

## TPI, THE PIRBRIGHT INSTITUTE (ISO10 AND ISO11 BUILDINGS)

(UK)

<b>Research topics:</b>	<p>The main research areas within which studies are undertaken in the large animal facilities at The Pirbright Institute are:</p> <ul style="list-style-type: none"><li>• Vaccine development and efficacy testing</li><li>• Host-Virus interactions including detailed elucidation of viral pathology and immune responses to vaccination / infection.</li><li>• Viral transmission biology including elucidation of latent periods, infectious period, incubation periods and viral evolution along transmissions chains.</li></ul>
<b>Activities and services currently offered by the infrastructure/installation:</b>	<p>The large animal units present at The Pirbright Institute are fully licensed to work with pathogens up to and including SAPO 4 / ACDP 3 pathogens. Some pathogens (listed below) are worked with on an ongoing basis and we therefore have ethical and government approval and working practices in place already (which is what would be available under the TNA unit cost quoted). We can, however, offer work to be undertaken for which we can provide animal welfare licensing / government license applications / risk assessments / SOPs but this may incur additional costs over and above that included in the unit cost (thus necessitating an amendment of the budget/unit costs requested by the applicant).</p> <p>As all work will be carried out in our high containment animal facilities, within which Foot-and-Mouth Disease is handled, any materials generated from the studies will need to be transported into our laboratory area. These samples must then either be shipped to another laboratory (legislative restrictions apply - associated paperwork and support for this is included in the TNA cost) or analyzed at Pirbright (not included in the TNA unit cost – will need to be arranged separately).</p> <p>We have a full complement of highly trained animal technicians, office and administrative support, and a</p>

	<p>team of veterinarians who will be able to plan, organize, and deliver on the requirements for most types of animal studies within the research topics outlined above.</p>
<p><b>Description of the access to be provided under VetBioNet TNA call:</b></p>	<p>The facilities available will be the SAPO 4 / ACDP 3 large animal facilities (BSL3-Ag), licensed to handle the species and pathogens below. Based on a standard cattle vaccine efficacy test, a single access would require 4 rooms (in each room 5 cattle &lt;200kg each) for 6 weeks (including an acclimatization period). As the unit of access being 1 room week, this would equate to 24 room weeks. We are able to offer 3 TNA projects such as this under the present TNA call.</p>
<p><b>Animal species/pathogens that can be worked on in this infrastructure/installation:</b></p>	<p>Cattle, Sheep, Pigs, Goats, Poultry, Mice, Guinea pigs, Rabbits.</p> <p>Pathogens which can be worked on in this infrastructure, taking into account expertise / knowledge include Foot-and-Mouth Disease virus, Lumpy Skin Disease virus, Bluetongue virus, Peste de Petit Ruminant virus, African Swine Fever virus, Classical Swine Fever virus, Swine Vesicular Disease virus, Vesicular Stomatitis virus, African Horse Sickness virus. Other SAPO / OIE listed pathogens could be worked on but this would need to be discussed prior to application.</p>
<p><b>Travel and subsistence costs:</b></p>	
<p><b>Infrastructure/installation ethical rules:</b></p>	<p>The high containment animal units at The Pirbright Institute are all licensed by the UK regulatory body The Home Office, which ensures the facilities meet the animal health and welfare standards min both the National legislation (ASPA 1986) and EU legislation (2010/63/EU). All studies must undergo ethical and welfare approvals.</p>