Curriculum Vitae

Dr. Polychronis Kostoulas

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Personal Statement

Dr. Polychronis Kostoulas is a distinguished expert in Public Health and One Health Epidemiology withs profound expertise in Bayesian methods and recent advancements in deep learning algorithms. He currently serves as Vice-Dean of the Faculty of Public & One Health at the University of Thessaly, Greece, and is also the Founder and Director of the Laboratory of Epidemiology, Artificial Intelligence & Biostatistics. His innovative research focuses on the development and application of innovative cutting-edge methodologies for diagnostic test evaluation, estimation of true disease prevalence, confidence in disease absence modelling, and early warning systems for epidemics. Dr. Kostoulas has contributed to over 150 peer-reviewed publications – including several methodological papers – and has played a pivotal role in 23 international research projects, prominently coordinating or leading nine major initiatives. His leadership extends to his role as Editor-in-Chief of *Preventive Veterinary Medicine* (Elsevier) and as a member of the Executive Board of the Association of Schools of Public Health in the European Region (ASPHER), actively shaping public health education and policy across Europe.

Education

i. 09/2021 to 04/2022:
Scholar of the Academic Public Health Leadership Institute. Association of Schools and Programs of Public Health (ASPPH) & Center of Creative Leadership (CCL) - https://aspph.org. Washington DC, US.

ii. 10/2002 to 04/2006:
Ph.D. in Epidemiology, University of Thessaly, Greece.

iii. 09/1994 to 02/2000:
D.V.M., University of Thessaly, Greece.

Professional Experience

i. 09/2023 to present:
Vice-Dean, Faculty of Public & One Health, University of Thessaly, Greece.

ii. 01/2021 to present:
Founder & Director, Laboratory of Epidemiology, Artificial Intelligence & Biostatistics, Faculty of Public & One Health, University of Thessaly, Greece

iii. 01/2020 to present
Associate Professor of Epidemiology, University of Thessaly, Greece.

iv. 04/2006 to 01/2021:
Various Research and Academic positions at the field of Epidemiology.

Research Projects

i. 04/2024 to 02/2027:
Member of the Scientific Team. Statistical Inference in Diagnostic Studies: Tackling Boundaries and Imperfect Measures. Funder: DFG (Deutsche Forschungsgemeinschaft).

ii. 09/2022 to 09/2026:
MC & Member of the Scientific Team. Towards an improvement in diagnostics and treatment strategies for TB control (ADVANCE-TB). Funder: H2020 - COST Action..

iii. 12/2022 to 12/2025:
Coordinator and Project leader. DIGICOW: Precision Technologies for the Early Detection of Pathological Entities in Dairy Cows. Funder: ESPA 2021 – 2027.

iv. 12/2022 to 12/2025:
Coordinator and Project leader. NOLAME: Early Detection of Lameness in Dairy Cows for Welfare. Funder: ESPA 2021 – 2027.

v. 11/2022 to 11/2026:
Member of the Scientific Team for Epidemiology and Surveillance. European Swine Influenza Network. Funder: H2020 - COST Action.

vi. 10/2021 to 10/2025: **Member of the Scientific Team for Epidemiology, Surveillance & Validation of Diagnostics.** Biosecurity Enhanced Through Training Evaluation and Raising Awareness. Funder: H2020 - COST Action.

vii. 11/2020 to 11/2022:
Leader for University of Thessaly. Unravelling Data for Rapid Evidence-Based Response to COVID-19. Funder: H2020 (Grant Agreement No 101016216 - https://uncover-eu.net).

viii. 10/2019 to 04/2024:
Main proposer, Coordinator and Chair. Novel tools for test evaluation and disease prevalence estimation (www.harmony-net.eu). Funder: H2020 - COST Action

ix. 01/2018 to 02/2020:
Coordinator and Project leader. HOTLINE: Harmonization of Transmissible Disease Interpretation in the EU. Funder: European Food Safety Authority.

x. 10/2018 to 10/2022:
MC & Member of the Scientific Team. Standardizing output-based surveillance to control non-regulated diseases of cattle in the EU (SOUND-control). Funder: H2020 - COST Action.

xi. 09/2016 to 12/2016:
Leader. Paratuberculosis factsheet. Funding body: European Food Safety Authority (NP/EFSA/ALPHA/2016/19).

xii. 01/2014 to 07/2015:
Member of the scientific team. Epidemiological evaluation of control options for paratuberculosis in small ruminants. Funding body: NSRF 2007-2013 (Excellence II).

xiii. 01/2013 to 06/2015:
Member of the scientific team. Claw lesions, longevity and welfare of group housed sows". Funding body: NSRF 2007-2013 (Cooperation 2011).

xiv. 10/2012 to 09/2015:
Member of the scientific team. NEAT: Networking to enhance the use of economics in animal health education, research and policy making in Europe and beyond. Funding body: EU (527855-LLP-1-2012-1-UK-ERASMUS-ENW). Member of the scientific team.

xv.   01/2012 to 12/2014:
      Leader for the Faculty of Veterinary Medicine. Development of digital open courses at the University of Thessaly. Funding body: Education and Lifelong Learning Operational Program (NSRF 2007-2013).
xvi. 09/2011 to 09/2014:
      Member of the scientific team. RBHEALTH: Interdisciplinary Investigation and Identification of Rotaviruses, Bartonella henselae and Leishmania spp. from Children and Animal Hosts using Novel Technologies: Public Health " Funding body: Education and Lifelong Learning Operational Program (NSRF 2007-2013).
xvii. 09/2010 to 08/2013:
      Member of the scientific team. Study on the factors affecting the spread of paratuberculosis in Greek small ruminant herds. Funding body: Education and Lifelong Learning Operational Program (NSRF 2007-2013).
xviii. 11/2009 to 11/2011:
      Leader. Temporal correlation patterns between milk and blood antibody-ELISA testing for paratuberculosis, in sheep and goats. Funding body: Research Committee, University of Thessaly.
xix. 07/2009 to 06/2013:
      Member of the scientific team. WILDTECH: Novel Technologies for Surveillance of Emerging and Re-emerging Infections of Wildlife" Funding body: FP7 (Food, Agriculture and Fisheries, and Biotechnology).
xx.   10/2009 to 04/2010:
      Member of the scientific team. A quantitative microbiological risk assessment of Campylobacter in the broiler meat chain". Funding body: European Food Safety Authority (CFT/EFSA/BIOHAZ/2009/01).
xxi. 01/2002 to 12/2006:
      Member of the scientific team. Isolation, molecular characterization and epidemiological study of Greek strains of Mycobacterium avium subsp. paratuberculosis from sheep, goats and non-ruminant wildlife". Funding body: Hellenic Ministry of Education (Heraclitus I).
xxii. 10/2001 to 10/2005:
xxiii. **Member of the scientific team**. The role of wildlife in the epidemiology of Mycobacterium avium paratuberculosis infection of domestic ruminants in Europe" Funding body: EU (QLK2 – CT – 2001 – 00879).

Professional Affiliations and Achievements

i.   02/2022 to present:
      Member of the Executive Board, Association of Schools of Public Health in the European Region (ASPHER).
ii.   01/2019 to present:
      Editor-in-Chief, Preventive Veterinary Medicine (Elsevier).

Recent Selected Publications
Methodological:
i.   Bayesian interpretation of likelihood ratios in clinical diagnosis and public health (2024). P Kostoulas, SAR Doi. Current Opinion in Epidemiology & Public Health.

ii. All that glitters is not gold: an interpretive framework for diagnostic test evaluation using Ascaris lumbricoides as a conceptual example (2024). Denwood M, Nielsen SS, Olsen A, Jones H, Coffeng L, Landfried, G, Nielsen M, Levecke B, Milan S, Eusebi P, Meletis E, Kostoulas P, Hartnack S, Erkosar B, Toft N. Plos Neglected Tropical Diseases.

iii. Determining the conclusiveness of a meta-analysis (2024). J Abdulmajeed, K Pateras, P Kostoulas, SAR Doi. JBI Evidence Synthesis, 22 (3), 406-412.

iv. Likelihood ratio interpretation of the relative risk (2023). SAR Doi, P Kostoulas, P Glasziou. BMJ Evidence-Based Medicine, 28 (4), 241-243.

v. Limits in the search date for rapid reviews of diagnostic test accuracy studies (2023). L Furuya-Kanamori, L Lin, P Kostoulas, J Clark, C Xu. Research Synthesis Methods, 14 (2), 173-179.

vi. Noncollapsibility of the odds ratio unraveled (2023). J Abdulmajeed, P Kostoulas, Z Shi, SAR Doi. Current Opinion in Epidemiology and Public Health, 2 (3), 32-38.

vii. Addressing misclassification bias in vaccine effectiveness studies with an application to Covid-19 (2023). P Eusebi, N Speybroeck, S Hartnack, J Stærk-Østergaard, MJ Denwood, ... BMC Medical Research Methodology, 23 (1), 55.

viii. | tPRiors|: a tool for prior elicitation and obtaining posterior distributions of true disease prevalence (2022). K Pateras, P Kostoulas. BMC medical research methodology, 22 (1), 91.

ix. Overconfident results with the bivariate random effects model for meta-analysis of diagnostic accuracy studies (2022). L Furuya-Kanamori, E Meletis, C Xu, P Kostoulas, SAR Doi. Journal of Evidence-Based Medicine, 15 (1), 6.

x. Bayesian latent class analysis when the reference test is imperfect. (2021). A Cheung, S Dufour, G Jones, P Kostoulas, MA Stevenson, ... Revue scientifique et technique (International Office of Epizootics), 40 (1 ….

xi. A new method for synthesizing test accuracy data outperformed the bivariate method (2021). L Furuya-Kanamori, P Kostoulas, SAR Doi. Journal of clinical epidemiology, 132, 51-58.

xii. The epidemic volatility index, a novel early warning tool for identifying new waves in an epidemic (2021). P Kostoulas, E Meletis, K Pateras, P Eusebi, T Kostoulas, ... Scientific reports, 11 (1), 23775.

xiii. STARD-BLCM: Standards for the Reporting of Diagnostic accuracy studies that use Bayesian Latent Class Models (2017). P Kostoulas, SS Nielsen, AJ Branscum, WO Johnson, N Dendukuri, ... Preventive veterinary medicine, 138, 37-47.

xiv. Reporting guidelines for diagnostic accuracy studies that use Bayesian latent class models (STARD-BLCM). (2017). P Kostoulas, SS Nielsen, AJ Branscum, WO Johnson, N Dendukuri, ... Statistics in Medicine, 36 (23), 3603-3604.

Public Health Policy and Training:

i. Professionalization of the public health workforce: scoping review and call to action (2024). K Czabanowska, P Rodriguez Feria, E Kuhlmann, P Kostoulas, ... European Journal of Public Health, 34 (1), 52-58.

ii. ASPHER Statement: A New Public Health Curriculum for a "New Normal" (2023). M Codd, H Barros, N Davidovitch, O Razum, M Mabhala, P Kostoulas, ... Public Health Reviews, 44, 1606539.

iii. Professionalization of the public health workforce: scoping review and call to action (vol 34, ckad171, 2023) (2023). K Czabanowska, PR Feria, E Kuhlmann, P Kostoulas, J Middleton, ... EUROPEAN JOURNAL OF PUBLIC HEALTH, 33 (6), 1208-1208.

iv. Building the future one health workforce (2023). M Codd, G Valiotis, N Davidovitch, P Kostoulas, O Razum, M Mabhala, ... Eurohealth, 29 (2), 2.

Other:

i. Prevalence estimates of major depressive disorder in 27 European countries from the European health interview survey: accounting for imperfect diagnostic accuracy of the PHQ-8 (2023). F Fischer, D Zocholl, G Rauch, B Levis, A Benedetti, B Thombs, M Rose, ... BMJ Ment Health, 26 (1).

ii. Tick-Borne Encephalitis Virus and Borrelia burgdorferi Seroprevalence in Balkan Tick-Infested Individuals: A Two-Centre Study (2023). D Jakimovski, S Mateska, E Dimitrova, M Bosilkovski, D Mijatović, V Simin, ... Pathogens, 12 (7), 922.

iii. Review state-of-the-art of output-based methodological approaches for substantiating freedom from infection (2024). E Meletis, B Conrady, P Hopp, T Lurier, J Frössling, T Rosendal, ... Frontiers in veterinary science, 11, 1337661.

iv. Burden of infectious disease studies in Europe and the United Kingdom: a review of methodological design choices (2023). P Charalampous, JA Haagsma, LS Jakobsen, V Gorasso, I Noguer, ... Epidemiology & Infection, 151, e19.

v. The convergence epidemic volatility index (cEVI) as an alternative early warning tool for identifying waves in an epidemic (2023). K Pateras, E Meletis, M Denwood, P Eusebi, P Kostoulas. Infectious Disease Modelling, 8 (2), 484-490.

vi. Diagnostic accuracy estimates for COVID-19 real-time polymerase chain reaction and lateral flow immunoassay tests with bayesian latent-class models (2021). P Kostoulas, P Eusebi, S Hartnack. American journal of epidemiology, 190 (8), 1689-1695.

vii. The feasibility and acceptability of various bovine brucellosis control strategies in India (2021). NK Dhand, J Singh, HS Josan, BB Singh, N Jaswal, HK Tiwari, ... Preventive Veterinary Medicine, 189, 105291.

viii. Harmonisation of Transmissible disease Interpretation in the EU (HOTLINE) (2019). P Kostoulas, A Giovannini, A Alba, A Comin, E Meletis, S Iannetti, S Napp, ... EFSA Supporting Publications, 16 (7), 1678E.

ix. Cost-benefit analysis of intervention policies for prevention and control of brucellosis in India (2018). BB Singh, P Kostoulas, JPS Gill, NK Dhand. PLoS neglected tropical diseases, 12 (5), e0006488.

Teaching Experience

i. 2021 to Present:

Faculty of Public & One Health, University of Thessaly

    a. Courses Developed and Taught:

        i. Epidemiology

        ii. Biostatistics

        iii. Bayesian Biostatistics

        iv. Risk Analysis in Public Health (developed notably before the onset of the COVID-19 pandemic)

        v. Research Methods in Public Health

        vi. Strategic Intervention Campaign Design in Public Health (developed notably before the onset of the COVID-19 pandemic)

Coordinator Roles:

    b. Coordinator of the "Risk Analysis in Public Health" module within the M.Sc. program in Epidemiology at the Hellenic Open University.

    c. Coordinator of the "Epidemiology" module within the M.Sc. program in Evidence-Based Practice, Epidemiology, and Biostatistics at the Medical Faculty, University of Thessaly.

ii. 2002 to 2021:

    a. Various Teaching Roles in Epidemiology

Provided comprehensive instruction in epidemiology across all study levels, encompassing undergraduate, postgraduate, and continuing education courses.

Complete publication list

1. Assessment of the effect of long-term serum storage for retrospective serologic diagnosis of canine monocytic ehrlichiosis (Ehrlichia canis) (2024). M Karagkouni, K Spilioti, E Meletis, P Kostoulas, C Koutinas, K Theodorou, ... Comparative Immunology, Microbiology and Infectious Diseases, 102170.
2. Estimates of sensitivity and specificity of serological tests for SARS-CoV-2 specific antibodies using a Bayesian latent class model approach (2024). JP Costa, P Meireles, E Meletis, P Kostoulas, M Severo. Journal of Clinical Epidemiology, 168, 111267.
3. Effects of a Curcumin/Silymarin/Yeast-Based Mycotoxin Detoxifier on Redox Status and Growth Performance of Weaned Piglets under Field Conditions (2024). VG Papatsiros, GI Papakonstantinou, N Voulgarakis, C Eliopoulos, ... Toxins, 16 (4), 168.
4. Animal Health Discourse during Ecological Crises in the Media—Lessons Learnt from the Flood in Thessaly from the One Health Perspective (2024). E Meletis, A Jarynowski, S Maksymowicz, P Kostoulas, V Belik. Veterinary Sciences, 11 (4), 140.
5. Epidemiological insights into paratuberculosis in camels in Saudi Arabia: Bayesian estimation of true prevalence and identification of risk factors (2024). A Al Naeem, M Salem, F Housawi, K Al-Mohammed Salem, J Hussen, ... Plos one, 19 (3), e0299881.
6. Review state-of-the-art of output-based methodological approaches for substantiating freedom from infection (2024). E Meletis, B Conrady, P Hopp, T Lurier, J Frössling, T Rosendal, ... Frontiers in veterinary science, 11, 1337661.
7. Determining the conclusiveness of a meta-analysis (2024). J Abdulmajeed, K Pateras, P Kostoulas, SAR Doi. JBI Evidence Synthesis, 22 (3), 406-412.
8. Bayesian latent class modelling of true prevalence in animal subgroups with application to bovine paratuberculosis infection (2024). K Veres, Z Lang, A Monostori, P Kostoulas, L Ózsvári. Preventive Veterinary Medicine, 224, 106133.
9. Bayesian true prevalence estimation of brucellosis in sheep, goats, cattle and camels in southeast regions of Iran (2024). E Meletis, E Sakhaee, P Kostoulas. Zoonoses and Public Health, 71 (2), 170-177.
10. Early warning of potential epidemics: A pilot application of an early warning tool to data from the pulmonary clinic of the university hospital of Thessaly, Greece (2024). E Meletis, I Poulakida, G Perlepe, A Katsea, K Pateras, S Boutlas, ... Journal of Infection and Public Health, 17 (3), 401-405.
11. Statement of the ASPHER Task Force on War and Public Health on the Conflict in Israel/Palestine (2024). O Razum, P Barach, T Bochenek, C Cunningham, N Davidovitch, ... Public Health Reviews, 45, 1607047.
12. Real-world evidence of rabies post-exposure prophylaxis in Serbia: Nation-wide observational study (2017–2019) (2024). P Banović, D Mijatović, V Simin, N Vranješ, E Meletis, P Kostoulas, ... Travel Medicine and Infectious Disease, 102697.
13. Professionalization of the public health workforce: scoping review and call to action (2024). K Czabanowska, P Rodriguez Feria, E Kuhlmann, P Kostoulas, ... European Journal of Public Health, 34 (1), 52-58.
14. Likelihood ratio interpretation of the relative risk (2023). SAR Doi, P Kostoulas, P Glasziou. BMJ Evidence-Based Medicine, 28 (4), 241-243.
15. Limits in the search date for rapid reviews of diagnostic test accuracy studies (2023). L Furuya-Kanamori, L Lin, P Kostoulas, J Clark, C Xu. Research Synthesis Methods, 14 (2), 173-179.
16. Prevalence estimates of major depressive disorder in 27 European countries from the European health interview survey: accounting for imperfect diagnostic accuracy of the PHQ-8 (2023). F Fischer, D Zocholl, G Rauch, B Levis, A Benedetti, B Thombs, M Rose, ... BMJ Ment Health, 26 (1).
17. Tick-Borne Encephalitis Virus and Borrelia burgdorferi Seroprevalence in Balkan Tick-Infested Individuals: A Two-Centre Study (2023). D Jakimovski, S Mateska, E Dimitrova, M Bosilkovski, D Mijatović, V Simin, ... Pathogens, 12 (7), 922.
18. Diagnostic accuracy of multiplex nucleic acid amplification tests for Campylobacter infection: a systematic review and meta-analysis (2023). X Rousou, L Furuya-Kanamori, P Kostoulas, SAR Doi. Pathogens and Global Health, 117 (3), 259-272.
19. Noncollapsibility of the odds ratio unraveled (2023). J Abdulmajeed, P Kostoulas, Z Shi, SAR Doi. Current Opinion in Epidemiology and Public Health, 2 (3), 32-38.

20. Detection of Enterotoxigenic Escherichia coli and Clostridia in the Aetiology of Neonatal Piglet Diarrhoea: Important Factors for Their Prevention (2023). N Tsekouras, E Meletis, P Kostoulas, G Labronikou, Z Athanasakopoulou, ... Life, 13 (5), 1092.

21. Addressing misclassification bias in vaccine effectiveness studies with an application to Covid-19 (2023). P Eusebi, N Speybroeck, S Hartnack, J Stærk-Østergaard, MJ Denwood, ... BMC Medical Research Methodology, 23 (1), 55.

22. Effects of a natural polyphenolic product from olive mill wastewater on oxidative stress and post-weaning diarrhea in piglets (2023). GI Papakonstantinou, E Meletis, K Petrotos, P Kostoulas, N Tsekouras, ... Agriculture, 13 (7), 1356.

23. Burden of infectious disease studies in Europe and the United Kingdom: a review of methodological design choices (2023). P Charalampous, JA Haagsma, LS Jakobsen, V Gorasso, I Noguer, ... Epidemiology & Infection, 151, e19.

24. The convergence epidemic volatility index (cEVI) as an alternative early warning tool for identifying waves in an epidemic (2023). K Pateras, E Meletis, M Denwood, P Eusebi, P Kostoulas. Infectious Disease Modelling, 8 (2), 484-490.

25. Zoonosis–Why we should reconsider "What's in a name?" (2023). BB Singh, MP Ward, P Kostoulas, NK Dhand. Frontiers in Public Health, 11, 1133330.

26. ASPHER Statement: A New Public Health Curriculum for a "New Normal" (2023). M Codd, H Barros, N Davidovitch, O Razum, M Mabhala, P Kostoulas, ... Public Health Reviews, 44, 1606539.

27. Evidence of tick-borne encephalitis virus neutralizing antibodies in Serbian individuals exposed to tick bites (2023). P Banović, D Mijatović, I Bogdan, V Simin, E Meletis, P Kostoulas, ... Frontiers in Microbiology, 14, 1314538.

28. Professionalization of the public health workforce: scoping review and call to action (vol 34, ckad171, 2023) (2023). K Czabanowska, PR Feria, E Kuhlmann, P Kostoulas, J Middleton, ... EUROPEAN JOURNAL OF PUBLIC HEALTH, 33 (6), 1208-1208.

29. Prevalence of HIV, hepatitis B virus, hepatitis C virus, drug use, and sexual behaviors among street children in Iran: A systematic review and meta-analysis (2023). N Nasiri, P Kostoulas, P Roshanfekr, AA Kheirkhah Vakilabad, M Khezri, ... Health Science Reports, 6 (11), e1674.

30. Factors affecting the differential epithelial cell count in preputial cytology of healthy intact dogs (2023). M Vergou, HN Ververidis, E Meletis, P Kostoulas, D Pardali, ... Journal of Veterinary Diagnostic Investigation, 35 (6), 795-799.

31. Seroprevalence of Swine Influenza A Virus (swIAV) Infections in Commercial Farrow-to-Finish Pig Farms in Greece (2023). VG Papatsiros, GI Papakonstantinou, E Meletis, K Koutoulis, ... Veterinary Sciences, 10 (10), 599.

32. Visualizing stability in studies: the moving average meta-analysis (MA2) (2023). K Pateras, KCB Roes, P Kostoulas. arXiv preprint arXiv:, :2309.13640.

33. Correspondence on population health surveys and screening tools for depressive disorders: aims and uses by Arias de la Torre et al (2023). F Fischer, D Zocholl, G Rauch, B Levis, A Benedetti, B Thombs, M Rose, ... BMJ Ment Health, 26 (1).

34. Histopathological Pulmonary Lesions in 1st-Day Newborn Piglets Derived from PRRSV-1 MLV Vaccinated Sows at the Last Stage of Gestation (2023). GI Papakonstantinou, D Psalla, A Pourlis, I Stylianaki, LV Athanasiou, ... Life, 13 (7), 1609.

35. Building the future one health workforce (2023). M Codd, G Valiotis, N Davidovitch, P Kostoulas, O Razum, M Mabhala, ... Eurohealth, 29 (2), 2.

36. Infectious Disease Modelling (2023). K Pateras, E Meletis, M Denwood, P Eusebi, P Kostoulas. , .

37. Clinical and Clinicopathologic Discriminators Between Canine Acute Monocytic Ehrlichiosis and Primary Immune Thrombocytopenia (2023). V Christodoulou, E Meletis, P Kostoulas, K Theodorou, ... Topics in Companion Animal Medicine, 52, 100750.

38. Evaluation of porcine circovirus type 2 double vaccination in weaning piglets that reared for gilts under field conditions (2023). V Papatsiros, G Papakonstantinou, E Meletis, D Bitchava, P Kostoulas. Veterinary Research Forum, 14 (1), 13.

39. Systematic review and meta-analysis of the effect of ABO blood group on the risk of SARS-CoV-2 infection (2022). G Balaouras, P Eusebi, P Kostoulas. PLoS One, 17 (7), e0271451.

40. Excess deaths during the COVID-19 pandemic in Iran (2022). M Ahmadi Gohari, M Chegeni, AA Haghdoost, F Mirzaee, L White, ... Infectious Diseases, 54 (12), 909-917.

41. Modelling human brucellosis based on infection rate and vaccination coverage of sheep and goats (2022). G Dougas, A Katsiolis, M Linou, P Kostoulas, C Billinis. Pathogens, 11 (2), 167.

42. Application of Bayesian modeling for diagnostic assays of Mycobacterium avium subsp. paratuberculosis in sheep and goats flocks (2022). Z Hemati, E Meletis, A Derakhshandeh, M Haghkhah, P Kostoulas, ... BMC Veterinary Research, 18 (1), 47.

43. | tPRiors|: a tool for prior elicitation and obtaining posterior distributions of true disease prevalence (2022). K Pateras, P Kostoulas. BMC medical research methodology, 22 (1), 91.

44. Occurrence and associated risk factors of porcine reproductive and respiratory syndrome virus and porcine circovirus type 2 infections in Greece (2022). VG Papatsiros, G Papakonstantinou, E Meletis, N Tsekouras, ... Viral immunology, 35 (3), 200-211.

45. A comparison of cytologic quality in fine-needle specimens obtained with and without aspiration from superficial lymph nodes in the dog (2022). V Karakitsou, MM Christopher, E Meletis, P Kostoulas, D Pardali, ... Journal of Small Animal Practice, 63 (1), 16-21.

46. Bayesian evaluation of three serological tests for diagnosis of Brucella infections in dromedary camels using latent class models (2022). I Elsohaby, P Kostoulas, AM Elsayed, HA Ahmed, MM El-Diasty, G Wareth, ... Preventive Veterinary Medicine, 208, 105771.

47. Cross-Sectional Survey of Antibiotic Resistance in Extended Spectrum β-Lactamase-Producing Enterobacteriaceae Isolated from Pigs in Greece (2022). N Tsekouras, Z Athanasakopoulou, C Diezel, P Kostoulas, SD Braun, ... Animals, 12 (12), 1560.

48. Corrigendum: Overview of Cattle Diseases Listed Under Category C, D or E in the Animal Health Law for Which Control Programmes Are in Place Within Europe (2022). JJ Hodnik, Ž Acinger-Rogić, M Alishani, T Autio, A Balseiro, J Berezowski, ... Frontiers in veterinary science, 9, 902559.

49. Evaluation of an on-farm method to assess colostrum IgG content in hyperprolific sows (2022). V Papatsiros, G Argyris, G Papakonstantinou, E Meletis, N Tsekouras, ... Animal Reproduction Science, 239, 106958.

50. Development of a Multiplex Bead Assay to Detect Serological Responses to Brucella Species in Domestic Pigs and Wild Boar with the Potential to Overcome Cross-Reactivity … (2022). A Touloudi, J McGiven, S Cawthraw, G Valiakos, P Kostoulas, ... Microorganisms, 10 (7), 1362.

51. Evaluation of the sensitivity and specificity of three diagnostic tests for Coxiella burnetii infection in cattle and buffaloes in Punjab (India) using Bayesian latent class … (2022). E Meletis, R Keshavamurthy, BB Singh Dhaliwal, RS Aulakh, N Dhand, ... Plos one, 17 (5), e0254303.

52. Evaluation of Intradermal PRRSV MLV Vaccination of Suckling Piglets on Health and Performance Parameters under Field Conditions (2022). G Maragkakis, LV Athanasiou, SC Chaintoutis, D Psalla, P Kostoulas, ... Animals, 13 (1), 61.

53. Hierarchical true prevalence, risk factors and clinical symptoms of tuberculosis among suspects in Bangladesh (2022). MK Khan, MN Islam, J Hassan, SK Paul, MA Islam, K Pateras, P Kostoulas, ... PloS One, 17 (7), e0262978.

54. Overconfident results with the bivariate random effects model for meta-analysis of diagnostic accuracy studies (2022). L Furuya-Kanamori, E Meletis, C Xu, P Kostoulas, SAR Doi. Journal of Evidence-Based Medicine, 15 (1), 6.

55. Heterologous Challenge with PRRSV-1 MLV in Pregnant Vaccinated Gilts: Potential Risk on Health and Immunity of Piglets (2022). G Papakonstantinou, E Meletis, G Christodoulopoulos, ED Tzika, ... Animals, 12 (4), 450.

56. A systematic review and meta-analysis of bovine tuberculosis in Bangladesh (2022). SS Islam, AKMA Rahman, SML Kabir, K Pateras, P Kostoulas. OSF, .

57. Overview of Cattle Diseases Listed Under Category C, D or E in the Animal Health Law for Which Control Programmes Are in Place Within Europe (vol 8, 688078, 2021) (2022). JJ Hodnik, Z Acinger-Rogic, M Alishani, T Autio, A Balseiro, J Berezowski, ... FRONTIERS IN VETERINARY SCIENCE, 9.

58. obtaining posterior distributions of true disease prevalence (2022). K Pateras, P Kostoulas. , , .

59. Bayesian latent class analysis when the reference test is imperfect. (2021). A Cheung, S Dufour, G Jones, P Kostoulas, MA Stevenson, ... Revue scientifique et technique (International Office of Epizootics), 40 (1 ….

60. Diagnostic accuracy estimates for COVID-19 real-time polymerase chain reaction and lateral flow immunoassay tests with bayesian latent-class models (2021). P Kostoulas, P Eusebi, S Hartnack. American journal of epidemiology, 190 (8), 1689-1695.

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