



Dr Fernando Sanchez-Vizcaino Buendia

Lecturer in Veterinary Public Health

Office Dolberry Building
Churchill Building,
Langford, Bristol BS40 5DU
([See a map](#))

f.s-vizcaino@bristol.ac.uk

Summary

My research has focused on the application of qualitative and quantitative epidemiological methods for the prevention and control of transboundary zoonotic diseases such as Rift Valley fever, avian influenza and Newcastle disease, and re-emerging swine infectious diseases like African swine fever and classical swine fever in Spain and other European countries. It has also been orientated towards new methods of disease surveillance such as the development of a novel real-time syndromic surveillance system for the early detection of disease outbreaks in small animals using the Small Animal Veterinary Surveillance Network (SAVSNET). My current research interest lies in the development of a 'One Health Informatics' approach, linking animal, human and environmental electronic data together at scale to provide a new understanding of emerging antimicrobial resistance and other zoonotic infections, as well as new opportunities to mitigate their risk.

Biography

Fernando Sánchez-Vizcaíno qualified as a veterinary surgeon at the University of Murcia in 2005. He then undertook further training in Epidemiology and Preventive Veterinary Medicine during his stay in the Animal Health Department of the Complutense University of Madrid (UCM) in 2006. Fernando spent the next four years in the Animal Research and Technology Center of Valencia (CITA-IVIA) to undertake a PhD developing epidemiological models to analyse the risk of entry of highly pathogenic avian influenza virus and Newcastle disease virus into Spain. In 2009, during his PhD, Fernando spent three months in the Royal Veterinary College to gain further training in Veterinary Epidemiology. He obtained a PhD in Veterinary Epidemiology with European Mention at UCM in 2010. In his first postdoctoral position, Fernando joined the VISAVET group Health Surveillance Centre at UCM (2011-2013). There he combined his research with a part-time Lectureship in Veterinary Epidemiology at the University Cardenal Herrera-CEU of Valencia during the years 2012 and 2013. For his second postdoctoral position, Fernando moved to the Small Animal Veterinary Surveillance Network (SAVSNET) team at the University of Liverpool (2013-2016). Then he was awarded an NIHR Veterinary Clinical Research Fellowship as part of the Health Protection Research Unit in Emerging and Zoonotic Infections at the University of Liverpool (2016-2017). Fernando took up the position of Lecturer in Veterinary Public Health at the University of Bristol in September 2017.

Keywords

- Epidemiology
- Antimicrobial Resistance
- Disease surveillance
- Zoonotic disease
- Mathematical modeling
- Geostatistics
- Risk analysis

Memberships

Organisations

[Bristol Veterinary School](#)

[Companion Animal Studies](#)

[Farm Animal Science](#)

[Langford Clinical Veterinary Service](#)

[Langford Farm](#)

[Veterinary General](#)

[Veterinary Pathology and Infection and Immunity](#)

Research areas

- [Comparative and Clinical Research](#)
- [Infection and Immunity](#)

Research: Cross cutting research

- [Biostatistics, Epidemiology, Mathematics and Ecology](#)
- [Global Food Security](#)

Research: Infection and Immunity

- [Veterinary Public Health](#)
- [Disease modelling and epidemiology](#)

Research: Comparative and Clinical

- [Small Animal Medicine](#)
- [Veterinary Education](#)
- [Farm Animal Research](#)

Research: Animal Welfare and Behaviour

- [Risk Factors and Solutions](#)

Links

-  [SAVSNET](#)

Recent publications

- Singleton, DA, McGarry, J, Torres, JR, Killick, D, Jewell, C, Smyth, S, Brant, B, Sánchez-Vizcaíno, F, Dawson, S, Pinchbeck, GL, Noble, PJM & Radford, AD, 2019, '[Small animal disease surveillance 2019: Pruritus, pharmacosurveillance, skin tumours and flea infestation](#)'. *Veterinary Record*, vol 185., pp. 470-475
- Hale, AC, Sánchez-Vizcaíno, F, Rowlingson, B, Radford, AD, Giorgi, E, O'Brien, SJ & Diggle, PJ, 2019, '[A real-time spatio-temporal syndromic surveillance system with application to small companion animals](#)'. *Scientific Reports*.
- Singleton, DA, Stavisky, J, Jewell, C, Smyth, S, Brant, B, Sánchez-Vizcaíno, F, Dawson, S, Pinchbeck, GL, Noble, PJ & Radford, AD, 2019, '[Small animal disease surveillance 2019: Respiratory disease, antibiotic prescription and canine infectious respiratory disease complex](#)'. *Veterinary Record*, vol 184., pp. 640-645
- Singleton, DA, Noble, PJM, Sánchez-Vizcaíno, F, Dawson, S, Pinchbeck, GL, Williams, NJ, Radford, AD & Jones, PH, 2019, '[Pharmaceutical prescription in canine acute diarrhoea: A longitudinal electronic health record analysis of first opinion veterinary practices](#)'. *Frontiers in Veterinary Science*, vol 6.
- Holloway, L, Massey, J, Sánchez-Vizcaíno, F, Cogan, TA, Dowsey, A & Tivers, M, 2019, '[Patterns of antimicrobial resistance in canine wound infections from two large scale electronic datasets](#)'. in: *BSAVA Congress Proceedings 2019*. British Small Animal Veterinary Association, Birmingham, UK, pp. 445-446
- Kathrani, A, Sánchez-Vizcaíno, F & Hall, EJ, 2019, '[Association of chronic enteropathy activity index, blood urea concentration, and risk of death in dogs with protein-losing enteropathy](#)'. *Journal of Veterinary Internal Medicine*, vol 33., pp. 536-543
- Singleton, DA, Arsevska, E, Smyth, S, Barker, EN, Jewell, C, Brant, B, Sánchez-Vizcaíno, F, Dawson, S, Pinchbeck, GL, Noble, PJM, Jones, PH & Radford, AD, 2019, '[Small animal disease surveillance: gastrointestinal disease, antibacterial prescription and Tritrichomonas foetus](#)'. *Veterinary Record*, vol 184., pp. 211-216
- Singleton, DA, Sánchez-Vizcaíno, F, Arsevska, E, Dawson, S, Jones, PH, Noble, PJ, Pinchbeck, GL, Williams, NJ & Radford, AD, 2018, '[New approaches to pharmacosurveillance for monitoring prescription frequency, diversity, and co-prescription in a large sentinel network of companion animal veterinary practices in the United Kingdom, 2014–2016](#)'. *Preventive Veterinary Medicine*, vol 159., pp. 153-161
- Arsevska, E, Singleton, DA, Jewell, C, Paterson, S, Jones, PH, Smyth, S, Brant, B, Dawson, S, Noble, PJ, Sánchez-Vizcaíno, F & Radford, AD, 2018, '[Surveillance: Small animal disease surveillance: Pruritus and Pseudomonas skin infections](#)'. *Veterinary Record*, vol 183., pp. 182-187
- Arsevska, E, Priestnall, SL, Singleton, DA, Jones, PH, Smyth, S, Brant, B, Dawson, S, Sánchez-Vizcaíno, F, Noble, PJM & Radford, AD, 2018, '[Small animal disease surveillance: respiratory disease 2017](#)'. *Veterinary Record*, vol 182., pp. 369-373

[View complete publications list](#) in the University of Bristol publications system

Courses

Dr Sanchez-Vizcaino Buendia currently teaches 4 courses: