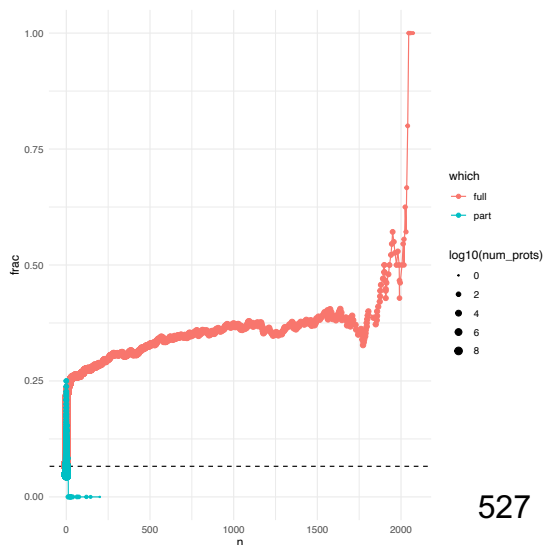


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526 Supplementary Tables and Figures



Supplementary Figure 1: Trend in mitochondrial localization for full-length (orange) and split (teal) homologs, as a function of their distribution across gut species. Each dot represents all microbial homologs present in at least a certain number of gut microbial species (x-axis). The size of the dot corresponds to the total number of such microbial homologs. The y-axis shows what fraction of the human homologs are annotated as localizing to the mitochondrion. The overall rate for all proteins is shown by the dashed line.

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529 **Supplementary Table 1:** GO term enrichment (biological process) for human proteins with more full-length
530 than split homologs. Terms with adjusted p-values below 0.05 are shown.

531 **Supplementary Table 2:** GO term enrichment (biological process) for human proteins with more split than
532 full-length homologs. Terms with adjusted p-values below 0.05 are shown.

533 **Supplementary Table 3:** Drugs metabolized by human proteins with mostly full-length homologs in the gut
534 microbiome.