CONTACT INFORMATION

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PROPOSED RESEARCH AREA

School/Department/Research Group: School of Veterinary Medicine & Science, Division of Animal Science, Infection & Immunity

Project Title (please limit this to one sentence. This will be published on the web site)
Protective mechanisms of bovine IL-17⁺ lymphocytes.

Research Area for which you would welcome applications (please keep this as broad as possible at this stage. A few paragraphs will suffice):

IL-17A is the canonical member of the IL-17 family of cytokines, compromising IL-17A – IL-17E. It has been demonstrated to have diverse roles in promoting protective effects and pathological consequences in both infection and sterile inflammation. Our group has been the first to identify both CD4 and y6 IL-17 producing T-cells in cattle (Peckham et al 2014; Flynn & Marshall 2011). We have developed methods to derive these cells in vitro and test their functions. Our recent data suggests they can provide protective effects against the intracellular protozoan Neospora caninum (Peckham et al 2014).
We would like to invite a visiting international fellow to join our lab to explore the range of intracellular bovine pathogens that are susceptible to killing by these cells. This work will primarily focus on key protozoan and bacterial pathogens of economic interest. Furthermore, we have begun to explore the precise mechanism by which this occurs and the fellow will be given the opportunity to explore these aspects of IL-17⁺ y6 T-cells.


Maximum number of applications that the School/Department/Research Group is willing to accept: 1