VOLUME | ISSUE | YEAR | 46 | 3 | 2022 | ISSN 1300-0128 • E-ISSN 1303-6181

TURKISH JOURNAL OF VETERINARY & ANIMAL SCIENCES

http://journals.tubitak.gov.tr/veterinary/



TURKISH JOURNAL OF VETERINARY AND ANIMAL SCIENCES

Editor-in-Chief Assistant Editor-in-Chief Mehmet BAŞALAN, Kırıkkale University, Turkey Nuh KILIÇ, Aydın Adnan Menderes University, Turkey Betül Zehra SARIÇİÇEK Ankara University, Turkey

VOLUME 46 • ISSUE 3 • 2022 ISSN 1300-0128 • E-ISSN 1303-6181

SCOPE OF JOURNAL

- The Turkish Journal of Veterinary and Animal Sciences is published electronically 6 times a year by the Scientific and Technological Research Council of Turkey (TÜBİTAK).
- Accepts English-language manuscripts on all aspects of veterinary medicine and animal sciences.
- Contribution is open to researchers of all nationalities.
- Original research articles, review articles, short communications, case reports, and letters to the editor are welcome.
- Manuscripts related to economically important large and small farm animals, poultry, equine species, aquatic species, and bees, as well as companion animals such as dogs, cats, and cage birds, are particularly welcome.
- Contributions related to laboratory animals are only accepted for publication with the understanding that the subject is crucial for veterinary medicine and animal science.
- Manuscripts written on the subjects of basic sciences and clinical sciences related to veterinary medicine, nutrition, and nutritional diseases, as well as the breeding and husbandry of the above-mentioned animals and the hygiene and technology of food of animal origin, have priority for publication in the journal.
- A manuscript suggesting that animals have been subjected to adverse, stressful, or harsh conditions or treatment will
 not be processed for publication unless it has been approved by an institutional animal care committee or the equivalent thereof.
- The editor and the peer reviewers reserve the right to reject papers on ethical grounds when, in their opinion, the severity of experimental procedures to which animals are subjected is not justified by the scientific value or originality of the information being sought by the author(s).

EDITORIAL BOARD

- Ahmet ÜNVER, Çanakkale Onsekiz Mart University, Turkey
- Armağan HAYIRLI, Atatürk University, Turkey
- Asım KART, Mehmet Akif Ersoy University, Turkey
- Attila Karsi, Mississippi State University, U.S.A.
- Bozena OBMINSKA-MRUKOWICZ, Wroclaw University of Environmental and Life Sciences, Poland
- Ercan KURAR, Necmettin Erbakan University, Turkey
- Fredric N. OWENS, Pioneer HiBred Int Inc, U.S.A.
- Haja KADARMIDEEN, University of Copenhagen, Denmark
- Hasan ÖZEN, Kafkas University, Turkey
- Huitao FAN, Purdue University, U.S.A.
- İbrahim DEMİRKAN, Afyon Kocatepe University, Turkey
- İbrahim KÜRTÜL, Karabük University, Turkey
- Kadir KIZILKAYA, Adnan Menderes University, Turkey
- Krysztof LUTNICKI, University of Life Sciences in Lublin, Poland
- Margarita TERENTJEVA, Latvia University of Agriculture, Latvia

- Mehmet AKBULUT, Selçuk University, Turkey
- Mehmet ÇALICIOĞLU, Fırat University, Turkey
- Mehmet KURAN, Ondokuz Mayıs University, Turkey
- Mehmet Ulaş ÇINAR, Erciyes University, Turkey
- Murat YILDIRIM, Kırıkkale University, Turkey
- Mustafa ARICAN, Selçuk University, Turkey
- Mustafa SAATCI, Muğla Sıtkı Koçman University, Turkey
- Necmettin ÜNAL, Ankara University, Turkey
- Nuri ALTUĞ, Namık Kemal University, Turkey
- Roberto DAVOLI, University of Bologna, Italy
- Sedat YILDIZ, İnönü University, Turkey
- Sema BİRLER, İstanbul University, Turkey
- Siyami KARAHAN, Kırıkkale University, Turkey
- Şükrü Metin PANCARCI, Balıkesir University, Turkey
- Zafer SOYGÜDER, Yüzüncü Yıl University, Turkey

ABSTRACTED AND INDEXED

- Science Citation Index Expanded
- Scopus
- Academic Search Complete

CONTENTS

Effects of rumen-protected methionine and lysine on milk yield and milk composition in Holstein dairy cows consuming a corn grain and canola meal-based diet
Effect of kefir consumption on intestinal microbiota and some blood parameters in Angora cats
The effects of biological and health characteristics of dogs on intraindividual variability of blood parameters 385 Sandra NIKOLIĆ, Branislava BELIĆ, Marko CINCOVIĆ, Nikolina NOVAKOV, Nada PLAVŠA, Sara SAVIĆ
Effect of feed supplementation with effective microorganisms (em) bokashi on hepatopancreas and gut histology, growth performance, and survival rate of freshwater crayfish <i>Pontastacus leptodactylus</i> (Eschscholtz, 1823) 396 Hasan Batuhan Emre ÖZDOĞAN, Seval BAHADIR KOCA, Özlem ÖZMEN, Kamil EKİNCİ, Emine EKİNCİ, Habil Uğur KOCA, Nalan ÖZGÜR YİĞİT
Comparison of low-level laser and dimethyl sulfoxide applications for the treatment of tendon injury in rabbits 403 Kardelen CEYDELİOĞLU, Gültekin ATALAN, Duygu YAMAN GRAM, Gökçen PERK
Topical formulations based on polyhexamethylene hydrochloride guanidine for surgical field antisepsis
Comparison of M, MM and LTS estimators in linear regression in the presence of outlier
Determining the genetic diversity of silkworm lines in Turkey
The in vitro effect of hypochlorous acid-metal nanoparticles combination on Salmonella under different temperature
conditions
Determination of the morphometric characteristics of donkey (<i>Equus asinus</i>) populations reared in Turkey 445 Eser Kemal GÜRCAN, Serdar GENÇ, Selçuk KAPLAN, Fulya ÖZDİL, Emel ÖZKAN ÜNAL, Hasan BULUT, Selen YATKIN, Sezen ARAT, Mehmet İhsan SOYSAL
Investigating genetic diversity of Indonesian native cattle breeds using mitochondrial DNA 16S rRNA gene 457 Restu MISRIANTI, Sony Hartono WIJAYA, Cece SUMANTRI, Jakaria JAKARIA
Occurrence of some pathogenic bacteria in cattle feed samples before and after invasion by European starlings 465 Özcan ŞAHİN, Talha DEMİRCİ, Saim BOZTEPE, İbrahim AYTEKİN, İsmail KESKIN, Uğur ZÜLKADİR
Forage turnip (<i>Brassica rapa</i>) harvested in different phases of vegetative stage and ensiled with the additives of molasses and barley and the effects of additives on silage quality, in vitro digestibility, and energy content
The molecular prevalence of <i>Borrelia burgdorferi</i> , Babesia spp., and <i>Anaplasma</i> spp. in shelter dogs of the Thrace
Region in Turkey
Genetic variation at the <i>OLR1</i> , <i>ANXA9</i> , <i>MYF5</i> , <i>LTF</i> , <i>IGF1</i> , <i>LGB</i> , <i>CSN3</i> , <i>PIT1</i> , <i>MBL1</i> , <i>CACNA2D1</i> , and <i>ABCG2</i> loci in Turkish Grey Steppe, Anatolian Black, and East Anatolian Red cattle

Investigation of IgG, vimentin, CD45 distribution, and density in mouse placenta at different periods of pregnancy5 Seçil KOÇ, Şadiye KUM	05
Effects of dietary insect (<i>Ephestia kuehniella</i>) egg meal on growth performance and fatty acid profile of common carp (<i>Cyprinus carpio</i>)	17
Monensin induces apoptosis in the liver tissue and primary hepatocytes of chicks	25
A biological perspective on interpreting interaction effect	35
Do horses learn how to reach for feed depending on the time of day?	43