Preliminary comb experiment

# Experiment Description

1. I ran a total of 3 gphocs experiments. The experiments ran 5 million iterations. The experiments are -
   1. Dataset **M3.15.migAC\_0\_0**. Hypotheses -
      1. **AB\_C**
      2. **BC\_A**
      3. **AC\_B**
2. Using results from gphocs, I ran model-compare on AB\_C, BC\_A & AC\_B
   1. Configuration files are located in */home/rvisbord/experiments/comb/M3.15.migAC\_0\_0/${hypothesis}*

# McRef

## Results

### Summary\*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Hypothesis | Reference | Hm mean | Hm bootstrap | Rbf mean | Rbf bootstrap |
| AB\_C | Root comb | 2864046 | 4.6666 | -9661. | 50.562 |
| BC\_A | Root comb | 2864165 | 23.818 | -1.2813 | 0.1236 |
| AC\_B | Root comb | 2864132 | 4.5391 | -1.36 | 0.063 |

## Interpretation

### Raw results –

*rvisbord@bioidc:~/dev/modelcompare$ ./scripts/printers/print\_latest\_results.sh ./simulations/experiments/preliminary\_comb/M3.15.migAC\_0\_0/*

*Summary:*

*Simulation: AB\_C*

*Comb: root | Comb Leaves: A,B,C | Populations: | Migration Bands:*

*harmonic\_mean: {'bootstrap': 4.6666463561986236, 'ln\_mean': 2864046.945352992}*

*rbf\_ratio: {'bootstrap': 50.562290589004917, 'ln\_mean': -9661.4300244791793}*

*Summary:*

*Simulation: AC\_B*

*Comb: root | Comb Leaves: A,B,C | Populations: | Migration Bands:*

*harmonic\_mean: {'bootstrap': 4.5391238660275963, 'ln\_mean': 2864132.3577744258}*

*rbf\_ratio: {'bootstrap': 0.063237874661218232, 'ln\_mean': -1.36701299004406}*

*Summary:*

*Simulation: BC\_A*

*Comb: root | Comb Leaves: A,B,C | Populations: | Migration Bands:*

*harmonic\_mean: {'bootstrap': 23.818107421206452, 'ln\_mean': 2864165.6085757306}*

*rbf\_ratio: {'bootstrap': 0.12360596053407663, 'ln\_mean':* *-1.2813437411828588}*

# Gphocs

## Results

### Summary\*

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *Hypothesis* | *theta\_A* | *theta\_B* | *theta\_C* | *theta\_XY’* | *theta\_root* | *tau\_XY’* | *tau\_root* | *Data-ld-ln* | *Gene-ld-ln* | *Full-ld-ln* |
| *AB\_C* |  |  |  |  |  |  |  |  |  |  |
| *BC\_A* |  |  |  |  |  |  |  |  |  |  |
| *AC\_B* |  |  |  |  |  |  |  |  |  |  |

### Interpretation

### Raw results –

#### Original files:

/home/rvisbord/experiments/comb/M3.15.migAC\_0\_0/${hypothesis}/trace.tsv

#### Snippet: