Human gut microbiome across diets

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Point 1

1. SAD does not change, no need to go on

Point 2

1. Fig5 with occurrence per diet - just one of the diets needs to satisfy the occurrence criterion. The total occurrence selects points in the middle of the plot.
2. Fig5 with occurrence per diet - All the diets need to satisfy the occurrence criterion independently.
3. New Figure 5: The behaviour of species occurrence per diet: instead of using the average abundance as a coordinate use the occurrence.
4. Same as before but using the geometric mean abundance among samples where the species is present as a coordinate

Point 3

1. Select the species that occur in all (almost?) the samples (per diet or total)
2. compute the MAD (Mean Abundance Distribution) and the AFD (Abundance Fluctuation Distribution... or Alternative Fur Deutschland) from [Grilli 2020] we expect that MAD is Lognormal, AFD is Gamma.
3. Select species that are present in most of the samples (independently of the diet). Compare the species abundance variance within a diet, across different diets.