

CHARALAMBOS BILLINIS

Professor

“Virology - Viral Diseases”



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| Surname | Billinis |
| Name | Charalambos |
| Father's name | Dimitrios |
| Date of birth | 8/7/1967 |
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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

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| 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)
- 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 (13th 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 (13th 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 (2nd 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. 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)
2. Novel technologies for surveillance and characterization of Extended-spectrum β -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).
3. Monitoring the levels of infectious agents circulation and investigating the effect of environmental-hydrological parameters on vectors breeding sites. (Funded by PELOPONISSOS AE)
4. 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).
5. “ESNIP 3 - European surveillance network for influenza in pigs (ESNIP) 3” (Funded by EC, FP7. Contract No: 259949).
6. “Novel Technologies for Surveillance of Emerging and Re-emerging Infections of Wildlife” (Funded by EC, FP7. Contract No: 222633).
7. “Molecular characterization and pathogenicity study of Greek PCV2 isolates” (Funded by the Ministry of Education).
8. “Investigation of the presence of BVDV in Greek dairy herds” (Funded by the ANIMPEX SA).
9. “Identification of PI animals in BVDV positive Greek dairy herds” (Funded by the ANIMPEX SA).

10. "BVDV eradication program in Greek dairy herds" (Funded by the ANIMPEX SA).
11. "Veterinary service by the department of Microbiology and Parasitology" (various).
12. Prevalence of goat infectious and parasitic diseases in Ellassona region" (Funded by the Ministry of Agriculture).
13. Prevalence of sheep infectious and parasitic diseases in Ellassona region" (Funded by the Ministry of Agriculture).

Member of the research team of the projects:

14. 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).
15. "Concerted action for the establishment of an European network on wildlife as reservoirs of pathogens including zoonoses" (Funded by EU. Contract No: PL98 - 4361).
16. "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).
17. "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).
18. "Phylogenetic sequence analysis and improved diagnostic assay systems for viruses of the family Reoviridae" (Funded by EC. Contract No: QLK2-CT-2001-00143).
19. "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).
20. "ΕΠΕΑΕΚ «Upgrading of the syllabus of the Veterinary Medicine Faculty " (Funded by the Ministry of Education).
21. ""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
22. 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).
23. "Characterization of the Bovine Spongiform Encephalopathy (BSE) infectious agent" (Funded by EU. Contract No: AIR3 CT93-0859).
24. "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).
25. "Laboratory diagnosis of the pig diseases" (Funded by the Aristotle University of Thessaloniki, Contract No: 7375).
26. "Molecular characterisation and epidemiology of encephalomyocarditis virus: a model for emerging diseases" (Funded by EU. Contract No: PL98-4146).

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.: “Canine diseases that have a critical importance for wildlife and the public health” (2013-today)

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, 3rd 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. 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.
10. 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

11. 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.
12. 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.
13. 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.
14. 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.
15. Sonnenburg, J., Ryser-Degiorgis, M.-P., Kuiken, T., Ferroglio, E., Ulrich, R.G., Conraths, F.J., Gortázar, C., Staubach, C., Acevedo, P., Millán, J., Marco, I., Prado, M.M., Ruiz-Fons, F., Agreiter, A., Cadamuro, A., Calabrese, M.S., Capelli, G., Casulli, A., Cetto, E., Chiari, M., Lavazza, A., Orusa, R., Somnavilla, G., Zamboni, U., Bajer, A., Lipowski, A., Barlow, A., Learmount, J., Duff, J.P., **Billinis, C., Boue, F., Hars, J., Rossi, S., de Carvalho, I.L., Nuncio, S., Dekkers, L.J.M., Maas, M., Deplazes, P., Meier, R., Glawischnig, W., Steinrigl, A., Golovljova, I., Grunow, R., Jacob, J., Romig, T., Tomaso, H., Isomursu, M., Korro, M.K., Linden, A., Morozov, V., Stanko, M., Turcinaviciene, J. Harmonizing methods for wildlife abundance estimation and pathogen detection in Europe-a questionnaire survey on three selected host-pathogen combinations.** 2017, BMC Veterinary Research, 13 (1), art. no. 53, .
16. Valiakos, G., Giannakopoulos, A., Spanos, S.A., Korbou, F., Chatzopoulos, D.C., Mavrogianni, V.S., Spyrou, V., Fthenakis, G.C., **Billinis, C. Use of geographical information system and ecological niche model to analyse potential exposure of small ruminants to Coxiella burnetii infection in central Greece.** 2017, Small Ruminant Research, 147, pp. 77-82.
17. Giannakopoulos, A., Tsokana, C.N., Papadopoulos, E., Spyrou, V., Chatzopoulos, D.C., Valiakos, G., Touloudi, A., Athanasiou, L.V., **Billinis, C. Molecular investigation and geographical distribution of Leishmania spp infection in stray and owned cats (Felis catus) in Thessaly, central Greece.** 2017, Journal of the Hellenic Veterinary Medical Society, 68 (1), pp. 27-34.
18. Sokos, C., Giannakopoulos, A., Papaspyropoulos, K., Touloudi, A., Birtsas, P., Spyrou, V., Valiakos, G., Tsokana, C., Sfougaris, A., **Billinis, C. Hare harvest and EBHS virus prevalence in differently populated Mediterranean ecotopes.** 2016, European Journal of Wildlife Research, 62 (6), pp. 695-700.
19. Sarri, C.A., Markantoni, M., Stamatis, C., Papa, A., Tsakris, A., Pervanidou, D., Baka, A., Politis, C., **Billinis, C., Hadjichristodoulou, C., Mamuris, Z. Genetic contribution of MHC class II genes in susceptibility to west nile virus infection.** 2016, PLoS ONE, 11 (11), art. no. e0165952.

20. Katsafadou, A.I., Tsangaris, G.T., **Billinis, C.**, Fthenakis, G.C. **Applied proteomics in companion animal medicine.** 2016, *Current Proteomics*, 13 (3), pp. 165-171.
21. Vasileiou, N.G.C., Fthenakis, G.C., Amiridis, G.S., Athanasiou, L.V., Birtsas, P., Chatzopoulos, D.C., Chouzouris, T.M., Giannakopoulos, A., Ioannidi, K.S., Kalonaki, S.N., Katsafadou, A.I., Kyriakis, C.S., Mavrogianni, V.S., Papadopoulos, E., Spyrou, V., Valiakos, G., Venianaki, A.P., **Billinis, C.** **Experiences from the 2014 outbreak of bluetongue in Greece.** 2016, *Small Ruminant Research*, 142, pp. 61-68.
22. Giannakopoulos, A., Tsokana, C.N., Pervanidou, D., Papadopoulos, E., Papaspyropoulos, K., Spyrou, V., Rodi Burriel, A., Vakali, A., Hadjichristodoulou, C., **Billinis, C.** **Environmental parameters as risk factors for human and canine Leishmania infection in Thessaly, Central Greece.** 2016, *Parasitology*, 143 (9), pp. 1179-1186.
23. Chatzopoulos, D.C., Sarrou, S., Vasileiou, N.G.C., Ioannidi, K.S., Peteinaki, E., Valiakos, G., Tsokana, C.N., Papadopoulos, E., Spyrou, V., Mavrogianni, V.S., Giannakopoulos, A., Sbiraki, A., Lacasta, D., Bueso, J.P., Athanasiou, L.V., **Billinis, C.**, Fthenakis, G.C. **Dissemination of intestinal pathogens between lambs and puppies in sheep farms.** 2016, *Small Ruminant Research*, 141, pp. 5-10.
24. Rydevik, G., Innocent, G.T., Marion, G., Davidson, R.S., White, P.C.L., **Billinis, C.**, Barrow, P., Mertens, P.P.C., Gavier-Widén, D., Hutchings, M.R. **Using Combined Diagnostic Test Results to Hindcast Trends of Infection from Cross-Sectional Data.** 2016, *PLoS Computational Biology*, 12 (7), art. no. e1004901, 19 p.
25. Sokos, C., Touloudi, A., Iakovakis, C., Papaspyropoulos, K., Giannakopoulos, A., Birtsas, P., Spyrou, V., Theodosiadou, E., Valasi, I., Sfougaris, A., **Billinis, C.** **Hare demography, physiology and European Brown Hare Syndrome virus infection: Is there an association?** 2016, *Journal of Zoology*, 298 (2), pp. 150-157.
26. Bisias, A.G., Kritas, C.S., **Billinis, C.**, Burriel, A.R. **Laboratory investigation of adult small ruminant Leptospirosis, a neglected infection in Greece: Problems and recommendations.** 2016, *Journal of the Hellenic Veterinary Medical Society*, 66 (4), pp. 223-230.
27. Valiakos, G., Vontas, A., Tsokana, C.N., Giannakopoulos, A., Chatzopoulos, D., **Billinis, C.** **Resistance in Escherichia coli strains isolated from pig faecal samples and pig farm workers, Greece.** 2016, *American Journal of Animal and Veterinary Sciences*, 11 (4), art. no. 144, pp. 142-144.
28. Sokos, C., Birtsas, P., Papaspyropoulos, K.G., Tsachalidis, E., Giannakopoulou, A., Milis, C., Spyrou, V., Manolakou, K., Valiakos, G., Iakovakis, C., Athanasiou, L.V., Sfougaris, A., **Billinis, C.** **Mammals and habitat disturbance: The case of brown hare and wildfire.** 2016, *Current Zoology*, 62 (5), pp. 421-430.
29. Giannakopoulos, A., Valiakos, G., Papaspyropoulos, K., Dougas, G., Korou, L.M., Tasioudi, K.E., Fthenakis, G.C., Hutchings, M.R., Kaimaras, D., Tsokana, C.N., Iliadou, P., Spyrou, V., Tzani, M., Birtsas, P., Kostoglou, P., Sokos, C., Doudounakis, S., Yon, L., Hannant, D., Artois, M., Tsiodras, S., Hadjichristodoulou, C., **Billinis, C.** **Rabies outbreak in Greece during 2012-2014: Use of geographical information system for analysis, risk assessment and control.** 2016, *Epidemiology and Infection*, 144 (14), pp. 3068-3079.

30. Chatzopoulos, D.C., Valiakos, G., Giannakopoulos, A., Birtsas, P., Sokos, C., Vasileiou, N.G.C., Papaspyropoulos, K., Tsokana, C.N., Spyrou, V., Fthenakis, G.C., **Billinis, C. Bluetongue Virus in wild ruminants in Europe: Concerns and facts, with a brief reference to bluetongue in cervids in Greece during the 2014 outbreak.** 2015, *Small Ruminant Research*, 128, 79-87.
31. Hadjichristodoulou C, Pournaras S, Mavrouli M, Marka A, Tserkezou P, Baka A, **Billinis C**, Katsioulis A, Psaroulaki A, Papa A, Papadopoulos N, Mamuris Z, Tsakris A, Kremastinou J; MALWEST Project. **West Nile Virus Seroprevalence in the Greek Population in 2013: A Nationwide Cross-Sectional Survey.** *PLoS One*. 2015 Nov 25;10(11):e0143803.
32. Kyriakis CS, Papatsiros VG, Athanasiou LV, Valiakos G, Brown IH, Simon G, Van Reeth K, Tsiodras S, Spyrou V, **Billinis C. Serological Evidence of Pandemic H1N1 Influenza Virus Infections in Greek Swine.** *Zoonoses Public Health*. 2015 Oct 19.
33. Touloudi A, Valiakos G, Athanasiou LV, Birtsas P, Giannakopoulos A, Papaspyropoulos K, Kalaitzis C, Sokos C, Tsokana CN, Spyrou V, Petrovska L, **Billinis C. A serosurvey for selected pathogens in Greek European wild boar.** *Vet Rec Open*. 2015 Aug 28;2(2):e000077.
34. Tsokana CN, Sokos C, Giannakopoulos A, Mamuris Z, Birtsas P, Papaspyropoulos K, Valiakos G, Spyrou V, Lefkaditis M, Chatzopoulos DC, Kantere M, Manolakou K, Touloudi A, Burriel AR, Ferroglio E, Hadjichristodoulou C, **Billinis C. First evidence of Leishmania infection in European brown hare (Lepus europaeus) in Greece: GIS analysis and phylogenetic position within the Leishmania spp.** *Parasitol Res*. 2016, 115(1):313-21.
35. Kyriakis CS, **Billinis C**, Papadopoulos E, Vasileiou NG, Athanasiou LV, Fthenakis GC. **Bluetongue in small ruminants: An opinionated review, with a brief appraisal of the 2014 outbreak of the disease in Greece and the south-east Europe.** *Vet Microbiol*. 2015 Dec 14;181(1-2):66-74.
36. Katsafadou AI, Tsangaris GT, **Billinis C**, Fthenakis GC. **Use of proteomics in the study of microbial diseases of small ruminants.** *Vet Microbiol*. 2015 Dec 14;181(1-2):27-33.
37. Sarrou S, Liakopoulos A, Chasioti M, Foka A, Fthenakis G, **Billinis C**, Spyrou V, Pantelidi K, Roussaki-Schulze A, Lachanas V, Makaritsis K, Skoulakis C, Daikos GL, Dalekos G, Spiliopoulou I, Petinaki E. **Dissemination of Methicillin-Susceptible CC398 Staphylococcus aureus strains in a rural Greek area.** *PLoS One*. 2015 Apr 2;10(4):e0122761.
38. Kantere MC, Athanasiou LV, Spyrou V, Kyriakis CS, Kontos V, Chatzopoulos DC, Tsokana CN, **Billinis C. Diagnostic performance of a rapid in-clinic test for the detection of Canine Parvovirus under different storage conditions and vaccination status.** *J Virol Methods*. 2015 Apr;215-216:52-5.
39. Liaskos C, Spyrou V, Athanasiou LV, Orfanidou T, Mavropoulos A, Rigopoulou EI, Amiridis GS, Shoenfeld Y, Billinis C, **Bogdanos DP. Crohn's disease-specific anti-CUZD1 pancreatic antibodies are absent in ruminants with paratuberculosis.** *Clin Res Hepatol Gastroenterol*. 2015 Jun;39(3):384-90.
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ABSTRACTS IN PROCEEDINGS OF SCIENTIFIC MEETINGS

111. Valiakos George; Giannakopoulos, Alexios; Birtsas, Periklis; Chatzopoulos, Dimitrios; Sokos, Christos; Vasileiou, Natalia; Papaspyropoulos, Konstantinos; Tsokana, Constantina; Spyrou, Vassiliki; Fthenakis, George C., **Billinis, Charalambos.** **Surveillance for Blue Tongue Virus detection in wild cervid samples in Greece during the current outbreak: Results of an ongoing study.** APHAEA Satellite Symposium "Geographical coordination of wildlife health surveillance" during the Third International One Health Congress (IOHC 2015), March 17, 2015, The Netherlands
112. Valiakos, George; Papaspyropoulos Konstantinos; Giannakopoulos, Alexios; Birtsas, Periklis; Tsiodras, Sotirios; Hutchings, Michael R.; Spyrou, Vassiliki; Pervanidou, Danae; Athanasiou, Labrini V.; Papadopoulos, Nikolaos; Hadjichristodoulou, Christos; Tsokana, Constantina; Baka, Agoritsa; Manolakou, Katerina; Chatzopoulos, Dimitrios; Artois, Marc; Yon, Lisa; Hannant, Duncan; Petrovska, Liljana; **Billinis, Charalambos.** **Serological surveillance of wild birds for exposure to West Nile virus in Greece, 2009 to 2014.** APHAEA Satellite Symposium "Geographical coordination of wildlife health surveillance" during the Third International One Health Congress (IOHC 2015), March 17, 2015, The Netherlands
113. Tsokana, Constantina N.; Giannakopoulos, Alexios; Papaspyropoulos, Konstantinos; Sokos, Christos; Birtsas, Periklis; Pervanidou, Danae; Triantafyllou, Eleni; Georgakopoulou, Theano; Valiakos, George; Spyrou, Vassiliki; Chatzopoulos, Dimitrios C.; Athanasiou, Labrini V.; Rodi Burriel, Angeliki; Hadjichristodoulou, Christos; **Billinis, Charalambos.** **Geographical**

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