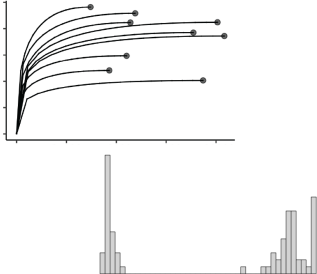
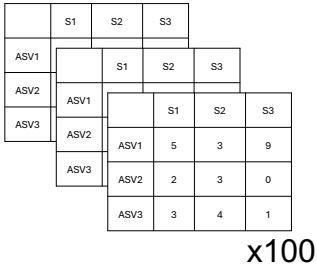


# 1. Assess sequencing depth



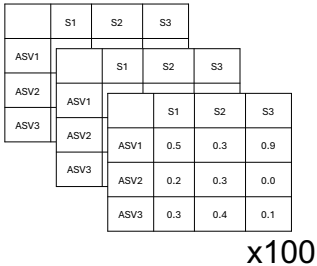
- Examine distributions of sequencing depth
- Use rarefaction curves to estimate saturation
- Remove samples with too few reads (this will be dependent on richness)

# 2. Rarefy to lowest sample reads (many iterations)



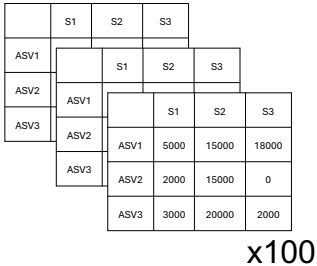
- Repeatedly subsample ASV abundance matrix to an even sequencing depth
- Use 100-1000 iterations

# 3. Convert to relative abundance



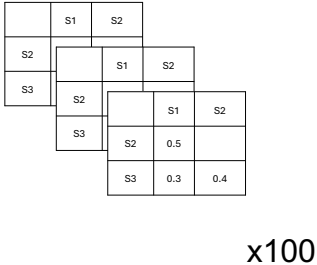
- Divide the abundance of each ASV by the normalized sequencing depth

# 4. Convert to absolute abundance



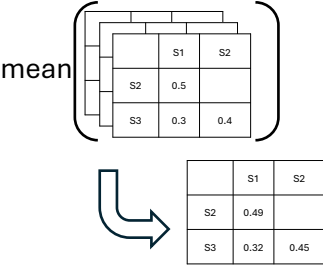
- Multiple the relative abundance of each ASV by the total cell count or 16S copy number of each sample

# 5. Calculate distance or dissimilarity



- Repeatedly calculate distance or dissimilarity metric across all iterations of rarefied ASV abundance matrices

# 6. Average distances or dissimilarities



- Average distance/dissimilarity matrices across all iterations of rarefaction