Aim
Determine relationship between environmentally acquired Bacillus and C. difficile
Determining the effect of Bacillus on C. difficile growth
Investigating the role of HELMs within the GI tract
In vivo exclusion of C. difficile by Bacillus
Method
Determine Bacillus and C. difficile presence/ absence within pig feces in the first 13 days of life
Investigate effect of long term habitation in a hygienic environment on Bacillus levels and C. difficile susceptibility
Screening of Bacillus for inhibitory activity against C. difficile using a microdilution assay
Characterisation of Bacillus anti-C. difficile activity
Ex vivo detection of lipopeptides within the small intestine (SI) using RP-HPLC and MALDI-TOF analysis
Ex vivo determination of inhibitory effect of HELMs within the SI
Determination of synergistic relationship between HELMs and secondary bile acids
Murine microbiota depletion model
Golden Syrian hamster model