



EURASIAN JOURNAL OF VETERINARY SCIENCES

Volume:38 Issue:3 September 2022 pp: 137-205

Selçuk Üniversitesi Veteriner Fakültesi
Alaeddin Keykubat Yerleşkesi 42075, Konya / TÜRKİYE
Tel: +90.332.223 26 78 Fax: +90.332.241 00 63
www.eurasianjvetsci.org

pISSN 1309-6958 / eISSN 2146-1953

EURASIAN JOURNAL OF VETERINARY SCIENCES

www.eurasianjvetsci.org



EURASIAN JOURNAL OF VETERINARY SCIENCES

Volume: 38 Issue: 3

September 2022 pp:137-205

Published by Selçuk University Faculty of Veterinary Medicine

pISSN 1309-6958
eISSN 2146-1953



İÇİNDEKİLER

ARAŞTIRMA MAKALELERİ

Harun Kizilay, Ahmet Levent Bas, Nuray Yazihan

- 137-142 Nerium oleander'in liyofilize distilatinin hipokolesterolik etkinliğinin değerlendirilmesi

Mustafa Hitit, Mehmet Kose

- 143-149 Östrus siklusu ve erken gebelikte koyun endometriyumunda DNA metiltransferazların (DNMT) mRNA düzeyinde expresyonu

Mehmet Burak Ates, Ozgur Ozdemir, Ali Erdem Ozturk, Mustafa Numan Bucak, Aysegul Bulut1

- 150-158 Doktorubisin uygulanan ratlarda timokinon ve resveratrolün karaciğer üzerine etkilerinin histopatolojik olarak değerlendirilmesi

Mustafa Cellat, Muhammed Etmeyer

- 159-167 Ratlarda doktorubisin ile oluşturulan akut kardiyotoksisite üzerine tyrosolün etkinliğinin araştırılması

**Kurtulus Parlak, Semih Altan, Simten Yesilmen Alp, Eyup Tolga Akyol, Elgin Orcum Uzunlu,
Nuriza Zamirbekova, Fahrettin Alkan**

- 168-172 Laparotomi yapılan kedilerde bakteriyel translokasyonun değerlendirilmesi

Serdar Guler, Emre Arslan, Muhammet Mucahit Sari, Orhan Cetin

- 173-179 Farklı tüy renklerindeki Japon bildircinlerında büyümeye eğrisi özelliklerinin doğrusal olmayan modeller ile karşılaştırılması

**Mucahit Kahraman, Ismail Demircioglu, Gulsah Gungoren, Ozan Gundemir, Ermis Ozkan, Aydin Das,
Bestami Yilmaz2**

- 180-189 İvesi koyunların morfolojik özellikleri ile metapodial radiometrik ölçümler arası ilişkilerin belirlenmesi

Ufuk Kaya, Dogukan Ozen, Murat Onur Yazlik, Selim Kosem, Ismayil Safa Gurcan

- 190-198 Köpekler ile sahipleri arasındaki ilişkilerin değerlendirilmesi; kedi/köpek sahibi ilişki ölçüğünün Türkçe çevirisi, güvenirlik ve geçerlik çalışması

Saadet Ozen Akarca Dizakar, Murside Ayse Demirel

- 199-205 Deneysel kolit modelinde koenzim q10' nun intestinal mukoza ve sıkı bağlantı proteinleri üzerine olan etkisinin histopatolojik olarak incelenmesi



CONTENTS

RESEARCH ARTICLE

Harun Kizilay, Ahmet Levent Bas, Nuray Yazihan

- 137-142 Evaluation of the hypocholesterolemic efficacy of lyophilized Nerium oleander distillate

Mustafa Hitit, Mehmet Kose

- 143-149 Expression of DNA methyltransferases (DNMTs) at mRNA level in ovine endometrium during estrus cycle and early pregnancy

Mehmet Burak Ates, Ozgur Ozdemir, Ali Erdem Ozturk, Mustafa Numan Bucak, Aysegul Bulut1

- 150-158 Histopathological evaluation of the effects of thymoquinone and resveratrol on the liver in rats administered doxorubicin

Mustafa Cellat, Muhammed Etmeyez

- 159-167 Investigation of the efficacy of tyrosol on doxorubicin-induced acute cardiotoxicity in rats

**Kurtulus Parlak, Semih Altan, Simten Yesilmen Alp, Eyup Tolga Akyol, Elgin Orcum Uzunlu,
Nuriza Zamirbekova, Fahrettin Alkan**

- 168-172 Evaluation of bacterial translocation in cats undergoing laparotomy

Serdar Guler, Emre Arslan, Muhammet Mucahit Sari, Orhan Cetin

- 173-179 Comparison of growth curves with non-linear models in Japanese quails of different plumage color

**Mucahit Kahraman, Ismail Demircioglu, Gulsah Gungoren, Ozan Gundemir, Ermis Ozkan, Aydin Das,
Bestami Yilmaz2**

- 180-189 Determination of the correlations between the morphological characteristics and metapodial radiometric measurements of Awassi sheep

Ufuk Kaya, Dogukan Ozen, Murat Onur Yazlik, Selim Kosem, Ismayil Safa Gurcan

- 190-198 Evaluation of relationships between dogs and owners: the Turkish translation, reliability and validity study of cat/dog owner relationship scale (C/DORS)

Saadet Ozen Akarca Dizakar, Murside Ayse Demirel

- 199-205 Histopathological investigation of the effect of coenzyme q10 on intestinal mucosa and tight junction proteins in experimental colitis model



Eurasian Journal of Veterinary Sciences

Eurasian J Vet Sci
pISSN 1309-6958
eISSN 2146-1953

www.eurasianvetsci.org

This journal has been indexed and abstracted by following data bases

Bu dergi aşağıdaki veri tabanları tarafından indekslenmektedir.

TUBITAK - ULAKBIM - YAŞAM BİLİMLERİ

WEB OF SCIENCE-Zoological Records

ISI-International Scientific Indexing

Index Copernicus

CAB Abstracts

Veterinary Bulletin

EBSCO - HOST Databases

Türkiye Atif Dizini

Veterinary Science Database

Index Veterinarius

Dairy Science Abstracts

Animal Breeding Abstracts

Agricultural Engineering Abstracts

Global Health

World Agricultural Economics and Rural Sociology Abstracts

Forest Products Abstracts

Grasslands and Forage Abstracts

Helminthological Abstracts

Rural Development Abstracts

Soils and Fertilizers

Soybean Abstracts

Sugar Industry Abstracts

Tropical Diseases Bulletin

Wheat, Barley and Tritacale Abstracts

Maize Abstracts

Google Scholar

Crossref

**SELÇUK ÜNİVERSİTESİ VETERİNER FAKÜLTESİ YAYINIDIR.
PUBLISHED BY SELCUK UNIVERSITY, FACULTY OF VETERINARY MEDICINE**



Eurasian Journal of Veterinary Sciences

www.eurasianvetsci.org

Eurasian Journal of Veterinary Sciences is published quarterly by the Faculty of Veterinary Medicine, Selcuk University, and has international and national reviewers

Owner on behalf of the Faculty of Veterinary Medicine
Prof. Dr. Seyfullah Haliloglu (Dean)

Address:
Eurasian Journal of Veterinary Sciences
Selçuk Üniversitesi Veteriner Fakültesi
Alaeddin Keykubat Kampüsü, 42075
Konya / TÜRKİYE
Tel: +90 332 223 26 78
Fax: +90 332 241 00 63
www.eurasianjvetsci.org
email: ejvs@selcuk.edu.tr

This journal was published until 2010 as titled:
Selçuk Üniversitesi Veteriner Fakültesi Dergisi /The
Journal of the Faculty of Veterinary Medicine
University of Selcuk

Veteriner Bilimleri Dergisi
The Journal of Veterinary Sciences
(Former ISSN: 1011-2057)

Aim and Scope

All aspects of Veterinary and Animal Sciences
© Copyright: All rights are reserved.

EDITORIAL BOARD

Prof. Cafer TEPELI, Selcuk University, Faculty of Veterinary Medicine, Konya, TURKEY

Assoc. Prof. Mustafa Agah TEKINDAL, Izmir Katip Celebi University, Faculty of Medicine, Izmir, TURKEY

Assoc. Prof. M. Bahadir CEVRIMLI, Selcuk University, Faculty of Veterinary Medicine, Konya, TURKEY

Assoc. Prof. Hasan ALKAN, Selcuk University, Faculty of Veterinary Medicine, Konya, TURKEY

Research Assistant, Zekeriya Safa INANC, Editorial Office, Selcuk University, Faculty of Veterinary Medicine, Konya, TURKEY

38, 3 ISSUE EDITOR

Assoc. Prof. M. Bahadir CEVRIMLI, Selcuk University, Faculty of Veterinary Medicine, Konya, TURKEY

Articles Design Editor

Assoc. Prof. M. Bahadir CEVRIMLI

Pressed Date: September 2022

pISSN 1309-6958

eISSN 2146-1953



ADVISORY BOARD

**Wittek Thomas, Dipl.ECBHM Univ.-Prof.
Dr.med.vet.**

Wien Veterinary Medicine University,
Wien, AUSTRIA

Muammer ELMAS, Prof.

Selcuk University, Faculty of Veterinary
Medicine, Konya, TURKEY

Bernd HOFFMANN, Dr. med. vet. Prof.

Justus-Liebig-Universitat, Giessen, GER-
MANY

Ana Maria Bravo Del MORAL, Prof.

Compostela University, Veterinary Faculty,
Lugo, SPAIN

Mehmet CALICIOGLU, Prof.

Firat University, Faculty of Veterinary Med-
icine, Elazig, TURKEY

Enver Yazar, Prof.

Selcuk University, Faculty of Veterinary
Medicine, Konya, TURKEY

Elizabeth SANTIN, Prof.

Parana Federal University, Veterinary Med-
icine, Curitiba, BRASIL

Aykut OZDARENDELI, Prof.

Erciyes University Faculty of Veterinary
Medicine, Kayseri, TURKEY

David BENNETT, DVM

Glasgow University, Faculty of Veterinary
Medicine, Glasgow, SCOTLAND

**Guillermo COUTO, DVM, diplomate
ACVIM**

Ohio State University, Faculty of Veterinary
Medicine, Columbus, USA

Almuth EINSPANIER, Prof.

Leipzig University, Faculty of Veterinary
Medicine, Leipzig, GERMANY

Hafez Mohamed HAFEZ, DVM

Freie University, Faculty of Veterinary
Medicine, Berlin, GERMANY

Laeeq Akbar LODHI, Prof.

University of Agriculture, Faculty of Veteri-
nary Science, PAKISTAN

Fouad Kasim MOHAMMAD, Prof.

Mosul University College of Veterinary
Medicine, Mosul, IRAQ

Heiner NIEMANN, Prof.

Institute of Friederich Löffler, Mariensee,
GERMANY

Sandra GOERICKE-PESCH, Prof.

Copenhagen University, Vet Reprod,
Frederiksberg, DENMARK

Clive Julian Christie PHILIPS, Prof.
Queensland University, School of Veterinary Sci-
ence, AUSTRALIA

Giovanni RE, Prof.
University of Turin, Faculty of Veterinary Medi-
cine, Turin, ITALY

William W. THATCHER, Prof.
University of Florida, Department of Animal Sci-
ences FL, USA

John Bauer, DVM, PhD
Texas A&M University

Thomas Brown, DVM
University of Georgia

Helio Autran de Moraes, DVM, PhD, DACVIM
University of Wisconsin

Ray Dillon, DVM, MS, MBA, DACVIM
Auburn University

Art Donovan, DVM, MSc
University of Florida

Peter Erickson, DVM
University of New Hampshire

Scott Fitzgerald, DVM, PhD, DACVP, DACPV
Michigan State University

Richard B. Ford, Prof.
North Carolina State University

Franklyn Garry, DVM, MS
Colorado State University

Claudio Genchi, Prof.
Università degli Studi di Milano

Marco A. Gioso, DVM, DDS, MSc, PhD, DAVDC
Universidade de Sao Paulo

David Halverson, DVM
University of Minnesota

Don J. Harris, DVM
Avian & Exotic Animal Medical Center

Cheri Johnson, DVM, MS, DACVIM
Michigan State University

**Sandeep Kumar Sharma, Ph.D., M.V.Sc., B.V.Sc.
& A.H.**
Rajasthan University of Veterinary and Animal
Sciences

Lutz S. Göhring, DVM, MS, PhD, Dipl. ACVIM
Ludwig Maximilians University Munich, Munich,
Germany

Kevin H. Kline, PhD
University of Illinois at Urbana-Champaign,
Champaign, Illinois, United States

Meike Mevissen, DVM, PhD
University of Berne

Matthew W. Miller, DVM, MS, DACVIM
Texas A&M

Rebecca Morton, DVM, MS, PhD, DACVM
Oklahoma State University

Ken Nordlund, DVM
University of Wisconsin

Linda Ross, DVM, MS, DACVIM
Tufts University

Gary Smith, MA(Oxon), MA, PhD
University of Pennsylvania

Markos Tibbo, DVM
International Livestock Research Institute

Thomas Tobin, MVB, MSc, PhD, MRCVS, DABT
University of Kentucky

Paul Walz, DVM, MS, PhD, DACVIM
Kansas State University

Marco A. Alvarenga, DVM, PhD
University of Sao Paulo, São Paulo, Brazil

Christine Aurich, DVM, PhD, Dipl. ECAR
Vienna University for Veterinary Medicine Arti-
ficial Insemination and Embryo Transfer De-
partment for Small Animal and Horses, Vienna,
Austria

**Willem Back, DVM, PhD, Dipl. ECVS, Spec. Eq.
Surg. (Neth.)**
Utrecht University, Utrecht, Netherlands

Linda A. Dahlgren, DVM, PhD, Dipl. ACVS
Virginia-Maryland Regional College of Veteri-
nary Medicine, Blacksburg, Virginia, United
States

**Thomas J. Divers, DVM, Dipl. ACVECC &
ACVIM**
Cornell University, Ithaca, NY, United States

**Bernd Driessen, DVM, VMD, Dipl. ECVPT &
ACVA**
University of Pennsylvania, Philadelphia, PA,
United States

Sue Dyson, VetMB, PhD, FRCVS
Animal Health Trust, Newmarket, United King-
dom

Guilherme C. Ferraz, DVM, PhD
University of Sao Paulo, São Paulo, Brazil

Patrick M. McCue, DVM, PhD, Dipl. ACT
Colorado State University, Fort Collins, CO, Unit-
ed States



Kenneth H. McKeever, PhD, FACSM
Rutgers The State University of New Jersey,
New Brunswick, NJ, United States

Nathalie Kirschvin, DVM, PhD
University of Liege

Meike Mevissen, DVM, PhD
University of Berne

Matthew W. Miller, DVM, MS, DACVIM
Texas A&M

Rebecca Morton, DVM, MS, PhD, DACVM
Oklahoma State University

Ken Nordlund, DVM
University of Wisconsin

Linda Ross, DVM, MS, DACVIM
Tufts University

Gary Smith, MA(Oxon), MA, PhD
University of Pennsylvania

Markos Tibbo, DVM
International Livestock Research Institute

Thomas Tobin, MVB, MSc, PhD, MRCVS, DABT
University of Kentucky

Paul Walz, DVM, MS, PhD, DACVIM
Kansas State University

Marco A. Alvarenga, DVM, PhD
University of Sao Paulo, São Paulo, Brazil

Christine Aurich, DVM, PhD, Dipl. ECAR
Vienna University for Veterinary Medicine
Artificial Insemination and Embryo Transfer Department for Small Animal and Horses, Vienna, Austria

Willem Back, DVM, PhD, Dipl. ECVS, Spec. Eq. Surg. (Neth.)
Utrecht University, Utrecht, Netherlands

Linda A. Dahlgren, DVM, PhD, Dipl. ACVS
Virginia-Maryland Regional College of Veterinary Medicine, Blacksburg, Virginia, United States

Thomas J. Divers, DVM, Dipl. ACVECC & ACVIM
Cornell University, Ithaca, NY, United States
Bernd Driessen, DVM, VMD, Dipl. ECVPT & ACVA
University of Pennsylvania, Philadelphia, PA, United States

Sue Dyson, VetMB, PhD, FRCVS
Animal Health Trust, Newmarket, United Kingdom

Guilherme C. Ferraz, DVM, PhD
University of Sao Paulo, São Paulo, Brazil

Lutz S. Göhring, DVM, MS, PhD, Dipl. ACVIM
Ludwig Maximilians University Munich, Munich, Germany

Kevin H. Kline, PhD
University of Illinois at Urbana-Champaign, Champaign, Illinois, United States

Patrick M. McCue, DVM, PhD, Dipl. ACT
Colorado State University, Fort Collins, CO, United States

Kenneth H. McKeever, PhD, FACSM
Rutgers The State University of New Jersey, New Brunswick, NJ, United States

Annamaria Nagy, Dr, MedVet, PhD Dip ACVSMR FRCVS
Animal Health Trust, United Kingdom

Manabu Nemoto, DVM, PhD
Japan Racing Association, Equine Research Institute, Tochigi, Japan

Brian D. Nielsen, PhD, PAS, Dipl. ACAN
Michigan State University, East Lansing, Michigan, United States

Martin K. Nielsen, DVM, PhD, Dipl. EVPC
University of Kentucky, Lexington, KY, United States

Barbara Padalino, DVM, PhD
University of Bologna Department of Agri-Food Sciences and Technologies, Bologna, Italy

Giuseppe Piccione, DVM
University of Messina, Messina, Italy

Chris W.W. Rogers, MAgriSci, PhD
Massey University, Wellington, New Zealand

Yan Ruofeng, PhD
Nanjing Agricultural University, Nanjing, China

Harold C. Schott II, DVM, PhD, DACVIM
Michigan State University, East Lansing, Michigan, United States

John Schumacher, DVM, Dipl. ACVIM & AVBP
Auburn University, Auburn, AL, United States

Micaela Sgorbini, DVM, PhD
University of Pisa, Pisa, Italy

Donald L. Thompson Jr, PhD
Louisiana State University, Baton Rouge, LA, United States

Peter Timoney, MVB, MS, PhD, Dipl. FRCVS
University of Kentucky, Lexington, KY, United States

Dirk K. Vanderwall, DVM, PhD, Dipl. ACT
Utah State University, Logan, UT, United States

Marcus G. Doherr, Dr. med. vet. PhD, Dipl. ECPH
Department (Faculty) of Veterinary Medicine
Institute for Veterinary Epidemiology and Biostatistics, Freie Universität Berlin

Mustafa ARICAN, Prof.
Selcuk University, Faculty of Veterinary Medicine, Konya, TURKEY

Ömer BEŞALTI, Prof.
Ankara University, Faculty of Veterinary Medicine, Ankara, TURKEY

İlhami CELIK, Prof.
Selcuk University, Faculty of Veterinary Medicine, Konya, TURKEY

Suat ERDOGAN, Prof.
Trakia University, Faculty of Medicine, Edirne, TURKEY

Osman ERGANIS, Prof.
Selcuk University, Faculty of Veterinary Medicine, Konya, TURKEY

Abdullah ERYAVUZ, Prof.
Afyon Kocatepe University, Faculty of Veterinary Medicine, Afyon, TURKEY

Ahmet GUMEN, Prof.
Uludag University, Faculty of Veterinary Medicine, Bursa, TURKEY

Mustafa HASOKSUZ, Prof.
Istanbul University, Faculty of Veterinary Medicine, Istanbul, TURKEY

Armagan HAYIRLI, Prof.
Ataturk University, Faculty of Veterinary Medicine, Erzurum, TURKEY

Suleyman KAPLAN, Prof.
Ondokuz Mayis University, Faculty of Medicine, Samsun, TURKEY

Ertugrul KILIC, Prof.
Medipol University, Faculty of Medicine, Istanbul, TURKEY

Ali Reha Agaoglu, Prof.
Mehmet Akif Ersoy University, Faculty of Veterinary Medicine, Burdur, TURKEY

Hıdır Gençoğlu, Associate Prof.
Uludağ University, Faculty of Veterinary Medicine, Bursa, TURKEY

Hasan Batmaz, Prof.
Uludağ University, Faculty of Veterinary Medicine, Bursa, TURKEY

Haluk Çelik, Prof.
Ankara University, Faculty of Veterinary Medicine, Ankara, TURKEY

**Ebru Onbaşilar, Prof.**

Ankara University, Faculty of Veterinary Medicine, Ankara, TURKEY

Alev Gürol Bayraktaroglu, Prof.

Ankara University, Faculty of Veterinary Medicine, Ankara, TURKEY

Mehmet Borga Tırpan, Associate Prof.

Ankara University, Faculty of Veterinary Medicine, Ankara, TURKEY

Turan Civelek, Prof.

Afyon Kocatepe University, Faculty of Veterinary Medicine, Afyon, TURKEY

Tahir Karaşahin, Associate Prof.

Aksaray University, Faculty of Veterinary Medicine, Aksaray, TURKEY

Şükrü Tonbak, Prof.

Firat University, Faculty of Veterinary Medicine, Elazığ, TURKEY

Mustafa Atasever, Prof.

Atatürk University, Faculty of Veterinary Medicine, Erzurum, TURKEY

Seyda Cengiz, Associate Prof.

Atatürk University, Faculty of Veterinary Medicine, Erzurum, TURKEY

Şinasi Umer, Prof.

Ondokuz University, Faculty of Veterinary Medicine, Samsun, TURKEY

Bülent Ekiz, Prof.

İstanbul-Cerrahpaşa University, Faculty of Veterinary Medicine, İstanbul, TURKEY

Halis Oguz, Prof.

Selcuk University, Faculty of Veterinary Medicine, Konya, TURKEY