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Education Information

Expertise In Medicine, Cukurova University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, Turkey 1993 - 1996

Foreign Languages

English, B2 Upper Intermediate

Research Areas

Medicine, Human Physiology

Academic Titles / Tasks

Associate Professor, Kocaeli University, Tıp Fakültesi, Temel Tıp Bilimleri, 2014 - Continues

Advising Theses

İlbay G., Genetik Absans Epilepsili Sıçanlarda Adolesan Dönemde Uygulanan Taktik Stimülasyonun Epilepsi ve Depresyon Üzerindeki Etkileri, Postgraduate, U.ERYILMAZ(Student), 2023

İlbay G., Genetik epilepsili WAG/Rij ırkı sıçanlarda alkol tüketiminin ve nöbet özelliklerinin incelenmesi ve wistar ırkı sıçanlarla karşılaştırılması, Postgraduate, Ş.YAVUZ(Student), 2022

İlbay G., Neonatal dönemde kafein uygulanan nöbet modellerinde elektroensefalografik ve davranışsal etkilerinin araştırılması, Postgraduate, Z.İKBAL(Student), 2018

İlbay G., Epilepsili sıçanlarda taktik uyarıların nöroanatomik, davranışsal ve elektrofizyolojik etkilerinin araştırılması, Doctorate, A.BALIKÇI(Student), 2018

Published journal articles indexed by SCI, SSCI, and AHCI

1. **Effects of Adolescent Tactile Stimulation on Epilepsy and Depression in Rats with Genetic Absence Epilepsy**

İLBAY G., Eryılmaz U., Balıkcı A., Guler V. K.

ACTA PHYSIOLOGICA, pp.63, 2023 (SCI-Expanded)

- II. **Use of acellular dermal matrix in peripheral nerve reconstruction: an experimental study on rat sciatic nerve defect.**
Ceran F., Pilanci O., Ozel A., İlbay G., Karabacak R., Kanter M., İlbay K., Kuvat S. V.
Journal of plastic surgery and hand surgery, vol.57, no.1-6, pp.445-452, 2023 (SCI-Expanded)
- III. **Quantifying Neurological Examination in 21(st) Century: Yılmaz- İlbay Plantar Flexion Test, A Novel and Reliable Test for Evaluation of Plantar Flexion in L5-S1 Disc Herniation.**
Yılmaz M., İlbay G., Yılmaz H. E., Ertem O., Erbayraktar S., İlbay K. M.
Neurology India, vol.70, no.Supplement, 2022 (SCI-Expanded)
- IV. **Effects of Postnatal Caffeine Exposure on Absence Epilepsy and Comorbid Depression: Results of a Study in WAG/Rij Rats**
İLBAY G., Dogan Z. I., Balıkcı A., ERDOĞAN S., Kahilogullari A. K.
BRAIN SCIENCES, vol.12, no.3, 2022 (SCI-Expanded)
- V. **Neonatal Tactile Stimulation does not Alter Susceptibility to Pentylenetetrazole (PTZ)-Induced Tonic-Clonic Convulsions in Adult WAG/Rij Rats**
Balıkcı A., İLBAY G.
ACTA PHYSIOLOGICA, vol.234, pp.70, 2022 (SCI-Expanded)
- VI. **Neonatal Tactile Stimulation Downregulates Dendritic Spines in Layer V Pyramidal Neurons of the WAG/Rij Rat Somatosensory Cortex**
İlbay G., Balıkcı A., Köktürk S., Yılmaz M., Ateş N., Baydemir C., Balci S.
Neural plasticity, vol.2022, pp.7251460, 2022 (SCI-Expanded)
- VII. **Spectrochemical and biochemical assay comparison study of the healing effect of the Aloe vera and Hypericum perforatum loaded nanofiber dressings on diabetic wound**
Guleken Z., Depciuch J., Ege H., İLBAY G., Kalkandelen C., ÖZBEYLİ D., Bulut H., Sener G., Tarhan N., Kuruca S. E.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.254, 2021 (SCI-Expanded)
- VIII. **Neonatal Tactile Stimulations Affect Genetic Generalized Epilepsy and Comorbid Depression-Like Behaviors**
Balıkcı A., İlbay G., Ateş N.
FRONTIERS IN BEHAVIORAL NEUROSCIENCE, vol.14, 2020 (SCI-Expanded)
- IX. **Analysis of rat blood plasma upon acute epileptic seizures by infrared spectroscopy with chemometrics**
Turker-Kaya S., İlbay G.
VIBRATIONAL SPECTROSCOPY, vol.109, 2020 (SCI-Expanded)
- X. **The Effects of Neonatal Caffeine Administration on Absence Epilepsy and Brain Tissue Membranes on Adult Wistar - Albino -Glaxo Rijswijk (Wag/Rij) Rats**
Dogan Z. I., İLBAY G., Kaya S. T., Balıkcı A., ATEŞ N.
ACTA PHYSIOLOGICA, vol.225, pp.20, 2018 (SCI-Expanded)
- XI. **The Effects of Neonatal Tactile Stimulation and Deep Touch Pressure on Absence Epilepsy and Comorbid Depression Like Behaviors in Adult Wistar-Albino-Glaxo Rijswijk (Wag/Rij) Rats**
Balıkcı A., İLBAY G., ATEŞ N.
ACTA PHYSIOLOGICA, vol.225, pp.20-21, 2018 (SCI-Expanded)
- XII. **Side-Effects of Convulsive Seizures and Anti-Seizure Therapy on Bone in a Rat Model of Epilepsy**
Ustaoglu S. G., EVİS Z., İLBAY G., Boskey A. L., Severcan F.
APPLIED SPECTROSCOPY, vol.72, no.5, pp.689-705, 2018 (SCI-Expanded)
- XIII. **Prevention of Epineural Fibrosis in Rats by Local Administration of Mitomycin C or Daunorubicin**
Vural E., Yılmaz M., İlbay K., İlbay G.
TURKISH NEUROSURGERY, vol.26, no.2, pp.291-296, 2016 (SCI-Expanded)
- XIV. **Investigation of Compositional, Structural, and Dynamical Changes of Pentylenetetrazol-Induced Seizures on a Rat Brain by FT-IR Spectroscopy**

- Turker S, İLBAY G., Severcan M., Severcan F.
ANALYTICAL CHEMISTRY, vol.86, no.3, pp.1395-1403, 2014 (SCI-Expanded)
- XV. **Epileptic seizures induce structural and functional alterations on brain tissue membranes**
Turker S., Severcan M., İLBAY G., Severcan F.
Biochimica et Biophysica Acta - Biomembranes, vol.1838, no.12, pp.3088-3096, 2014 (SCI-Expanded)
- XVI. **Migration of a Lumbar Rod to Posterior Sacral Region: An Extremely Unusual Complication of Spinal Instrumentation**
İlbay K, Yasa N., İLBAY G., ETUŞ V.
JOURNAL OF NEUROLOGICAL SCIENCES-TURKISH, vol.31, no.1, pp.209-212, 2014 (SCI-Expanded)
- XVII. **Investigation of the effects of different epileptic activities on cell membrane proteins reveals diagnostic information**
Turker S., Severcan M., İlbay G., Severcan F.
AMINO ACIDS, vol.41, 2011 (SCI-Expanded)
- XVIII. **Effect of pentylenetetrazole and sound stimulation induced single and repeated convulsive seizures on the MDA, GSH and NO levels, and SOD activities in rat liver and kidney tissues**
DİLLİOĞLUGİL M. Ö., Kir H., Demir C., İLBAY G., ŞAHİN D., DİLLİOĞLUGİL Ö., Bambal G., Mekik H., ATEŞ N.
BRAIN RESEARCH BULLETIN, vol.83, no.6, pp.356-359, 2010 (SCI-Expanded)
- XIX. **Diagnosis of Airway Obstruction or Restrictive Spirometric Patterns by Multiclass Support Vector Machines**
ŞAHİN D., Ubeyli E. D., İLBAY G., Sahin M., Yasar A. B.
JOURNAL OF MEDICAL SYSTEMS, vol.34, no.5, pp.967-973, 2010 (SCI-Expanded)
- XX. **Recurrent Neural Networks for Diagnosis of Carpal Tunnel Syndrome Using Electrophysiologic Findings**
İlbay K, Ubeyli E. D., İLBAY G., Budak F.
JOURNAL OF MEDICAL SYSTEMS, no.4, pp.643-650, 2010 (SCI-Expanded)
- XXI. **Differentiation of Two Subtypes of Adult Hydrocephalus by Mixture of Experts**
Ubeyli E. D., İlbay K., İLBAY G., ŞAHİN D., AKANSEL G.
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- XXII. **Analysis of spike-wave discharges in rats using discrete wavelet transform**
Ubeyli E. D., İlbay G., ŞAHİN D., ATEŞ N.
COMPUTERS IN BIOLOGY AND MEDICINE, vol.39, no.3, pp.294-300, 2009 (SCI-Expanded)
- XXIII. **Vagus Nerve Stimulation Suppresses Generalized Seizure Activity and Seizure-Triggered Postictal Cardiac Rhythm Changes in Rats**
ŞAHİN D., İLBAY G., İmal M., Bozdoğan O., ATEŞ N.
PHYSIOLOGICAL RESEARCH, vol.58, no.3, pp.345-350, 2009 (SCI-Expanded)
- XXIV. **Immunocytochemistry of neuron specific enolase (NSE) in the rat brain after single and repeated epileptic seizures**
Yardimoglu M., İlbay G., DALÇIK C., DALÇIK H., ŞAHİN D., ATEŞ N.
INTERNATIONAL JOURNAL OF NEUROSCIENCE, vol.118, no.7, pp.981-993, 2008 (SCI-Expanded)
- XXV. **Effects of the adenosinergic neuromodulatory system on absence epilepsy and cerebrovascular permeability**
Sahin D., İlbay G., Ates N.
ACTA PHARMACOLOGICA SINICA, vol.27, pp.112, 2006 (SCI-Expanded)
- XXVI. **Suppression of generalized seizures activity by intrathalamic 2-chloroadenosine application**
Ates N., İlbay G., Sahin D.
EXPERIMENTAL BIOLOGY AND MEDICINE, vol.230, no.7, pp.501-505, 2005 (SCI-Expanded)
- XXVII. **Topical application of mitomycin C prevents epineural scar formation in rats**
İlbay K, Etus V., Yildiz K., İlbay G., Ceylan S.
NEUROSURGICAL REVIEW, vol.28, no.2, pp.148-153, 2005 (SCI-Expanded)
- XXVIII. **Theophylline, a methylxanthine derivative, suppresses absence epileptic seizures in WAG/Rij rats**
Ates N., Sahin D., İlbay G.

- EPILEPSY & BEHAVIOR, vol.5, no.5, pp.645-648, 2004 (SCI-Expanded)
- XXIX. **Changes in blood-brain barrier permeability during hot water-induced seizures in rats**
İlbay G., Sahin D., Ates N.
NEUROLOGICAL SCIENCES, vol.24, no.4, pp.232-235, 2003 (SCI-Expanded)
- XXX. **Changes in the blood-brain barrier permeability and in the brain tissue trace element concentrations after single and repeated pentylentetrazole-induced seizures in rats**
Sahin D., İlbay G., Ates N.
PHARMACOLOGICAL RESEARCH, vol.48, no.1, pp.69-73, 2003 (SCI-Expanded)
- XXXI. **Effects of adenosine administration on spike-wave discharge frequency in genetically epileptic rats.**
İlbay G., Sahin D., Karson A., Ates N.
Clinical and experimental pharmacology & physiology, vol.28, no.8, pp.643-6, 2001 (SCI-Expanded)
- XXXII. **Blood pressure and vascular reactivity to endothelin-1, phenylephrine, serotonin, KCl and acetylcholine following chronic alcohol consumption in vitro**
Utkan T., Yildiz F., İlbay G., Özdemirci S., Erden B. F., Gacar N., Ulak G.
FUNDAMENTAL & CLINICAL PHARMACOLOGY, vol.15, pp.157-165, 2001 (SCI-Expanded)
- XXXIII. **Blood pressure and vascular reactivity to endothelin-1, phenylephrine, serotonin, KCl and acetylcholine following chronic alcohol consumption in vitro**
Utkan T., Yildiz F., İlbay G., Özdemirci S., Erden B. F., Gacar N., Ulak G.
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- XXXIV. **Absence epilepsy and regional blood-brain barrier permeability: The effects of pentylentetrazole-induced convulsions**
Ates N., Esen N., İlbay G.
PHARMACOLOGICAL RESEARCH, vol.39, no.4, pp.305-310, 1999 (SCI-Expanded)

Articles Published in Other Journals

- I. **Evaluation of Ayres Sensory Integration® Intervention on Sensory Processing and Motor Function in a Child with Rubinstein-Taybi Syndrome: A Case Report**
Balıkcı A., May-Benson T. A., Aracık Balıkcı A. F., TARAKCI E., İKbal Dogan Z., İLBAY G.
Clinical Medicine Insights: Case Reports, vol.16, 2023 (ESCI)
- II. **Botulinum Toxin in the Treatment of Lingual Dystonia Induced by Speaking**
BUDAK F., Aydın E., Koçkaya A., İLBAY G.
CASE REPORTS IN NEUROLOGY, no.1, pp.18-20, 2013 (ESCI)
- III. **Light and Electron Microscopic Examinations in the Hippocampus of the Rat Brain Following PTZ Induced Epileptic Seizures. Journal of Applied Biological Sciences**
YARDIMOĞLU YILMAZ M., İLBAY G., KÖKTÜRK S., DURMAZ ONAR F., ŞAHİN D., ALKAN F., DALÇIK H.
Journal of applied Biological Sciences (JABS), vol.1, pp.97-106, 2007 (Peer-Reviewed Journal)
- IV. **Immunohistochemistry of neuron specific enolase NSE in the rat brain after single and repeated pentylentetrazol PTZ induced epileptic seizures**
Yardımoğlu Yılmaz M., İlbay G., Dalçık C., Dalçık H., Şahin D., Ateş N.
5nd National Congress of Neuroscience (V.Ulusal Sinirbilimleri Kongresi, Neuroanatomy Abstract Book, vol.5, pp.23-24, 2006 (Conference Book)
- V. **Light and electron microscopic examinations in the hippocampus of the rat brain following epileptic seizures**
Yardımoğlu Yılmaz M., İlbay G., Köktürk S., Durmaz Onar F., Şahin D., Alkan F., Dalçık H.
5nd National Congress of Neuroscience (V.Ulusal Sinirbilimleri Kongresi, Neuroanatomy Abstract Book, vol.5, pp.24, 2006 (Scopus)
- VI. **Effects of granulocyte colony stimulating factor g csf on neutrophil phagocytosis during experimental obstructive jaundice**
ALDEMİR B., İLBAY G., ŞAHİN D., DÜLGER M.

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VII. **Effects of granulocyte colony-stimulating factor (g-csf) on neutrophil phagocytosis during experimental obstructive jaundice.**

Aldemir B., Canturk Z., Ilbay G., Sahin D., Dulger M.

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VIII. **TEK VE TEKRARLANAN PENTİLENTETRAZOL DOZLARIYLA OLUŞTURULAN KONVULSİYONLARDA EPİLEPTİK AKTİVİTE VE KAN-BEYİN ENGELİ PERMEABİLİTE DEĞİŞİKLİKLERİNİN ARAŞTIRILMASI**

İlbay G., Ateş N., Şahin D., Esen N., Karson A.

Epilepsi, vol.3, pp.11-15, 1997 (ESCI)

IX. **Steroids for the spinal cord injuries Spinal kord travmalarında steroidler**

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SENDROM, vol.9, no.7, pp.45-48, 1997 (Scopus)

Books & Book Chapters

I. **Acute Epileptic Seizures Induce Significant Alterations in Proteins Of Hippocampus Region: Evidence From Infrared Spectroscopic Analysis**

TÜRKER KAYA S., İLBAY G.

in: New Trends in Science and Mathematics, Prof.Dr. Hüsniye SAĞLIKER, Editor, Duvar Publishing, İzmir, pp.281-298, 2022

II. **Neonatal Caffeine Administration Causes Biomolecular Alterations in Cerebellum Brain Region in Epileptic Rats**

Şentürk D., TÜRKER KAYA S., İLBAY G.

in: INSAC Academic Studies on Natural and Engineering Sciences, Ruşen Aydın, Yıldız Sadık, Editor, Gece Kitaplığı, Ankara, pp.171-186, 2021

III. **Comparative Analysis of Different Regions of Rat Brain Tissue by FT-IR Spectroscopy**

TÜRKER KAYA S., Dağcı K., Yıldırım D., Şentürk D., İLBAY G.

in: ADVANCES IN HEALTH AND NATURAL SCIENCES, , Editor, NOVA Science Publishers Inc. , pp.183-190, 2019

IV. **The Blood-Brain Barrier and Epilepsy**

İLBAY G., DALÇIK C., YARDIMOĞLU YILMAZ M., DALÇIK H., UBEYLİ E. D.

in: Epilepsy Histological Electroencephalographic and Psychological Aspects, Dejan Stevanovic, Editor, www.intechopen.com, Rijeka, 2012

V. **Histological, Electroencephalographic and Psychological Aspects. Cellular and Molecular Mechanisms Underlying Epilepsy: An Overview with Our Findings**

YARDIMOĞLU YILMAZ M., İLBAY G., DALÇIK C., DALÇIK H., KÖKTÜRK S.

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VI. **Spectral Analysis Methods for Spike-Wave Discharges in Rats with Genetic Absence Epilepsy**

Übeyli E. D., İlbay G., Şahin D.

in: Recent Advances in Biomedical Engineering, Ganesh R Naik, Editor, InTech, Shanghai, pp.595-620, 2009

Refereed Congress / Symposium Publications in Proceedings

I. **Wag/Rij Ve Wistar Erkek Ratlarda Adolesan Dönemde Alkol Tüketimi Ve Tercihlerinin Karşılaştırılması**

Yılmaz Ş. Y., İlbay G.

UTSAK, Ankara, Turkey, 25 - 26 December 2021, pp.3-4

II. **Sıçanlarda Epinöral Yapışıklığın Önlenmesinde Kafeik Asit Fenetil Ester (CAPE)'in Etkilerinin**

Araştırılması

KAYA N. S., GENÇ M. H., İLBAY G., YAPRAK BAYRAK B., YARDIMOĞLU YILMAZ M., İLBAY M. K.

CHIARI MALFORMASYONLARI E ISSN 2148-0842 SPİNAL KÖKENLİ BEL VE BACAK AĞRISI SEMPOZYUMU, İstanbul, Turkey, 27 June 2021, vol.3, pp.61

- III. **INFRARED IMAGING OF HIPPOCAMPUS AND CORTEX BRAIN REGIONS OF RATS UPON EPILEPTIC SEIZURES**
TÜRKER KAYA S., İLBAY G., HUCK C.
IV. INTERNATIONAL ISTANBUL SCIENTIFIC RESEARCH CONGRESS, İstanbul, Turkey, 2 - 04 April 2021, vol.1, pp.233-234
- IV. **Analysis of rat blood plasma after acute epileptic seizures by infrared spectroscopy**
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IV. International Scientific and Vocational Studies-Science and Health, Turkey, 7 - 10 November 2019
- V. **6 Aylık Wistar Ve WAG/Rij (Absans Epilepsili) sıçanların beyin bokularının FT-IR spektroskopisi ile karşılaştırılması olarak incelenmesi**
DAĞCI K., İLBAY G., TÜRKER KAYA S.
24. Ulusal Biyoloji kongresi, Turkey, 10 - 14 September 2018
- VI. **Kafeinin Sıçan Beyni Hipokampus Ve Serebellum Bölgelerinde Meydana Getirdiği Moleküler Değişikliklerin FT-IR Spektroskopisiyle İncelenmesi**
Şentürk D., Türker-Kaya S., İlbay G.
24. Ulusal Biyoloji Kongresi, Manisa, Turkey, 10 September 2018, pp.119
- VII. **Tonik-klonik epileptik nöbetlerin sıçan sağ ve sol beyin hemisferlerindeki etkilerinin FT-IR spektroskopisi ile incelenmesi**
Yıldırım D., Türker-Kaya S., İlbay G.
24. Ulusal Biyoloji Kongresi, Manisa, Turkey, 10 September 2018, pp.113
- VIII. **Neonatal tactile stimulation changes dendritic spine densities in the somatosensory cortex and spike-wave seizures in adult WAG/Rij rats with genetic predisposition to absence epilepsy (P054-C.07 Epilepsy-part I). Abstract 1841 C065.**
BALIKÇI A., İLBAY G., KÖKTÜRK S., YARDIMOĞLU YILMAZ M., AKBAL S.
11th FENS Forum of Neuroscience (FENS 2018), Berlin, Germany, 7 - 11 July 2018, pp.1-2
- IX. **SCIATALGIA CAUSED BY EPIDURAL AIR AFTER EXTRADURAL SPINAL MASS EXCISION: A CASE REPORT**
MALÇOK Ü. A., ÇAKLILI M., İLBAY G., İLBAY M. K.
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- X. **Investigation of Age-Related Effects of Absence Seziures: an FTIR study**
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International Conference on Biochemistry and Molecular Biology, Munich, Germany, 3 - 05 April 2017
- XI. **Investigation of the effects of different epileptic activities on cell membrane proteins reveals diagnostic information**
Turker S., Severcan M., İlbay G., Severcan F.
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- XII. **The side-effects of convulsive epileptic seizures and Carbamazepine therapy on bone tissues of genetically-induced epileptic rats: An FTIR imaging and biomechanical study**
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- XIII. **Genetik Olarak İndüklenmiş Epilepsinin Moleküler Etkilerin FTIR spektroskopisi ile İncelenmesi**
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- XIV. **Discrete Wavelet Transform for Analysis of Spike-Wave Discharges in Rats**
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- XV. **Sıçanlarda epileptik nöbetleri takiben hippokampusta ışık ve elektron mikroskopik incelemeler**
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- XVI. **Tek ve tekrarlayan dozlarda pentylenetetrazol PTZ ile uyarılan epileptik nöbetlerden sonra sıçan beyinde nöron spesifik enolaz NSE immunohistokimyası**
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- XVII. **The investigation of early molecular consequences of chemically induced epileptic activity**
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vol.47, pp.234
- XVIII. **An FTIR approach to investigate molecular changes induced by epilepsy**
TÜRKER KAYA S., ATEŞ N., İLBAY G., güneş z., Kara N., SEVERCAN F.
WSEAS TRANSACTIONS on BIOLOGY and MEDICINE, Greece, 20 - 22 September 2005, vol.2, pp.355-358
- XIX. **Epilepsinin hücre membranı üzerine etkisi**
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IV. Ulusal Sinirbilimleri Kongresi, Turkey, 29 March 2005, vol.4, pp.6-7
- XX. **Epilepside Beyin Hasarının Histolojik Olarak İncelenmesi**
YARDIMOĞLU YILMAZ M., İLBAY G., ŞAHİN D.
V. Anatomi Kongresi, Antalya, 1999, Antalya, Turkey, 25 - 30 October 1999

Supported Projects

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İLBAY G., YILMAZ Ş. Y., Project Supported by Higher Education Institutions, Kafein ve Etanol Kullanımının Genetik Absans Epilepsili Sıçanlarda Nöbet ve Davranış Üzerine Etkilerinin Araştırılması, 2021 - 2022

İLBAY M. K., İLBAY G., GENÇ M. H., YARDIMOĞLU YILMAZ M., KAYA N. S., Project Supported by Higher Education Institutions, SIÇANLARDA EPİNÖRAL YAPIŞIKLIĞIN ÖNLENMESİNDE KAFEİK ASİT FENETİL ESTER İN (CAPE) ETKİLERİNİN ARAŞTIRILMASI, 2019 - 2021

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