

## Genome Directory

Define the number of genomes to pick (default = 10) and number of reads to generate per file (default = 100,000)



Execute **sim** mode

PD on  
concatenated tree

Determines PD contributions for taxa present in concatenated guide tree in PhyloSift marker directory



Select Taxa

Two separate approaches used:

1. Select a set of taxa that contribute to PD (user input, default = 10)
2. Same number of taxa are randomly select taxa across PD list



Generate  
Simulated Reads

Grinder algorithm randomly generates reads from selected genomes, outputs simulated PE-Illumina and 454 datasets



Mask Simulated  
Taxa

Workflow plugs into updatedDB to mask genomes which have been used to simulate metagenome data.



Cloned Marker  
Directory

A cloned marker directory is created, where simulated genomes have been removed from marker packages.

