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| **Supplementary table 1.** Predominant bacterial species (expressed as a percentage of total sequences) in faeces of dogs fed diets containing graded potato fibre (PF) concentrations§ |
|  | % PF |  |  |
| Species | 0  | 1·5 | 3  | 4·5  |  6 | SEM | P-Value |
| *Bifidobacterium pseudolongum* |  0·21ab |  0·24ab |  0·15ab |  0·50b |  0·09a | 0·17 | 0·04 |
| *Prevotella copri*‡ |  0·68b |  0·24a |  0·40ab |  0·52ab |  0·22a | 0·36 | 0·02 |
| *Clostridium bifermentans* |  0·40 |  0·37 |  0·56 |  0·75 |  0·40 | 0·27 | 0·59 |
| *C. citroniae*‡\* |  0·06 |  0·09 |  0·15 |  0·17 |  0·15 | 0·03 | 0·05 |
| *C. disporicum* |  0·01 |  0·02 |  0·02 |  0·03 |  0·03 | 0·01 | 0·89 |
| *C. hiranonis*\* | 19·57b |  16·64ab | 19·64b |  19·29b | 10·42a | 4·37 | 0·02 |
| *C. incertae sedis*† |  0·18 |  0·37 |  0·33 |  0·48 |  0·14 | 0·17 | 0·18 |
| *C. lactatifermen*† |  0·01 |  0·06 |  0·06 |  0·11 |  0·02 | 0·03 | 0·12 |
| *C. metallolevans* |  0·03 |  0·05 |  0·08 |  0·07 |  0·04 | 0·03 | 0·39 |
| *C. spiroforme* |  0·42 |  0·36 |  0·52 |  0·22 |  0·21 | 0·14 | 0·25 |
| *Allobaculum stercoricanis*#† |  2·51 |  3·42 |  3·83 |  2·72 |  2·45 | 0·84 | 0·16 |
| *Catenibacterium mitsuokai* |  0·13 |  0·11 |  0·06 |  0·06 |  0·03 | 0·05 | 0·64 |
| *Coprobacillus cateniformis* |  0·12 |  0·15 |  0·16 |  0·15 |  0·11 | 0·04 | 0·86 |
| *Turicibacter sanguinis* |  0·70 |  0·55 |  0·77 |  0·80 |  0·55 | 0·23 | 0·62 |
| *Eubacterium biforme* |  0·20 |  0·35 |  0·29 |  0·46 |  0·34 | 0·15 | 0·62 |
| *E. dolichum* |  0·15 |  0·18 |  0·10 |  0·09 |  0·04 | 0·06 | 0·24 |
| *Blautia producta*† |  6·33 |  7·81 |  7·61 |  7·56 |  5·98 | 1·34 | 0·31 |
| *Ruminococcus obeum* |  1·29ab |  0·81a |  1·44ab |  2·32b |  0·97ab | 0·51 | 0·03 |
| *R. gnavus* |  1·04 |  0·94 |  0·83 |  1·06 |  0·60 | 0·38 | 0·38 |
| *R. torques* |  0·33 |  0·32 |  0·52 |  0·35 |  0·49 | 0·18 | 0·84 |
| *Lactobacillus acidophilus* |  0·11 |  0·05 |  0·09 |  0·07 |  0·09 | 0·07 | 0·96 |
| *L. johnsonii* |  0·68 |  3·54 |  0·66 |  2·04 |  3·45 | 1·82 | 0·62 |
| *L. reuteri (strain F275)* |  0·19 |  0·68 |  0·17 |  0·54 |  0·53 | 0·34 | 0·72 |
| *Faecalibacterium prausnitzii*‡\* |  4·15a |  8·67a |  8·89a |  9·63a | 14·88b | 2·00 | 0·01 |
| *Lactococcus lactis lactis* |  0·14 |  0·46 |  0·05 |  0·12 |  0·01 | 0·16 | 0·36 |
| *Fusobacterium varium* | 15·51 |  16·77 | 14·21 |  12·34 | 18·35 | 2·76 | 0·22 |
| §Genera included have LSMEANs of 0·01 or higher.abMeans in the same row with unlike superscript letters differ (*P* < 0·05).‡ Difference between 0% PF vs. all other PF diets (*P* < 0·05).\*Linear effect (*P* < 0·05).†Quadratic effect (*P* < 0·05). |







Supplementary figure 1: PCoA plots of faecal samples collected from dogs fed diets containing graded potato fibre (PF) concentrations. Violet: 0% PF; green: 1.5% PF; light blue 3% PF; orange: 4.5% PF; light green: 6% PF.



**Supplementary figure 2.** *E. coli* and *C. Perfringens* scatter plots for qPCR data. Horizontal line denotes the median value.