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Research interests

I am a veterinary immunologist with experience working with a variety of animal species mostly focussing on infectious disease and host-pathogen interaction. My postdoctoral experience has focussed on design and assessment of novel vaccines for bacterial and protozoal disease in pigs and poultry. This has given me a broad range of experience in different techniques spanning microbiology, molecular biology, parasitology and immunology. My research interests are broadly focussed on understanding pathogenesis of immune mediated and infectious disease in companion and farm animals. I am particularly interested in understanding host variability in response to pathogens and how this information can be utilised to develop new treatment strategies and novel vaccines.

Qualifications

PhD, Canine Leishmaniosis: Immunogenetics of Infection and Vaccination
Sept 2011 → Mar 2016
Award Date: 30 May 2016

Bachelor, Bachelor of Veterinary Medicine and Surgery, University of Glasgow
Sept 2003 → Jun 2008
Award Date: 30 Jun 2008

Projects

2026-2029	Farming Innovation Programme: OneFarm-AMR: Deployable AMR Surveillance System to Improve Farm Productivity, Biosecurity, and Environmental Stewardship (Co-I)
2026-2028	Zoetis EBRC : SysBio-BeOA: A Systems-Level Investigation of Bedinvetmab (Librela) in Canine Osteoarthritis(Co-I)
2025-2026	Contract research : Telomere from calves in cow- calf contact system
2023-2024	BSAVA PetSavers: Is IgA deficiency a feature of canine atopic dermatitis in small and medium sized dogs?(PI)

Activities

The particularities of avian immune responses to parasites, focussing on coccidiosis and the poultry red mite
Soutter, F. (Speaker)
25 Sept 2022

Protozoan vaccine development: A yeast-based vaccine against Eimeria tenella in chickens
Soutter, F. (Speaker)
29 Sept 2021

Royal College of Veterinary Surgeons (External organisation)
Soutter, F. (Member)
Jul 2008 → …

Research outputs

Faecal IgA but not salivary IgA is associated with canine atopic dermatitis
Campbell, A. A., Nuttall, T., Robinson, V. & Soutter, F., 9 Aug 2026, (First published) In: Journal of Small Animal Practice.

Multi-omics analysis reveals regime shifts in the gastrointestinal ecosystem in chickens following anticoccidial vaccination and Eimeria tenella challenge
Liu, P. Y., Liaw, J., Soutter, F., Ortiz, J. J., Tomley, F. M., Werling, D., Gundogdu, O., Blake, D. P. & Xia, D., Oct 2024, In: mSystems. 9, 10

Differential expression of microRNAs in the caecal content and faeces of broiler chickens experimentally infected with Eimeria
Williams, J., Soutter, F., Burrell, C., Fernando, S., Xia, D., Irving, J., Williams-McDonald, S., Kim, S. & Blake, D. P., Aug 2022, In: Avian Pathology. 51, 4, p. 395-405 11 p.

An Experimental Dermal Oedema Model for Apx Toxins of Actinobacillus pleuropneumoniae
Soutter, F., Priestnall, S. L., Catchpole, B. & Rycroft, A. N., Jul 2022, In: Journal of Comparative Pathology. 195, p. 12-18 7 p.

A Novel Whole Yeast-Based Subunit Oral Vaccine Against Eimeria tenella in Chickens
Soutter, F., Werling, D., Nolan, M., Küster, T., Attree, E., Marugán-Hernández, V., Kim, S., Tomley, F. M. & Blake, D. P., 2 Feb 2022, (First published) In: Frontiers in Immunology. 13, 809711.

Impact of Eimeria tenella Oocyst Dose on Parasite Replication, Lesion Score and Cytokine Transcription in the Caeca in Three Breeds of Commercial Layer Chickens
Soutter, F., Werling, D., Kim, S., Pastor-Fernández, I., Marugán-Hernández, V., Tomley, F. M. & Blake, D. P., 22 Feb 2021, (First published) In: Frontiers in Veterinary Science. 8, 640041.

Vaccination with transgenic Eimeria tenella expressing Eimeria maxima AMA1 and IMP1 confers partial protection against high-level E. maxima challenge in a broiler model of coccidiosis
Pastor-Fernández, I., Kim, S., Marugán-Hernández, V., Soutter, F., Tomley, F. M. & Blake, D. P., 10 Jul 2020, (First published) In: Parasites and Vectors. 13, 1, 343.

Poultry Coccidiosis: Design and Interpretation of Vaccine Studies
Soutter, F., Werling, D., Tomley, F. M. & Blake, D. P., 26 Feb 2020, In: Frontiers in Veterinary Science. 7, 101.

Associations between clinical canine leishmaniosis and multiple vector-borne co-infections: a case-control serological study
Attipa, C., Solano-Gallego, L., Leutenegger, C. M., Papasouliotis, K., Soutter, F., Balzer, J., Carver, S., Buch, J. S. & Tasker, S., 18 Sept 2019, In: BMC Veterinary Research. 15, 1, p. 331

An investigation of polymorphisms in innate and adaptive immune response genes in canine leishmaniosis
Soutter, F., Solano-Gallego, L., Attipa, C., Gradoni, L., Fiorentino, E., Foglia Manzillo, V., Oliva, G., Tasker, S., Helps, C. & Catchpole, B., May 2019, In: Veterinary Parasitology. 269, p. 34-41 8 p.

Inconsistent MHC class II association in Beagles experimentally infected with Leishmania infantum
Soutter, F., Martorell, S., Solano-Gallego, L. & Catchpole, B., May 2018, In: Veterinary Journal. 235, p. 9-15 7 p.

Polymorphisms in the canine IL7R 3'UTR are associated with thymic output in Labrador retriever dogs and influence post-transcriptional regulation by microRNA 185
Holder, A., Jones, G., Soutter, F., Palmer, D. B., Aspinall, R. & Catchpole, B., Apr 2018, In: Developmental and Comparative Immunology. 81, p. 244-251 8 p.

Association between canine leishmaniosis and Ehrlichia canis co-infection: a prospective case-control study
Attipa, C., Solano-Gallego, L., Papasouliotis, K., Soutter, F., Morris, D., Helps, C., Carver, S. & Tasker, S., 20 Mar 2018, In: Parasites and Vectors. 11, 1, 184.

Canine tick-borne pathogens in Cyprus and a unique canine case of multiple co-infections
Attipa, C., Hicks, C. A. E., Barker, E. N., Christodoulou, V., Neofytou, K., Mylonakis, M. E., Siarkou, V. I., Vingopoulou, E. I., Soutter, F., Chochlakis, D., Psaroulaki, A., Papasouliotis, K. & Tasker, S., Mar 2017, In: Ticks and Tick-borne Diseases. 8, 3, p. 341-346 6 p.

Single nucleotide polymorphisms in major histocompatibility class II haplotypes are associated with potential resistance to inflammatory bowel disease in German shepherd dogs
Peiravan, A., Allenspach, K., Boag, A. M., Soutter, F., Holder, A., Catchpole, B., Kennedy, L. J., Werling, D. & Procoli, F., Dec 2016, In: Veterinary Immunology and Immunopathology. 182, p. 101-105 5 p.

Analysis of DLA-DQB1 and polymorphisms in CTLA4 in Cocker spaniels affected with immune-mediated haemolytic anaemia
Threlfall, A. J., Boag, A. M., Soutter, F., Glanemann, B., Syme, H. M. & Catchpole, B., 9 Jun 2015, In: Canine genetics and epidemiology. 2, 8.

Restricted dog leucocyte antigen (DLA) class II haplotypes and genotypes in Beagles
Soutter, F., Kennedy, L. J., Ollier, W. E. R., Solano-Gallego, L. & Catchpole, B., Mar 2015, In: Veterinary Journal. 203, 3, p. 345-7 3 p.