

**Figure S6:** PCA scores plots generated using relative abundance values of the three most abundant phyla: *Bacteroidetes*, *Firmicutes* and *Actinobacteria*. Plots are shown for samples collected from all animals at weeks 5, 7, 10 and 14 (mean centred, Pareto-scaled data; Week 5: R2 = 1.00 Q2 = 0.92; Week 7: R2 = 1.00 Q2 = 0.98; Week 10: R2 = 1.00 Q2 = 0.97; Week 14: R2 = 1.00 Q2 = 0.95). In each plot principal components 1 and 2 (PC1 and PC2) are shown with the percentage of explained variance described by each component. Samples are coloured according to the cage (1-6) of each animal.