**Additional file 5:**

**Table S2.** Summary results of PERMANOVA based on the overall variation of *Eimeria* spp. composition, using Jaccard similarity coefficient. Significant predictors are in bold.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **DF** | **R**2 | **F** | **p** |
| **Locality** | **65** | **0.472** | **1.340** | **0.001** |
| Year | 2 | 0.012 | 1.109 | 0.351 |
| Sex | 1 | 0.009 | 1.642 | 0.101 |
| **BMI** | **1** | **0.020** | **3.752** | **0.002** |
| Sequencing Run | 1 | 0.003 | 0.557 | 0.849 |
| Residual | 89 | 0.482 | - | - |
| Total | 160 | 1 | - | - |

**Figure S4:** The distribution of *Eimeria* ASVs abundance in mice sampled in the natural environment. a) ASVs coloured by amplicon; b) ASVs coloured by *Eimeria* species. Samples are ordered in both axes based on the first axis of a principal coordinate analysis with Bray-Curtis dissimilarities. Abundances are the relative abundances after total sum scaling within each amplicon, and summed across amplicons for each sample.

