



ATATURK UNIVERSITY PUBLICATIONS

# Veterinary Sciences and Practices

*Formerly:* Atatürk University Journal of Veterinary Sciences Official journal of Atatürk University Veterinary Sciences

Volume 19 • Issue 3 • December 2024

# Veterinary Sciences and Practices

#### Editor-in-Chief Mustafa Sinan AKTAS<sup>®</sup> Department of Internal Medicine, Atatürk University, Faculty of Veterinary Medicine, Erzurum, Türkiye

# **Associate Editors**

Hakan AYDIN<sup>D</sup> Department of Virology, Atatürk University, Faculty of Veterinary Medicine, Erzurum, Türkiye

Murat GENÇ<sup>®</sup> Department of Zootechnics, Atatürk University, Faculty of Veterinary Medicine, Erzurum, Türkiye

Uğur ÖZENTÜRK Department of Zootechnics, Atatürk University, Faculty of Veterinary Medicine, Erzurum, Türkiye

Kerim Emre YANAR Department of Veterinary Internal Medicine, Atatürk University, Faculty of Veterinary Medicine, Erzurum, Türkiye

## **Statistical Editor**

Ekrem LAÇİN<sup>®</sup> Department of Zootechnics, Atatürk University, Faculty of Veterinary Medicine, Erzurum, Türkiye

## Foreign Language Editor

Uğur ÖZENTÜRK Department of Zootechnics, Atatürk University, Faculty of Veterinary Medicine, Erzurum, Türkiye

#### **Layout Editor**

Muhammed Sertaç EROĞLU Department of Internal Medicine, Atatürk University, Faculty of Veterinary Medicine, Erzurum, Türkiye **Advisory Board** 

Mustafa ALİŞARLI Department of Food Hygiene and Technology, Bolu Abant İzzet Baysal University, Faculty of Veterinary Medicine, Bolu, Türkiye

Mustafa ATASEVER Department of Food Hygiene and Technology, Atatürk University, Faculty of Veterinary Medicine, Erzurum, Türkiye

Aleksandra GORECKA-BRUZDA Department of Animal Behavior, Polish Academy of Sciences, Institute of Genetics and Animal Biotechnology, Warsaw, Poland

Zekai HALICI Department of Medical Pharmacology, Atatürk University, Faculty of Veterinary Medicine, Erzurum, Türkiye

Ardita JAHJA-HOXHA Department of Food Business, Savonia University of Applied Sciences, Kosovo

Tanvir RAHMAN Department of Microbiology and Hygiene, Bangladesh Agricultural University, Bangladesh

Eva VOSLÁŘOVÁ Department of Animal Protection and Welfare and Veterinary Public Health, Veterinary and Pharmaceutical Sciences University, Czech Republic

Daniel ZAHNER Faculty of Veterinary Medicine, Justus Liebig University Giessen, Giessen, Germany



# Contact (Editor in Chief)

Mustafa Sinan AKTAŞ Department of Internal Medicine, Atatürk University, Faculty of Veterinary Medicine, Erzurum, Türkiye vetdergisi@atauni.edu.tr trefter://dergipark.org.tr/en/pub/vetsci Contact (Publisher)

Atatürk University Atatürk University, Erzurum, Turkey ataunijournals@atauni.edu.tr https://bilimseldergiler.atauni.edu.tr

**\*** +90 442 231 15 16

# Veterinary Sciences and Practices

# ABOUT

Veterinary Sciences and Practices is a peer-reviewed, open access, online-only journal published by Atatürk University.

Veterinary Sciences and Practices is published triannually in Turkish and English, with issues released in April, August, and December. Beginning on October 17, 2023, Veterinary Sciences and Practices will exclusively consider articles in English. However, Turkish abstracts will still be included in English articles alongside the English abstracts. A language editor will be responsible for translating the English abstracts of accepted papers into Turkish.

Journal History As of 2022, the journal has changed its title to Veterinary Sciences and Practices.

Current Title Veterinary Sciences and Practices EISSN: 2822-3608

Previous Title (2006-2021) Atatürk Üniversitesi Veteriner Bilimleri Dergisi ISSN: 1306-6137 EISSN: 2147-9615

Veterinary Sciences and Practices currently indexed in Scopus, DOAJ, EBSCO, EMBASE, CABI, CAS Abstract, CAS, China National Knowledge Infrastructure (CNKI) and TUBITAK ULAKBIM TR Index.

Veterinary Sciences and Practices aims to publish studies of the highest scientific level in all fields of veterinary medicine.

Veterinary Sciences and Practices is a comprehensive journal dedicated to the field of Veterinary Medicine and relevant Departments, i.e., Basic Veterinary Sciences (Anatomy, Biochemistry, Pshysiology, Histology, Occupational/Professional Ethics and Deontology), Preclinical Veterinary Sciences (Pharmacology and Toxicology, Microbiology, Parasitology, Pathology, Virology), Clinical Veterinary Sciences (Surgery, Internal Medicine, Animal Obstetrics and Gynecology, Reproduction and Artificial Insemination), Animal Science and Nutritional Sciences (Biostatistics, Genetics, Animal Nutrition and Nutritional Disorders, Animal Enterprises Economy, Animal Science), Animal-Originated Food Hygiene and Technology, with exotic animal science and laboratory animals. The primary focus of the journal is to publish original research that addresses significant clinical inquiries and contributes to the advancement of knowledge and treatment of veterinary conditions. The scope of the journal includes studies on the efficacy of different treatment modalities, innovative diagnostic tools or techniques, and novel approaches to the prevention and management of diverse veterinary diseases and injuries. Veterinary Sciences and Practices aims to foster the dissemination of high-quality research that can enhance the well-being and healthcare of animals, promote animal welfare, and improve the overall practice of veterinary sciences.

Veterinary Sciences and Practices publishes clinical and basic research articles, review articles, systematic reviews articles, and case reports.

The target audience of the journal includes specialists and professionals working and interested in all disciplines of veterinary medicine.

#### **Open Access Statement**

Veterinary Sciences and Practices is an open access publication.

Starting on April 2022, all content published in the journal is licensed under the Creative Commons Attribution-NonCommercial (CC BY-NC) 4.0 International License which allows third parties to use the content for non-commercial purposes as long as they give credit to the original work. This license allows for the content to be shared and adapted for non-commercial purposes, promoting the dissemination and use of the research published in the journal.

The content published before April 2022 was licensed under a traditional copyright, but the archive is still available for free access.

All published content is available online, free of charge at https://dergipark.org.tr/en/pub/vetsci.

You can find the current version of the Instructions to Authors at https://dergipark.org.tr/en/pub/vetsci.

# Veterinary Sciences and Practices

# **CONTENTS / İÇİNDEKİLER**

# **RESEARCH ARTICLES / ARAȘTIRMA MAKALELERİ**

- 124 Investigation of the Effect of Wheat and Corn Gluten on Inflammation, Transglutaminase, Gliadin and IgA Levels in Healthy Rat Intestines Sağlıklı Rat Bağırsaklarında Buğday ve Mısır Gluteninin İnflamasyon, Transglutaminaz, Gliadin ve IgA Düzeyleri Üzerine Etkisinin Araştırılması Aybüke İmik, Ceren Gezer, Kübra Asena Terim Kapakin
- 132 The Research of Effectiveness of Parvulyte Gel® in Dogs with Parvoviral Enteritis Parvoviral Enteritisli Köpeklerde Parvulyte Jelin® Etkinliğinin Araştırılması Derya Kamçıcı, Sercan Hüseyin Bayendur, Abuzer Acar
- **140** Investigation of Oxidative Stress Parameters in Cattle Infected with *Mycobacterium avium subsp. Paratuberculosis*

Mycobacterium avium subsp. paratuberculosis ile Enfekte Sığırlarda Oksidatif Stres Parametrelerinin İncelenmesi Sena Çenesiz, Büşra Şahin, Yunus Kılıçoğlu, Volkan Yılmaz, Rahşan Akpınar

148The Relationship Between Lipid Profile, Oxidative Stress, and Thiol-Disulfide Levels in Healthy, Naturally<br/>Overweight and Obese Cats

Doğal Olarak Kilo Alan veya Obezite Gelişen Kedilerde Lipid Profili, Oksidatif Stres ve Tiyol-Disülfür Düzeyleri Arasındaki İlişkiler *Efe Kurtdede, Nisa Taşkın, Emre Salih İspir, Erman Gülendağ* 

155 The Effects of a Diet Containing Yoghurt with Krill Oil Consumed by Rats During Their Pregnancy on Long Bones of Their Offspring

Ratların Gebelik Döneminde Tükettikleri Krill Yağlı Yoğurt İçeren Diyetin Yavrularının Uzun Kemikleri Üzerindeki Etkisi İftar Gürbüz, Zeki Erol, Yasin Demiraslan, Ayşe Nur Özen, Halil Yalçın

164 Evaluation of Animal Welfare in Dairy farms in Kars Province for Barn and Breeding Conditions Kars İli Süt Sığırcılığı İşletmelerinde Hayvan Refahının Barınak ve Yetiştirme Şartları Açısından Değerlendirilmesi Ayşe Ceco, Kadir Önk

## **REVIEW / DERLEME**

174 Biochemical Processes During Cheese Ripening Peynir Olgunlaşmasında Biyokimyasal Olaylar Mustafa Atasever, Halit Mazlum

## **CASE REPORT / OLGU SUNUMU**

183 Contracaecum rudolphii Hartwich, 1964 (Nematoda: Anisakidae) in a white pelican (Pelecanus onocrotalus) in Türkiye Türkiye'de bir beyaz pelikanda (Pelecanus onocrotalus) Contracaecum rudolphii Hartwich, 1964 (Nematoda: Anisakidae)

Mustafa Köse, Mustafa Volkan Yaprakçı, Mehmet Fatih Bozkurt

187 Reviewers List / Hakem Listesi