND COMPARATIVE PHYSIOLOGY, vol.292, no.5, 2007 (SCI-Expanded)
- XI. **The neuronal excitability time-dependently changes after lipopolysaccharide administration in mice: Possible role of cyclooxygenase-2 induction**
Akarsu E. S., Ozdayi S., Algan E., Ulupinar F.
EPILEPSY RESEARCH, vol.71, no.2-3, pp.181-187, 2006 (SCI-Expanded)
- XII. **Sertraline, escitalopram and tianeptine related abnormal movements but not with bupropion: A case report**
Ozalp E., Soygur H., Cankurtaran E. S., Turhan L., Cekic T., Akarsu E. S., Palaoglu O., Ayhan I. H.
PROGRESS IN NEURO-PSYCHOPHARMACOLOGY & BIOLOGICAL PSYCHIATRY, vol.30, no.7, pp.1337-1339, 2006 (SCI-Expanded)
- XIII. **Variable antipyretic effect of SC-58236, a selective cyclooxygenase (COX)-2 inhibitor, in rats**
AKARSU E. S., Mamuk S., Arat S.
Advances in Experimental Medicine and Biology, vol.525, pp.137-140, 2003 (SCI-Expanded)
- XIV. **Variable antipyretic effect of SC-58236, a selective cyclooxygenase (COX)-2 inhibitor, in rats**
Akarsu E. S., Mamuk S., Arat S.
ADVANCES IN PROSTAGLANDIN, LEUKOTRIENE, AND OTHER BIOACTIVE LIPID RESEARCH: BASIC SCIENCE AND CLINICAL APPLICATIONS, vol.525, pp.137-140, 2003 (SCI-Expanded)
- XV. **Nimesulide and diclofenac inhibit lipopolysaccharide-induced hypothermia and tumour necrosis factor-alpha elevation in rats**
Dogan M., Ataoglu H., Akarsu E. S.
FUNDAMENTAL & CLINICAL PHARMACOLOGY, vol.16, no.4, pp.303-309, 2002 (SCI-Expanded)
- XVI. **Characterization of the hypothermic component of LPS-induced dual thermoregulatory response in rats**
Dogan M., Ataoglu H., Akarsu E. S.
PHARMACOLOGY BIOCHEMISTRY AND BEHAVIOR, vol.72, no.1-2, pp.143-150, 2002 (SCI-Expanded)
- XVII. **Neurotoxic effects of acute and subacute formaldehyde exposures in mice**
Usanmaz S., Akarsu E. S., Vural N.
ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY, vol.11, no.2, pp.93-100, 2002 (SCI-Expanded)
- XVIII. **The possible role of cyclooxygenase (COX) isoenzymes in lipopolysaccharide (LPS)-induced hypothermia and fever in rats**
Akarsu E. S., Dogan M.
FASEB JOURNAL, vol.16, no.5, 2002 (SCI-Expanded)
- XIX. **Effects of selective cyclooxygenase enzyme inhibitors on lipopolysaccharide-induced dual thermoregulatory changes in rats**
Dogan M., Ataoglu H., Akarsu E. S.
BRAIN RESEARCH BULLETIN, vol.57, no.2, pp.179-185, 2002 (SCI-Expanded)
- XX. **Candida albicans and Saccharomyces cerevisiae cell wall mannans produce fever in rats - Role of nitric oxide and cytokines**
Ataoglu H., Dogan M., Mustafa F., Akarsu E. S.
LIFE SCIENCES, vol.67, no.18, pp.2247-2256, 2000 (SCI-Expanded)

- XXI. **Effects of different serotypes of Escherichia coli lipopolysaccharides on body temperature in rats**
Dogan M., Ataoglu H., Akarsu E. S.
LIFE SCIENCES, vol.67, no.19, pp.2319-2329, 2000 (SCI-Expanded)
- XXII. **Effects of chronic ethanol administration on serotonin metabolism in the various regions of the rat brain**
Uzbay I., Usanmaz S., Akarsu E. S.
NEUROCHEMICAL RESEARCH, vol.25, no.2, pp.257-262, 2000 (SCI-Expanded)
- XXIII. **Polysaccharide mannan components of Candida albicans and Saccharomyces cerevisiae cell wall produce fever by intracerebroventricular injection in rats**
Dogan M., Ataoglu H., Ataoglu O., Akarsu E. S.
BRAIN RESEARCH BULLETIN, vol.48, no.5, pp.509-512, 1999 (SCI-Expanded)
- XXIV. **Dopaminergic and serotonergic alterations in the rat brain during ethanol withdrawal: association with behavioral signs**
Uzbay I., Usanmaz S., Tapanyigit E., Aynacioglu S., Akarsu E. S.
DRUG AND ALCOHOL DEPENDENCE, vol.53, no.1, pp.39-47, 1998 (SCI-Expanded)
- XXV. **Formation of interleukin-6 in the brain of the febrile cat: relationship to interleukin-1**
Akarsu E. S., House R., Coceani F.
BRAIN RESEARCH, vol.803, no.1-2, pp.137-143, 1998 (SCI-Expanded)
- XXVI. **Antiischemic effect of ZK-118.182 in rabbits: A comparative study with iloprost**
Akarsu E. S., Keskil S., Kaymaz M., Uysal S., Ceviker N., Ataoglu O., Baykaner K.
METHODS AND FINDINGS IN EXPERIMENTAL AND CLINICAL PHARMACOLOGY, vol.20, no.4, pp.339-342, 1998 (SCI-Expanded)
- XXVII. **Inhibition of pentylentetrazol-induced seizures in rats by prostaglandin D-2**
Akarsu E. S., Mamuk S., CÖMERT A.
EPILEPSY RESEARCH, vol.30, no.1, pp.63-68, 1998 (SCI-Expanded)
- XXVIII. **Effect of ciliary neurotrophic factor on body temperature and cerebrospinal fluid prostanoids in the cat**
Akarsu E. S., Bishai I., Coceani F.
BRAIN RESEARCH BULLETIN, vol.45, no.1, pp.9-14, 1998 (SCI-Expanded)
- XXIX. **Prostaglandin E-2 in the pathogenesis of fever - An update**
Coceani F., Akarsu E. S.
MOLECULAR MECHANISMS OF FEVER, vol.856, pp.76-82, 1998 (SCI-Expanded)
- XXX. **Polysaccharide mannan component of Candida albicans cell wall produces fever by ICV injection in rats**
Ilhan M., Ataoglu H., Ataoglu O., Akarsu E. S.
NAUNYN-SCHMIEDEBERG ARCHIVES OF PHARMACOLOGY, vol.358, no.1, 1998 (SCI-Expanded)
- XXXI. **Antiseizure activity of insulin: Insulin inhibits pentylentetrazole, penicillin and kainic acid-induced seizures in rats**
UYSAL H., Kuli P., Caglar S., Inan L., Akarsu E. S., Palaoglu O., Ayhan I.
EPILEPSY RESEARCH, vol.25, no.3, pp.185-190, 1996 (SCI-Expanded)
- XXXII. **P-4 Behavioral effects of acute and chronic Moclobemide administrations in mice**
AKARSU E. S., Palaolu Ö., Ayhan I.
European Neuropsychopharmacology, vol.6, 1996 (SCI-Expanded)
- XXXIII. **EFFECTS OF FLUMAZENIL ON ETHANOL WITHDRAWAL SYNDROME IN RATS**
UZBAY I., AKARSU E. S., KAYAALP S.
ARZNEIMITTEL-FORSCHUNG/DRUG RESEARCH, vol.45-1, no.2, pp.120-124, 1995 (SCI-Expanded)
- XXXIV. **EFFECTS OF BROMOCRIPTINE AND HALOPERIDOL ON ETHANOL WITHDRAWAL SYNDROME IN RATS**
UZBAY I., AKARSU E. S., KAYAALP S.
PHARMACOLOGY BIOCHEMISTRY AND BEHAVIOR, vol.49, no.4, pp.969-974, 1994 (SCI-Expanded)
- XXXV. **INSULIN INHIBITS PENTYLENETETRAZOLE-INDUCED SEIZURES IN MICE**
UYSAL H., INAN L., AKARSU E. S., KULI P., AKALIN A., PALAOGLU O., YURDAKUL M., AYHAN I.

- NEUROSCIENCE RESEARCH COMMUNICATIONS, vol.14, no.3, pp.141-146, 1994 (SCI-Expanded)
- XXXVI. **BEHAVIORAL-ASSESSMENT OF PINEALECTOMY AND FETAL PINEAL-GLAND TRANSPLANTATION IN RATS .2.**
PALAOGLU S., PALAOGLU O., AKARSU E. S., AYHAN I., OZGEN T., ERBENGI A.
ACTA NEUROCHIRURGICA, vol.128, no.1-4, pp.8-12, 1994 (SCI-Expanded)
- XXXVII. **ILOPROST, A STABLE ANALOG OF PGI(2), POTENTIATES THE HYPERTHERMIC EFFECT OF PGE(2) IN RATS**
AKARSU E. S., AYHAN I.
PHARMACOLOGY BIOCHEMISTRY AND BEHAVIOR, vol.46, no.2, pp.383-389, 1993 (SCI-Expanded)
- XXXVIII. **COMPLEMENT (C3, C4) AND C-REACTIVE PROTEIN RESPONSES TO CARDIOPULMONARY BYPASS AND PROTAMINE ADMINISTRATION**
TULUNAY M., DEMIRALP S., TASTAN S., AKALIN H., OZYURDA U., CORAPCIOGLU T., AKARSU E. S.
ANAESTHESIA AND INTENSIVE CARE, vol.21, no.1, pp.50-55, 1993 (SCI-Expanded)
- XXXIX. **EFFECTS OF INTRACEREBRAL ILOPROST INJECTIONS ON MOTOR-ACTIVITY AND CHEMICALLY-INDUCED SEIZURES IN RATS**
AKARSU E. S., AYHAN I.
METHODS AND FINDINGS IN EXPERIMENTAL AND CLINICAL PHARMACOLOGY, vol.14, no.7, pp.517-522, 1992 (SCI-Expanded)
- XL. **ROLE OF GABAERGIC INHIBITORY MECHANISMS ON THE ANTICONVULSIVE EFFECT OF ILOPROST IN RATS**
AKARSU E. S., AYHAN I.
EUROPEAN JOURNAL OF PHARMACOLOGY, vol.183, no.2, pp.517-518, 1990 (SCI-Expanded)
- XLI. **ILOPROST-INDUCED WRITHING IN MICE AND ITS SUPPRESSION BY MORPHINE**
AKARSU E. S., PALAOGLU O., AYHAN I.
METHODS AND FINDINGS IN EXPERIMENTAL AND CLINICAL PHARMACOLOGY, vol.11, no.4, pp.273-275, 1989 (SCI-Expanded)
- XLII. **Chronic imipramine attenuates morphine analgesia and locomotor activity**
Palaoglu O., AKARSU E. S., Ayhan I.
Neuroscience Research Communications, vol.2, no.2, pp.107-113, 1988 (SCI-Expanded)
- XLIII. **AN UNEXPECTED POTENT POSITIVE CHRONOTROPIC EFFECT OF (15S)-15-METHYL-PROSTAGLANDIN-E1 IN THE ISOLATED GUINEA-PIG RIGHT ATRIA**
UZUN O., AKARSU E. S., TURKER R.
PROSTAGLANDINS LEUKOTRIENES AND MEDICINE, vol.18, no.1, pp.1-7, 1985 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **Investigation of sleep and cognitive functions on first episode drug-naive non-affective psychotic patients**
AKARSU E. S.
World Sleep 2017, 7 - 11 October 2017
- II. **Lipopolysaccharide induced body temperature response varies depending on the site of administration in biotelemetered rats a critical role of tumor necrosis factor**
AKARSU E. S.
. Physiology and Pharmacology of Temperature Regulation, 6th International Meeting., 05 December 2106 - 09 December 2016
- III. **Sleep architecture and neuropsychological profile of first episode drug naive psychotic patients**
AKARSU E. S.
14. Ulusal Sinirbilimi Kongresi, Turkey, 26 - 29 May 2016
- IV. **Pentylentetrazole-induced non-convulsive seizures and hypothermic response in rats: An evaluation for a possible relationship**

Akarsu E. S.

The 5th International Meeting on the Physiology and Pharmacology of Temperature Regulation, Pretoria, South Africa, 7 - 11 September 2014, pp.107

V. **A possible GABA-A receptor mediated mechanism for buspirone-induced hypothermia in rats**

Cenik B., Akarsu E. S.

20th Congress of the European-College-of-Neuropsychopharmacology, Vienna, Austria, 13 - 17 October 2007, vol.17

VI. **Seizure-induced hypothermia in biotelemetered rats**

Akarsu E. S., Mamuk S.

19th Congress of the European-College-of-Neuropsychopharmacology, Paris, France, 16 - 20 October 2006, vol.16

VII. **Lipopolysaccharide (LPS)-induced hypothermia is a regulated and cyclooxygenase (COX)-1 dependent decrease on body temperature in rats**

Akarsu E. S., Dogan M., Mamuk S.

Experimental Biology 2003 Meeting, SAN DIEGO, CALIFORNIA, 11 - 15 April 2003, vol.17

Scientific Refereeing

JOURNAL OF APPLIED PHYSIOLOGY, SCI Journal, June 2023

AMERICAN JOURNAL OF PHYSIOLOGY - CELL PHYSIOLOGY, SCI Journal, December 2022

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