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ScopusID: 15022421000

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Education Information

Doctorate, Ankara University, Sağlık Bilimleri Enstitüsü, Veterinerlik Viroloji (Dr), Turkey 1994 - 2000

Undergraduate, Ankara University, Veteriner Fakültesi, Veteriner Pr., Turkey 1988 - 1993

Undergraduate, Ankara University, Veteriner Fakültesi, Veteriner Pr., Turkey 1988 - 1993

Dissertations

Doctorate, Marmara bölgesindeki keçilerde OAV-1, OAV-2, OAV-3, OAV-5 ve BAV-1, BAV-2, BAV-3'xxe karşı antikor dağılımının araştırılması, Ankara University, Sağlık Bilimleri Enstitüsü, Veterinerlik Viroloji (Dr), 2000

Research Areas

Health Sciences

Academic Titles / Tasks

Professor, Ondokuz Mayıs University, Veteriner Fakültesi, Klinik Öncesi Bilimler Bölümü, 2015 - Continues

Associate Professor, Ondokuz Mayıs University, Veteriner Fakültesi, Klinik Öncesi Bilimler Bölümü, 2008 - 2015

Assistant Professor, Ondokuz Mayıs University, Veteriner Fakültesi, Klinik Öncesi Bilimler Bölümü, 2003 - 2008

Lecturer PhD, Canakkale Onsekiz Mart University, Çanakkale Sağlık Yüksekokulu, Hemşirelik Bölümü, 2000 - 2003

Academic and Administrative Experience

Ondokuz Mayıs University, 2018 - Continues

Ondokuz Mayıs University, 2018 - Continues

Courses

Hayvansal Üretim ve Gıda Güvenliği Grubu, Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012
Özel Viroloji, Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2009 - 2010, 2008 - 2009
Klinik Bilimleri ve Laboratuvar Tanı Grubu , Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012
Genel Viroloji, Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009
Virolojik çalışmalarda kullanılan invivo ve invitro sist. ve Uyg, Postgraduate, 2012 - 2013
Vasatlar Filtrasyon ve Uygulamaları , Postgraduate, 2012 - 2013
Viral hastalıkların patogenezi ve immunité , Postgraduate, 2011 - 2012
Elisa ve Floresan Antikor Tekniği , Postgraduate, 2011 - 2012
Prion Hastalıkları , Postgraduate, 2011 - 2012
Virusların genel özellikleri , Postgraduate, 2011 - 2012
Viral hastalıkların koruma control ve eradikasyonu , Postgraduate, 2011 - 2012
Viral Hastalıkların Epidemiyolojisi , Postgraduate, 2011 - 2012, 2010 - 2011
Domuz hastalıkları, Undergraduate, 2010 - 2011, 2009 - 2010
Laboratuvar Tanı Yöntemleri , Undergraduate, 2010 - 2011, 2009 - 2010
Kanatlı ve Balıkların Viral Hastalıkları , Postgraduate, 2010 - 2011
Kanatlı Hayvan Hastalıkları, Undergraduate, 2010 - 2011, 2009 - 2010
Virusların İdentifikasyonunda Fiziksel Kimyasal ve Serolojik Metodlar ve Uygulamaları , Postgraduate, 2010 - 2011
Viral Aşılar , Undergraduate, 2009 - 2010
Genel Viroloji , Undergraduate, 2007 - 2008, 2006 - 2007, 2004 - 2005
Özel Viroloji, Undergraduate, 2007 - 2008, 2006 - 2007, 2004 - 2005

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **First isolation and molecular characterization of canine parvovirus-type 2b (CPV-2b) from red foxes (*Vulpes vulpes*) living in the wild habitat of Turkey**
Kuruçay H. N., Tamer C., Müftüoğlu B., Elhag A. E., Gözel S., Cicek-Yildiz Y., Demirtaş S., Özán E., Albayrak H., Okur-Gumusova S., et al.
VIROLOGY JOURNAL, vol.20, no.1, 2023 (SCI-Expanded)
- II. **The first serological detection of West Nile virus infection among residents living in northern Turkey**
Taskin M. H., Tamer C., Müftüoğlu B., Özán E., Kilic S. S., Akkoyunlu G. K., Kuruçay H. N., Albayrak H., Igde M., Mesquita J. R., et al.
JOURNAL OF VECTOR BORNE DISEASES, vol.60, no.1, pp.101-105, 2023 (SCI-Expanded)
- III. **INFECTIVITY AND REPLICATION INHIBITION EFFECT OF 5-FLUOROURACIL ON HERPES SIMPLEX VIRUS TYPE-1 ASSOCIATED WITH MUTATIONS IN THYMIDINE KINASE GENE**
Taskin M. H., Kuruçay H. N., Kadi H., Tamer C., Özán E., Müftüoğlu B., Albayrak H., Gümüşova S., Igde M., Elhag A. E., et al.
FARMACIA, vol.70, no.6, pp.1105-1113, 2022 (SCI-Expanded)
- IV. **Oxidative Stress Induction by Infectious Pancreatic Necrosis Virus in RTG-2 Cell Line**
Gümüşova S., Yarım G. F., Tamer C., Salt A., İnat G.
PAKISTAN JOURNAL OF ZOOLOGY, vol.54, no.3, pp.1459-1461, 2022 (SCI-Expanded)
- V. **Sentinel serosurveillance of backyard hens proved West Nile virus circulation in the western provinces of Turkey**
Albayrak H., Sahindokuyucu I., Müftüoğlu B., Tamer C., Kadi H., Özán E., Yilmaz O., Kilic H., Kuruçay H. N., Coven F., et al.
VETERINARY MEDICINE AND SCIENCE, vol.7, no.6, pp.2348-2352, 2021 (SCI-Expanded)
- VI. **Comparison of immune response between Escherichia coli-derived recombinant subunit vaccine and formol-inactivated whole particle vaccine against viral haemorrhagic septicaemia virus (VHSV) in rainbow trout**
Tamer C., Albayrak H., Gümüşova S.

AQUACULTURE RESEARCH, vol.52, no.6, pp.2706-2714, 2021 (SCI-Expanded)

- VII. **Marek's disease virus in vaccinated poultry flocks in Turkey: its first isolation with molecular characterization**

Özan E., Müftüoğlu B., Sahindokuyucu I., Kuruçay H. N., İnal S., Kuruca Şahbazıoğlu N., Elhag A. E., Karaca E., Tamer C., Gümüşova S., et al.

ARCHIVES OF VIROLOGY, vol.166, no.2, pp.559-569, 2021 (SCI-Expanded)

- VIII. **Serological study on the presence of some alpha-herpesviruses in goats of northern Anatolia, Turkey**

Yazıcı Z., Özan E., Tamer C., Müftüoğlu B., Elhag A. E., Bas O., Arslan S., Gümüşova S., Albayrak H.

VETERINARY RESEARCH FORUM, vol.12, no.3, pp.273-276, 2021 (SCI-Expanded)

- IX. **Circulation of Indigenous Bovine Respiratory Syncytial Virus Strains in Turkish Cattle: The First Isolation and Molecular Characterization**

Yazıcı Z., Özan E., Tamer C., Müftüoğlu B., Barry G., Kuruçay H. N., Elhag A. E., Cagırgan A. A., Gümüşova S., Albayrak H.

ANIMALS, vol.10, no.9, 2020 (SCI-Expanded)

- X. **Molecular identification and phylogeny of bovine herpesvirus-1 (BoHV-1) from cattle associated with respiratory disorders and death in Turkey**

Albayrak H., Tamer C., Özan E., Müftüoğlu B., Kadi H., Dogan F., Akman A., Cagırgan A. A., Elhag A. E., Kuruçay H. N., et al.

MEDYCYNA WETERYNARYJNA-VETERINARY MEDICINE-SCIENCE AND PRACTICE, vol.76, no.6, pp.358-361, 2020 (SCI-Expanded)

- XI. **A Study on the Identification of Five Arboviruses from Hematophagous Mosquitoes and Midges Captured in Some Parts of Northern Turkey**

Ozan E., Albayrak H., Gümüşova S., Bölükbaş C. S., Kurt M., Pekmezci G. Z., Beyhan Y. E., Kadi H., Kaya S., Aydın I., et al.

JOURNAL OF ARTHROPOD-BORNE DISEASES, vol.13, no.2, pp.224-233, 2019 (SCI-Expanded)

- XII. **Serological Signs of West Nile Virus Infection in Horse Serum Samples Collected for Equine Infectious Anemia Virus screening in the Northeastern Turkey: Traces of Past**

Yazıcı Z., Tamer C., Gümüşova S., Özan E., Hacıoğlu S., Özkul A., Albayrak H.

PAKISTAN VETERINARY JOURNAL, vol.39, no.1, pp.121-123, 2019 (SCI-Expanded)

- XIII. **Serological data of bovine herpes virus type-1 and bovine viral diarrhea virus infections in various ruminants in small-scale farms in the Central and Eastern Black Sea Region, Turkey**

Tamer C., Palancı H. S., Yazıcı Z., Bayram E., Cakmak M., Özan E., Kadi H., Onkol S., Gümüşova S., Albayrak H.

INDIAN JOURNAL OF ANIMAL RESEARCH, vol.52, no.6, pp.903-906, 2018 (SCI-Expanded)

- XIV. **Molecular identification and phylogenetic analysis of non-cytopathic bovine viral diarrhea virus isolate obtained from a local respiratory outbreak in Northern Turkey**

Yazıcı Z., Gümüşova S., Tamer C., Cagırgan A. A., Akman A., Özan E., Kadi H., Palancı H. S., Albayrak H.

Medycyna Weterynaryjna, vol.73, no.5, pp.284-288, 2017 (SCI-Expanded)

- XV. **Caprine Arthritis Encephalitis and Bluetongue Virus Infections in Maltese, Saanen and Hair Goat Breeds**

Gümüşova S., Memiş Y. S.

PAKISTAN JOURNAL OF ZOOLOGY, vol.48, no.5, pp.1567-1568, 2016 (SCI-Expanded)

- XVI. **Detection of Enzootic Bovine Leucosis in Suspected Herd**

Gümüşova S., Albayrak H., Ozan E., Yazıcı Z.

PAKISTAN JOURNAL OF ZOOLOGY, vol.47, no.4, pp.1196-1198, 2015 (SCI-Expanded)

- XVII. **Ebola virus disease and the veterinary perspective**

Gümüşova S., Sunbul M., Leblebicioğlu H.

ANNALS OF CLINICAL MICROBIOLOGY AND ANTIMICROBIALS, vol.14, 2015 (SCI-Expanded)

- XVIII. **Serological Status of Bovine Herpes Virus Type 1 in Cattle in Small Scale Private Farms in the Central Black Sea Region, Turkey**

Yazıcı Z., Albayrak H., Ozan E., Gümüşova S.

PAKISTAN VETERINARY JOURNAL, vol.35, no.1, pp.101-102, 2015 (SCI-Expanded)

XIX. The First Investigation of West Nile Virus in Horses Using Real Time RT-PCR in Middle Black Sea Region in Turkey

Yazıcı Z., Albayrak H., Ozan E., Gümüşova S.

JOURNAL OF ARTHROPOD-BORNE DISEASES, vol.6, no.2, pp.151-155, 2012 (SCI-Expanded)

XX. Molecular detection of pestiviruses in aborted fetuses from provinces in northern Turkey

Albayrak H., Gümüşova S., Ozan E., Yazıcı Z.

TROPICAL ANIMAL HEALTH AND PRODUCTION, vol.44, no.4, pp.677-680, 2012 (SCI-Expanded)

XXI. Molecular diagnosis and seroepidemiology of pestiviruses in sheep

Yazıcı Z., SERDAR M. A., Gümüşova S., Albayrak H.

VETERINARSKI ARHIV, vol.82, no.1, pp.35-45, 2012 (SCI-Expanded)

XXII. Prevalence of three honey bee viruses in Turkey

Gümüşova S., Albayrak H., Kurt M., Yazıcı Z.

VETERINARSKI ARHIV, vol.80, no.6, pp.779-785, 2010 (SCI-Expanded)

XXIII. First Identification of Hepatitis a Virus RNA in Mussels (Mytilus sp.) in Turkey

Terzi Gülel G., Albayrak H., Yazıcı Z., Gümüşova S., ÇELİK T. H.

JOURNAL OF ANIMAL AND VETERINARY ADVANCES, vol.9, no.11, pp.1584-1587, 2010 (SCI-Expanded)

XXIV. Pestivirus seroprevalence in sheep populations from inland and coastal zones of Turkey

Gümüşova S., Yazıcı Z., Albayrak H.

Revue de Medecine Veterinaire, vol.157, no.12, pp.593-596, 2006 (SCI-Expanded)

Articles Published in Other Journals

I. A one-year extensive molecular survey on SARS-CoV-2 in companion animals of Turkey shows a lack of evidence for viral circulation in pet dogs and cats

Kadi H., Kuruçay H. N., Elhag A. E., Dogan F., Yildirim S., Tutuncu H., Müftüoğlu B., Tamer C., Gümüşova S., Yazıcı Z., et al.

VETERINARY AND ANIMAL SCIENCE, vol.19, 2023 (ESCI)

II. Detections of Rainbow Trout Antibodies to Infectious Pancreatic Necrosis Virus and Viral Hemorrhagic Septicemia Virus via a Recombinant Protein-Based Enzyme-Linked Immunosorbent Assay

TAMER C., GUMUSOVA S., ALBAYRAK H.

Aquaculture Studies, vol.22, no.1, pp.669, 2022 (Peer-Reviewed Journal)

III. Feline İnfeksiyöz Peritonitise Genel Bakış ve Antiviral Yaklaşımlar

KURUÇAY H. N., GÜMÜŞOVA S.

Turkish Veterinary Journal, 2021 (Peer-Reviewed Journal)

IV. Bluetongue seroprevalence in dog, cattle, goat and sheep

BAYRAM E., GÜMÜŞOVA S.

Mehmet Akif Ersoy Üniversitesi Veteriner Fakültesi Dergisi, vol.6, no.3, pp.99-103, 2021 (Peer-Reviewed Journal)

V. Effect of quercetin on infectious pancreatic necrosis virus: In vitro replication study

Yıldırım Ş., Gümüşova S.

Aquaculture Studies, vol.20, no.2, pp.113-119, 2020 (Scopus)

VI. Reverse Zoonotic Viral Infections

Tamer C., GÜMÜŞOVA S.

Erciyes Üniversitesi Veteriner Fakültesi Dergisi, vol.15, no.2, pp.154-160, 2018 (Peer-Reviewed Journal)

VII. Virüsler ve teratogenez

TAMER C., GÜMÜŞOVA S.

Etlik Veteriner Mikrobiyoloji Dergisi, vol.28, no.2, pp.115-122, 2017 (Peer-Reviewed Journal)

VIII. viral enfeksiyonlarda telomerase aktivitesi

Bayram E., Çenesiz M., Gümüşova S.

Harran Üniversitesi Veteriner Fakültesi Dergisi, vol.6, no.1, pp.108-111, 2017 (Peer-Reviewed Journal)

- IX. **KÜRESEL İKLİM DEĞİŞİKLİKLERİ VE VİRAL ENFEKSİYONLAR**
AKMAN A., GÜMÜŞOVA S.
Van Veterinary Journal, 2016 (Peer-Reviewed Journal)
- X. **Viral Enfeksiyonlarda Lipit yığınları**
Önkol Ş., GÜMÜŞOVA S.
Harran Üniv Vet Fak Derg, vol.5, pp.84-89, 2016 (Peer-Reviewed Journal)
- XI. **Bazı Viral Enfeksiyonlarda Melatoninin Etkileri**
GÜMÜŞOVA S., MEMİŞ Y. S.
Ataturk Üniversitesi Veteriner Bilimleri Dergisi, vol.9, no.1, pp.50-54, 2015 (Peer-Reviewed Journal)
- XII. **Seroprevalence to bovine herpesvirus type 1 in sheep in Turkey**
Albayrak H., Yazıcı Z., Gümüşova S.
Veterinarski Arhiv, vol.77, no.3, pp.257-263, 2007 (Scopus)
- XIII. **First report of bovine rotavirus and bovine coronavirus seroprevalance in goats in Turkey**
GÜMÜŞOVA S., YAZICI Z., ALBAYRAK H., CAKIROGLU D.
VETERINARSKI GLASNIK, vol.61, no.1-2, pp.75-79, 2007 (Peer-Reviewed Journal)
- XIV. **Serological profile of some viral infections in unvaccinated cattle in Turkey**
Yazıcı Z., Gümüşova S., Albayrak H.
Medycyna Weterynaryjna, vol.63, no.2, pp.187-189, 2007 (Scopus)
- XV. **Seroprevalance to Bovine Herpesvirus type1 in sheep in Turkey**
ALBAYRAK H., YAZICI Z., GÜMÜŞOVA S.
VETERINARSKI ARHIV, vol.77, no.3, pp.257-263, 2007 (Scopus)
- XVI. **Rotavirus and coronavirus prevalence in healthy calves and calves with diarrhoea**
Gümüşova S., Yazıcı Z., Albayrak H., Meral Y.
Medycyna Weterynaryjna, vol.63, no.1, pp.62-64, 2007 (Scopus)
- XVII. **Orta Karadeniz Bölgesinde Koyunlarda Mavdil Virus İnfeksiyonunun Serolojik Olarak İncelenmesi**
GÜMÜŞOVA S., YAZICI Z., ALBAYRAK H.
PRUEBAS, vol.6, no.1,2, pp.911-11, 2006 (Peer-Reviewed Journal)
- XVIII. **Erişkin Koyunlarda Bovine Coronavirus İnfeksiyonu**
GÜMÜŞOVA S., YAZICI Z., ALBAYRAK H.
PRUEBAS, vol.6, no.1,2, pp.5-7, 2006 (Peer-Reviewed Journal)
- XIX. **Survey for antibodies against to ovine adenoviruses OAV 1 2 3 5 and bovine adenoviruses BAV1 2 3 in goats of Marmara region**
GÜMÜŞOVA S., AKÇA Y.
VET J ANKARA UNİV, 2002 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Overview and antiviral approaches to feline infectious peritonitis**
KURUÇAY H. N., TAMER C., GÜMÜŞOVA S.
III. International "Başkent" Congress on Physical, Social and Health Sciences, Ankara, Turkey, 4 - 05 December 2021, pp.141
- II. **The first time isolation and characterization of indigenous Bovine respiratory syncytial virus strains of Turkey from respiratory disorders causing deaths in cattle**
ELHAG A. E., ÖZAN E., TAMER C., MÜFTÜOĞLU B., KURUÇAY H. N., GÜMÜŞOVA S., ALBAYRAK H., YAZICI Z.
EDUVET International Veterinary Sciences Congress, Samsun, Turkey, 25 - 27 June 2021, pp.78-79
- III. **Comparision of immun response between Escherichia coli-expressed vaccine and inactivated vaccine against Viral hemorrhagic septicemia virus (VHSV) in rainbow trout**
TAMER C., GÜMÜŞOVA S.
2nd International Congress of Veterinary Microbiology, Antalya, Turkey, 16 - 19 October 2018, pp.55

- IV. **Detection of rainbow trout antibodies to Viral hemorrhagic septicemia virus by a recombinant protein-based enzyme-linked immunosorbent assay**
TAMER C., GÜMÜŞOVA S., ALBAYRAK H.
2nd International Congress of Veterinary Microbiology, Antalya, Turkey, 16 - 19 October 2018, pp.233
- V. **Serological evidence of Lineage -1 West Nile virus infection in Ardahan Province, Northeast Turkey**
ALBAYRAK H., YAZICI Z., TAMER C., GÜMÜŞOVA S., OZAN E., CAVUNT A., KADI H., ÖZKUL A.
11th International Congress for Veterinary Virology, 12th Annual Meeting of EPIZONE, Viyana, Austria, 27 - 30 August 2018, pp.33
- VI. **A serological investigation of Lumpy skin disease and Crimean-Congo Hemorrhagic Fever in domestic water buffalo (*Bubalus bubalis* Linnaeus, 1758) in Samsun Province of Northern Turkey**
ALBAYRAK H., GÜMÜŞOVA S., YAZICI Z., TAMER C., OZAN E., CAVUNT A., KADI H., MUFTUOĞLU B.
11th International Congress for Veterinary Virology, 12th Annual Meeting of EPIZONE, Viyana, Austria, 27 - 30 August 2018, pp.36
- VII. **Serological status of West Nile virus in a private small scale thoroughbred horse farm in Turkey.**
YAZICI Z., TAMER C., OZAN E., GÜMÜŞOVA S., MUFTUOĞLU B., ALBAYRAK H.
11th International Congress for Veterinary Virology, 12th Annual Meeting of EPIZONE, Viyana, Austria, 27 - 30 August 2018, pp.34
- VIII. **Serological evidence of the first and newly isolated genotype C bovine parainfluenzavirus type -3 in archived ruminant sera in Turkey**
ALBAYRAK H., GÜMÜŞOVA S., TAMER C., OZAN E., CAVUNT A., KADI H., YAZICI Z.
11th International Congress for Veterinary Virology, 12th Annual Meeting of EPIZONE, Viyana, Austria, 27 - 30 August 2018, pp.32
- IX. **The Serological Evidence of West Nile Virus Infection in Backyard Hens in Western Anatolia, Turkey**
ALBAYRAK H., GÜMÜŞOVA S., TAMER C., OZAN E., CAVUNT A., KADI H., YAZICI Z.
11th International Congress for Veterinary Virology, 12th Annual Meeting of EPIZONE, Viyana, Austria, 27 - 30 August 2018, pp.33
- X. **In vitro determination of possible protective effect of apigenin on lipopolysaccharide-induced inflammation in renal cells.**
SELEN A., YARIM G. F., TAMER C., SALT A., GÜMÜŞOVA S.
1st International Veterinary Biochemistry and Clinical Biochemistry Congress, Hatay, Turkey, 12 - 15 April 2018, pp.282
- XI. **Investigation of relationship between the Infectious pancreatic necrosis virus induced cell injury and oxidative stress in vitro**
GÜMÜŞOVA S., YARIM G. F., TAMER C., SALT A., İNAT G.
1st International Veterinary Biochemistry and Clinical Biochemistry Congress, Hatay, Turkey, 12 - 15 April 2018, pp.187
- XII. **Effect of apigenin on titer of Herpes simplex virus-1**
YARIM G. F., SALT A., TAMER C., DELMEÇİOĞLU M. K., GÜMÜŞOVA S.
1st International Veterinary Biochemistry and Clinical Biochemistry Congress, Hatay, Turkey, 12 - 15 April 2018, pp.276
- XIII. **Evaluation of ethical attitudes of Ondokuz Mayıs University Veterinary Biochemistry Graduate Students to Experimental Animal Studies**
SANAL Ş., YARIM G. F., MENTEŞ GÜRLER A., GÜMÜŞOVA S.
5th International Conference on Education in Ethics, Mangalore, India, 15 - 17 November 2017
- XIV. **A phylogenetic analysis of non cytopathogenic Bovine viral Diarrhea virus isolates from heifers with respiratory disease**
ALBAYRAK H., TAMER C., ÇAĞIRGAN A. A., PALANCI H. S., GÜMÜŞOVA S., YAZICI Z.
6th EUROPEAN CONGRESS OF VIROLOGY, 19 - 22 October 2016
- XV. **A phylogenetic analysis of non cytopathogenic bovine viral diarrhea virus from heifers with respiratory disease**
ALBAYRAK H., TAMER C., CAGIRGAN A., PALANCI H. S., GÜMÜŞOVA S., YAZICI Z.

6 th European Congress Virology, 19 - 22 October 2016

- XVI. **Serological Signs of three important viral respiratory disease in various ruminants in small sized enterprises Turkey**
ALBAYRAK H., PALANCI H. S., TAMER C., BAYRAM E., ONKOL S., OZAN E., GÜMÜŞOVA S., YAZICI Z.
6 th European Congress of Virology, 19 - 22 October 2016
- XVII. **Serologic signs of three important viral respiratory diseases of in various ruminants in small sized enterprises Turkey**
ALBAYRAK H., PALANCI H. S., TAMER C., BAYRAM E., ÖNKOL Ş., ÖZAN E., GÜMÜŞOVA S., YAZICI Z.
6th, 19 - 22 October 2016
- XVIII. **Viral Mastitis in bovines sheeps and goats**
Akman A., GÜMÜŞOVA S.
3RD VET ISTANBUL GROUP CONGRESS SARAJEVO, 17 - 20 May 2016
- XIX. **Reverse viral zoonosis**
TAMER C., GÜMÜŞOVA S.
3rd Vetistanbul Group Congress 2016, Saray Bosna, Bosnia And Herzegovina, 17 - 20 May 2016
- XX. **Caprine arthritis encephalitis and bluetongue virus infections in goat breeds**
GÜMÜŞOVA S., Akman A.
3RD VET ISTANBUL GROUP CONGRESS SARAJEVO, 17 - 20 May 2016
- XXI. **Effects of global climatic change on viral infections**
Akman A., GÜMÜŞOVA S., ÇENESİZ M.
3RD VET ISTANBUL GROUP CONGRESS SARAJEVO, 17 - 20 May 2016
- XXII. **Reverse Viral zoonosis**
TAMER C., GÜMÜŞOVA S.
3RD VET ISTANBUL GROUP CONGRESS SARAJEVO, 17 - 20 May 2016
- XXIII. **Lipit rafts in viral infections**
Önkol Ş., GÜMÜŞOVA S., ÇENESİZ M.
3RD VET ISTANBUL GROUP CONGRESS SARAJEVO, 17 - 20 May 2016
- XXIV. **Enzootic Bovine Leucosis in Suspected Herd**
GÜMÜŞOVA S., ALBAYRAK H., YAZICI Z., OZAN E.
10 th International Congress for Veterinary Virology, 9th Annual Meeting EPIZONE Montpellier, France., 2 - 03 September 2015
- XXV. **Enzootic Bovine Leucosis In Suspected Herds**
GÜMÜŞOVA S., ALBAYRAK H., OZAN E., YAZICI Z.
10 th International Congress of for Veterinary Virology, EPIZONE, Montpellier, France, 31 August - 03 September 2015
- XXVI. **Peste des petits ruminants vaccine response in some goat breeds**
GÜMÜŞOVA S., YAVUZ SELİM M., ÇENESİZ S.
II. International VET Istanbul Group Congress Russia, St. Petersburg, 7 - 09 April 2015
- XXVII. **Melatonin and Viral Infections**
GÜMÜŞOVA S., YAVUZ SELİM M., ÇENESİZ S.
II. International VET Istanbul Group Congress Russia, St. Petersburg, 7 - 09 April 2015
- XXVIII. **MELATONİN and VIRAL INFECTION**
GÜMÜŞOVA S., MEMİŞ Y. S., ÇENESİZ S.
International VETistanbul Group Congress 2015, Saint Peter, Guernsey And Alderney, 7 - 09 April 2015
- XXIX. **PESTE DES PETITS RUMINANTS VACCINE RESPONSE in SOME GOAT BREEDS**
ÇENESİZ S., GÜMÜŞOVA S., MEMİŞ Y. S.
international VETistanbul Group Congress 2015, Saint Peter, Guernsey And Alderney, 7 - 09 April 2015
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