

Supplemental Information for:

Diet components associated with specific bacterial taxa shape overall gut community compositions in omnivorous African viverrids

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Supplementary figures

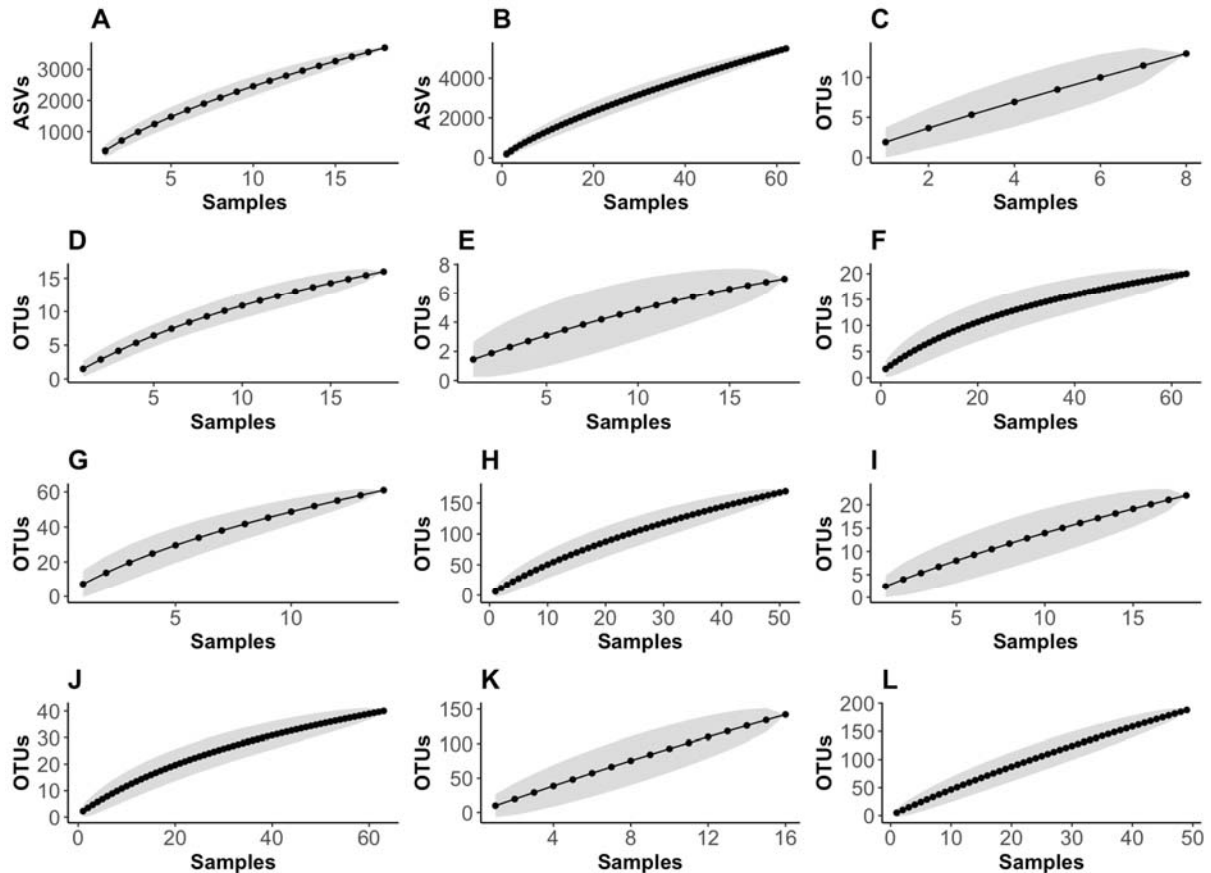


Figure S1. species accumulation curve of A) ASVs from bacterial 16S gene from *C. civetta*, B) ASVs from bacterial 16S gene from *Genetta* spp., C) OTUs from Coleop_16Sc and Coleop_16Sd marker from *C. civetta*, D) OTUs from Coleop_16Sc and Coleop_16Sd marker from *Genetta* spp., E) OTUs from 16S mamF and 16S mamR marker from *C. civetta*, F) OTUs from 16S mamF and 16S mamR marker from *Genetta* spp., G) OTUs from Trac01 and ITS 7A from *C. civetta*, H) OTUs from Trac01 and ITS 7A from *Genetta* spp., I) OTUs from RiazF and RiazR from *C. civetta*, J) OTUs from RiazF and RiazR from *Genetta* spp., K) OTUs from ZBJ-ArtF1c and ZBJ-ArtR2c from *C. civetta*, L) OTUs from ZBJ-ArtF1c and ZBJ-ArtR2c from *Genetta* spp. The grey areas show the standard deviation.

Supplementary Tables

Table S1. Complete list of *Civettictis civetta* and *Genetta* spp fecal samples collected at three Southern African locations (South Africa - SA, Mozambique - MZ, Eswatini - SW). Table also indicate the GPS coordinates of the latrines and whether the samples were sequenced for dietary and microbiome characterization

Table S2. Composition and recipe of RNAlater buffer used to preserve fecal samples in this study (Table is attached as a separate excel file).

Table S3. Museum tissue sample used to generate host species reference sequences and their museum id numbers from the Natural History Museum of Denmark (Table is attached as a separate excel file).

Table S4. Complete diet composition of *C. Civetta* and *Genetta* spp. on Class, Order, Family, Genus and Species level, including the sampling locations location (South Africa - SA, Mozambique - MZ, Eswatini - SW) (Table is attached as a separate excel file).

Table S5. OTU table of taxa identified with 16S mamF and 16S mamR primer pair, including their respective sequences (Table is attached as a separate excel file).

Table S6. OTU table of taxa identified with RiazF and RiazR primer pair, including their respective sequences (Table is attached as a separate excel file).

Table S7. OTU table of taxa identified with Coleop_16Sc and Coleop_16Sd primer pair, including their respective sequences (Table is attached as a separate excel file).

Table S8. OTU table of taxa identified with ZBJ-ArtF1c and ZBJ-ArtR2c primer pair, including their respective sequences (Table is attached as a separate excel file).

Table S9. OTU table of taxa identified with Trac01 and ITS 7A primer pair, including their respective sequences (Table is attached as a separate excel file).

Table S10. Bacterial ASV table with taxonomic assignments and their respective sequences (Table is attached as a separate excel file).

Table S11. Table indicating the overall distribution of bacterial sequences at bacterial phylum level and their proportion in *C. Civetta* and *Genetta* spp (Table is attached as a separate excel file).

Table S12. Pearson's correlations between bacterial taxa at genus level and proportion of dietary items at order level in *C. Civetta* and *Genetta* spp. False discovery rate (FDR) adjusted significance of correlations are shown with asterisks ($0.05 > * > 0.01$, $0.01 > ** > 0.001$, $*** < 0.0001$). **Tab 1** includes the correlations between bacteria and invertebrate orders in *C. Civetta*, while **Tab 2** include the correlations between bacteria and invertebrate orders in *Genetta* spp. **Tab 3** includes the correlations between bacteria and vertebrate orders in *C. Civetta*, while **Tab 4**

include the correlations between bacteria and vertebrate orders in *Genetta* spp. **Tab 5** includes the correlations between bacteria and plant orders in *C. Civetta*, while **Tab 6** include the correlations between bacteria and plant orders in *Genetta* spp.