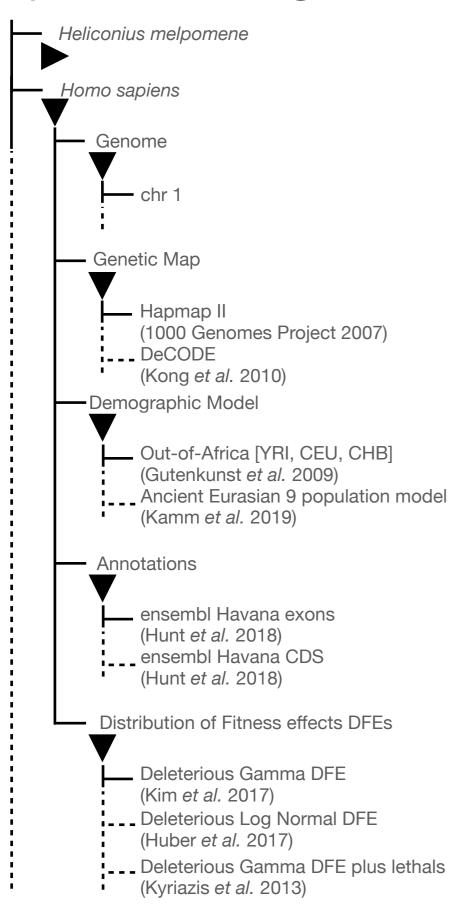
A. Species Catalog



B. Python API

```
selection.py
1 import stdpopsim
3 species = stdpopsim.get_species("HomSap")
4 contig = species.get_contig(
     "chr22".
     genetic map="HapMap GRCh37")
7 model = species.get_demographic_model(
     "OutOfAfrica 3G09")
9 samples = {"YRI": 5, "CEU": 5, "CHB": 5}
10 # selection additions
11 dfe = species.get dfe("Gamma K17")
12 exons = species.get annotations("ensembl havana 104 exons")
13 exon_intervals = exons.get_chromosome_annotations("chr22")
14 contig.add_dfe(intervals=exon_intervals, DFE=dfe)
15 engine = stdpopsim.get_engine("slim")
16 ts = engine.simulate(
     model.
17
18
     contig,
     samples,
     seed=236.
     slim_scaling_factor=20,
     slim burn in=10,
23 )
```

C. Command Line Interface

```
$ stdpopsim -e slim --slim-scaling-factor 20 HomSap -c chr22 \
--dfe Gamma_K17 \
--dfe-annotation ensembl_havana_104_CDS \
-o foo.ts -d OutOfAfrica_2T12 AFR:1 EUR:2
```