

# CHARALAMBOS BILLINIS

Professor

“Virology - Viral Diseases”



Surname	Billinis
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## EDUCATION

**Diplomate:** European College of Zoological Medicine (Wildlife Population Health) (April 2014)

**PhD,** Faculty of Veterinary Medicine, Aristotle University of Thessaloniki, Greece (June 1998)

**DVM,** Faculty of Veterinary Medicine, Aristotle University of Thessaloniki, Greece (November 1993)

## PROFESSIONAL ACTIVITIES

August 2012- today	Professor of Virology & Viral Diseases, University of Thessaly, School of Health Sciences, Faculty of Veterinary Medicine.
June 2008-August 2012	Associate Professor of Virology & Viral Diseases, University of Thessaly, School of Health Sciences, Faculty of Veterinary Medicine.
July 2002-June 2008	Assistant Professor of Virology & Viral Diseases, University of Thessaly, School of Health Sciences, Faculty of Veterinary Medicine.
June 1998 -July 2002	Postdoctoral researcher at the Laboratory of Microbiology and Infectious Diseases, Faculty of Veterinary Medicine, Aristotle University of Thessaloniki.
January 1994- June 1998	Ph.D student at the Laboratory of Microbiology and Infectious Diseases, Faculty of Veterinary Medicine, Aristotle University of Thessaloniki.
January 1995- June1995	Participated in a course of study involving lectures and techniques on Molecular Biology at the Laboratory of Microbiology and Molecular Biology, Faculty of Biology, Aristotle University of Thessaloniki.

## **TEACHING ACTIVITY**

### **Undergraduate teaching**

- Teaching activity for the Degree of Veterinary Medicine (University of Thessaly)

#### **Lectures in the Department of Microbiology and Parasitology (2002 - present):**

2nd year students: Veterinary Virology.

2nd year students: Veterinary Immunology.

3rd year students: Viral Diseases

Small group teaching (tutorials and clinical)

3rd year students: Wildlife infectious diseases, flock health schemes, bovine/sheep/goat/ pig/ poultry/ stud farm visits, Dog and cats cases with viral diseases, therapeutics/prevention of infectious diseases.

- September 2005 – June 2006: Lectures on Infectious Diseases of Farm Animals, at the Department of Animal Production, Technological Educational Institute, Larisa.

### **Postgraduate teaching**

#### **Lectures**

- Infectious Diseases of Farm Animals [in “Produzioni Zootechniche e vegetali di Qualita’ in Ambiente Mediterraneo” Master of Science, Faculty of Agricultural Sciences, University of Study of Bary, Italy] (September 2005-August 2007)
- Infectious Diseases of Wild Fauna [in “Sistemi innovative per la onservazione della fauna Euromediterranea” Master of Science, Faculty of Veterinary Medicine, University of Federico II, Napoly, Italy] (September 2006 – August 2008)

## **ADMINISTRATIVE ACTIVITIES**

- Vice Rector of Financial, Planning and Development, University of Thessaly (September 2018 – today)
- Head of the Faculty of Public and Integrated Health, University of Thessaly (February 2019 – today)
- Dean of the School of Health Sciences, University of Thessaly (December 2013 – August 2018)
- Member of the Senate, University of Thessaly (September 2010-today)
- Head of the Faculty of Veterinary Medicine, University of Thessaly (September 2010–August 2014)
- Member of the General Assembly, Faculty of Veterinary Medicine, University of Thessaly (July 2002-today)
- Coordinator of the working group that composed the Self-Evaluation Report of the University of Thessaly for the period 2010-2014
- Member of the working group that composed the first Guide of Assurance of Studies and Services Quality of the University of Thessaly (July 2015)

- Substitute member of the plenary session of the Research Committee of the University of Thessaly (September 2009-October 2011)
- Regular member of the plenary session of the Research Committee of the University of Thessaly (October 2011-August 2014)
- Member of the Ethics Committee of the University of Thessaly (March 6, 2015 – today)
- Member of European Educational Programmes and International Relation Committee, University of Thessaly (September 2008- March 2012)
- OIE National Focal Point of Wildlife (2013- 2017)
- Member of the administrative board of the International Wild Animals Vigilance Euro-Mediterranean Society (2003-007)
- Vice President of the Wild Animals Vigilance Euro-Mediterranean Society (WAVES) (2007-2015)
- Member of the scientific committee of Veterinary Biologicals of the Greek Drug Organization (September 2002 – March 2004).
- Member of the scientific committee of the spongiform encephalopathy's of the Greek Ministry of Agricultural (2003 – today)
- Regular member of the Scientific Advisory Committee for the Project for Surveillance and Elimination of rabies in Greece, under the Ministry of Rural Development and Food (February 2013-today)
- Member of the Committee for studies in laboratory animals of the Faculty of Medicine of the School of Health Sciences of the University of Thessaly
- Leader for the European surveillance of emerging and re-emerging infections of wildlife (2009-2013, FP7)
- Head of the Research Group of Zoonoses, Institute of Biomedical research and Technology, Center for Research and Technology Thessaly (CERETETH)
- National reference laboratory for BVDV diagnosis (May 2004-today)
- Chair of the organizing committee (13<sup>th</sup> European Wildlife Diseases Association Conference, Larissa Greece, 27-31 August 2018), Member of organizing committees of 3 international conferences (IV International Symposium on Wild Fauna, Tatranska Lomnica, Slovakia, 4-9 September 2005; V International Congress on Wild Fauna, Chalkidiki, Greece, 22-27 September 2007; VI International Symposium on Wild Fauna, Paris, France, 21-24 May 2009).
- Chair of the scientific committee (13<sup>th</sup> European Wildlife Diseases Association Conference, Larissa Greece, 27-31 August 2018), Member of scientific committees of 2 international (V International Congress on Wild Fauna, Chalkidiki, Greece, 22-27 September 2007; VI International Symposium on Wild Fauna, Paris, France, 21-24 May 2009; and 1 national conference (2<sup>nd</sup> Greek Veterinary Congress, for Farm Animal Medicine, Food Safety and Hygiene, Consumer Protection, Thessaloniki, 18-20 march 2011).
- Referee in scientific Journals: Plos ONE, Journal of General Virology, Veterinary Research, Parasite & Vectors, Turkish Journal of Veterinary and Animal Science, Small Ruminant Research, Journal of Wildlife Diseases, Veterinary Microbiology, The Virology Journal, BMC Veterinary Research, International Journal of Zoology, Journal of Virological Methods, Journal of the Hellenic Veterinary Medical Society.

## **RESEARCH**

### **Research interests**

The research interests focuses on the study of microorganisms that cause disease in animals (pet, farm, wildlife and zoo animals) and can be transmitted from animals to humans, on the identification and molecular characterization of infectious agents, on the identification of new and unknown pathogens, on the development of programs for the molecular epidemiological surveillance of infectious animal diseases, on the diagnosis of infectious animal diseases by applying both traditional and modern methods of diagnosis, on the development and application of new molecular diagnostics, on the development and assessment of safety, on the efficacy and effectiveness of vaccines, on the study of immunological mechanisms of the animals against microorganisms as well as on the molecular genetics of the final host of microorganisms in order to find polymorphisms that confer resistance to specific animal diseases.

### **Research grants**

#### **National coordinator of the projects:**

1. BioSave: University-business alliance in modern biotechnology approaches for climate change mitigation solutions (Funded - Horizon 2020// 61.960,00 €).
2. LIFE ARCPROM: Improving human-bear coexistence in 4 National Parks of South Europe. (2019-2024). (Funded by European Union, LIFE18 NAT/GR/000768// 435.672,00 €).
3. Development of monitoring mechanism and monitoring the levels of West Nile virus circulation in the region of Peloponnese” (funded by the Prefecture of Peloponnese – Peloponissos A.E// 423.880,40 €.)
4. Increasing dairy cows fertility through identification and exploitation of genetically thermotolerant individuals. (co-financed by the European Union and Greek national funds through the Operational Program Competitiveness, Entrepreneurship and Innovation, under the call RESEARCH – CREATE – INNOVATE, NSRF 2014-2020// 88.795,00 €)
5. Novel technologies for surveillance and characterization of Extended-spectrum  $\beta$ -lactamase and Carbapenemase producing Enterobacteriaceae, in humans and animals – CARBATECH. (co-financed by the European Union and Greek national funds through the Operational Program Competitiveness, Entrepreneurship and Innovation, under the call German-Greek Research and Innovation Programme, NSRF 2014-2020// 304.999,90 €).
6. Monitoring the levels of infectious agents’ circulation and investigating the effect of environmental-hydrological parameters on vectors breeding sites. (Funded by PELOPONISSOS AE// 109.700,00 €)
7. Interdisciplinary Investigation and Identification of Rotaviruses, Bartonella Henselae and Leishmania from Children and Animal Hosts Using Novel

Technologies. Public Health Importance. (Co-financed by Greece and the European Union, NSRF 2007-2013// 508.717,16 €).

8. "ESNIP 3 - European surveillance network for influenza in pigs (ESNIP) 3" (Funded by EC, FP7. Contract No: 259949// 20.425,40 €).
9. "Novel Technologies for Surveillance of Emerging and Re-emerging Infections of Wildlife" (Funded by EC, FP7. Contract No: 222633 // 694.147,00 €).
10. "Molecular characterization and pathogenicity study of Greek PCV2 isolates" (Funded by the Ministry of Education// 30.575,92 €).
11. "Investigation of the presence of BVDV in Greek dairy herds" (Funded by the ANIMPEX SA // 34.073,78 €).
12. "Identification of PI animals in BVDV positive Greek dairy herds" (Funded by the ANIMPEX SA // 11.389,83 €).
13. "BVDV eradication program in Greek dairy herds" (Funded by the ANIMPEX SA // 25.813,52 €).
14. "Veterinary service by the department of Microbiology and Parasitology" (174.000,00 €).
15. "Prevalence of goat infectious and parasitic diseases in Ellassona region" (Funded by the Ministry of Agriculture // 7.040,00 €).
16. "Prevalence of sheep infectious and parasitic diseases in Ellassona region" (Funded by the Ministry of Agriculture // 1.348,00 €).
17. "Pig health management" (Funded by VETHELLAS AEBE // 7.800,97 €)
18. "Monitoring and Evaluation of the Conservation Status of Bird Species in Greece" (Funded by Fotios Fasoylas & Nikos Mantzios – Yloriki Co// 7.200,00 €)
19. "Protection and Biodiversity Conservation of Oiti National Park (Funded by Callisto // 1.686,66 €)
20. "Habitat analysis for various species in the area of responsibility of the Management Body of Helmos Vouraikos (Funded by GOUNARIS N. - KONTOS K. OE // 2.000,00 €).

**Member of the research team of the projects:**

21. "Understanding and combating African swine fever in Europe. (Funded by European Union, OC-2015-1-19550, 2016-2020).
22. "Integrated surveillance and control programme for West Nile virus and malaria in Greece-MALWEST. (Co-financed by Greece and the European Union, NSRF 2007-2013).
23. "Concerted action for the establishment of an European network on wildlife as reservoirs of pathogens including zoonoses" (Funded by EU. Contract No: PL98 - 4361).
24. "Scrapie and Visna-Maedi of the sheep: study of the fatality, frequency of the diseases and PrP gene polymorphisms in flocks with mixed diseases" (Funded by the University of Thessaly, Contract No: 2410).
25. "The role of wildlife in the epidemiology of *Mycobacterium avium subsp. Paratuberculosis* in domestic ruminants in Europe" (Funded by EC. Contract No: QLRT-2000-00879).

26. "Phylogenetic sequence analysis and improved diagnostic assay systems for viruses of the family Reoviridae" (Funded by EC. Contract No: QLK2-CT-2001-00143).
27. "Identification of Noda virus in cultured sea bass (*Dicentrarchus labrax* L.) with PCR method and molecular characterization of the virus" (Funded by the University of Thessaly, Contract No: 2768).
28. "ΕΠΕΑΕΚ «Upgrading of the syllabus of the Veterinary Medicine Faculty " (Funded by the Ministry of Education).
29. "Thematic network BVDV control" Funded by EU, – Network coordinator, Paul Steinar Valle, Head of Department of Production Animal Clinical Sciences, Norwegian School of Veterinary Science
30. "Characterization of the Bovine Spongiform Encephalopathy (BSE) infectious agent" (Funded by EU. Contract No: AIR3 CT93-0859).
31. "Improving prospects for Scrapie control in sheep and goats by studies of host genotypes, isolates and their in-vivo and in-vitro interaction" (Funded by EU. Contract No: PL97-3305).
32. "Laboratory diagnosis of the pig diseases" (Funded by the Aristotle University of Thessaloniki, Contract No: 7375).
33. "Molecular characterisation and epidemiology of encephalomyocarditis virus: a model for emerging diseases" (Funded by EU. Contract No: PL98-4146).
34. Encephalomyocarditis virus (EMCV) infections in swine: Pathogenicity study, molecular and antigenic typing of European viral strains and improvement of diagnosis" (Funded by EU. Contract No: AIR3 CT 93-1465).

### **Supervision of PhD theses**

1. Sofia, M.: "Isolation and Molecular Characterization of Greek PCV2 strains: Experimental pathogenicity study of the virus in piglets". *Successfully defended in March 2008.*
2. Sokos, C.: "Ecology and management of European Brown Hare Syndrome Virus in Mediterranean ecosystems". *Successfully defended in November 2014.*
3. Valiakos, G.: "Wild birds as a source of selected emerging and re-emerging pathogens: application of microarray technologies" Successfully defended in July 2015.
4. Touloudi, A.: "Wild boars as a source of selected emerging and re-emerging pathogens: application of microarray technologies" Successfully defended in March 2016.
5. Tsokana, K.: "The role of european brown hare (*lepus europaeus*) as a source of emerging and re-emerging pathogens" Successfully defended in July 2018.
6. Kantere, M.: "Diagnostic laboratory approaches to canine infectious diseases of public health and wildlife importance" Successfully defended in July 2020.

### **Supervision of Master of Science theses**

Soulioti, F.: “Le Principali E Piu’ Importanti Zoonosi in Grecia” (examination: June 2008).

Papantoniou, M.: “Il Virus Della Bluetongue Esplode in Grecia” (examination: November 2006).

Delibalta, I.: “Le Principali Malattie Virali Del Suino in Alle Vamenti Di Tipo Industriale” (examination: November 2006).

Kotidou, K.: “Bovine Spongiform Encephalopathy, Scrapie and their Implication with Public Health” (examination: November 2006).

### **Member of the advisory committee of PhD theses**

Florou, M.: “Isolation, molecular characterization and epidemiological study of *Mycobacterium avium subspecies paratuberculosis* strains from Greek sheep, goats and nonruminant wildlife”. *Successfully defended in December 2007.*

Kostoulas, P.: “Paratuberculosis in Greek sheep and goats: estimation of the validity of diagnostic tests depending on purpose and production stage”. *Successfully defended in February 2006.*

### **Member of the Examination Committee of PhD theses**

Sofianidis, G.: “A topographic and comparative study of scrapie histopathological lesions and the presence of PrPsc in the central nervous system of sheep and goats” (examination: July 2006)

Psalla, D.: “Study of the experimental encephalomyocarditis in rats (*rattus norvegicus*) and mice (*mus musculus*)” (examination: February 2006).

### **Member of the Examination Committee of Master of Science theses**

Eduardo Garcia de Andres: “Falco Naumanni Conservation in Spain” (examination: October 2009).

Juan Antonio Medina Cuaresma: “Software Development for Small Birds Detection by their Sound” (examination: October 2009).

Jesus Pancorbo Vicente: “Felix Catus Monitoring in Madrid Province (Spain)” (examination: October 2009).

Cristina Rodriguez Refojos: “Capture Methods for the Control of Neovison vison in the North of Spain” (examination: October 2009).

Sergio Sorrentino: “Hunting Management in Naples Province (Italy)” (examination: October 2009).

Cristina Terry Lobo: “Sanitary and Management Program in Jerez Zoo (Spain)” (examination: October 2009).

## **PUBLICATIONS**

## **DISSERTATIONS / BOOKS / EDITORSHIP OF PROCEEDINGS OF MEETINGS**

1. **Billinis, C.** and Papadopoulos O. (2008). **Cardioviruses**. In Encyclopedia of Virology, 3<sup>rd</sup> Edition, Elsevier Ltd. Updated 2014.
2. **Billinis, C.** and Kostoulas P. (2007). (editors) **Proceedings of the Vth International Congress on Wild Fauna** (Chalkidiki, Greece), September 2007.

3. **Billinis C.** (1998) **Experimental pathogenicity study of encephalomyocarditis virus in piglets and growing pigs.** Thesis, Ph.D., Aristotle University of Thessaloniki.
4. **Billinis, C.,** Mavrogianni, VS, Fthenakis, GC. (2011). **Contagious Ecthyma.** In: Small Ruminant Reproduction. GC Fthenakis (ed), pp. 187-192, Tziola Publications, Thessaloniki, 2011 (in Greek).
5. **Billinis, C.** and Spyrou, V. (2011). **Border Disease.** In: Small Ruminant Reproduction. GC Fthenakis (ed), pp. 243-246, Tziola Publications, Thessaloniki, 2011 (in Greek).
6. Mavrogianni, VS, **Billinis, C,** Fragkou, IA, Fthenakis, GC (2011). **Disorders of teats.** In: Small Ruminant Reproduction. GC Fthenakis (ed), pp. 371-373, Tziola Publications, Thessaloniki, 2011 (in Greek).
7. **Billinis, C,** Mavrogianni, VS, Fthenakis, GC (2011). **Pathological conditions of udder skin.** In: Small Ruminant Reproduction. GC Fthenakis (ed), pp. 375-377, Tziola Publications, Thessaloniki, 2011 (in Greek).
8. **Billinis, C. Principles of vaccination in small ruminants.** In: Small Ruminant Reproduction. GC Fthenakis (ed), pp. 515-517, Tziola Publications, Thessaloniki, 2011 (in Greek).
9. Papatsiros VG & **Bilinis C** (2012) **The prophylactic use of acidifiers as antibacterial agents in swine.** In: Antibacterial Agents / Book 1, Varaprasad Bobbarala (Ed.), pp. 295-310. ISBN: 978-953-51-0723-1, InTech, Rijeka, Croatia.
10. Valiakos G., Athanasiou L.V., Touloudi A., Papatsiros V., Spyrou V., Petrovska L., **Billinis C. West Nile Virus: Basic Principles, Replication Mechanism, Immune Response and Important Genetic Determinants of Virulence.** (2013) In Viral Replication (ed. German Rosas-Acosta), p. 43-68, InTech.
11. Tsokana C.T., Athanasiou L.V., Valiakos G., Spyrou V., Manolakou K., **Billinis C. Molecular diagnosis of Leishmaniasis, species identification and phylogenetic analysis.** (2014) In Leishmaniasis - Trends in Epidemiology, Diagnosis and Treatment (ed. Claborn, D.), p. 161-193, InTech

## **PUBLICATIONS IN INTERNATIONAL PEER-REVIEWED JOURNALS**

12. Dougas, G., Tsakris, A., **Billinis, C.,** Beleri, S., Patsoula, E., Papaparaskevas, J. **Molecular detection of Rickettsia felis in common fleas in Greece and comparative evaluation of genotypic methods.** (2021) Journal of Microbiological Methods, 180, art. no. 106104, .
- Dougas, G., Mavrouli, M., Tsakris, A., **Billinis, C.,** Papaparaskevas, J. **Serosurvey of IgG antibodies against bartonella henselae and rickettsia typhi in the population of Attica, Greece.** (2020) Tropical Medicine and Infectious Disease, 5 (3), art. no. 5030145, .
13. Lianou, D.T., Chatziprodromidou, I.P., Vasileiou, N.G.C., Michael, C.K., Mavrogianni, V.S., Politis, A.P., Kordalis, N.G., **Billinis, C.,** Giannakopoulos, A., Papadopoulos, E., Giannenas, I., Ioannidi, K.S., Katsafadou, A.I., Gougoulis, D.A., Lacasta, D., Caroprese, M., Fthenakis, G.C. **A detailed questionnaire for the evaluation of health management in dairy sheep and goats** (2020) Animals, 10 (9), art. no. 1489, pp. 1-15.
14. Tsokana, C.N., Sokos, C., Giannakopoulos, A., Birtsas, P., Valiakos, G., Spyrou, V., Athanasiou, L.V., Rodi Burriel, A., **Billinis, C. European Brown hare (Lepus**



**europaeus) as a source of emerging and re-emerging pathogens of Public Health importance: A review.** (2020) *Veterinary Medicine and Science*, 6 (3), pp. 550-564.

15. Douglas, G., Tsakris, A., Beleri, S., Patsoula, E., **Billinis, C.**, Papaparaskevas, J. **Evidence of *Brucella melitensis* DNA in the Microbiome of *Ctenocephalides felis* from Pet Cats in Greece.** (2020) *Vector-Borne and Zoonotic Diseases*, 20 (5), pp. 390-392.

16. Katsafadou, A.I., Tsangaris, G.T., Vasileiou, N.G.C., Ioannidi, K.S., Anagnostopoulos, A.K., **Billinis, C.**, Fragkou, I.A., Papadopoulos, E., Mavrogianni, V.S., Michael, C.K., Addis, M.F., Fthenakis, G.C. **Detailed data from experimentally-induced mastitis in ewes, with the aim to evaluate cathelicidin-1 in milk.** (2020) *Data in Brief*, 29, art. no. 105259, .

17. Tsokana, C.N., Sokos, C., Giannakopoulos, A., Birtsas, P., Athanasiou, L.V., Valiakos, G., Sofia, M., Chatzopoulos, D.C., Athanasakopoulou, Z., Kantere, M., Spyrou, V., Rodi Burriel, A., **Billinis, C.** **Investigation of the Role of the European Brown Hare in the Epidemiology of Bacterial Zoonotic Pathogens: A Serological and Molecular Survey in Greece.** (2020) *Vector-Borne and Zoonotic Diseases*, 20 (4), pp. 252-257.

18. Liaskos, C., Gkoutzourelas, A., Spyrou, V., Koutsoumpas, A., Athanasiou, L.V., Amiridis, G.S., **Billinis, C.**, Bogdanos, D.P. **Pancreatic anti-GP2 and anti-*Saccharomyces cerevisiae* antibodies in ruminants with paratuberculosis: A better understanding of the immunopathogenesis of Crohn's disease.** (2020) *Clinics and Research in Hepatology and Gastroenterology*.

19. Katsafadou, A.I., Tsangaris, G.T., Vasileiou, N.G.C., Ioannidi, K.S., Anagnostopoulos, A.K., **Billinis, C.**, Fragkou, I.A., Papadopoulos, E., Mavrogianni, V.S., Michael, C.K., Filippa Addis, M., Fthenakis, G.C. **Detection of cathelicidin-1 in the milk as an early indicator of mastitis in ewes.** (2019) *Pathogens*, 8 (4), art. no. 270.

20. Tsokana, C.N., Sokos, C., Giannakopoulos, A., Birtsas, P., Athanasiou, L.V., Valiakos, G., Sofia, M., Chatzopoulos, D.C., Kantere, M., Spyrou, V., Burriel, A.R., **Billinis, C.** **Serological and molecular investigation of selected parasitic pathogens in European brown hare (*Lepus europaeus*) in Greece: inferring the ecological niche of *Toxoplasma gondii* and *Leishmania infantum* in hares.** (2019) *Parasitology Research*, 118 (9), pp. 2715-2721.

21. Katsafadou, A.I., Tsangaris, G.T., Anagnostopoulos, A.K., **Billinis, C.**, Barbagianni, M.S., Vasileiou, N.G.C., Spanos, S.A., Mavrogianni, V.S., Fthenakis, G.C. **Differential quantitative proteomics study of experimental *Mannheimia haemolytica* mastitis in sheep.** (2019) *Journal of Proteomics*, 205, art. no. 103393.

22. Katsafadou, A.I., Tsangaris, G.T., Anagnostopoulos, A.K., **Billinis, C.**, Barbagianni, M.S., Vasileiou, N.G.C., Spanos, S.A., Mavrogianni, V.S., Fthenakis, G.C. **Proteomics data of ovine mastitis associated with *Mannheimia haemolytica*.** (2019) *Data in Brief*, 25, art. no. 104259.

23. Vasileiou, N.G.C., Giannakopoulos, A., Cripps, P.J., Ioannidi, K.S., Chatzopoulos, D.C., Gougoulis, D.A., **Billinis, C.**, Mavrogianni, V.S., Petinaki, E., Fthenakis, G.C. **Study of potential environmental factors predisposing ewes to subclinical mastitis in Greece.** (2019) *Comparative Immunology, Microbiology and Infectious Diseases*, 62, pp. 40-45.

24. Giannoulis, T., Plageras, D., Stamatis, C., Chatzivagia, E., Tsipourlianos, A., Birtsas, P., **Billinis, C.**, Suchentrunk, F., Mamuris, Z. **Islands and hybrid zones: Combining the knowledge from "natural Laboratories" to explain phylogeographic patterns of the European brown hare** (2019) BMC Evolutionary Biology, 19 (1), art. no. 17.
25. Dougas, G., Mellou, K., Kostoulas, P., **Billinis, C.**, Georgakopoulou, T., Tsiodras, S. **Brucellosis underreporting in Greece: Assessment based on aggregated laboratory data of culture-confirmed cases from public hospitals.** (2019) Hippokratia, 23 (3), pp. 106-110.
26. Mavrouli, M., Vrioni, G., Kapsimali, V., Tsiamis, C., Mavroulis, S., Pervanidou, D., **Billinis, C.**, Hadjichristodoulou, C., Tsakris, A. **Reemergence of west nile virus infections in Southern Greece, 2017.** (2019) American Journal of Tropical Medicine and Hygiene, 100 (2), pp. 420-426.
27. Giannakopoulos, A., Vasileiou, N.G.C., Gougoulis, D.A., Cripps, P.J., Ioannidi, K.S., Chatzopoulos, D.C., **Billinis, C.**, Mavrogianni, V.S., Petinaki, E., Fthenakis, G.C. **Use of geographical information system and ecological niche modelling for predicting potential space distribution of subclinical mastitis in ewes.** (2019) Veterinary Microbiology, 228, pp. 119-128.
28. Valiakos, G., Plavos, K., Vontas, A., Sofia, M., Giannakopoulos, A., Giannoulis, T., Spyrou, V., Tsokana, C.N., Chatzopoulos, D., Kantere, M., Diamantopoulos, V., Theodorou, A., Mpellou, S., Tsakris, A., Mamuris, Z., **Billinis, C.** **Phylogenetic analysis of bird-virulent West Nile virus strain, Greece.** (2019) Emerging Infectious Diseases, 25 (12), pp. 2323-2325.
29. Sarri, C.A., Papadopoulos, G.E., Papa, A., Tsakris, A., Pervanidou, D., Baka, A., Politis, C., **Billinis, C.**, Hadjichristodoulou, C., Mamuris, Z. **Amino acid signatures in the HLA class II peptide-binding region associated with protection/susceptibility to the severe West Nile Virus disease.** (2018) PLoS ONE, 13 (10), art. no. e0205557.
30. Sokos, C., Touloudi, A., Giannakopoulos, A., Papaspyropoulos, K.G., Tsokana, C.N., Birtsas, P., **Billinis, C.** **Population density, roads and altitude influences on spatial distribution of hares positive to EBHSV.** 2018, Basic and Applied Ecology, 31, pp. 82-91.
31. Filioussis, G., Petridou, E., Papadopoulos, D., Karavanis, E., Morgan, E., **Billinis, C.**, Papadopoulos, E. **Hemorrhagic pneumonia in neonatal minks in Greece concomitant with Leishmania infantum detection.** 2018, Polish Journal of Veterinary Sciences, 21 (2), pp. 405-408.
32. Stamatis, C., Giannoulis, T., Galliopoulou, E., **Billinis, C.**, Mamuris, Z. **Genetic analysis of melanocortin 1 receptor gene in endangered Greek sheep breeds.** 2017, Small Ruminant Research, 157, pp. 54-56.
33. Andreo, V., Metz, M., Neteler, M., Rosà, R., Marcantonio, M., **Billinis, C.**, Rizzoli, A., Papa, A. **Can reconstructed land surface temperature data from space predict a West Nile Virus outbreak?** 2017, International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 42 (4W2), pp. 19-25.
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**ABSTRACTS IN PROCEEDINGS OF SCIENTIFIC MEETINGS**

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