

# Second International Congress on Biological and Health Sciences **Abstract Book**

ONLINE 24-25-26-27 FEBRUARY 2022

ISBN: 978-605-71368-0-0













ONLINE 24-25-26-27 FEBRUARY 2022

# SECOND INTERNATIONAL CONGRESS ON BIOLOGICAL AND HEALTH SCIENCES ABSTRACT BOOK

This work is subject to copyright and all rights reserved, whether the whole or part of the material is concerned. The right to publish this book belongs to Second International Congress on Biological and Health Sciences-2022. No part of this publication may be translated, reproduced, stored in a computerized system, or transmitted in any form or by any means, including, but not limited to electronic, mechanical, photocopying, recording without written permission from the publisher. This Abstract Book has been published as an electronic publication (e-book). The publisher is not responsible for possible damages, which may be a result of content derived from this electronic publication.

All authors are responsible for the contents of their abstracts.

https://www.biohealthcongress.com/(biohealthcongress@gmail.com)

### **Editor**

Ulaş ACARÖZ

Published: 15/03/2022 ISBN: 978-605-71368-0-0



ONLINE 24-25-26-27 FEBRUARY 2022

### **Editor's Note**

The first 'International Congress on Biological and Health Sciences' was organized online and free of charge. We are very happy and proud that various health sciencerelated fields attended the congress. By this event, the distinguished and respected scientists came together to exchange ideas, develop and implement new researches and joint projects. There were 23 invited speakers from 11 different countries and also more than 400 submissions were accepted. More than 50 countries contributed to the congress. We would like to thank all participants and supporters. Hope to see you at our next congress.

Best wishes from Turkey

Assoc. Prof. Dr. Ulaş ACARÖZ



**ONLINE 24-25-26-27 FEBRUARY 2022** 

### **HONORARY BOARD**

Prof. Dr. Mehmet Karakaş, President of Afyon Kocatepe University, Turkey. (Honorary President).

Prof. Dr. Alparslan Ceylan, Krgyz-Turkish Manas University, Kyrgyzstan.

Assoc. Prof. Dr. Dobri Yarkov, President of Trakia University, Bulgaria.

Prof. Dr. Erinda Lika, Vice-President of Agricultural University of Tirana, Albania.

Prof. Dr. Haurichenka Mikalai Ivanavich, President of Vitebsk Stata Academy of Veterinary Medicine,
Belarus.

Prof. Dr. Hazım Tamer Dodurka, President of Istanbul Rumeli University, Turkey.

Prof. Dr. Jerzy Stojko, Vice-President of Medical University of Silesia, Poland.

Prof. Dr. Nihat Şındak, President of Siirt University, Turkey.

Prof. Dr. Mehmet Emin Erkan, President of Şırnak University, Turkey.

Prof. Dr. Sergey Pozyabin, President of Moscow State Academy of Veterinary Medicine and Biotechnology,

Russia.

Prof. Dr. Talat Naseer Pasha, President of University of Education Lahore, Pakistan.

Prof. Dr. Turan Civelek, Dean of Afyon Kocatepe University, Faculty of Veterinary Medicine, Turkey.



ONLINE 24-25-26-27 FEBRUARY 2022

### **ORGANIZING COMMITTEE**

Dr. Richard Dietrich, Ludwig Maximilians University Munich, Germany, Honorary Member of Committe.

Assoc. Prof. Dr. Ulaş Acaröz, Afyon Kocatepe University, Turkey, President.

Prof. Dr. Kui Zhu, China Agricultural University, China, President.

Prof. Dr. Abdullah Eryavuz, Afyon Kocatepe University, Turkey, Congress General Secretary.

Prof. Dr. Halil Selçuk Biricik, Afyon Kocatepe University, Turkey, Member of Committee.

Assoc. Prof. Dr. Andrea Armani, Pisa University, Italy, Member of Committee.

Prof. Dr. İsmail Küçükkurt, Afyon Kocatepe University, Turkey, Member of Committee.

Prof. Dr. Sinan Ince, Afyon Kocatepe University, Turkey, Member of Committee.

Prof. Dr. Zeki Gürler, Afyon Kocatepe University, Turkey, Member of Committee.

Assoc. Prof. Dr. Halil Yalçın, Burdur Mehmet Akif Ersoy University, Turkey, Member of Committee.

Assoc. Prof. Dr. Damla Arslan Acaröz, Afyon Kocatepe University, Turkey, Member of Committee.

Assist. Prof. Dr. Merve Keskin, Bilecik Seyh Edebali University, Turkey, Member of Committee.

Assist. Prof. Dr. Tuncer Çakmak, Van Yuzuncu Yil University, Turkey, Member of Committee.

Dr. Alexander Atanasoff, Trakia University, Bulgaria, Member of Committee.

Dr. Mehmet Aydın Akalan, Afyon Kocatepe University, Turkey, Member of Committee.

Dr. Fahriye Kan, Afyon Kocatepe University, Turkey, Member of Committee.



ONLINE 24-25-26-27 FEBRUARY 2022

### **CONGRESS SECRETARY**

Ali Soylu, Member of Congress Secretary.

Barış Kaçmaz, Member of Congress Secretary.

Büşra Boduroğu, Member of Congress Secretary.

Duygu Uğurlu, Member of Congress Secretary.

Fatih Küçükbüğrü, Member of Congress Secretary.

Hacı İbrahim Koç, Member of Congress Secretary.

İpek Çam Çomak, Member of Congress Secretary.

Melike Akay, Member of Congress Secretary.

Nurtaç Küçükbüğrü, Member of Congress Secretary.

Ömer Gümüştaş, Member of Congress Secretary.

Sermet Genay, Member of Congress Secretary.

Sezen Evrenkaya, Member of Congress Secretary.

### **CONGRESS TECHNICAL SUPPORT**

Osman Doğanay, Member of Congress Technical Support

Mehmet Yalvaç, Member of Congress Technical Support

Okan Dilki, Member of Congress Technical Support

İbrahim Halil Yıldız, Member of Congress Technical Support



#### ONLINE 24-25-26-27 FEBRUARY 2022

### SCIENTIFIC COMMITTEE

Prof. Dr. Abdelhanine Ayad, University of Bejaia.

Prof. Dr. Abdul Ahad, Chittagong Veterinary and Animal Sciences University.

Prof. Dr. Abdulridha Taha Sarhan, Hila University.

Prof. Dr. Abdullah Eryavuz, Afyon Kocatepe University.

Prof. Dr. Adilbay Esimbetov, Samarkand Institute of Veterinary Medicine.

Prof. Dr. Agnieszka Najda, University of Life Sciences in Lublin.

Prof. Dr. Ahmet Çakır, Ankara University.

Prof. Dr. Adriana Morar, Banat University of Agronomical Sciences and Veterinary Medicine.

Prof. Dr. Ahmet Güner, Selçuk University.

Prof. Dr. Alev Gürol Bayraktar, Ankara University.

Prof. Dr. Ali Aydın, İstanbul University Cerrahpaşa.

Prof. Dr. Ali Belge, Aydın Adnan Menderes University.

Prof. Dr. Anil Pushpakumara, University of Peradeniya.

Prof. Dr. Aneela Zameer Durrani, University of Veterinary & Animal Sciences, Lahore-Pakistan.

Prof. Dr. Armağan Çolak, Atatürk University.

Prof. Dr. Artay Yağcı, Muğla Sıtkı Koçman University.

Prof. Dr. Asım Kart, Burdur Mehmet Akif Ersoy University.

Prof. Dr. Aydın Vural, Dicle University.

Prof. Dr. Ayhan Baştan, Ankara University.

Prof. Dr. Ayhan Filazi, Ankara University.

Prof. Dr. Aysun Çevik Demirkan, Afyon Kocatepe University.

Prof. Dr. Bahri Patır, Bingöl University.

Prof. Dr. Beniamino Terzo Cenci Goga, Università degli Studi di Perugia.

Prof. Dr. Belgin Sarımehmetoğlu, Ankara University.

Prof. Dr. Birol Kılıç, Süleyman Demirel University.

Prof. Dr. Canan Hecer, Near East University.

Prof. Dr. Cumali Özkan, Van Yuzuncu Yil University.

Prof. Dr. El khasmi Mohammed, University Hassan II of Casablanca.

Prof. Dr. Ender Yarsan, Ankara University.

Prof. Dr. Ergün Ömer Göksoy, Aydın Adnan Menderes University.

Prof. Dr. Erinda Lika, Agricultural University of Tirana.

Prof. Dr. Ertan Emek Onuk, Ondokuz Mayıs University.

Prof. Dr. Erwin Märtlbauer, Ludwig Maximilian University of Munich.

Prof. Dr. Evgeny Eskov, Russian State Agrarian University.

Prof. Dr. Esma Kozan, Afyon Kocatepe University.

Prof. Dr. Esra Akkol, Gazi University.

Prof. Dr. Fatma Seda Bilir Ormancı, Ankara University.

Prof. Dr. Fatih Hatipoğlu, Selçuk University/Kyrgyz-Turkish Manas University.

Prof. Dr. Fatih Mehmet Birdane, Afyon Kocatepe University.

Prof. Dr. Fatih Mehmet Kandemir, Atatürk University.

Prof. Dr. Fatima Wariaghlii, Université Mohammed V Agdal.



#### ONLINE 24-25-26-27 FEBRUARY 2022

Prof. Dr. Figen Çetinkaya, Uludağ University.

Prof. Dr. Gaspar Ros Berruezo, University of Murcia.

Prof. Dr. Gökhan Oto, Van Yuzuncu Yil University.

Prof. Dr. Gülden Zehra Omurtag, İstanbul Medipol University.

Prof. Dr. Gürhan Çiftçioğlu, T.C. İstanbul Kültür University.

Prof. Dr. Hakan Öner, Burdur Mehmet Akif Ersoy University.

Prof. Dr. Hakan Öztürk, Ankara University.

Prof. Dr. Hakan Yardımcı, Ankara University.

Prof. Dr. Halil Selçuk Biricik, Afyon Kocatepe University.

Prof. Dr. Handan Saliha Yıldız, Afyonkarahisar Health Sciences University.

Prof. Dr. Hasan Hüseyin Hadimli, Selçuk University.

Prof. Dr. Hatice Çiçek, Afyon Kocatepe University.

Prof. Dr. Haydar Özdemir, Ankara University.

Prof. Dr. Hom Bahadur Basnet, Agricultre and Forestry University.

Prof. Dr. Hülya Özdemir, Van Yuzuncu Yil University.

Prof. Dr. İbrahim Demirkan, Afyon Kocatepe University.

Prof. Dr. İbrahim Hakkı Ciğerci, Afyon Kocatepe University.

Prof. Dr. İlker Camkerten, Aksaray University.

Prof. Dr. İsa Özaydın, Kafkas University.

Prof. Dr. İsmail Alkan, Van Yuzuncu Yil University.

Prof. Dr. İsmail Şen, Kyrgyz-Turkish Manas University.

Prof. Dr. Iahtasham khan, University of Veterinary & Animal Sciences, Lahore-Pakistan.

Prof. Dr. İzzet Karahan, Balıkesir University.

Prof. Dr. Jani Mavromati, Agricultural University of Tirana.

Prof. Dr. Jezie A. Acorda, University of the Philippines Los Banos.

Prof. Dr. Kálmán Imre, Banat University of Agronomical Sciences and Veterinary Medicine.

Prof. Dr. Katerina Blagoevska, Ss. Cyril and Methodius University in Skopje.

Prof. Dr. Korhan Altunbaş, Afyon Kocatepe University.

Prof. Dr. Koula Doukani, University of Ibn Khaldoun - Tiaret.

Prof. Dr. Pavel Krasochko, Vitebsk Stata Academy of Veterinary Medicine.

Prof. Dr. Petr Krasochko, Vitebsk Stata Academy of Veterinary Medicine.

Prof. Dr. Kui Zhu, China Agricultural University.

Prof. Dr.Lamia Hamrouni Bel Hadj Brahim, University of Carthage.

Prof. Dr. Loğman Aslan, Van Yuzuncu Yil University.

Prof. Dr. Maria G. Campos, University of Coimbra.

Prof. Dr. Mario Giorgi, University of Pisa.

Prof. Dr. Masood Akhtar, Bahauddin Zakariya University.

Prof. Dr. Mehmmet Çalıcıoğlu, Fırat University.

Prof. Dr. Mehmet Elmalı, Hatay Mustafa Kemal University.

Prof. Dr. Mehmet Emin Erkan, Sırnak University.

Prof. Dr. Meryem Eren, Erciyes University.

Prof. Dr. Metin Bayraktar, Fırat University/Kyrgyz-Turkish Manas University.

Prof. Dr. Mitat Şahin, Kafkas University.

Prof. Dr. Miyase Çınar, Kırıkkale University.

Prof. Dr. Mohammad Amjad Kamal, Sichuan University, King Abdulaziz University, Daffodil International University, Novel Global Community Educational Foundation.

Prof. Dr. Muhammad Ovais Omer, University of Veterinary & Animal Sciences, Lahore-Pakistan.



#### ONLINE 24-25-26-27 FEBRUARY 2022

Prof. Dr. Murat Çetin Rağbetli, Karamanoğlu Mehmetbey University.

Prof. Dr. Murat Kanbur, Erciyes University.

Prof. Dr. Murat Yıldırım, Kırıkkale University.

Prof. Dr. Mustafa Ardıç, Aksaray University.

Prof. Dr. Mustafa Karakaya, Selçuk University.

Prof. Dr. Mustafa Nizamlıoğlu, Gelişim University.

Prof. Dr. Mustafa Numan Bucak, Selçuk University.

Prof. Dr. Mustafa Yıldız, Afyon Kocatepe University.

Prof. Dr. Müjgan Özdemir Erdoğan, Afyonkarahisar Health Sciences University.

Prof. Dr. Naim Deniz Ayaz, Kırıkkale University.

Prof. Dr. Nalan Bayşu Sözbilir, Afyon Kocatepe University.

Prof. Dr. Nebahat Bilge Oral, Kafkas University.

Prof. Dr. Neşe Demirtürk, Afyonkarahisar Health Sciences University.

Prof. Dr. Nihad Fezjic, University of Sarajevo.

Prof. Dr. Niraldo Paulino, Universidade Bandeirante de São Paulo (UNIBAN).

Prof. Dr. Oğuz Sarımehmetoğlu, Ankara University.

Prof. Dr. Oscar Herrera Calderon, Universidad Nacional Mayor de San Marcos.

Prof. Dr. Osman Sağdıç, Yildiz Technical University.

Prof. Dr. Ömer Çetin, İstanbul University Cerrahpaşa.

Prof. Dr. Otilia Bobis, USAMV Cluj-Napoca.

Prof. Dr. Özal Özcan, Afyonkarahisar Health Sciences University.

Prof. Dr. Özer Ergün, İstanbul Sağlık ve Teknoloji University.

Prof. Dr. Özlem Küplülü, Ankara University.

Prof. Dr. Özgür Kaynar, Kastamonu Univesity.

Prof. Dr. Recep Keşli, Selçuk University.

Prof. Dr. Sefa Çelik, Afyonkarahisar Health Sciences University.

Prof. Dr. Selim Sekkin, Aydın Adnan Menderes University.

Prof. Dr. Semra Kayaardı, Celal Bayar University.

Prof. Dr. Sergey Pozyabin, President of Moscow State Academy of Veterinary Medicine and Biotechnology, Russia.

Prof. Dr. Seyfullah Haliloğlu, Selçuk University.

Prof. Dr. Sinan Ince, Afyon Kocatepe University.

Prof. Dr. Silvia Patruica, Banat University of Agronomical Sciences and Veterinary Medicine.

Prof. Dr. Sokol Duro, Agricultural University of Tirana.

Prof. Dr. Tamer Dodurka, İstanbul Rumeli University.

Prof. Dr. Tarık Haluk Çelik, Ankara University.

Prof. Dr. Tülay Büyükoğlu, Burdur Mehmet Akif Ersoy University.

Prof. Dr. Ufuk Tansel Şireli, Ankara University.

Prof. Dr. Uğur Günşen, Bandırma Onyedi Eylül University.

Prof. Dr. Ümit Gürbüz, Selçuk University.

Prof. Dr. Vassya Bankova, Bulgarian Academy of Sciences.

Prof. Dr. Vedat Sağmalıgil, Near East University.

Prof. Dr. Yahya Kuyucuoğlu, Selçuk University.

Prof. Dr. Yakup Can Sancak, Van Yuzuncu Yil University.

Prof. Dr. Yavuz Osman Birdane, Afyon Kocatepe University.

Prof. Dr. Zafer Gönülalan, Erciyes University / Yozgat Bozok University.

Prof. Dr. Zehra Hajrulai-Musliu, Ss. Cyril and Methodius University in Skopje.



#### ONLINE 24-25-26-27 FEBRUARY 2022

Prof. Dr. Zeki Gürler, Afyon Kocatepe University.

Assoc. Prof. Dr. Andrea Armani, Pisa University.

Assoc. Prof. Dr. Ali Evren Haydardedeoğlu, Aksaray University.

Assoc. Prof. Dr. Ayşe Güneş Bayır, Bezmialem Vakıf University.

Assoc. Prof. Dr. Begüm Yurdakök Dikmen, Ankara University.

Assoc. Prof. Dr. Behnam Rostami, University of Zanjan.

Assoc. Prof. Dr. Bekir Oğuz, Van Yuzuncu Yil University.

Assoc. Prof. Dr. Beyza Ulusoy, Near East University.

Assoc. Prof. Dr. Bojan Blagojevic, University of Novi Sad.

Assoc. Prof. Dr. Camelia Tulcan, Banat University of Agromical Sciences and Veterinary Medicine.

Assoc. Prof. Dr. Damla Arslan Acaröz, Afyon Kocatepe University.

Assoc. Prof. Dr. Didem Pekmezci, Ondokuz Mayıs University.

Assoc. Prof. Dr. Dilek Dülger, Karabük University.

Assoc. Prof. Dr. Deyan Stratev, Trakia University.

Assoc. Prof. Dr. Dinko Dinkov, Trakia University.

Assoc. Prof. Dr. Doğukan Özen, Ankara University.

Assoc. Prof. Dr. Dzmitry Barysavets, Institute of Experimental Veterinary Medicine named of S.N. Vyshelessky.

Assoc. Prof. Dr. Elena Stepanova, Institute of Experimental Veterinary Medicine named of S.N. Vyshelessky.

Assoc. Prof. Dr. Ekin Emre Erkılıç, Kafkas University.

Assoc. Prof. Dr. Eray Alçığır, Kırıkkale University.

Assoc. Prof. Dr. Esra Özgül, Afyonkarahisar Health Sciences University.

Assoc. Prof. Dr. Gamze Çakmak, Van Yuzuncu Yil University.

Assoc. Prof. Dr. Güzin Camkerten, Aksaray University.

Assoc. Prof. Dr. Halil Yalçın, Burdur Mehmet Akif Ersoy University.

Assoc. Prof. Dr. Hüsamettin Ekici, Kırıkkale University.

Assoc. Prof. Dr. İbrahim Küçükaslan, Dicle University.

Assoc. Prof. Dr. İlhan Aydın, Republic of Turkey Ministry of Agriculture and Forestry General Directorate of Agricultural Research and Policies.

Assoc. Prof. Dr. İsmail Küçükkurt, Afyon Kocatepe University.

Assoc. Prof. Dr. Levent Altıntaş, Ankara University.

Assoc. Prof. Dr. Leyla Mis, Van Yuzuncu Yil University.

Assoc. Prof. Dr. Mehmet Cengiz, Atatürk University.

Assoc. Prof. Dr. Mehmet Nuri Konya, Afyonkarahisar Health Sciences University.

Assoc. Prof. Dr. Mehmet Özkan Timurkan, Atatürk University.

Assoc. Prof. Dr. Mehmet Sağlam, Aksaray University.

Assoc. Prof. Dr. Meysam Sharifdini, Guilan University of Medical Sciences.

Assoc. Prof. Dr. Mian Muhammed Awais, Bahauddin Zakariya University.

Assoc. Prof. Dr. Mokhtar Benhanifia, University Mustapha Stambouli.

Assoc. Prof. Dr. Mustafa Yipel, Hatay Mustafa Kemal University.

Assoc. Prof. Dr. Mahir Murat Cengiz, Atatürk Üniversity.

Assoc. Prof. Dr. Nizamettin Koçkara, Erzincan Binali Yıldırım University.

Assoc. Prof. Dr. Nuray Varol, Gazi University.

Assoc. Prof. Dr. Ömer Hazman, Afyon Kocatepe University.

Assoc. Prof. Dr. Özge Sızmaz, Ankara University.

Assoc. Prof. Dr. Özgül Küçükaslan, Dicle University.

Assoc. Prof. Dr. Özgür Albuz, Dr. Abdurrahman Yurtaslan Ankara Onkoloji Eğitim ve Araştırma Hastanesi



#### ONLINE 24-25-26-27 FEBRUARY 2022

Assoc. Prof. Dr. Özgür Genç Şen, Van Yuzuncu Yil University.

Assoc. Prof. Dr. Pasupuleti Visweswara Rao, Universiti Malaysia Sabah.

Assoc. Prof. Recep Kara, Afyon Kocatepe University.

Assoc. Prof. Dr. Saad Mukhlif Mhadi, Anbar University.

Assoc. Prof. Dr. Saadet Belhan, Van Yuzuncu Yil University.

Assoc. Prof. Dr. Sefa Küçükler, Atatürk University.

Assoc. Prof. Dr. Segueni Narimane, University of Constantine.

Assoc. Prof. Dr. Seyda Cengiz, Atatürk University.

Assoc. Prof. Dr. Seyda Şahin, Sivas Cumhuriyet University.

Assoc. Prof. Dr. Tanveer Hussain, Virtual University of Pakistan.

Assoc. Prof. Dr. Turhan Turan, Sivas Cumhuriyet University.

Assoc. Prof. Dr. Ulaş Acaröz, Afyon Kocatepe University.

Assoc. Prof. Dr. Yasin Demiraslan, Burdur Mehmet Akif Ersoy University.

Assoc. Prof. Dr. Zafer Pekmezci, Ondokuz Mayıs University.

Assoc. Prof. Dr. Zeynep Karapınar, Balıkesir University.

Assist Prof. Dr. Aamir Iqbal, Gomal University.

Assist Prof. Dr. Ahmad Ali, University of Mumbai.

Assist Prof. Dr. Ali Ekber Ün, Ankara Yıldırım Beyazıt University.

Assist Prof. Dr. Ali Soleimanzadeh, Urmia University.

Assist Prof. Dr. Ali Emrah Bıyıklı, Alanya Alaaddin Keykubat University.

Assist. Prof. Dr. Arash Pourgholaminejad, Guilan University of Medical Sciences.

Assist. Prof. Dr. Ashwaq Jabbar, University of Thiqar.

Assist. Prof. Dr. Asim Faraz, Bahauddin Zakariya University.

Assist. Prof. Dr. Azim Şimşek, Isparta Uygulamalı Bilimler University.

Assist. Prof. Dr. Burcu Güçyetmez Topal, Afyonkarahisar Health Sciences University.

Assist. Prof. Dr. Olgun Topal, Afyonkarahisar Health Sciences University.

Assist. Prof. Dr. Abdur Rahman Sial, University of Veterinary & Animal Sciences, Lahore-Pakistan.

Assist. Prof. Dr. Ali Timuçin Atayoğlu, Istanbul Medipol University.

Assist. Prof. Dr. Bora Özarslan, Kırıkkale University.

Assist. Prof. Dr. Burcu İrem Omurtag Korkmaz, Marmara University.

Assist. Prof. Dr. Cafer Yıldrım, Eskişehir Osmangazi University.

Assist. Prof. Dr. Cihat Öztürk, Kırşehir Ahi Evran University.

Assist. Prof. Dr. Çiğdem Ürkü Atanasov, İstanbul Univetrsity.

Assist. Prof. Dr. Eren Kuter, Burdur Mehmet Akif Ersoy University.

Assist. Prof. Dr. Engin Berber, University of Tennessee.

Assist. Prof. Dr. Ejaz Ahmad, Bahauddin Zakariya University.

Assist. Prof. Dr. Ezgi Topbaş Bıyıklı, Alanya Alaaddin Keykubat University.

Assist. Prof. Dr. Fahriye Zemheri Navruz, Bartın University.

Assist. Prof. Dr. Firas Alalı, Kerbala University.

Assist. Prof. Dr. Fatih Ramazan İstanbullugil, Kyrgyz-Turkish Manas University.

Assist. Prof. Dr. Fulya Altınok-Yipel, Hatay Mustafa Kemal University

Assist. Prof. Dr. Gözde Ede, Burdur Mehmet Akif Ersoy University.

Assist. Prof. Dr. Gültekin Bilgin, Bezmialem Vakıf University.

Assist. Prof. Dr. Hamide Nur Çevik Özdemir, Afyonkarahisar Health Sciences University.

Assist. Prof. Dr. Hande Sultan Şahiner, Aydın Adnan Menderes University.

Assist. Prof. Dr. Hasan Hüseyin Demirel, Afyon Kocatepe University.

Assist. Prof. Dr. Hasan Ufuk Çelebioğlu, Bartın University.



#### ONLINE 24-25-26-27 FEBRUARY 2022

Assist. Prof. Dr. Hayri Demirbaş, Afyonkarahisar Health Sciences University.

Assist. Prof. Dr. İbrahim Durmuş, Afyon Kocatepe University.

Assist. Prof. Dr. İbrahim Sözdutmaz, Erciyes University.

Assist. Prof. Dr. Kamala Badalova, Azerbaijan Medical University.

Assist. Prof. Dr. Mehmet Cemal Adıgüzel, Atatürk University.

Assist. Prof. Dr. Mentor Alishani, University of Prishtina.

Assist. Prof. Dr. Merve Keskin, Bilecik Şeyh Edebali University.

Assist. Prof. Dr. Muharrem Satılmış, Bakırçay University.

Assist. Prof. Dr. Muhammet Yasin Tekeli, Erciyet University.

Assist. Prof. Dr. Muhsin Öztürk, İstanbul Sağlık ve Teknoloji University...

Assist. Prof. Dr. Murat Yeşil, Afyonkarahisar Health Sciences University.

Assist. Prof. Dr. Mustafa Özbek, Van Yuzuncu Yil University.

Assist. Prof. Dr. Mustafa Eser, Anadolu University.

Assist. Prof. Dr. Ömer Çakmak, Istanbul Esenyurt University.

Assist. Prof. Dr. Pakize Özyürek, Afyonkarahisar Health Sciences University.

Assist. Prof. Dr. Rabia Mehtap Tuncay, Van Yuzuncu Yil University.

Assist. Prof. Dr. Risto Uzunov, Ss. Cyril and Methodius University in Skopje.

Assist. Prof. Dr. Rüştü Taştan, Kocaeli University.

Assist. Prof. Dr. Selahattin Konak, Afyon Kocatepe University.

Assist. Prof. Dr. Selma İnfal Kesim, Selçuk University.

Assist. Prof. Dr. Shah Nawaz Sial, Riphah College of Veterinary Sciences.

Assist. Prof. Dr. Şaban Keskin, Bilecik Şeyh Edebali University.

Assist. Prof. Dr. Sibel Doğan, Medipol University.

Assist. Prof. Dr. Şükrü Önalan, Van Yuzuncu Yil University.

Assist. Prof. Dr. Mahendra Singh Tomar, Sri Venkateswara Veterinary University.

Assist. Prof. Dr. Tuncer Çakmak, Van Yuzuncu Yil University.

Dr. Aleksandar Joksimović, University of Montenegro.

Dr. Ali Soyucok, Burdur Mehmet Akif Ersoy University.

Dr. Alice Giusti, Pisa University.

Dr. Anna Kurek-Gorecka, Medical University of Silesia in Katowice.

Dr. Aytaç Ünsal Adaca, Ankara University.

Dr. Cemil Şahiner, Aydın Adnan Menderes University.

Dr. Dilara Fayetörbay Kaynar, Kastamonu University.

Dr. Dmitry Morozov, Vitebsk Stata Academy of Veterinary Medicine/ FAO National Coordinator of Belarus Dr. Erdem Danyer, Republic of Turkey Ministry of Agriculture and Forestry, Veterinary Control Central Research Institute.

Dr. Esin Keleş Arslan, Republic of Turkey Ministry of Agriculture and Forestry, International Center For Livestock Research and Traning.

Dr. Fahriye Kan, Afyon Kocatepe University, Turkey, Member of Committee.

Dr. Halil Ozancan Arslan, Republic of Turkey Ministry of Agriculture and Forestry, International Center For Livestock Research and Traning.

Dr. Krešimir Matanović, University of Zagreb.

Dr. Lara Tinacci, Pisa University.

Dr. Mehmet Akalan, Afyon Kocatepe University.

Dr. Ömer Barış İnce, Pamukkale University.

Dr. Pelin Koçak Kızanlık, Aydın Adnan Menderes University.

Dr. Sedat Sevin, Ankara University.



#### **ONLINE 24-25-26-27 FEBRUARY 2022**

Dr. Seda Ekici, Republic of Turkey Ministry of Agriculture and Forestry, Veterinary Control Central Research Institute.

Dr. Serol Korkmaz, Republic of Turkey Ministry of Agriculture and Forestry, Pendik Veterinary Control Institute.

Dr. Stefan Stangaciu, Romanian Apitherapy Society.
Dr. Tohid Rezaei Topraggaleh, Tabriz University of Medical Sciences.
Dr. Wassan Nori, Mustansiriyah University.



ONLINE 24-25-26-27 FEBRUARY 2022

### **CONTENTS**

Preface	
Honorary Board	1
Organizing Committee	2
Congress Secretary	3
Congress Technical Support	3
Scientific Committee	4
Contents	11
ORAL PRESENTATIONS	30
Detection of <i>Varroa destructor</i> Mite and <i>Nosema</i> spp. in Bee Samples from Bulgaria <u>Delka Salkova</u> , Kalinka Gurgulova	31
Chemical Profiling and Antimicrobial Effect of Anatolian Honey Bee Venom Against Different Pathogens That Cause Skin Diseases  Emine SONMEZ, Meral KEKECOGLU, Arif BOZDEVECI, Sengul ALPAY KARAOGLU	32
Daily and Seasonal Variation in the Activity of Wild Bees (Hymenoptera, Apoidea) in Northern Algeria Bendifallah Leila	33
Antimicrobial, Anti-Quorum Sensing, Anti-Biofilm and Anti-Swarming Activities of Ethanolic Chestnut Propolis Extracts Ülkü Zeynep Üreyen Esertaş, Ali Osman Kılıç, Sevgi Kolaylı	34
Biologically Active Properties of Sunflower Honey Merve Keskin, Yakup Kara, <u>Sevgi Kolaylı</u>	35
Seperation of Phenolic Compounds from Propolis Extract <u>Şaban Keskin</u> , Ömer Ersin Muz	36
Green Syhthesis of Bee Pollen Based Silver Nanoparticles Merve Keskin	37
The Effect of Differences in FeedingNumbers on Some Growth and Cocoon Features in Commercial Hybrid (M×N) Silkworms Yusuf ZENGIN, Ezgi ODABAS, Hasan Hüseyin SENYUZ, Abdulkadir ERISEK, Senem Esin SELCUK, Esra KARADUMAN	38
A Research on Determination of Optimum Ratios of PCR Components in Gene Expression Studies  Boran KARATAŞ, Muhammed ARABACI	39
Lactococcus garvieae Isolation from Vaccinated and Non-Vaccinated Cultured Fish Present in the Same Aquatic Ecosystem, and the Antibiotic Resistance of the Isolated Bacteria  Esen Kulaç Polat, Elif Aygür, Furkan Balcı, Nihal Çalışkan, Mustafa Türe, Rafet Çağrı Öztürk, Özcan Kaygusuz	40
Proteomic Profiling and Functional Characterization of The Secretome of <i>Anisakis simplex</i> L3 Larvae <u>Maciej Kochanowski</u> , Joanna Dąbrowska, Mirosław Różycki, Jacek Sroka, Jacek Karamon, Aneta Bełcik, Weronika Korpysa-Dzirba, Tomasz Cencek	41
Legislation for Sturgeon By-Catch During Commercial Fishing in the Black Sea Basin of Ukraine Inna Hoch, Ganna Kotovska, Volodymyr Drutskiy, Nataliia Rudyk-Leuska, <u>Dmytro Khrystenko</u>	42



Prevalence and Molecular Characterization of Pathogenic Fungus in Freshwater Fishes of District, Punjab.  Amina Shafique, Farzana Abbas, Muhammad Inayat, Muhammad Hafeez-ur-Rehman, Ammara Msroor, Nimra Mubeen	43
In-vitro antiviral activity of Neem ( <i>Azadirachta indica</i> L.) Bark extract against Bovine Corona Virus, Bovine Herpes Virus-1, Bovine Parainfluenza Virus-3, and Bovine Entero Virus <u>Hatice Pelin Aslım,</u> Hasan Sercan Palancı, Oya Bulut	44
Oral hygiene and periodontal indices in children with 1 type diabetes mellitus during gingivitis treatment Olga Sheshukova, <u>Iryna Kuz</u> , Alina Maksymenko	45
Brucellosis in Food Animals of Southern Khyber Pakhtunkhwa, Pakistan. <u>Muhammad Kamal Shah</u> , Shakeeb Ullah, Asim Shahzad, Zahoor Khan, Aamir Iqbal, Kalim Ullah Khan	46
Screening and Isolation of Asparaginase Producers from Soil Source and Its Application in Food Products <u>Priya Sundarrajan</u> , Geeta Ibrahim, Joanna Dcosta	47
Evaluation of Carcasses of Cattle Slaughtered in Winter in Kırıkkale Province According to Slaughterhouse Data Cansu ATEŞ, Aykut Asım AKBAŞ	48
Determination of Sensory and Antioxidant Properties of Black Imported Tea, Frequently Consumed in Şanlıurfa, Different Brewing Times Kasım Takım, Mehmet Emin Aydemir	49
The Effect of Water Kefir on Rainbow Trout ( <i>Oncorhynchus Mykiss</i> ) Meat Quality and Some Foodborne Pathogen and Spoilage Bacteria Emre Yavuzer	50
Spatial and Temporal Variation of Faecal Pollution Indicators in the Oualidia Lagoon, A Shellfish Growing Area in Morocco  Najwa Hassou, Mohamed Maanan, Bendahhou Zourarah, Omar Assobhei, Samira Etahiri	51
Pharmacological Protocols in Therapeutical Treatments in Vestibular Syndrom in Pet Animals <u>Erinda Lika</u> , Nikola Puvača	52
Medical Treatment in Different Cases of Glaucoma in Dogs Erinda Lika, <u>Nikola Puvača</u>	53
Evaluation of Monocyte/HDL, CRP, CBC, Total Protein/Albumin and ALP Levels in Cats with Periodontal Disorders <u>Efe Kurtdede</u> , İbrahim Çiftçi	54
Investigation of Serum Homocysrtein and Nitric Oxide Levels in Turkish Van Cats with Feline Infectious Peritonitis Mustafa Özbek, Cumali Özkan, Abdullah Kaya, Serkan Yıldırım, <u>Süleyman Kozat</u> , Yakup Akgül	55
Phimosis and Penile Necrosis in a Cat Harun ÇINAR, Muhammed Yusuf ŞİRİN, <u>İbrahim Taha DANIŞMAN</u>	56
Ocular Manifestations in Feline Infectious Peritonis in Cats <u>Harun ÇINAR</u> , Gizem Kavak ÇINAR	57
Comparison of Histopathological, Immunohistochemical and Real-Time PCR Methods for Diagnosis of Listeriosis in Ruminants with Encephalitis  Fatih Hatipoğlu, Funda Terzi, Özgur Özdemir, Mustafa Ortatatlı, M. Kemal Çiftçi, M. Burak Ateş	58
Effect of Fluid-Electrolyte Therapy and Oxygen Application on Venous Blood Gases in Diarrheic Calves with Hyperkalemia Mustafa Özbek, Cumali Özkan, Yıldırım Altan	59
Gastrointestinal Linear Foreign Bodies in Cats Kurtuluş Parlak	60
Some Blood Macro (Ca, K, Mg, Na, P) and Micro (Al, B, Mo, Se, Mn, Sb, Sn, Tl) Element Status and Correlations in Shelter Dogs from Northwest Turkey Fulya Altınok-Yipel, Mustafa Yipel, Nuri ALTUĞ, Nurullah ÖZDEMİR	61
A Gunshot Injury in a 5-Year-Old Dog Sezim BELEK KIZI, Abuzer TAŞ, Hasan Hüseyin ARI, İsmail ŞEN, Ali RİŞVANLI, Fatih HATİPOĞLU	62
A Case of Complicated Orchitis in a German Wolfhound <u>Ayturgan Düyşöbaeva</u> , Abuzer Taş, Fatih Hatipoğlu, Hasan Hüseyin Arı, İsmail Şen, Ali Rişvanlı	63
Investigation of Tumor Microenvironment, Hypoxia and Angiogenesis by Immunohistochemical and Histopathological Methods in Canine Mammary Tumors <u>Erdinc Güner</u> , Fatih Hatipoğlu	64



The Cranial Cervical Ganglion and Its Branches in The Alabai Dog Hasan Hüseyin Arı, Abuzer Taş, İsmail Şen, <u>Aziz Begaliev</u>	65
A Case of Crystalized Corneal Dystrophy in A Siberian Husky Harun ÇINAR, Muhammed Yusuf ŞİRİN, Mehmet Nur ÇETİN	66
First Report of an Unusual Monteggia Equivalent Fracture and Its Surgical Treatment in a Cat Mehmet Zeki Yılmaz Deveci	67
Evaluation of Oxidative Stress Parameters and Serum Immunoglobulin Levels in Calves With Enzootic Pneumonia Mustafa Özbek, Cumali Özkan	68
A Case of Chelio Coritis Purulenta in Horse  Nur ABDYMANAP UULU, Abuzer TAŞ, İsmail ŞEN, Ali RIŞVANLI, Hasan Huseyin ARI, Sezim BELEK KIZI, Ayturgan  DUYSHOBAEVA, Aidai ZHUNUSHOVA	69
A Stereological Study on the Temporal and Parietal Region of the Brain in Male Rats with Epilepsy applied by Pentylenetetrazole (PTZ)  Veysel AKYOL, Gamze ÇAKMAK	70
Three-Dimensional Printing of Canine Femur: Anatomic Models <u>Semih KURT,</u> Sedef SELVİLER SİZER, Murat KABAK, Burcu ONUK	71
Morphological Investigation of Roe Deer ( <i>Capreolus capreolus</i> ) Tongue Sedef SELVİLER SİZER, Semih KURT, <u>Betül KANİK</u> , Şerife TÜTÜNCÜ, Burcu ONUK, Murat KABAK	72
Silicone plastination of longitudinally sectioned of sheep head <u>Hasen Awel YUNUS</u> , Barış BATUR, Caner BAKICI, Okan EKIM	73
Criticism of Rembrandt's "Dr. Tulp's Anatomy Lesson" and "Dr. Deijman's Anatomy Lesson <u>Mustafa Diğler</u>	74
Chrysin Alleviates Gastric Toxicity Caused by Lead Acetate by Showing Anti-oxidant and Anti-inflammatory Effects <u>Cihan Gur</u>	75
Evaluation of Protective Effect of Naringin in Oxaliplatin Induced Cardiotoxicity via Apoptosis and Endoplasmic Reticulum Stress Pathway <u>Mustafa İleritürk</u>	76
Obtaining and Research of Antibacterial Acrylonitrile-Butadiene-Styrene (ABS) Polymer Composite Materials Niyazi Sh.Rasulzade, Namiq Sh. Rasulov, <u>Kamala K. Badalova</u>	77
Neuroprotective Effect of Curcumin Alleviating Cadmium Induced Neurotoxicity and Neurogenesis Through CREB-BDNF signaling in Swiss Albino Mice  Maryam Sarwat	78
Investigation of the Mechanism of α-Tocopherol in Reducing Lipid Accumulation in 3T3-L1 Adipocyte via CTRP3 gene Expression Meliha KOLDEMİR GÜNDÜZ, Güllü KAYMAK, Ertan KANBUR	79
Analysis of the Activity of Protein Engineered Lipase Variants on Different 4-Nitrophenyl Esters <u>Nurcan Vardar-Yel</u>	80
Isolation and Identification of a Novel <i>Pichia Occidentalis</i> Strain from Fermented Plant Material <u>Zehra Erkol</u> , Fatih Ortakcı	81
Synthesis, Characterization, Biological and Molecular Docking Assessment of Novel Ofloxacin Derivatives <u>Mohammad Arshad</u>	82
Therapeutic Application of <i>Zizyphus lotus</i> and <i>Ruta chalepensis</i> Essential Oils in Treatment of Gastroenteritis Induced by <i>Salmonella enterica</i> ssp. <i>arizonae</i> in Wistar Rats  Nour El Houda Bekkar, Boumediene Meddah, Bahadir Keskin, Pascal Sonnet	83
Phytochemical Studies on the Variability of Pinus Pinaster Aiton Essential Oils and Evaluation of Their Herbicidal and Antifungal Activities  Sana Khedhri, Marwa Khammassi, Ismail Amri, Yassine Mabrouk, Ferjeni Dhaouadi, Samia Gargouri, Mohsen Hnanana, Bassem Jamoussi, Lamia Hamrouni	84
Determination of the Anti-Inflammatory Activity of Nano Spray-Dried Nanoparticles with in Vivo HET-CAM Assay That can be Used in Post-Operative Wound Healing  A. Alper ÖZTÜRK, Tilbe Çevikelli, Umay Merve Güven, Hülya Tuba Kıyan	85



Effect of the Diet Supplemented with Cadmium on Cell Death in the Soil Invertebrate Lithobius forficatus  Magdalena Rost-Roszkowska, Izabela Poprawa, Łukasz Chajec, Grażyna Wilczek	86
The Protective Effect of Boron Against Aflatoxin B1 Induced Liver Injury in Male Rats Serkan KARATEKELI, Hasan Huseyin DEMIREL, Fahriye ZEMHERI, <u>Sinan INCE</u>	87
Investigation of Therapeutic Activity of Fullerene C <sub>60</sub> against Liver Tissue Damage by Biochemical and Histopathological Analysis <u>Seda Beyaz</u> , Ozlem Gok, Abdullah Aslan, Ibrahim Hanifi Ozercan, Can Ali Agca	88
Relation of Protective Effect of Fullerene C <sub>60</sub> Nanoparticle against Lung Tissue Damage in Rats with Biochemical and Histopathological Biomarkers	89
Ozlem Gok, Seda Beyaz, Abdullah Aslan, Ibrahim Hanifi Ozercan, Can Ali Agca Ferroptosis-Regulating Effects of Capsaicin on Caco-2 Human Colon Carcinoma Cells Ceyhan Hacioglu, Fatih Kar	90
Pharmacokinetics of Carprofen Following Single and Repeated Intravenous Administrations of Different Doses in Sheep Orhan Corum, <u>Devran Coskun</u> , Duygu Durna Corum, Merve Ider, Ramazan Yildiz, Mahmut Ok, Kamil Uney	91
Investigation of the Synergistic Effect of Phenolic Compounds on Acetylcholinesterase  Melike Karaman, Emine Toraman	92
Effects of Phosphorus Solubilizing Bacteria, Phosphorus Fertilizer and Poultry Litter Treatments on the Seed Yield and Yield Components of Common Vetch Dilara Fayetörbay Kaynar, Binali Çomaklı	93
Design of Orally Disintegrating Antihistaminic Tablet and Investigation of Kinetic Properties <u>Kutlu Somek</u> , Emek Moroydor Derun	94
Synthesis of New Thiosemicarbazone Derivatives and Evaluation of Their Cytotoxic Activity <u>Fatih Tok</u> , Nuh Mehmet Bozkurt, Ayşe Kübra Karaboğa Arslan	95
Impact of Micro and Nano Particles of Polystyrene on <i>Drosophila melanogaster</i> <u>Anna Zofia Urbisz</u> , Karol Małota, Łukasz Chajec, Marta K. Sawadro	96
Determination of Anti-candidal and Anti-bacterial Activity of Some Deep Eutectic Solvents (DESs) <u>Sinan Bayram</u>	97
The correlation between inferior thyroid artery-to-subclavian artery peak systolic velocity ratio and other Doppler ultrasonographic parameters of the thyroid gland <a href="Kaan Alişar">Kaan Alişar</a> , Fatih Karagüzel	98
Comparison of Glucose Oxidase Method and Electro Biochemical Glucose Sensor Method in Determination of Glucose <u>Umut Kökbaş</u>	99
Effect of Mandarin Peel Ethanolic Extract on Diclofenac-Induced Liver and Kidney Damage Yavuz Osman Birdane, <u>Orkun Atik</u>	100
Production of Amylase from Aeribacillus pallidus AO7 using Potato Peel Powder  Mehmet Akif OMEROGLU, Seyda ALBAYRAK, Mustafa Ozkan BALTACI, Ahmet ADIGUZEL	101
Smart Polymers Modified Electrochemical Sensor for Glycated Albumin for Monitoring of Diabetes <u>Zihni Onur UYGUN</u>	102
Production and Optimization of Lipase by Anoxybacillus Flavitermus MOB61 Using Cooking Oil As Substrate Mustafa Ozkan Baltaci	103
Effects of Medical Ozone Therapy on Xanthine Oxidase Activities in Paracetamol Treated Rats  Hakan Bağ, Seval Yılmaz, Emre Kaya, Feyza Aksu, Ahmet Kavaklı	104
Effects of Endocrine Disrupting Chemical Bisphenol A on Male Reproductive Function in Adult Angora Goat <u>Seher Simsek</u> , Ilktan Bastan, Derya Sahin, Firat Korkmaz, Gurol A. Bayraktaroglu, Bulent Bas, Fatih M. Bozkurt, Calegero  Stelletta, Hasan H. Senyuz, Muharrem Satilmis	105
Comparison of the Thermal Stability of Hazelnut Oil and Sunflower Oil During Frying Process <u>Gulgun Cakmak Arslan</u>	106
Effect of Myrtle (Myrtus communis L.) Essential Oil on Thyroid Hormones in Rats with Propylthiouracil-Induced Hypothyroidism Hülya Atik, Tuba Bülbül, Vural Özdemir, Gülcan AVCI, Aziz Bülbül	107
Investigation on Antibacterial and Antioxidant of Lacticaseibacillus rhamnosus GG Grown in the Presence of Thiamine Ebru Koroglu, Hasan Ufuk Celebioglu	108



Antioxidant and Antibacterial Effects of <i>Lacticaseibacillus rhamnosus</i> Supplemented with Phytic Acid Berkant Isik, Hasan Ufuk Celebioglu, Halil Baris Ozel	109
Pharmacokinetics and Bioavailability of Florfenicol in Geese Erdinç TÜRK, Orhan ÇORUM, İbrahim Ozan TEKELİ, Duygu Durna ÇORUM, <u>Sara Busra EMİROĞLU</u> , Kamil ÜNEY	110
Development of Antimicrobial Effective Nasal Formulation and Determination of In Vivo Efficacy <u>Ayça Erek,</u> Tuğba Karakayalı, Güliz Ak Demiroz, Şadiye Çetin, Şenay Hamarat Şanlıer	111
Evaluation of Immunomodulatory and Antiviral Effects of Vathasura Kudineer (VSK), a Poly-herbal Formulation of Indian Traditional Medicine in <i>in vitro</i> Cell Culture <u>Abdul Hasan</u> , Geetika Sharma, Sujatha Sunil	112
Doxorubicin and Zinc Oxide Encapsulated Albumin Nanoparticles Exhibits pH-Sensitive Drugs Release Profile  Habibe Yılmaz	113
Investigation of the Synergistic Effect of the Mixture of <i>Artemisia Absinthium</i> and <i>Centella Asiatica</i> Plant Extracts on L929 Fibroblast Cells Esra Arat	114
Total Phenolics and Mineral Composition of Globe Artichoke Leaf and Its Extracts <u>Sümeyra Akkaya Albayrak</u> , Gülcan Avcı, Barış Denk, Esra Küpeli Akkol, Büşra Karpuz	115
Evaluation of Anti-Diabetic Potential of Peptide/Polypeptide and Carbohydrate Fractions of <i>Aloe barbadensis</i> Miller: A Preclinical Study <u>Ayesha Noor</u> , Spoorthy N Babu, S. Govindarajan	116
Investigation of the Effect of Boron on Thyroid Functions and Biochemical Parameters in Hypothyroid induced-Rats Fahriye KAN, Ismail KUCUKKURT	117
The Comparison of Effects of Supplementation of <i>Yucca Schidigera</i> Powder to Diet Effect on Plasma Some Mineral Levels in Sheep <u>ibrahim Durmuş</u> , Abdullah Eryavuz, İsmail Küçükkurt, Sinan İnce, Damla Aslan Acaröz, Mehmet Naci Salim	118
Induction of Hepatotoxicity by Anti-Tb Drug Disturbed the Mitochondrial Function  Muhammad Hasnat, Muhammad Saleem	119
Exploration of Zingiber Officinale Effects on Growth Performance, Immunity and Gut Morphology in Broilers <u>Abdur Rahman</u> , Muhammad Umair Asghar, Zafar Hayat, Muhammad Kamran Rafique, Iftikhar Hussain Badar,  Muhammad Kashif Yar, Muawuz Ijaz	120
Hematological and Biochemical Studies in Healthy Camel Bulls in Relation to Season Breeding Activity <a href="https://doi.org/10.1007/j.com/">Chikha Maria</a> , Gherissi Djalel Eddine	121
Comparison of Race Earnings and Degrees of Arabian and Thoroughbred Racehorses in Turkey <u>Sibel DANIŞAN</u> , Büşra YARANOĞLU	122
An Indigenous Animal Genetic Resource: Oriental Pigeon <u>Evren ERDEM</u> , Fatma Tülin ÖZBAŞER BULUT, Eser Kemal GÜRCAN, Mehmet İhsan SOYSAL	123
Live Weight Changes of Angora Goat Kids on Different Pasture  Hasan Hüseyin Şenyüz	124
Comparison of Egg Production and Some Egg Quality Characteristics in Four Varieties of Japanese Quail ( <i>C. japonica</i> ) with Different Feather Colour  Erva Eser, M. Naci Oktay, Sedat Aktan, Serkan Erat, Bora Özarslan	125
Trace Element Bioaccumulation and Health Risk Assessment Derived from Frog Leg Consumption  Hale Tatlı, Abdullah Altunışık, Kenan Gedik	126
The Effect of Thymoquinone at Proliferative and Toxic Doses on Ripk1 Gene Expression in Kidney Cells <u>Ayşe Usta</u> , Veysel Yüksek, Semiha Dede	127
The Effects of Storage Method and Some External Quality Characteristics on Weight Loss in Guinea Fowls Eggs M. Naci Oktay, Erva Eser, Sedat Aktan, Bora Özarslan, Serkan Erat	128
Comparative Binding Studies of Radiolabeled Bisphosphonates to Hydroxyapatite Bone Minerals  Meliha Ekinci, Derya İlem-Özdemir	129
Morphological Investigations on <i>Pseudoplatyophrya Terricola</i> Foissner 1985 (Ciliophora, Colpodea), A New Record for the Cilitate Fauna of Turkey ismail Yıldız, Nemrut Fırat Dicle	130



Comparison of Real-time PCR and culture method in the diagnosis of <i>Brucella</i> spp. <u>Derya KARATAŞ YENİ</u>	131
The Relationship Between Serum Selenium Level and Muscle Mass in Type 2 Diabetic Geriatric Women Ridvan Sivritepe	132
AST, ALT, and CK Levels of the Patients Followed Up in the Burn Intensive Care Unit by Burn Type and Coarse During the Treatment Process  Zeynep Irmak Kaya, Bülent Çağlar Bilgin	133
Glabridin Induces Intrinsic Apoptotic Signaling Pathway and Cell Cycle Arrest in A549 Non-Small Cell Lung Cancer and PC-3 Prostate Cancer Cells <u>Sevgi Gezici</u>	134
Effect of Age, Gender, Cancer and Bedridden on Homocysteine Levels  Adem Keskin, Recai Aci	135
A Cardiac Glycoside of <i>Nerium oleander</i> L. Downregulates TLR1, TLR6 and MYD88 Genes in Human Endometrial Carcinoma Cells Canan Eroğlu Güneş, Fatma Seçer Çelik, <u>Sedef Akçaalan</u> , Ercan Kurar	136
Melatonin Levels in Women with Systemic Lupus Erythematosus  Melek Bilgin, Recai Aci, Gülay Çiftci, Hatice Şule Baklacıoğlu, Adem Keskin, Furkan Ümit	137
Spontaneous Bowel Perforation Caused by Ventriculoperitoneal Shunt Catheter  Mehmet Emin Çelikkaya, Ahmet Atıcı	138
Altered MicroRNA Expression in the Postmortem Prefrontal Cortex of the Alcohol Dependence <u>Burcu Çaykara</u> , Hani Alsaadoni, Mehmet Zahit Çıracı, Sadrettin Pençe, Halime Hanım Pençe, Bekir Erdoğan, Yalçın Büyük	139
The Relationship between Cultural Sensitivity and Sexual Myths Among University Students Ebru Cirban Ekrem, Aylin Kurt, <u>Yakup Önal</u>	140
Ovarian Carcinomatosis Microenvironments Induce Epithelial-Mesenchymal-Transition and Up-Regulate Protease- Procoagulant Activity in Mesothelial Cells  Shah Shahid, Aldybiat Iman, Ullah Matti, Kaci Rachid, Assaf Alassaf, Eveno Clarisse, Pocard Marc, Mirshahi Massoud	141
Estimating Currents from Action Potentials Using Single and Multi-output Neural Network Models Selim Süleymanoğlu, <u>Sevgi Şengül Ayan</u> , Hasan Özdoğan	142
Personnel Working with Disabled Children in Special Education Institutions First Aid Information and Practices Semiha Dertli, Öznur Başdaş	143
Whole-Exome Sequencing Results in Follow-Up Patients with Nephropathy: A Two-Center Retrospective Study Cüneyd Yavaş, Tunay Doğan, Ezgi Gökpınar İli, Mustafa Doğan, Alper Gezdirici	144
A Moroccan Family with Distal Hereditary Motor Neuropathy and a c.452C >T Variant in the Small Heat Shock Protein HSPB1 <u>Loubna Dafrallah</u> , Ghita Amalou, Hamid Lakhiari, Abdelhamid Barakat, Hassan Rouba	145
New Heparin Mimetic Material and Its Anticancer Activity <u>Birnur AKKAYA</u> , Recep AKKAYA	146
An In Vitro Investigation of the Interaction of Genomic DNA with Copper Chloride  Elisha Apatewen Akanbong, Alparslan Kadir Devrim	147
Investigation of Kinesophobia, Proprioception, State and Trait Anxiety Levels In Geriatric Patients With Shoulder Injury Sevde NUR AKTAŞ, Ramazan KURUL	148
Determination of Antibacterial Activity of Boron Compounds Against the Caused of Hospital Infection Pseudomonas Aeruginosa ATCC 27853 Sümeyye BAŞER	149
Is this by chance or an Iceberg? A Case Report of Gastroschisis from Kayseri Aklilu Abrham Roba, Öznur Başdaş	150
Obesity, Prevalence of Hypertension and Metabolic Syndrome in a WomenSamplefrom Khouribga (Morocco) <u>El Hendaoui Hajar, Mziwira Mohamed, Belahsen Rekia</u>	151
Study on Malaria Prevalence on General Population of Damaturu, Yobe State, Nigeria Sabina Khanam, Bhola Khan	152
Study of the Correlation between the M.A10398G Polymorphism, the A3243G Mutation of the Mitochondrial DNA and Type 2 Diabetes in A Moroccan Population	153



Fatima Zahra Kehailou, Taha Rhouda, Ali Labriji, Fatima Zahra El Mskini, Mohammed Jabari, Houriya Mestaghanmi	
In Silico Screening and Exploration into Phenotipic Alterations of Deleterious Nonsynonymous Single Nucleotide Polymorphisms in CYP11A1 Gene Salaheddine REDOUANE, Houda HARMAK, Hicham CHAROUTE, Abderrahim MALKI, Abdelhamid BARAKAT, Hassan ROUBA	154
Genetic Cause Determination of some Syndromic Deafness by Whole Exome Sequencing in Moroccan Families <u>Bousfiha Amale</u> , Bakhchane Amina, Charoute Hicham, Charif Majida, Bonnet Crystel, Lenaers Guy, Barakat Abdelhamid	155
Combination of terpenoids promote apoptosis and cell cycle arrest in A549 non-small cell lung cancer cells Kiruthiga Chandramohan, <u>Pandima Devi Kasi</u>	156
Chemical Investigation and Antimicrobial Activity of Some <i>Hyoscyamus</i> Species from Azerbaijan <u>Adila Valiyeva</u> , Eldar Garayev, Aytan Baylarova, Nurana Mollayeva, Kamala Ahmadova <sup>2</sup> , Melekkhanum Ibrahimova, Narmin Babayeva, Aynura Guliyeva	157
Genetic Heterogeneity in <i>GJB2, COL4A3, ATP6V1B1</i> And <i>EDNRB</i> Variants Detected Among Hearing Impaired Families in Morocco <u>Aitraise Imane</u> , Amalou Ghita, Houria Abdelghaffar, Adbelhamid Barakat	158
Computational Analysis of the Potential Impact of MTC SNPs Associated with Male Infertility <u>Houda HARMAK</u> , Hicham CHAROUTE, Ouafaa ANIQ FILALI, Abdelhamid BARAKAT, Hassan ROUBA	159
Analysis of Demographic Characteristics and Risk Factors of Breast Cancer in Southern Punjab, Pakistan Sabika Firasat, Waheed Ahmed	160
Neurological Manifestations in Pakistani Lysosomal Storage Disorders Patients and Molecular Characterization of Gaucher Disease Rutaba Gul, Sabika Firasat, Mulazim Hussain, Muhammad Tufail, Waheed Ahmad, Kiran Afshan	161
Synthetically Lethal Nanoparticles for the Treatment of Colorectal Cancer by Targeting Cancer Cell Specific Vulnerability Rehan Khan, Anuradha Gupta, Anas Ahmad, Jayamurugan Govindasamy	162
ls It A Part Of Tectorial Membrane? <u>Burak Karip</u> , Özlem Öztürk Köse, Gülseli Berivan Sezen	163
Investigation of the Effect of Balance and Posture on Speech Function in Stroke Patients  Mine Arslan, Ramazan Kurul	164
Academics' Opinions on Faculty Development Workshop for Writing Multiple-Choice Questions: A Case Study of the Faculty of Health Sciences  S. Ayhan Çalışkan, Hamide Nur Çevik Özdemir	165
Clinical and Genetic Investigations of Three Moroccan Families with Retinitis Pigmentosa Phenotypes <u>Aymane Bouzidi</u> , Majida Charif, Ghita Amalou, Mostafa Kandil, Abdelhamid Barakat, Guy Lenaers	166
Determination of the Relationship between Premenstrual Syndrome Frequency and BMI in Adolescents Feray ÇAĞIRAN YILMAZ	167
The Effect of Psychological Violence (Mobbing) Perception on Job Satisfaction in Healthcare Professionals Bircan Türedi, İsmail Seçer, <u>Okan Anıl Aydın</u>	168
Comparative Effects of Radial and Focused Extracorporeal Shock Wave Therapies in Coccydynia. <u>Volkan Şah</u> , Sadi Elasan, Şeyhmus Kaplan	169
Are 5G Technologies Dangerous for the Kidneys of Diabetic Patients?  Hava Bektas	170
The Relationship between the Attitudes of Midwifery Department Students Towards Euthanasia and Their Religious Attitudes Özlem Doğan Yüksekol, Özlem Koç, Nazlı Baltacı, Habibe Polat	171
Features of Lipid Metabolism in Patients with Mechanical Jaundice and Hypertension  Vorobiova Daryna, Ostanina Tetyana, <u>Voronkova Yuliia</u> , Fawzy Yelyzaveta	172
Endothelial Nitric Oxide Synthase Glutamic Acid 298 Aspartic Acid Polymorphism Genotyping in Patients of End Stage Renal Disease Sana Khurshid, Muhammad Babar Mahmood, Mohammad Yasin	173
The Diagnostic Potential of Three-Dimensional Imaging in Orthopedic Dentistry  Roman Okhrimenko, Pavlo Kindiy, Viktoriia Hryhorieva, Viktoriia Tertuchna	174



Telmisartan and Irbesartan Augment Glyoxalase 1 Activity and Glutathione Concentration <u>Mustafa Kırça</u>	175
Using of Modified External Fixator in Extremities Long Bone Fractures in Cats  Mehmet SAGLAM, Mehmet YESILOREN	176
Amniotic Fluid Derived Stem Cells as a Promising Stem Cell Type: Isolation, Characterization, and Inter Passage Comparison  Tayfun Dikmen, Metin Erdoğan, Korhan Altunbaş	177
A magnetic platform (SPION loaded PLGA nanofibers) for Neural Differentiation of Mesenchymal Stem Cells Zahra Hesari, Mahdieh Mohammadalizadeh, Sara Dabirian	178
Investigation of the Release of Growth Factors from Nanofiber Mat Loaded with Apheresis Platelet Concentrate (APC) <u>Hülya Yılmaz</u> , Cansu Aras, Mehmet Karaçay, Merve İlkay Altuntuğ Cesur, Esra Karaca, Şehime Gülsün Temel, Barbaros Oral, Ekrem Kaya	179
Explant Culture of Adipose Tissue: A Preliminary Study <u>Özlem Özden-Akkaya</u>	180
Isolation of Commensal <i>Escherichia coli</i> From Cow Manure Resistant to Third Generation of Cephalosporins Maksud Krluku, Katerina Blagoevska, Marija Ratkova Manovska, Zehra Hajrulai Musliu, Dean Jankuloski	18:
Comparison of Four Commercial Methods for the Extraction DNA by Two Molecular Methods for <i>Tritrichomonas foetus</i> DNA Identification in Spiked Feline Feces <u>Joanna Dąbrowska,</u> Maciej Kochanowski, Jacek Karamon, Jacek Sroka, Tomasz Cencek	182
Theoretical prediction of <i>Staphylococcus aureus</i> and <i>Pseudomonas aeruginosa</i> adhesion on 3D printing filament materials <u>Safae ER RAOUAN</u> , Nouhaila ZOUINE, Elhassan EL HARCHLI, Soumya EL ABED, Moulay SADIKI, Naima EL GHACHTOULI, Mohammed LACHKAR, Saad IBNSOUDA KORAICHI	183
Examining of Fear of Birth and Prenatal Attachment in Expectant Mothers and Fathers Ebru Kiraz, <u>Duygu Gulec Satir</u>	18
Epidemiology of Bovine Tuberculosis from Past to Present in Turkey <a href="Sahin Cakir">Sahin Cakir</a> , Ediz Kağan Özgen	18
Some Information About Brucella Field Strains Isolated in Turkey in 2021 <u>Kadir Akar</u> , Emin Ayhan BAKLAN	180
Biofilm Formation of <i>Azotobacter</i> Isolates under Different Temperatures and Phosphate Levels <u>Sedat Çam</u>	18
Combined Effect of Two Medicinal Plants; Garlic ( <i>Allium Sativum</i> L.), Onion ( <i>Allium Cepa</i> L.) With Probiotics Against Helicobacter Pylori Bouhenni Hasna, Doukani Koula	188
Characterization of <i>Escherichia coli</i> From the Isolates of the Burn Wound  Iman Abdulqader Younis Al Sarhan, Sedat Cam	18
Isolation and Characterization of <i>Klebsiella Pneumoniae</i> From Urinary Tract Infection <u>Bangeen Hasan Hussein Alatroshi</u> , Sedat Çam	19
Histological Study of Platelet-Rich Plasma-added Vitrification Solution In Rat Ovarian Tissue Vitrification <u>Aylin Gökhan</u>	19
First Molecular Detection of Chicken Anemia Virus (CAV) and <i>Gyrovirus galga</i> 1 from Domestic Pigeons ( <i>Columba livia domestica</i> ) in Turkey. <u>Turhan Turan</u>	19
The First Molecular Detection of Two Gyroviruses (Chicken Anemia Virus and Gyrovirus galga 1) from Domestic Cats in Turkey  Hakan Işıdan	19
Investigation of 25-OH Vitamin D, Magnesium and Phosphorus Levels in SARS-CoV-2 Patients by Disease Severity Recai Aci, Emine Altın, Adem Keskin, Utku Duran	19
The Effect of Rabies Immunoglobulin (RIG) Applied to the Anterolateral Thigh on Muscle Functions and Acute Pain	
Tracking	195
Mehmet KARAGÜLLE, İrem SÜZEN, <u>Ayşenur DAYAN</u> Everession of VIDA and VIDA Proteins of Regime Potaginus in Lastobasillus sassi	
Expression of VP4 and VP7 Proteins of Bovine Rotavirus in <i>Lactobacillus casei</i> <u>Emine ATALAY,</u> İbrahim SÖZDUTMAZ	190



Examination of HCV RNA Results and HCV Antigen Test Results of Patients with Low Titer Anti-HCV Positiviness Hacer İşler, Eşe Başbulut, Melek Bilgin	197
Investigation of Lumpy Skin Disease Virus in <i>Culicoides</i> spp. in the Aegean Region <u>Murat Kaplan</u>	198
Bioinformatics Analysis to Identify and Evaluate the Critical Driver Genes and Pathways Involved in COVID-19 <u>Hamid Ceylan</u>	199
Investigation of Bovine Coronavirus Infection in Afyonkarahisar Province in the Inner Aegean Region of Turkey Ömer Barış İnce, Ahmet Sait	200
Investigation of Newborn Calf Diarrhea Causing Pathogen Distribution in the Emergency Unit of Animal Hospital Serkan Kokkaya, Ayse Gençay Göksu, Ibrahim Sözdutmaz, Emrah Simsek, Nurettin Çanakoglu, Gencay Ekinci, Ihsan Keles, <u>Engin Berber</u>	201
Comparison of Different Virus Sampling Technics in A Bovine Coronavirus Model Gizem Aytogu, Berfin Kadiroğlu, <u>Kadir Yesilbag</u>	202
The Effect of the COVID-19 Pandemic of the Professional Image Perception of Nurses <u>Hilal Karadeniz</u> , Ayşenur Durmuş, Ceyda Su Gündüz, Gamze Bilgiç, Özlem Can Gürkan	203
The Relationship between COVID-19 Awareness and Vaccine Hesitancy among University Students Handan Eren	204
The Effect of Mothers' Care Burden on the Parent Child Relationship During the Covid-19 Pandemic Process Gülsün AYRAN, Hamide Nur ÇEVİK ÖZDEMİR, Semra KÖSE	205
Hepatitis A Virus Detection in Shellfish by Real Time Reverse Transcription PCR from Comparative Three Moroccan Lagoons <u>Rihabe Boussettine</u> , Najwa Hassou, Mehdi Maanan, Hlima Bessi, Moulay Mustapha Ennaji	206
Detection of Hepatitis A and Hepatitis E Virus in Mussels from Oued Cherrat Outlet in Morocco  Hanaâ Bazir, Najwa Hassou, Fatiha El Mellouli, Hasnae Zekhnini, My Mustapha Ennaji	207
Examination of Women Healthcare Professionals' Work-Family Life Balance and Burnout with in the Covid-19 Period Gülcan Bahçecioğlu Turan, Özlem Koç, <u>Filiz Ersöğütçü</u>	208
Investigation of Gastrointestinal Helminths in Cattle in Ağrı Center and Its Districts <u>Milad Torkamanian Afshar</u> , Rahmi Yıldız, Selahattin Aydemir, Hasan Yılmaz	209
Grass Snakes ( <i>Natrix natrix</i> ) As A Reservoir of <i>Alaria Alata</i> and Other Parasites, As A Potential Danger for Human Health Aneta Bełcik, Ewa Bilska-Zając, Mirosław Różycki, Weronika Korpysa-Dzirba, Jacek Karamon, Maciej Kochanowski, Tomasz Cencek	210
Investigation of Intestinal Parasites in Hypertension Patients Abdurrahman EKİCİ, Nurhan KARAKUŞ, <u>Selahattin AYDEMİR</u>	211
Molecular Confirmation of <i>Taenia pisiformis</i> Cysticercosis in Rabbit in Poland <u>Małgorzata Samorek-Pieróg</u> , Jacek Karamon, Adam Brzana, Tomasz Cencek	212
Rapid Detection of Fasciolosis in Large Ruminants of Pakistan <u>Kiran Afshan</u> , Maria Komal, Seemi Zafar, Sabika Firasat, Mazhar Qayyum	213
In-ovo Antiviral Activity of <i>Centella asiatica</i> (L.) Leaves Against Avian Influenza Virus H9N2 Alia Saif, <u>Muhammad Ovais Omer</u> , Muhammad Adil Rasheed, Aftab Ahmad Anjum	214
Distribution and Identification of The Parasitic Nematode <i>Contracaecum</i> sp. in <i>Planiliza abu</i> (Heckel, 1843) ( <i>Mugiliformes, Mugilidae</i> ) From Razzaza Lake, Karbala Province, Iraq Marwa Jawad, Zahraa Mohammed Ridha, <u>Firas Alali</u> , Saeed Alashram, Asaad Sh. M. Alhesnawi	215
Molecular Characterization of <i>Toxoplasma gondii</i> and its Zoonotic Potential for Public Health Significance <u>Muntazir Mehdi</u> , Mian Abdul Hafeez, Kamran Ashraf, Adeel Sattar, Faiza Aslam, Syeda Fakhra Waheed, Muhammad Nasir Bhaya	216
Trichinellosis Outbreak in Poland after Consumption of Sausage Made of Wild Boar Meat <u>Weronika Korpysa-Dzirba</u> , Mirosław Różycki, Aneta Bełcik, Tomasz Cencek	217
Eimeria Infections in Partridges (Alectoris chukar)  Tuğçe Tuygun, Mehmet Öztürk, Şinasi Umur	218
Synovial Hemangioma of the Stifle Joint in a Kangal Dog Belma DAYI, Alper SEVİMLİ	219
	21



Pros and Cons of Distance Education in Teaching History of Veterinary Medicine <u>Aytaç Ünsal Adaca</u>	220
The Effect of Using Different Litter Materials in Broiler Breeding on Performance, Carcass Yield, Antioxidant Status, Some Litter Parameters and Coccidiosis Oocysts Gökhan Şen, Sami Gökpınar, <u>Şevket Evci</u> , Mehmet Naci Oktay, Ali Şenol	221
Genetic Analysis of <i>BMP4, GLI2</i> and <i>SHH</i> Genes in Sheep and Goat Affected with Atresia Ani with Candidate Gene Approach  Muhammad Sheraz, Haiba Kaul, Shafqat Nawaz Qaisrani, Hafiz Ishfaq Ahmad	222
Evaluation of Land Cover Status of Protected Areas Using GIS and Remote Sensing Techniques  Abderrafea Elbahi, Colin Lawton, Jamila Hermas, Michel Dugon	223
A Study on Cytotoxicity Induced by Extracts Obtained from Algerian Fir (Abies numidica de Lannoy ex CARRIERE) Leaves using <i>Artemia salina</i> Djamila Benouchenne, Ines Bellil, Douadi Khelifi	224
Determination of Antibiofilm and Antiquorum Sensing Activities of Silver Nanoparticles Synthesized by Green Method Using Algae Species ilkay AÇIKGÖZ ERKAYA, Dilek YALÇIN, Belgin ERDEM	225
Anaerobic Digestion of Lignocellulosic Content Using Cattle Manure and Ruminal Waste <u>Fatih Şevki ERKUŞ</u> , Koray TUNCAY	226
Computational Analysis of Amaging NsSNP in Human STXBP1 Gene Involved in Early Infantile Epileptic Encephalopathy: Molecular Modelling and Dynamics Study Krami Al mehdi, Roky Rachida, Barakat Abdelhamid	227
Impact of climate change on Ecological balance and Biodiversity <u>Sanaâ KAMTASS</u> , Ayoub NAAMANE, Souad EL AMRANI	228
Determination of Areas to be in Hippotherapy Application Facilities <u>Ali Ekber Ün</u> , Bahar Özsoy, Merve Bitkin, Cafer Yıldırım	229
Knowledge, Attitudes, and Practices (KAP) Survey Regarding COVID-19 in Punjab-Pakistan <u>Muhammad Haris Khan</u> , Muhammad Hassan Mushtaq, Ubaid-Ur-Rehman Zia, Muhammad Bilal, Muhammad Yasir  Zahoor, Ahmad Umar	230
Frequency and Distribution of Simple Sequence Repeats in Retroviridae (RV) genomes  Md Gulam Jilani, Safdar Ali	231
Gene Expression Analysis using Western Blot Analysis in <i>Yersinia ruckeri</i> Isolates Şükrü Önalan, <u>Gökhan Görgişen</u> , Burcu Ergöz	232
Investigation of The Effects of Some Phytochemicals on <i>Yersinia ruckeri</i> and Antimicrobial Resistance Şükrü ÖNALAN, <u>Mustafa ÇEVİK</u>	233
The Effect of COVID-19 Vaccine Literacy on Attitudes Towards COVID-19 Vaccine Among University Students  Mahinur Durmus Iskender, Handan Eren, Ayşenur Durmuş	234
Determination of Antibiotic Resistance Profiles in <i>Acinetobacter</i> Species Isolated from Tank Milk <u>Cansu Önlen Güneri</u>	235
Determination of the Presence and Antibiotic Resistance Profile of <i>Escherichia coli</i> Isolated from White Brined Cheese Pelin Koçak Kizanlik, <u>Cemil Şahiner</u> , Ergün Ömer Göksoy	236
Potential Use of Propolis in Phytocosmetic as Aesthetic and Phytotherapeutic Constituent  Narimane Segueni	237
The Effect of Sunflower Seed on Milk Quality of Dromedary Camel  Taherah Mohammadabadi	238
Microbial Quality of Ayran Produced with Different Nutritional Fibers Halil Yalçin, İlhan Gün, Ali Soyuçok	239
Relationships Between Catalase, Reduced Glutathione, Malondialdehyde, Vitamin C and Total Protein Levels in Simmental Cow's Milk and Milk Cells Filiz Kazak, Pınar Coskun	240
The Effect of Confusion Caused by Conflicting Information About Nutrition on Healthy Eating Attitudes and Behaviours of Individuals  Recep Kara, Berra Ceylan	241



Biofilm Inhibition Efficacy of Quaternary Ammonium Compounds against <i>Pseudomonas aeruginosa</i> Strains Gizem Çufaoğlu	242
Quantitative Microscopic Analysis of Seasonal Functioning Rhythm of Dromedary Camel Testis Form Southern Algeria <u>Djalel Eddine Gherissi</u> , Chikha Maria, Lamraoui Ramzi, Chacha Faycel, Farida Afri Bouzebda, Zoubir Bouzebda	243
Evaluation of Acrosome Integrity of Frozen-Thawed Simmental Bull Semen with Different Staining Methods <u>Emre Kara</u> , Mesut Çevik	244
Synthesis, Biological Screening and Computational Studies of Five Membered Heterocyclic Hybrids Containing Oxygen, Nitrogen and Sulfur as Potential Anticancer and Antimicrobial Agents <u>Afzal Basha Shaik</u> , Richie R Bhandareh, Dilep Kumar. Sigalapalli	245
Seminal Plasma Mitochondrial Adenosine Triphosphate Synthase 6, Manganese Superoxide Dismutase, Cytochrome P450 Reductase and Lactate Dehydrogenase Levels of Male with Oligozoospermic and Normozoospermic Emine Nedime Korucu, Esma Menevse, Duygu Dursunoglu, Nihal Cetin, Fatma Zehra Erbayram	246
Investigation of the Effects of Syringic Acid and Sinapic Acid on Brain Tissue Against Cadmium Toxicity in Mice Yaşar ŞAHİN, Merve BİŞKİN TÜRKMEN, Mehmet Eray ALÇIĞIR	247
Canine Coronavirus Antibodies Seroprevalence and Associated Risk Factors among Pet and Kennelled Dogs in Turkey <u>Murat ŞEVİK</u>	248
Mothers' Experiences and Product Choices in Complementary Feeding Period: A Qualitative Study  Hilal Hızlı Güldemir, Hilal Ecren İlter Duman, Hüseyin Aydın	249
Investigation the Apoptotic Effects of Indomethacin on SH-SY-5 Neuroblastoma cell line Berna ÖZDEM, Ayten KILINÇLI ÇETİN, İbrahim TEKEDERELİ	250
Calcium-Dependent Cysteine Protease with Fibrinolytic Potential in <i>Melia dubia</i> Latex Nithya Rani, Thirumoorthy Chinnasamy, Vikas Halasumane Swamy, Gouri Deshpande, Raghu Ram Achar	251
POSTER PRESANTATION	252
Evaluation of Efficacy of Synthesized Antibody-Drug Conjugate (Maytansinoid-Trastuzumab Monoclonal); A Lab-Scale Study <u>Leila Farahmand</u> , Roya Mirzaei, Amir Taheri, Neda jalili, Malihe Salehi, Maryam Ahani	253
Bacterial Diversity in Water from Lai Nullah Contaminated with Household Sewage and Industrial Waste	254
Wishal Khan, Muhammad Abrar Yousaf  In Silico Analysis and Identification of Honey Flavonoids as Potential Inhibitors of RNA-Dependent RNA Polymerase and Main Protease of SARS-CoV-2	255
Muhammad Abrar Yousaf, Wishal Khan Studies on Bioaccumulation of Toxins in The Sediment and Fishes of River Ganges	256
Aradhna Gupta, Bechan Sharma, <u>Nikhat J Siddiqi</u>	256
Comparative Evaluation of Nutrient Digestibility of Agro-Industrial Waste by in-Situ and Artificial Rumen Method in Buffalo Muhammad Zaman Zahid, <u>Abdur Rahman</u> , Zafar Hayat, Syed Ehtisham Ul Haque, Eyup Eren Gultepe, Syed Aun Muhammad, Huma Kalsoom	257
Potential of use of Essential Oils in Biological Control  Pinar Güner, Erinç Çelik	258
Hesitancy and Barriers of Iraqi Medical Students Against COVID-19 Vaccine <u>Wassan Nori</u> , Rihab Abbas Ali' Maher Abbood Mukheef	259
Functional Properties of the Citrus Family  Zübeyde POLAT, Halil YALÇIN	260
The Efficiency of Rehabilitation for Fractures of the Distal Humerus Metaepiphysis Fractures	261
<u>Dmitriy Nosivets</u> , Oleksii Vinnyk  Rehabilitation of the Elderly Patients with the Fractures of Distal Metaepiphysis of the Radial Bone	
Oleksii Vinnyk, Dmitriy Nosivets	262
Synthesis, Biological Activity, and Molecular Docking Assessment of Some New Sulfonylated Tetrazole Derivatives Mohammad Arshad	263
Effects of Commercial Premix (Bullfeed®) on Lipid Peroxidation and Non-Enzymatic Antioxidants After Transport in Beff Cattle  Erkan ŞAHİN, Miyase ÇINAR, Özkan DURU, Ali ŞENOL	264
Utilization of Free-Floating Macrophytes and Fertilizer Impact on Production of <i>Labeo rohita</i> , Feeding Preference and Growth Performance	265



ONLINE 24-25-26-27 FEBRUARY 2022

**Oral Presentation** 

# The Effect of Rabies Immunoglobulin (RIG) Applied to the Anterolateral Thigh on Muscle Functions and Acute Pain Tracking

Mehmet KARAGÜLLE<sup>1</sup>, İrem SÜZEN<sup>2</sup>, <u>Ayşenur DAYAN<sup>3</sup></u>

<sup>1</sup>Antalya Bilim University, Vocational School of Health Services, Antalya, Turkey
<sup>2</sup>Antalya Bilim University, Faculty of Health Sciences, Department of Physiotherapy and Rehabilitation, Antalya, Turkey
<sup>3</sup>Antalya Bilim University, Faculty of Health Sciences, Department of Nursing, Antalya, Turkey

Corresponding author: aysenur.dayan@antalya.edu.tr

#### Abstract

Rabies is a zoonotic disease caused by Rhabdovirus, which causes severe damage to the central nervous system. Prophylaxis should be administered in case of bite, scratching or contact of saliva from a rabid animal with mucous membranes or open wounds. Since the incubation period in rabies is variable, it is categorized according to the type of contact and appropriate prophylaxis methods are applied according to WHO recommendations and the Ministry of Health Rabies Prophylaxis Guide. 4 or 5 doses of rabies vaccine, tetanus vaccine and RIG are administered in different protocols depending on the severity of the situation. The wound periphery, M. deltoideus and vastus lateralis part of M. quadriceps femoris are preferred as the application site for RIG. Rabies vaccine, tetanus vaccine, and rabies immunoglobulin (RIG) were administered to the case, who was admitted to the hospital as a stage 3 rabies suspect. The patient, aged 30 years and weighing 70 kg, was injected with 2800 IU (40 IU per kg) rabies immunoglobulin (RIG) from the anterolateral thigh to both vastus lateralis. As a result, muscle strength and VAS (Visual Analog Scale), a pain assessment scale, were measured by two different observers. Knee extension was 2+ on Day 1, 3+ on Day 5, and 5 on Day 9. Knee flexion was 2+ on Day 1, 4 on Day 5, and 5 on Day 9. In addition, the VAS in the case was evaluated as 7 immediately after the RIG application, and the VAS was expressed as 0 from the 9th day of follow-up. It is normal to experience some loss of knee extension after an irritating injection here. However, the vastus lateralis muscle has no role in hip flexion. It is not known exactly whether the hip flexion loss in our case is due to the indirect involvement of the femoral nerve or the continuous fascial (fascia profunda) connection of the muscles with each other. We think that clinical tests and measurements on this subject will be useful.

Keywords: rabies immunoglobulin, muscle functions, pain