



ISTANBUL UNIVERSITY
CERRAHPAŞA



ACTA VETERINARIA EURASIA

Formerly Journal of the Faculty of Veterinary Medicine İstanbul University
Official Journal of İstanbul University-Cerrahpaşa Faculty of Veterinary Medicine

VOLUME: 49 ISSUE: 1

23



actavet.org

EISSN 2619-905X

ACTA VETERINARIA EURASIA

Formerly Journal of the Faculty of Veterinary Medicine İstanbul University

Editorial Management

Editor in Chief

Serhat ALKAN

Department of Reproduction and Artificial Insemination, İstanbul University-Cerrahpaşa, Faculty of Veterinary Medicine, İstanbul, Turkey
ORCID ID: 0000-0003-4741-1416

Editors

Ali AYDIN

Department of Food Hygiene and Technology, İstanbul University-Cerrahpaşa, Faculty of Veterinary Medicine, İstanbul, Turkey
ORCID ID: 0000-0002-4931-9843

Atila ATEŞ

Department of Biochemistry, İstanbul University-Cerrahpaşa, Faculty of Veterinary Medicine, İstanbul, Turkey
ORCID ID: 0000-0002-9013-930X

Bülent EKİZ

Department of Animal Breeding and Husbandry, İstanbul University-Cerrahpaşa, Faculty of Veterinary Medicine, İstanbul, Turkey
ORCID ID: 0000-0001-6458-5747

Gülcan DEMİREL

Department of Animal Nutrition and Nutritional Diseases, İstanbul University-Cerrahpaşa, Faculty of Veterinary Medicine, İstanbul, Turkey
ORCID ID: 0000-0002-6864-5134

İsmail KIRŞAN

Department of Obstetrics and Gynecology, İstanbul University-Cerrahpaşa, Faculty of Veterinary Medicine, İstanbul, Turkey
ORCID ID: 0000-0003-0780-0118

Hüseyin YILMAZ

Department of Virology, İstanbul University-Cerrahpaşa, Faculty of Veterinary Medicine, İstanbul, Turkey
ORCID ID: 0000-0002-7897-2358

Karlo MURATOĞLU

Department of Food Hygiene and Technology, İstanbul University-Cerrahpaşa, Faculty of Veterinary Medicine, İstanbul, Turkey
ORCID ID: 0000-0001-8705-6813

O. B. Burak ESENER

Department of Histology and Embryology, İstanbul University-Cerrahpaşa, Faculty of Veterinary Medicine, İstanbul, Turkey
ORCID ID: 0000-0001-9444-3598

Özge TURNA

Department of Obstetrics and Gynecology, İstanbul University-Cerrahpaşa, Faculty of Veterinary Medicine, İstanbul, Turkey
ORCID ID: 0000-0002-7638-0519

İstanbul Üniversitesi-Cerrahpaşa Veteriner Fakültesi adına sahibi / Owner on behalf of the İstanbul University-Cerrahpaşa Faculty of Veterinary Medicine: Güven Kaşıkçı • Sorumlu Yazı İşleri Müdürü / Responsible Manager: Serhat Alkan • Yayın türü / Publication Type: Yerel süreli / Local Periodical • Basım yeri / Printed at: Hamdiogulları İç ve Dış Ticaret A.Ş. Zübeyde Hanım Mah. Elif Sokak No.7/197 Altındağ, Ankara, Türkiye. Tel: +90 (542) 695 77 60 • Basım tarihi / Printing Date: Eylül 2022 / September 2022



Founder
İbrahim Kara

General Manager
Ali Şahin

Publishing Directors
İrem Soysal
Gökhan Çimen

Editor
Bahar Albayrak

Publications Coordinators
Arzu Arı
Deniz Kaya
Irmak Berberoğlu
Alara Ergin
Hira Gizem Fidan
İrem Özmen

Web Coordinators
Sinem Fehime Koz
Doğan Oruç

Finance Coordinator
Elif Yıldız Çelik

Contact
Address: Büyükdere Cad.
105/9 34394 Mecidiyeköy, Şişli,
İstanbul, TURKEY
Phone: +90 212 217 17 00
E-mail: info@avesyayincilik.com

ACTA VETERINARIA EURASIA

Formerly Journal of The Faculty of Veterinary Medicine İstanbul University

Editorial and Advisory Board

Altay USSENBAYEV

Faculty of Veterinary Medicine, S. Seifullin Kazakh Agro Technical University, Astana, Kazakhstan

Anton GERILOVICH

National Scientific Center 'Institute of Experimental and Clinical Veterinary Medicine', Kharkov, Ukraine

Eduardo BERRIATUA

Department of Animal Health Murcia, University of Murcia, Spain

Georgios FTHENAKIS

University of Thessaly, School of Health Sciences, Faculty of Veterinary Science, Department of Obstetrics and Reproduction, Karditsa, Greece

Gianluca NEGLIA

Department of Animal Science and Food Hygiene, Faculty of Veterinary Medicine, University of Naples Federico II, Naples, Italy

Giuseppe CAMPANILE

Department of Animal Science and Food Hygiene, Faculty of Veterinary Medicine, University of Naples Federico II, Naples, Italy

Jurgen A. RICHT

Department of Diagnostic Medicine/Pathobiology, Kansas State University, USA

Kamil BOSTAN

Department of Gastronomy and Culinary Arts, İstanbul Aydın University, İstanbul, Turkey

Melih AKSOY

Department of Reproduction and Artificial Insemination, Adnan Menderes University, Aydın, Turkey

Munir IQBAL

The Pirbright Institute, Avian Viral Diseases Programme, UK

Mustafa HASÖKSÜZ

Department of Virology, İstanbul University-Cerrahpaşa, Faculty of Veterinary Medicine, İstanbul, Turkey

Nasko VASILEV

Department of Obstetrics, Reproduction and Reproductive Disorders, Veterinary Faculty University of Trakia, Bulgaria

Nikos PAPAIOANNOU

Department of Pathology, Faculty of Veterinary Medicine, Aristotle University of Thessaloniki, Greece

Rao Zahid ABBAS

Department of Parasitology, University of Agriculture Faisalabad, Pakistan

Rizah AVDIC

University of Sarajevo, Faculty of Veterinary Medicine, Bosnia and Herzegovina

Sema BİRLER

Department of Reproduction and Artificial Insemination, İstanbul University-Cerrahpaşa, Faculty of Veterinary Medicine, İstanbul, Turkey

Stanimir YOTOV

Department of Obstetrics, Reproduction and Reproductive Disorders- Faculty of Veterinary Medicine, Trakia University, Bulgaria

ACTA VETERINARIA EURASIA

Formerly Journal of The Faculty of Veterinary Medicine İstanbul University

Aims and Scope

Acta Veterinaria Eurasia (Acta Veterinaria Eurasia) is an international, scientific, open access periodical published in accordance with independent, unbiased, and double-blinded peer-review principles. The journal is the official publication of İstanbul University-Cerrahpaşa Faculty of Veterinary Medicine and published three times a year (January, May and September). The publication language of the journal is English.

Acta Veterinaria Eurasia (Acta Veterinaria Eurasia) aims to contribute to the literature by publishing manuscripts at the highest scientific level on all fields of veterinary medicine. The journal publishes original articles, reviews, case reports, short communications, and letters to the editor that are prepared in accordance with the ethical guidelines.

The scope of the journal covers all animal species including the topics related to basic and clinical veterinary sciences, livestock breeding and husbandry, veterinary genetics, animal nutrition and nutritional diseases, zoonoses, veterinary medicinal products and public health, and food hygiene and technology.

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

The editorial and publication processes of the journal are shaped in accordance with the guidelines of the International Committee of Medical Journal Editors (ICMJE), World Association of Medical Editors (WAME), Council of Science Editors (CSE), Committee on Publication Ethics (COPE), European Association of Science Editors (EASE), and National Information Standards Organization (NISO). The journal is in conformity with the Principles of Transparency and Best Practice in Scholarly Publishing (doaj.org/bestpractice).

Acta Veterinaria Eurasia is currently indexed in Web of Science-Emerging Sources Citation Index, Web of Science-Zoological Records, Scopus, DOAJ, Embase, Gale, Proquest, AgBiotechNet, Animal Breeding Abstracts, Animal Science Database, CAB Abstracts, Dairy Science Abstract, Helminthological Abstracts, Index Veterinarius, Nutrition Abstracts and Reviews Series B: Livestock Feeds, Nutrition and Food Database, Parasitology Database, Poultry Abstracts, Review of Medical and Veterinary Mycology, Tropical Diseases Bulletin, Veterinary Bulletin, VetMed Resource, China National Knowledge Infrastructure (CNKI) and TUBITAK ULAKBİM TR Index.

All expenses of the journal are covered by the of İstanbul University-Cerrahpaşa Faculty of Veterinary Medicine. Processing and publication are free of charge with the journal. No fees are requested from the authors at any point throughout the evaluation and publication process. All manuscripts must be submitted via the online submission system, which is available at actavet.org. The journal guidelines, technical information, and the required forms are available on the journal's web page.

Statements or opinions expressed in the manuscripts published in the journal reflect the views of the author(s) and not the opinions of the İstanbul University-Cerrahpaşa Faculty of Veterinary Medicine, editors, editorial board, and/or publisher; the editors, editorial board, and publisher disclaim any responsibility or liability for such materials.

Acta Veterinaria Eurasia is an open access publication and the journal's publication model is based on Budapest Open Access Initiative (BOAI) declaration. Journal's archive is available online, free of charge at (<https://actavet.org/>). Authors retain the copyright of their published work in Acta Veterinaria Eurasia, but transfer the commercial rights to the journal. The journal's content is licensed under a [Creative Commons Attribution-NonCommercial (CC BY-NC) 4.0 International License] which permits third parties to share and adapt the content for non-commercial purposes by giving the appropriate credit to the original work. The commercial use of the content is subject to the permission of the journal.

You can find the current version of the Instructions to Authors at <https://actavet.org/>

Editor in Chief: Serhat Alkan

Address: İstanbul University-Cerrahpaşa Faculty of Veterinary Medicine, 34320 Avcılar, İstanbul, Turkey

Phone: +90 (212) 473 70 70/17260

Fax: +90 (212) 473 72 40

E-mail: actavet@istanbul.edu.tr

Publisher: İstanbul University-Cerrahpaşa

Address: Üniversite Mahallesi, Bağlarıçi Caddesi No: 7, İstanbul, Turkey

Publishing Service: AVES

Address: Büyükdere Caddesi, 105/9 34394 Şişli, İstanbul, Turkey

Phone: +90 212 217 17 00

E-mail: info@avesyayincilik.com

Web: www.avesyayincilik.com

Contents

1 Acknowledgement of Reviewers

Original Articles

6 Helminth Contamination of Commonly Consumed Raw Vegetables in Sivas Province in the Central Part of Turkey: First Molecular Detection of Human Pathogenic *Toxocara canis* Eggs in Raw Vegetables

Ufuk EROL, Kürşat ALTAY, Ömer Faruk ŞAHİN, Osman Furkan URHAN

13 Effects of Cholecalciferol Levels on Productive Traits, Egg Quality, and Blood Biochemistry in Late-Phase Laying Hens

Muhammad SABIR, Javid IQBAL, Sohail Hassan KHAN, Muhammad SHARIF, Muhammad ASHRAF, Zia-Ur REHMAN

19 Docosahexaenoic and Oleic Acid Dissimilarly Modulate Lipid Metabolism of Immature and Already Mature Adipocytes in Vitro

Zhenya IVANOVA, Natalia GRIGOROVA, Ekaterina VACHKOVA, Tanya TACHEVA, Ivan Penchev GEORGIEV

26 Prevalence, Antimicrobial Resistance, and Virulence Determinants of Enterococci in Poultry in Nsukka, Enugu State, Nigeria

Gladys Chinelo EZEH, Akwoba Joseph OGUGUA, Madubuike Umunna ANYANWU, Olajoku Jokotola AWOYOMI, John Anaelom NWANTA

36 Retrospective Study of Cystic Echinococcosis (2016–2020) in the Federation of Bosnia and Herzegovina

Zarema OBRADOVIC, Muhamed KATICA, Abdullah MUFTIC, Hadzan KONJO, Alisa SMAJOVIC, Enisa SLJIVO

44 Online Education Experiences of Veterinary Medicine Students and Effect on Students' Burnout

Nurşen ÖZTÜRK, Bülent EKİZ, Halil İbrahim KILIÇ, Mustafa ÖZCAN

Short Communication

55 A Preliminary Study of Evaluation of the Role of Interleukin-1 β (IL-1 β) and Effects on Post-Treatment in Goats Experimentally Induced for Mannheimiosis

Fathin FAAHIMAAH ABDUL HAMID, Mohd FARHAN HANIF REDUAN, Jasni SABRI, Faez FIRDAUS JESSE ABDULLAH, Mohammed NAJI ODHAH, Nur ATHIRAH BINTI ABDUL MANAF, Mohd JEFRI NORSIDIN, Siti NOR CHE YAHYA, Intan NOOR AINA KAMARUZAMAN, Abd RAHMAN AZIZ, Nur ZUL IZZATI MOHD RAJDI

Case Report

58 Surgical Correction of Carpal Valgus Deformity with Transphyseal Staple in a Goat Kid

Yusuf ALTUNDAĞ, Ebuderda GÜNAY, Serhat ÖZSOY