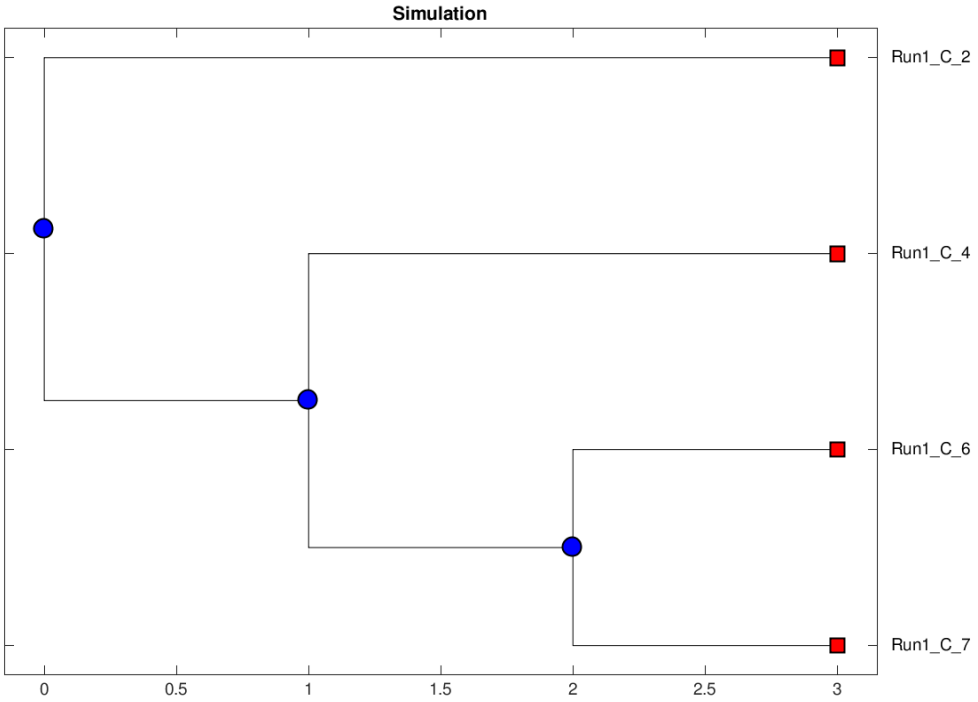
4 leaves (config-01.json)

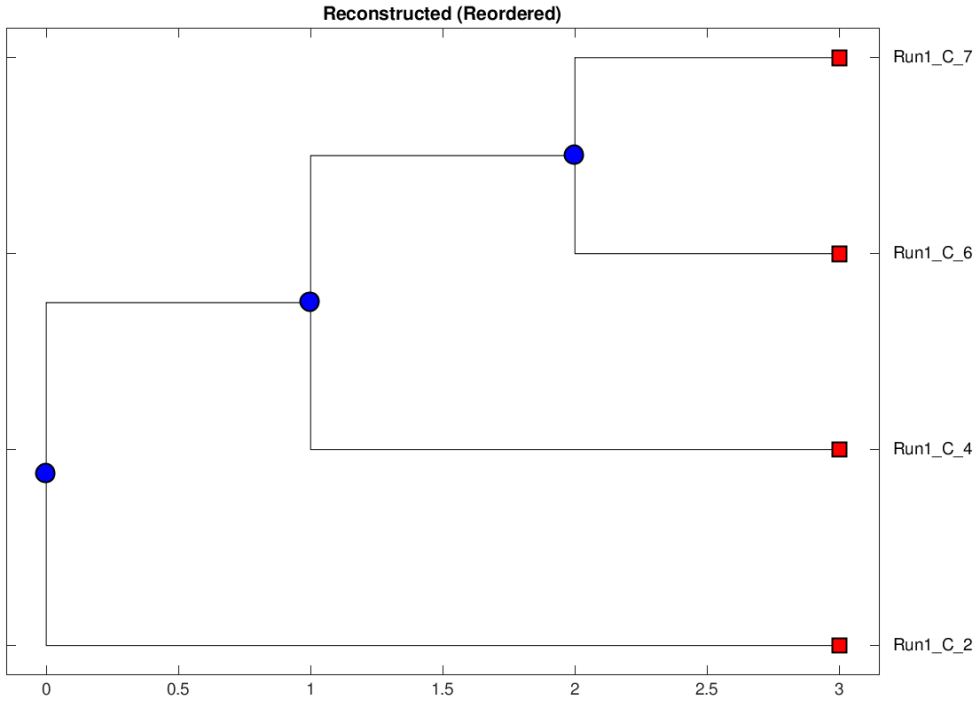
Parameters

Mutation:	True
Allelic Dropouts:	False
Noises:	False
Early Stop Population:	3

Mutation Table

names	C_2	C_4	C_6	C_7	root
LOC_1	19	19	21	21	19
LOC_2	21	20	21	21	20
LOC_3	7	7	7	7	7
LOC_4	7	7	7	7	7
LOC_5	7	7	7	7	7
LOC_6	18	16	16	17	16
LOC_7	13	13	15	14	13
LOC_8	20	22	23	24	22
LOC_9	15	14	15	15	15
LOC_10	17	15	15	15	17





'

RefTree_taxa	4.0	Triples	0.0
Tree_taxa	4.0	Triples_toYuleAvg	0.0
Common_taxa	4.0	Triples_toUnifAvg	0.0
MatchingCluster	0.0	MatchingPair	0.0
MatchingCluster_toYuleAvg	0.0	MatchingPair_toYuleAvg	0.0
MatchingCluster_toUnifAvg	0.0	MatchingPair_toUnifAvg	0.0
R-F_Cluster	0.0	MAST	0.0
R-F_Cluster_toYuleAvg	0.0	MAST_toYuleAvg	0.0
R-F_Cluster_toUnifAvg	0.0	MAST_toUnifAvg	0.0
NodalSplitted	0.0	CopheneticL2Metric	0.0
NodalSplitted_toYuleAvg	0.0	CopheneticL2Metric_toYuleAvg	0.0
NodalSplitted_toUnifAvg	0.0	CopheneticL2Metric_toUnifAvg	0.0

100.0%

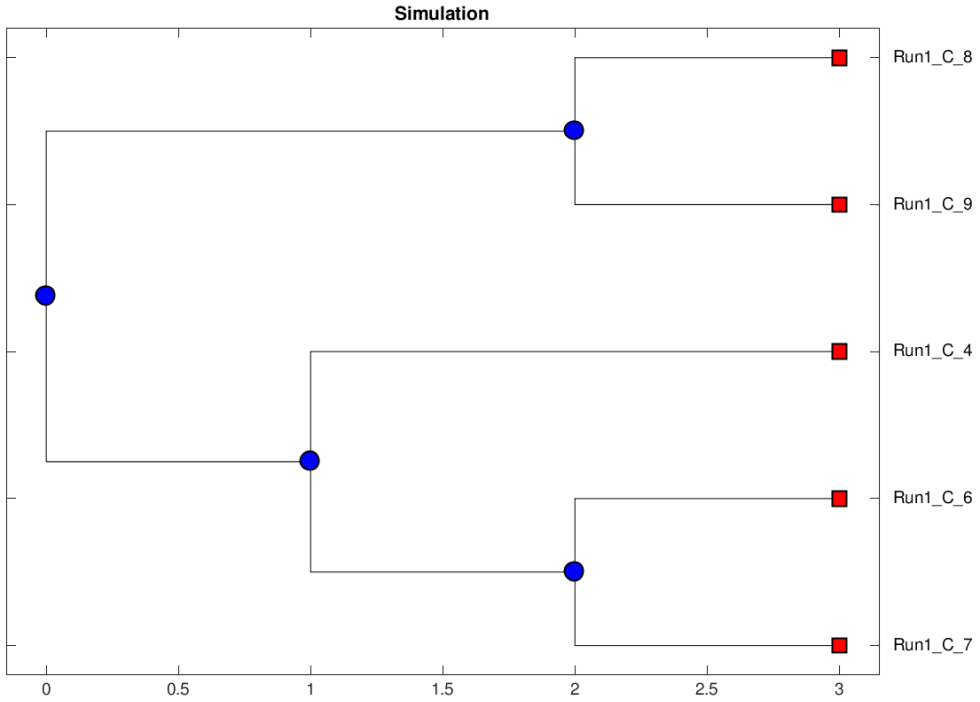
5 leaves (config-02.json)

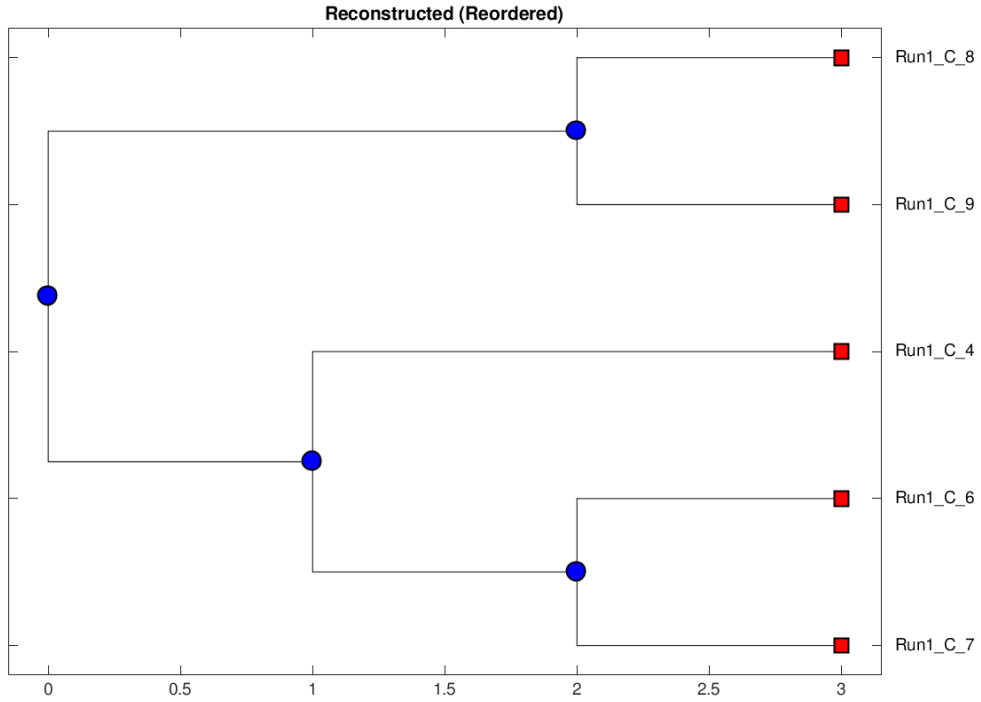
Parameters

Mutation:	True
Allelic Dropouts:	False
Noises:	False
Early Stop Population:	4

Mutation Table

names	C_4	C_6	C_7	C_8	C_9	root
LOC_1	19	21	21	19	20	19
LOC_2	20	21	21	21	21	20
LOC_3	7	7	7	8	8	7
LOC_4	7	7	7	7	7	7
LOC_5	7	7	7	7	7	7
LOC_6	16	16	17	20	18	16
LOC_7	13	15	14	13	13	13
LOC_8	22	23	24	19	20	22
LOC_9	14	15	15	15	15	15
LOC_10	15	15	15	17	17	17





'

RefTree_taxa	5.0	Triples	0.0
Tree_taxa	5.0	Triples_toYuleAvg	0.0
Common_taxa	5.0	Triples_toUnifAvg	0.0
MatchingCluster	0.0	MatchingPair	0.0
MatchingCluster_toYuleAvg	0.0	MatchingPair_toYuleAvg	0.0
MatchingCluster_toUnifAvg	0.0	MatchingPair_toUnifAvg	0.0
R-F_Cluster	0.0	MAST	0.0
R-F_Cluster_toYuleAvg	0.0	MAST_toYuleAvg	0.0
R-F_Cluster_toUnifAvg	0.0	MAST_toUnifAvg	0.0
NodalSplitted	0.0	CopheneticL2Metric	0.0
NodalSplitted_toYuleAvg	0.0	CopheneticL2Metric_toYuleAvg	0.0
NodalSplitted_toUnifAvg	0.0	CopheneticL2Metric_toUnifAvg	0.0

100.0%

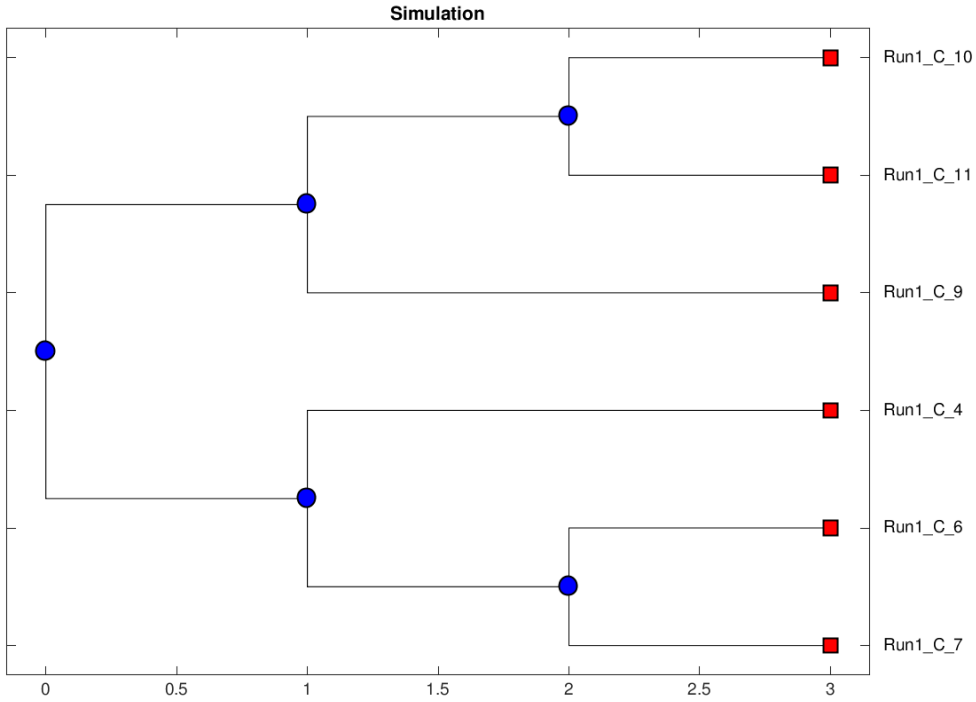
6 leaves (config-03.json)

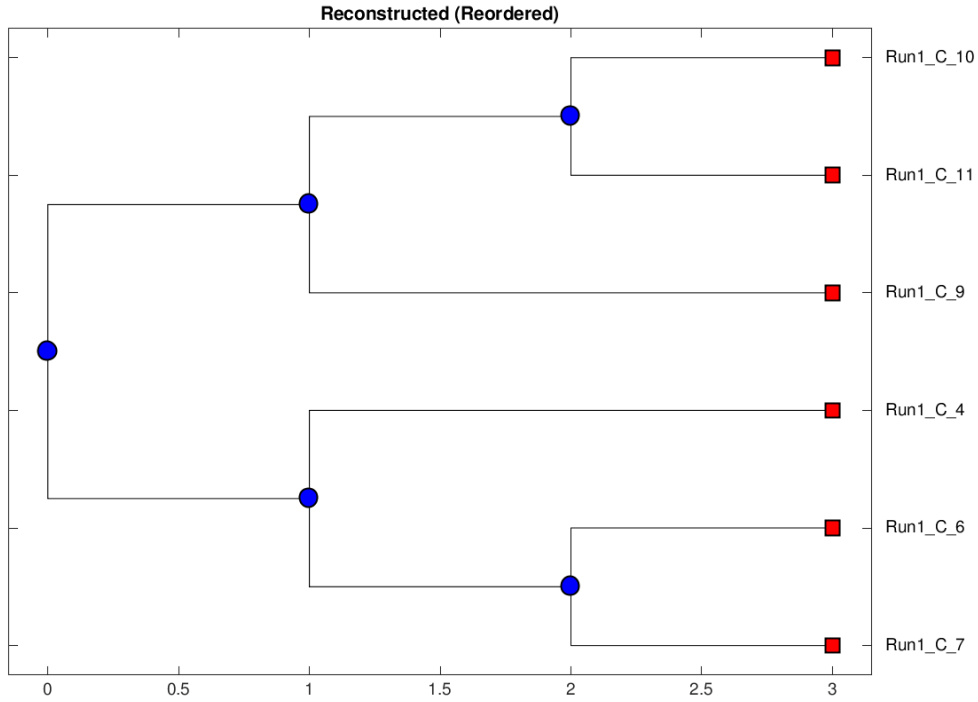
Parameters

Mutation:	True
Allelic Dropouts:	False
Noises:	False
Early Stop Population:	5

Mutation Table

names	C_4	C_6	C_7	C_9	C_10	C_11	root
LOC_1	19	21	21	20	19	19	19
LOC_2	20	21	21	21	21	21	20
LOC_3	7	7	7	8	8	8	7
LOC_4	7	7	7	7	7	7	7
LOC_5	7	7	7	7	7	7	7
LOC_6	16	16	17	18	20	20	16
LOC_7	13	15	14	13	14	13	13
LOC_8	22	23	24	20	19	19	22
LOC_9	14	15	15	15	15	15	15
LOC_10	15	15	15	17	17	18	17





'

RefTree_taxa	6.0	Triples	0.0
Tree_taxa	6.0	Triples_toYuleAvg	0.0
Common_taxa	6.0	Triples_toUnifAvg	0.0
MatchingCluster	0.0	MatchingPair	0.0
MatchingCluster_toYuleAvg	0.0	MatchingPair_toYuleAvg	0.0
MatchingCluster_toUnifAvg	0.0	MatchingPair_toUnifAvg	0.0
R-F_Cluster	0.0	MAST	0.0
R-F_Cluster_toYuleAvg	0.0	MAST_toYuleAvg	0.0
R-F_Cluster_toUnifAvg	0.0	MAST_toUnifAvg	0.0
NodalSplitted	0.0	CopheneticL2Metric	0.0
NodalSplitted_toYuleAvg	0.0	CopheneticL2Metric_toYuleAvg	0.0
NodalSplitted_toUnifAvg	0.0	CopheneticL2Metric_toUnifAvg	0.0

100.0%

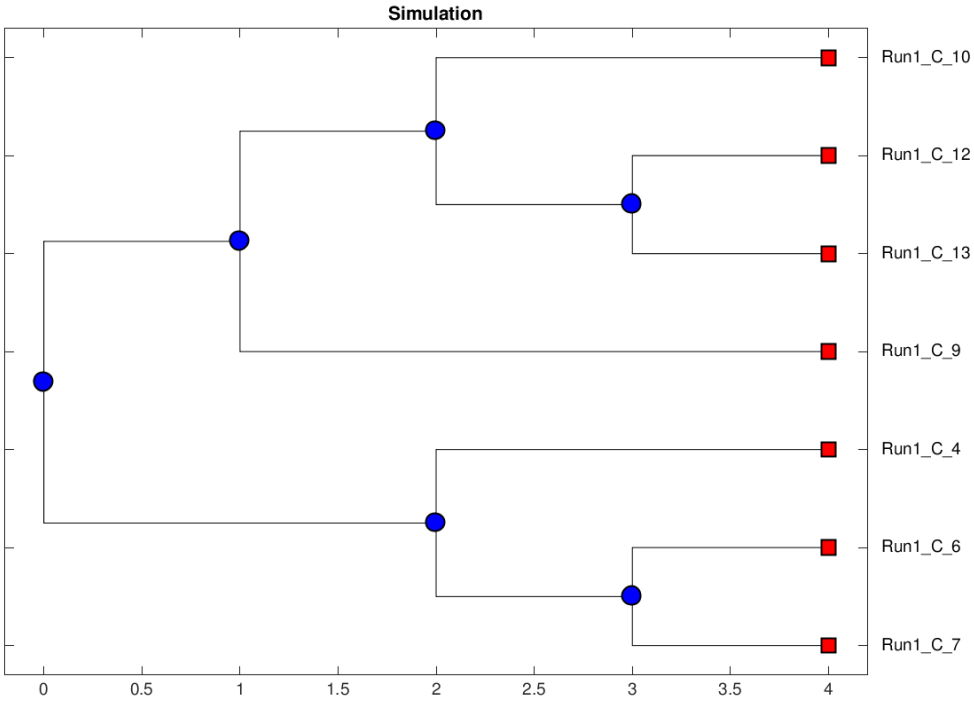
7 leaves (config-04.json)

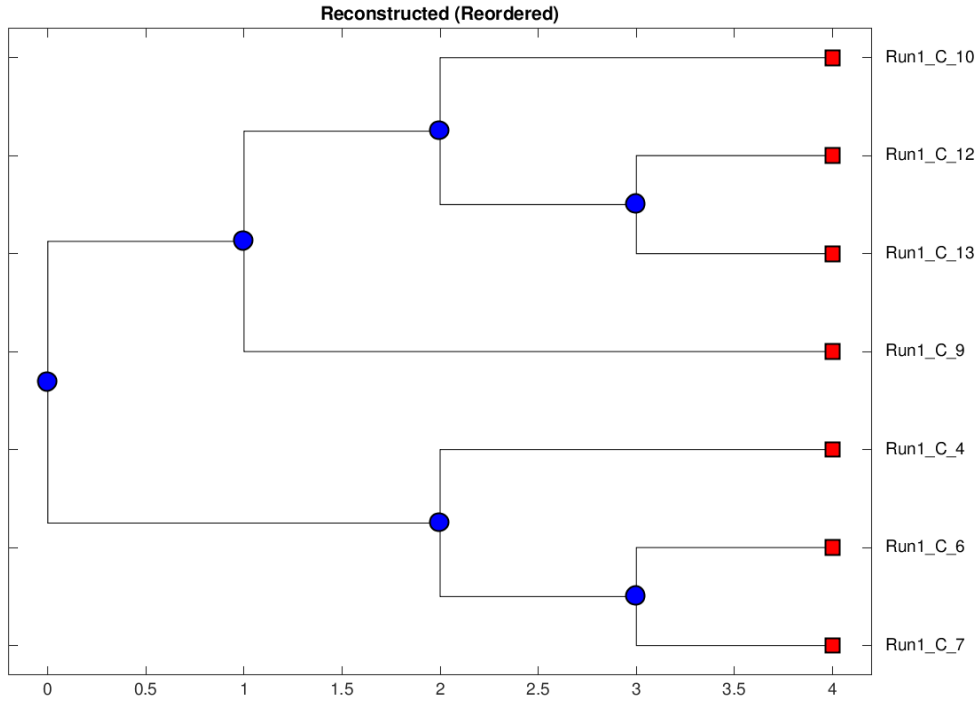
Parameters

Mutation:	True
Allelic Dropouts:	False
Noises:	False
Early Stop Population:	6

Mutation Table

names	C_4	C_6	C_7	C_9	C_10	C_12	C_13	root
LOC_1	19	21	21	20	19	19	19	19
LOC_2	20	21	21	21	21	21	21	20
LOC_3	7	7	7	8	8	8	8	7
LOC_4	7	7	7	7	7	7	7	7
LOC_5	7	7	7	7	7	7	7	7
LOC_6	16	16	17	18	20	20	21	16
LOC_7	13	15	14	13	14	13	13	13
LOC_8	22	23	24	20	19	19	19	22
LOC_9	14	15	15	15	15	15	15	15
LOC_10	15	15	15	17	17	18	18	17





'

RefTree_taxa	7.0	Triples	1.0
Tree_taxa	7.0	Triples_toYuleAvg	0.0426
Common_taxa	7.0	Triples_toUnifAvg	0.0433
MatchingCluster	2.0	MatchingPair	1.0
MatchingCluster_toYuleAvg	0.1585	MatchingPair_toYuleAvg	0.0881
MatchingCluster_toUnifAvg	0.1579	MatchingPair_toUnifAvg	0.0894
R-F_Cluster	0.5	MAST	1.0
R-F_Cluster_toYuleAvg	0.1064	MAST_toYuleAvg	0.3142
R-F_Cluster_toUnifAvg	0.1068	MAST_toUnifAvg	0.3108
NodalSplitted	3.1623	CopheneticL2Metric	1.7321
NodalSplitted_toYuleAvg	0.2883	CopheneticL2Metric_toYuleAvg	0.1895
NodalSplitted_toUnifAvg	0.2871	CopheneticL2Metric_toUnifAvg	0.1857

100.0%

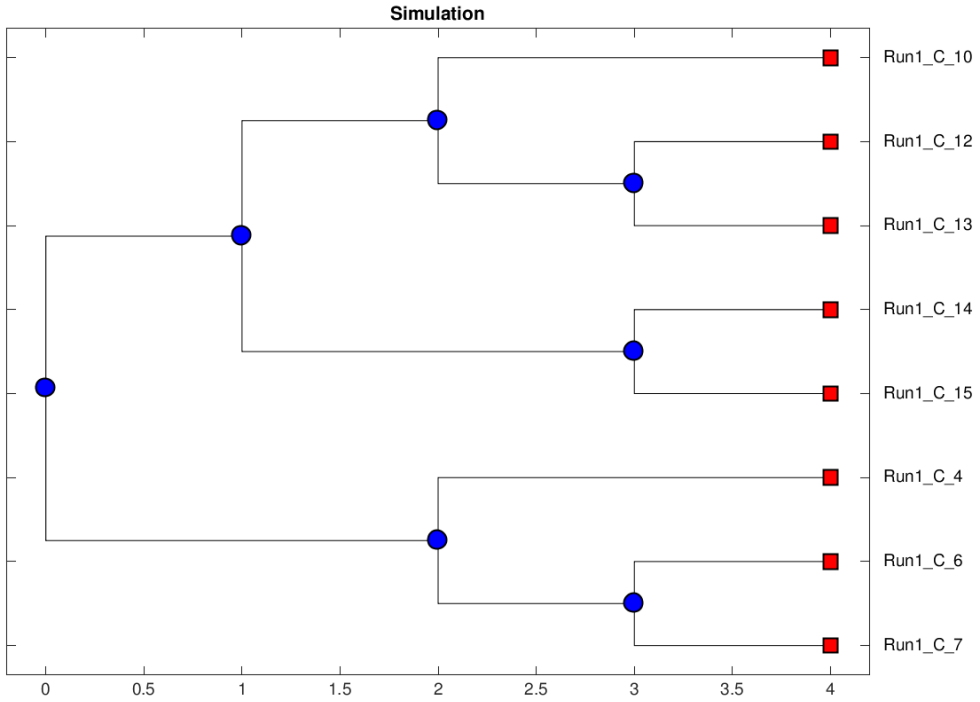
8 leaves (config-05.json)

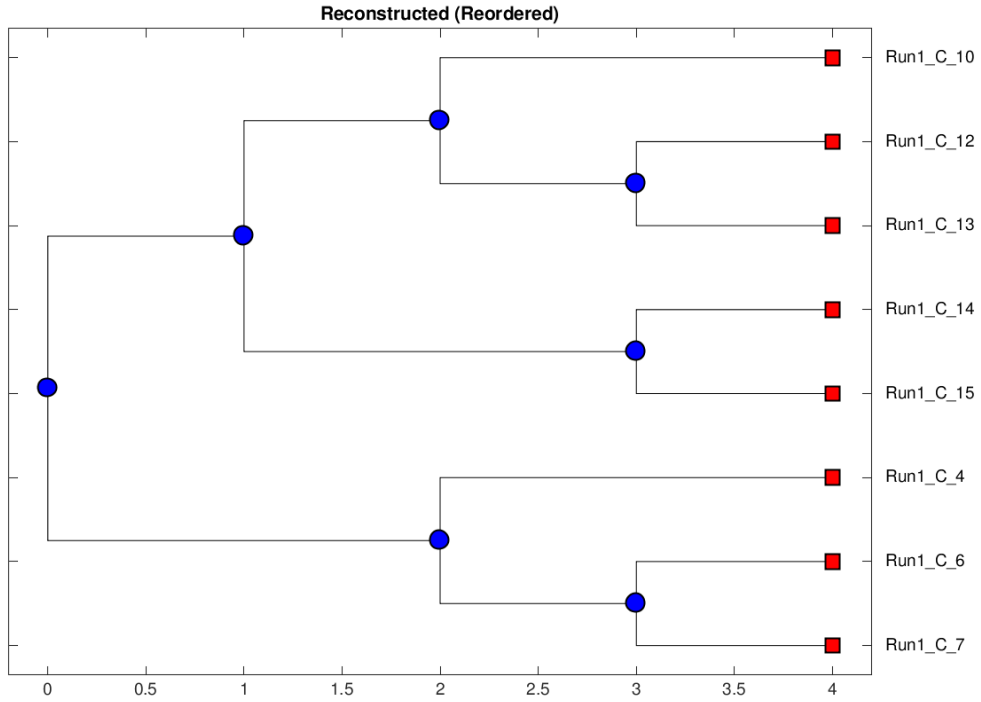
Parameters

Mutation:	True
Allelic Dropouts:	False
Noises:	False
Early Stop Population:	7

Mutation Table

names	C_4	C_6	C_7	C_10	C_12	C_13	C_14	C_15	root
LOC_1	19	21	21	19	19	19	20	20	19
LOC_2	20	21	21	21	21	21	21	21	20
LOC_3	7	7	7	8	8	8	8	8	7
LOC_4	7	7	7	7	7	7	7	7	7
LOC_5	7	7	7	7	7	7	7	7	7
LOC_6	16	16	17	20	20	21	18	18	16
LOC_7	13	15	14	14	13	13	13	13	13
LOC_8	22	23	24	19	19	19	20	20	22
LOC_9	14	15	15	15	15	15	14	15	15
LOC_10	15	15	15	17	18	18	17	17	17





'

RefTree_taxa	8.0	Triples	1.0
Tree_taxa	8.0	Triples_toYuleAvg	0.027
Common_taxa	8.0	Triples_toUnifAvg	0.0265
MatchingCluster	2.0	MatchingPair	1.0
MatchingCluster_toYuleAvg	0.1221	MatchingPair_toYuleAvg	0.063
MatchingCluster_toUnifAvg	0.1175	MatchingPair_toUnifAvg	0.0628
R-F_Cluster	0.5	MAST	1.0
R-F_Cluster_toYuleAvg	0.0875	MAST_toYuleAvg	0.2567
R-F_Cluster_toUnifAvg	0.0868	MAST_toUnifAvg	0.2549
NodalSplitted	3.4641	CopheneticL2Metric	1.7321
NodalSplitted_toYuleAvg	0.2524	CopheneticL2Metric_toYuleAvg	0.152
NodalSplitted_toUnifAvg	0.2396	CopheneticL2Metric_toUnifAvg	0.1467

100.0%

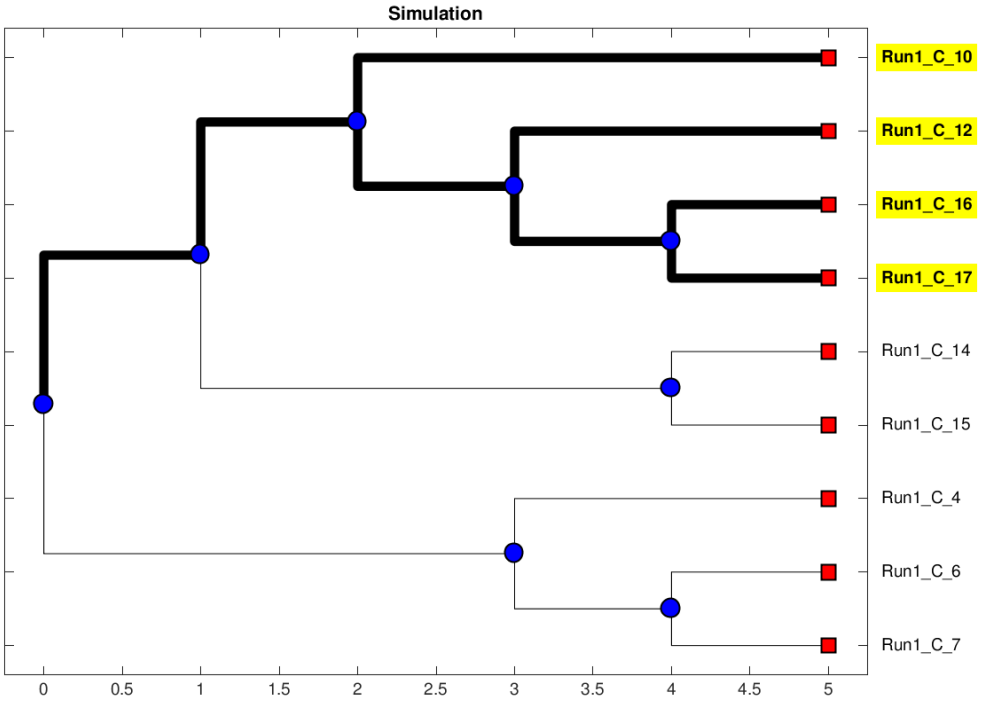
9 leaves (config-06.json)

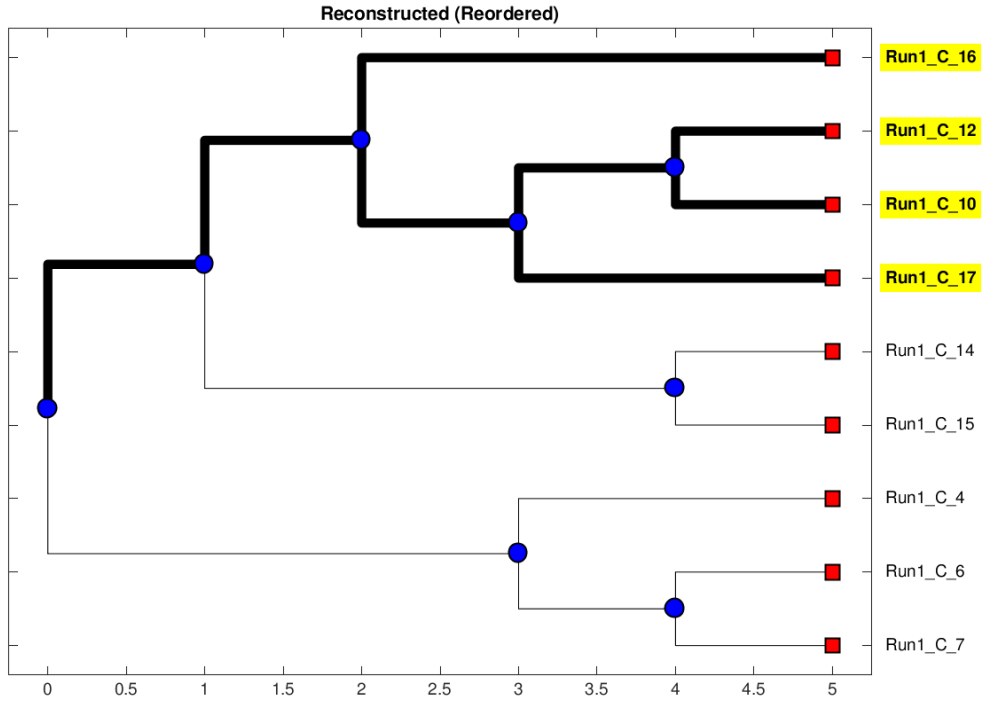
Parameters

Mutation:	True
Allelic Dropouts:	False
Noises:	False
Early Stop Population:	8

Mutation Table

names	C_4	C_6	C_7	C_10	C_12	C_14	C_15	C_16	C_17	root
LOC_1	19	21	21	19	19	20	20	19	19	19
LOC_2	20	21	21	21	21	21	21	25	21	20
LOC_3	7	7	7	8	8	8	8	8	8	7
LOC_4	7	7	7	7	7	7	7	7	7	7
LOC_5	7	7	7	7	7	7	7	7	9	7
LOC_6	16	16	17	20	20	18	18	21	21	16
LOC_7	13	15	14	14	13	13	13	13	13	13
LOC_8	22	23	24	19	19	20	20	19	19	22
LOC_9	14	15	15	15	15	14	15	15	15	15
LOC_10	15	15	15	17	18	17	17	17	18	17





'

RefTree_taxa	9.0
Tree_taxa	9.0
Common_taxa	9.0
MatchingCluster	6.0
MatchingCluster_toYuleAvg	0.292
MatchingCluster_toUnifAvg	0.2812
R-F_Cluster	2.0
R-F_Cluster_toYuleAvg	0.3001
R-F_Cluster_toUnifAvg	0.2965
NodalSplitted	8.4853
NodalSplitted_toYuleAvg	0.5015
NodalSplitted_toUnifAvg	0.4761

Triples	4.0
Triples_toYuleAvg	0.0715
Triples_toUnifAvg	0.0719
MatchingPair	3.0
MatchingPair_toYuleAvg	0.1415
MatchingPair_toUnifAvg	0.1434
MAST	2.0
MAST_toYuleAvg	0.4361
MAST_toUnifAvg	0.4292
CopheneticL2Metric	4.4721
CopheneticL2Metric_toYuleAvg	0.3202
CopheneticL2Metric_toUnifAvg	0.3088

55.6%

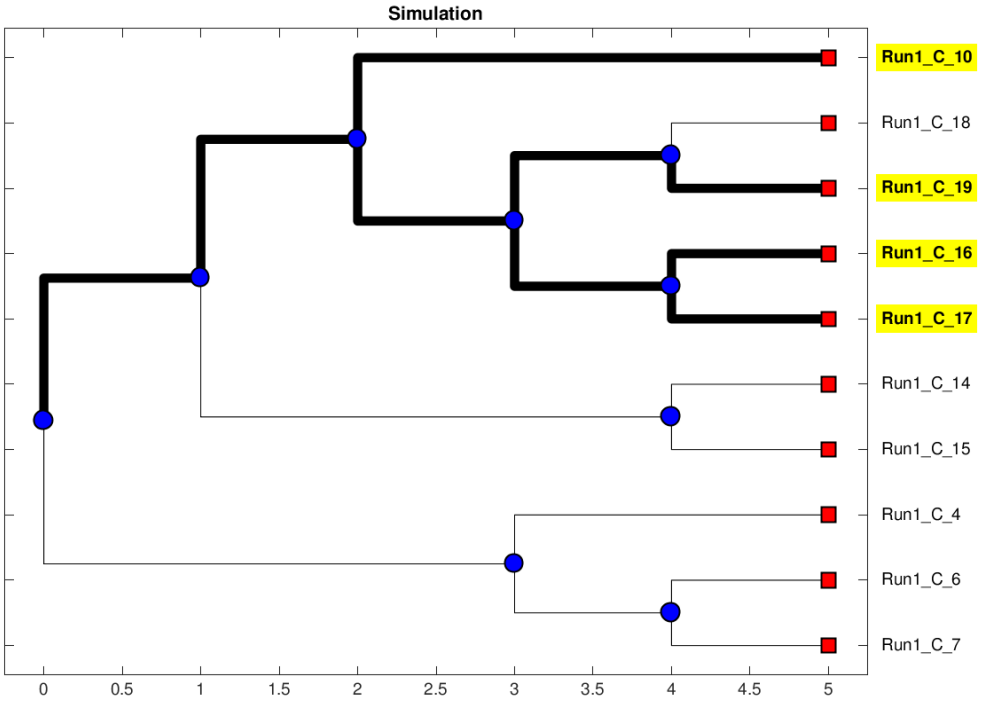
10 leaves (config-07.json)

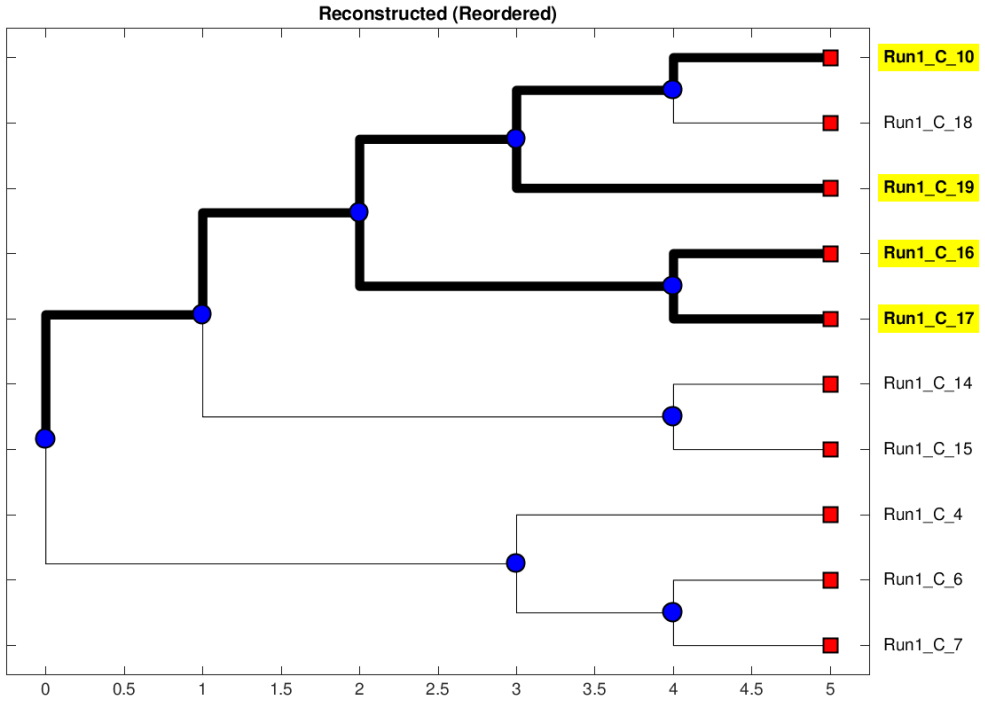
Parameters

Mutation:	True
Allelic Dropouts:	False
Noises:	False
Early Stop Population:	9

Mutation Table

names	C_4	C_6	C_7	C_10	C_14	C_15	C_16	C_17	C_18	C_19	root
LOC_1	19	21	21	19	20	20	19	19	19	19	19
LOC_2	20	21	21	21	21	21	25	21	23	22	20
LOC_3	7	7	7	8	8	8	8	8	8	8	7
LOC_4	7	7	7	7	7	7	7	7	7	7	7
LOC_5	7	7	7	7	7	7	7	9	7	7	7
LOC_6	16	16	17	20	18	18	21	21	19	20	16
LOC_7	13	15	14	14	13	13	13	13	13	13	13
LOC_8	22	23	24	19	20	20	19	19	19	19	22
LOC_9	14	15	15	15	14	15	15	15	15	15	15
LOC_10	15	15	15	17	17	17	17	18	18	18	17





'

RefTree_taxa	10.0	Triples	5.0
Tree_taxa	10.0	Triples_toYuleAvg	0.0624
Common_taxa	10.0	Triples_toUnifAvg	0.0629
MatchingCluster	5.0	MatchingPair	3.0
MatchingCluster_toYuleAvg	0.1967	MatchingPair_toYuleAvg	0.1085
MatchingCluster_toUnifAvg	0.1891	MatchingPair_toUnifAvg	0.1109
R-F_Cluster	1.5	MAST	1.0
R-F_Cluster_toYuleAvg	0.1938	MAST_toYuleAvg	0.1858
R-F_Cluster_toUnifAvg	0.1929	MAST_toUnifAvg	0.1869
NodalSplitted	6.0828	CopheneticL2Metric	3.6056
NodalSplitted_toYuleAvg	0.3004	CopheneticL2Metric_toYuleAvg	0.2202
NodalSplitted_toUnifAvg	0.2826	CopheneticL2Metric_toUnifAvg	0.21

60.0%

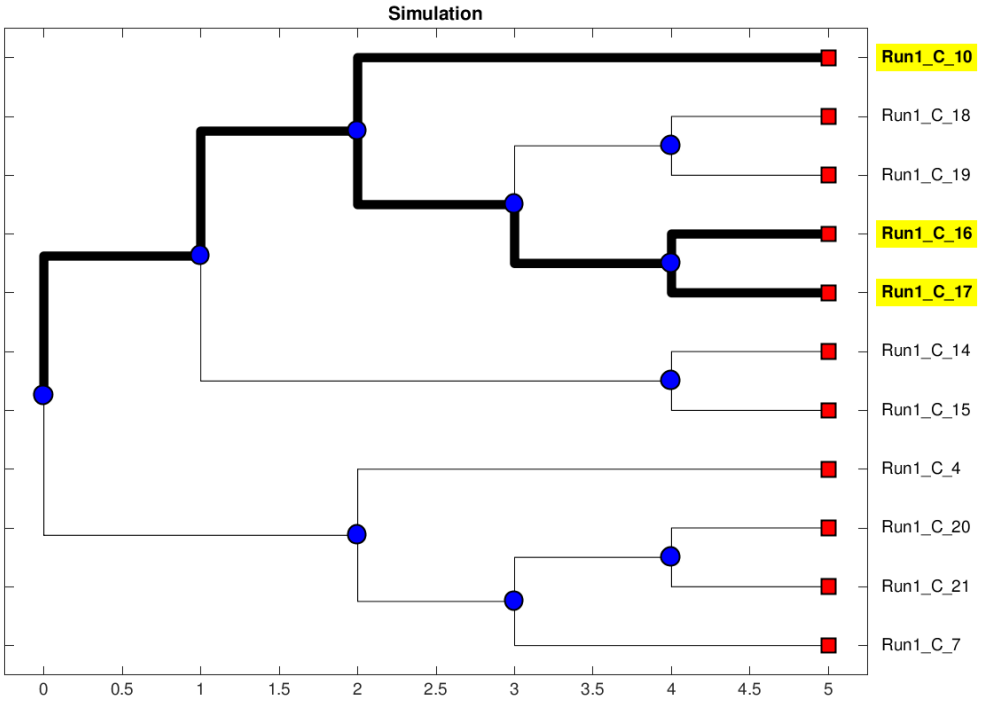
11 leaves (config-08.json)

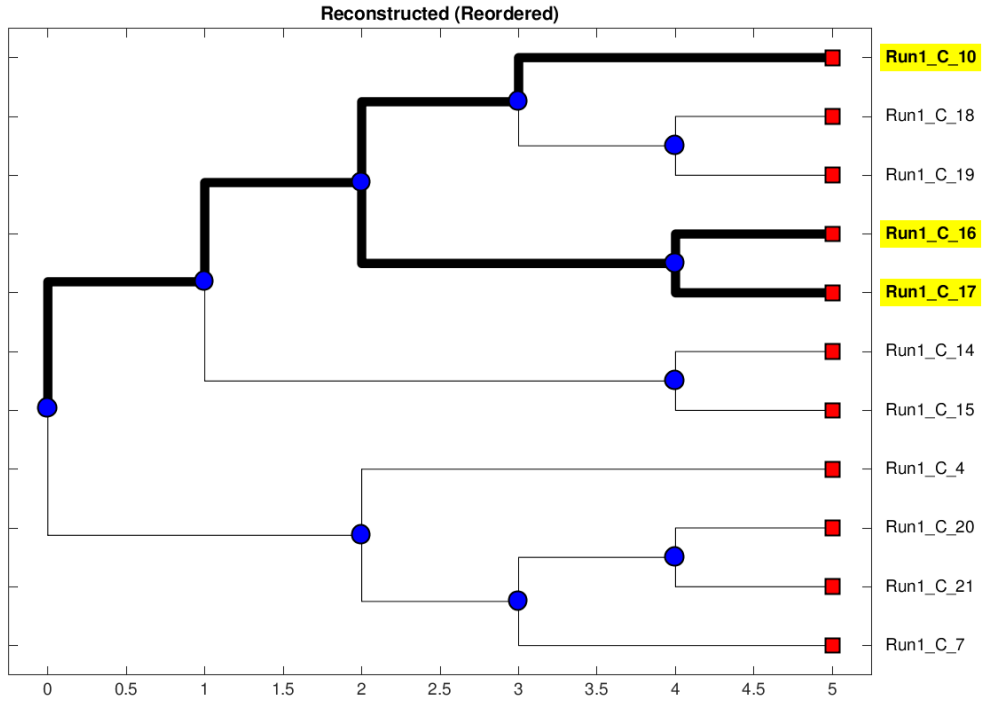
Parameters

Mutation:	True
Allelic Dropouts:	False
Noises:	False
Early Stop Population:	10

Mutation Table

names	C_4	C_7	C_10	C_14	C_15	C_16	C_17	C_18	C_19	C_20	C_21	root
LOC_1	19	21	19	20	20	19	19	19	19	21	22	19
LOC_2	20	21	21	21	21	25	21	23	22	22	21	20
LOC_3	7	7	8	8	8	8	8	8	8	7	7	7
LOC_4	7	7	7	7	7	7	7	7	7	7	7	7
LOC_5	7	7	7	7	7	7	9	7	7	7	7	7
LOC_6	16	17	20	18	18	21	21	19	20	16	15	16
LOC_7	13	14	14	13	13	13	13	13	13	15	15	13
LOC_8	22	24	19	20	20	19	19	19	19	22	21	22
LOC_9	14	15	15	14	15	15	15	15	15	15	15	15
LOC_10	15	15	17	17	17	17	18	18	18	15	15	17





'

RefTree_taxa	11.0	Triples	6.0
Tree_taxa	11.0	Triples_toYuleAvg	0.0546
Common_taxa	11.0	Triples_toUnifAvg	0.0544
MatchingCluster	7.0	MatchingPair	4.0
MatchingCluster_toYuleAvg	0.2306	MatchingPair_toYuleAvg	0.1165
MatchingCluster_toUnifAvg	0.2191	MatchingPair_toUnifAvg	0.1174
R-F_Cluster	2.0	MAST	2.0
R-F_Cluster_toYuleAvg	0.229	MAST_toYuleAvg	0.3237
R-F_Cluster_toUnifAvg	0.2272	MAST_toUnifAvg	0.3232
NodalSplitted	7.746	CopheneticL2Metric	4.0
NodalSplitted_toYuleAvg	0.3264	CopheneticL2Metric_toYuleAvg	0.2098
NodalSplitted_toUnifAvg	0.3021	CopheneticL2Metric_toUnifAvg	0.1945

72.7%

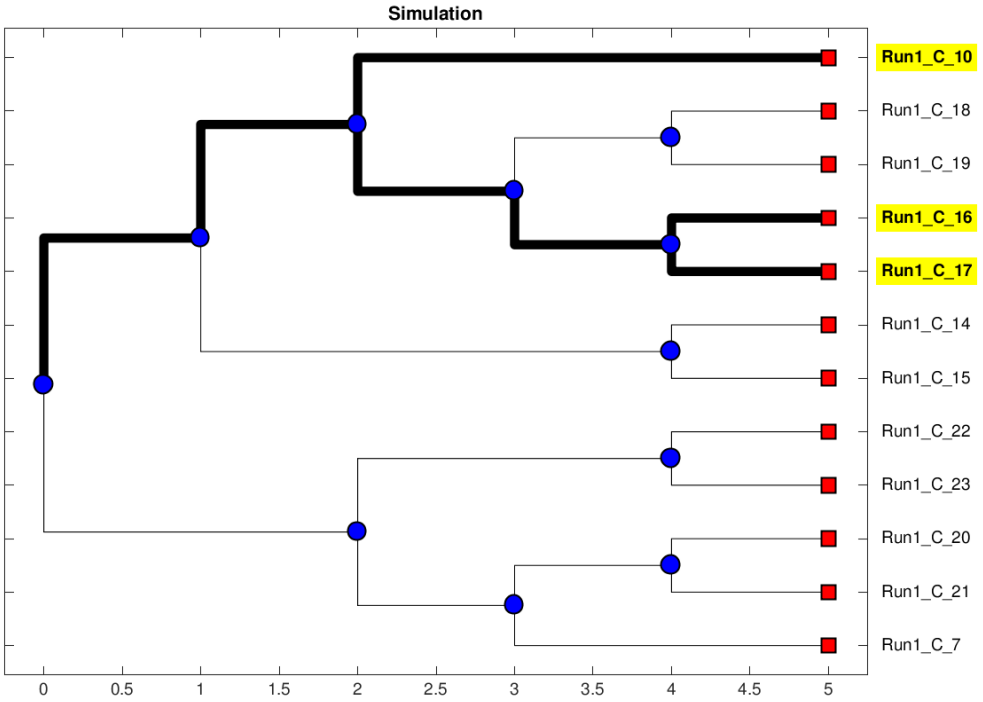
12 leaves (config-09.json)

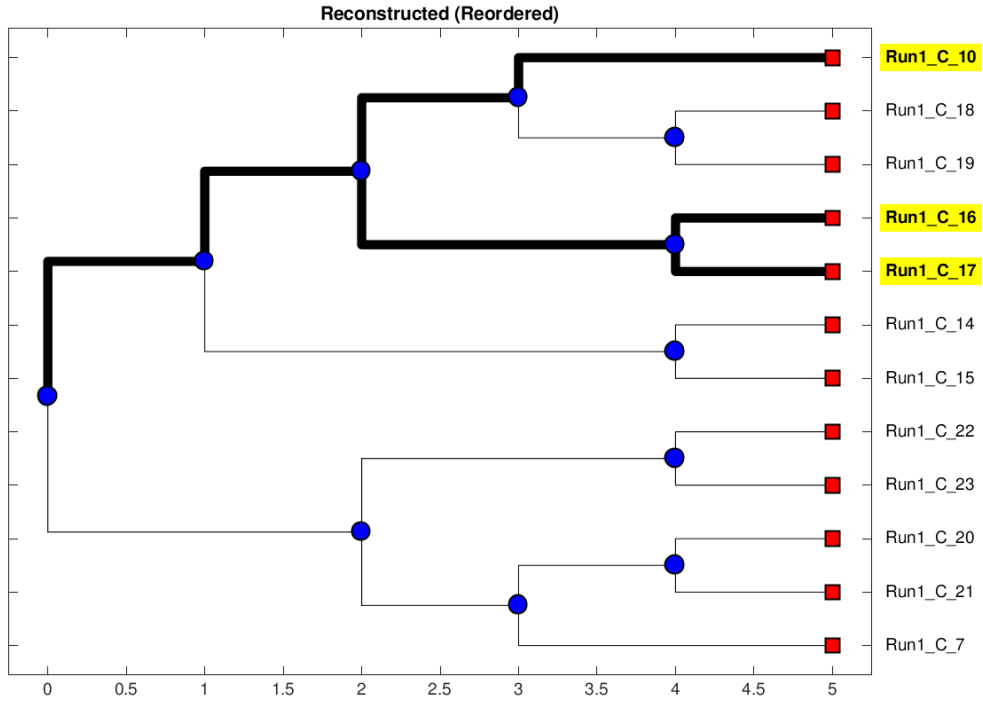
Parameters

Mutation:	True
Allelic Dropouts:	False
Noises:	False
Early Stop Population:	11

Mutation Table

names	C_7	C_10	C_14	C_15	C_16	C_17	C_18	C_19	C_20	C_21	C_22	C_23	root
LOC_1	21	19	20	20	19	19	19	19	21	22	19	19	19
LOC_2	21	21	21	21	25	21	23	22	22	21	20	20	20
LOC_3	7	8	8	8	8	8	8	8	7	7	7	7	7
LOC_4	7	7	7	7	7	7	7	7	7	7	7	7	7
LOC_5	7	7	7	7	7	9	7	7	7	7	7	7	7
LOC_6	17	20	18	18	21	21	19	20	16	15	16	16	16
LOC_7	14	14	13	13	13	13	13	13	15	15	13	13	13
LOC_8	24	19	20	20	19	19	19	19	22	21	22	22	22
LOC_9	15	15	14	15	15	15	15	15	15	15	14	14	15
LOC_10	15	17	17	17	17	18	18	18	15	15	15	15	17





'

RefTree_taxa	12.0
Tree_taxa	12.0
Common_taxa	12.0
MatchingCluster	7.0
MatchingCluster_toYuleAvg	0.1972
MatchingCluster_toUnifAvg	0.1851
R-F_Cluster	2.0
R-F_Cluster_toYuleAvg	0.2051
R-F_Cluster_toUnifAvg	0.2043
NodalSplitted	8.1854
NodalSplitted_toYuleAvg	0.3005
NodalSplitted_toUnifAvg	0.2736

Triples	6.0
Triples_toYuleAvg	0.0408
Triples_toUnifAvg	0.0409
MatchingPair	4.0
MatchingPair_toYuleAvg	0.0946
MatchingPair_toUnifAvg	0.0958
MAST	2.0
MAST_toYuleAvg	0.2902
MAST_toUnifAvg	0.2874
CopheneticL2Metric	4.0
CopheneticL2Metric_toYuleAvg	0.1845
CopheneticL2Metric_toUnifAvg	0.1698

75.0%

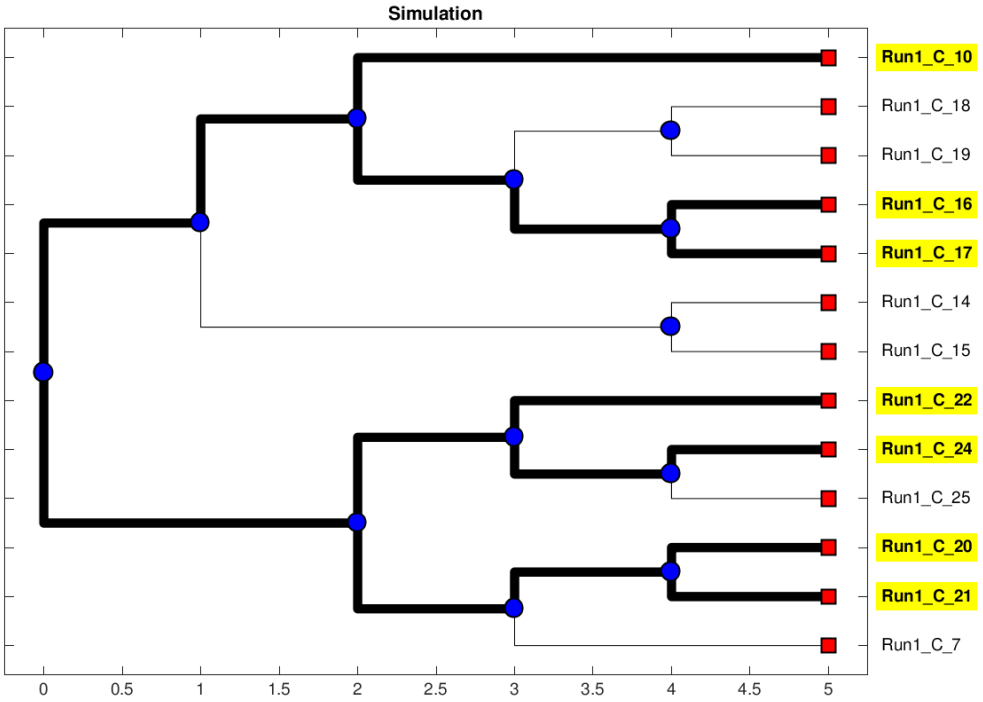
13 leaves (config-10.json)

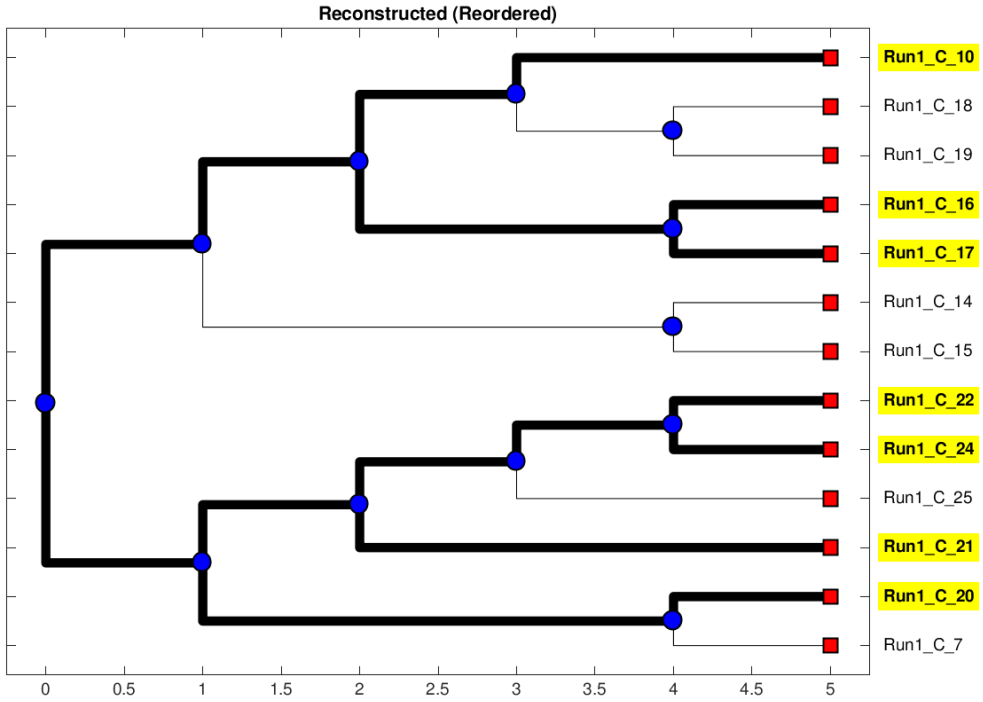
Parameters

Mutation:	True
Allelic Dropouts:	False
Noises:	False
Early Stop Population:	12

Mutation Table

names	C_7	C_10	C_14	C_15	C_16	C_17	C_18	C_19	C_20	C_21	C_22	C_24	C_25	root
LOC_1	21	19	20	20	19	19	19	19	21	22	19	19	19	19
LOC_2	21	21	21	21	25	21	23	22	22	21	20	20	21	20
LOC_3	7	8	8	8	8	8	8	8	7	7	7	7	7	7
LOC_4	7	7	7	7	7	7	7	7	7	7	7	7	7	7
LOC_5	7	7	7	7	7	9	7	7	7	7	7	7	7	7
LOC_6	17	20	18	18	21	21	19	20	16	15	16	16	15	16
LOC_7	14	14	13	13	13	13	13	13	15	15	13	13	13	13
LOC_8	24	19	20	20	19	19	19	19	22	21	22	22	22	22
LOC_9	15	15	14	15	15	15	15	15	15	15	14	14	14	15
LOC_10	15	17	17	17	17	18	18	18	15	15	15	15	15	17





'

RefTree_taxa	13.0	Triples	13.0
Tree_taxa	13.0	Triples_toYuleAvg	0.068
Common_taxa	13.0	Triples_toUnifAvg	0.0681
MatchingCluster	12.0	MatchingPair	9.0
MatchingCluster_toYuleAvg	0.2939	MatchingPair_toYuleAvg	0.1767
MatchingCluster_toUnifAvg	0.2721	MatchingPair_toUnifAvg	0.1797
R-F_Cluster	4.5	MAST	3.0
R-F_Cluster_toYuleAvg	0.4174	MAST_toYuleAvg	0.3898
R-F_Cluster_toUnifAvg	0.4158	MAST_toUnifAvg	0.3863
NodalSplitted	11.6619	CopheneticL2Metric	5.7446
NodalSplitted_toYuleAvg	0.3808	CopheneticL2Metric_toYuleAvg	0.2368
NodalSplitted_toUnifAvg	0.3364	CopheneticL2Metric_toUnifAvg	0.2151

46.2%

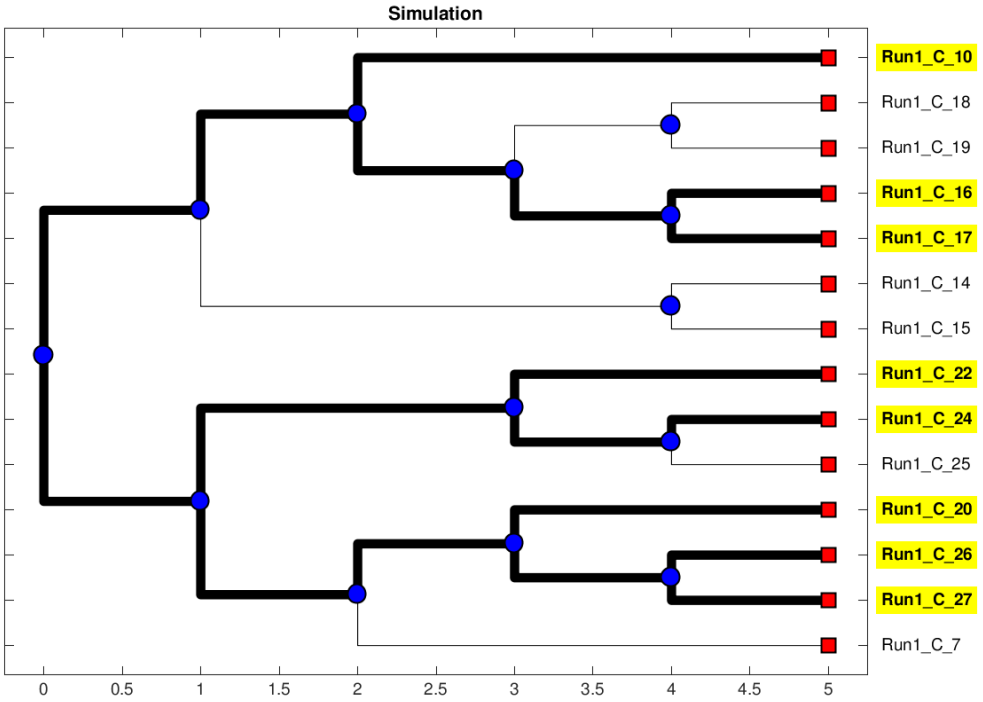
14 leaves (config-11.json)

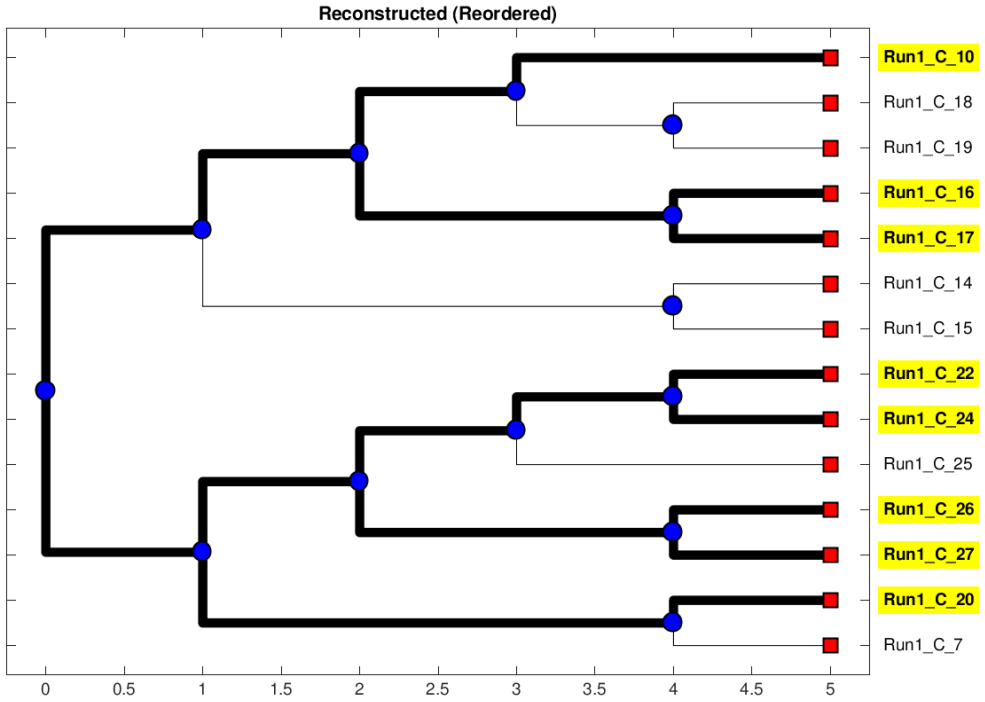
Parameters

Mutation:	True
Allelic Dropouts:	False
Noises:	False
Early Stop Population:	13

Mutation Table

names	C_7	C_10	C_14	C_15	C_16	C_17	C_18	C_19	C_20	C_22	C_24	C_25	C_26	C_27	root
LOC_1	21	19	20	20	19	19	19	19	21	19	19	19	22	22	19
LOC_2	21	21	21	21	25	21	23	22	22	20	20	21	21	21	20
LOC_3	7	8	8	8	8	8	8	8	7	7	7	7	7	7	7
LOC_4	7	7	7	7	7	7	7	7	7	7	7	7	6	7	7
LOC_5	7	7	7	7	7	9	7	7	7	7	7	7	7	7	7
LOC_6	17	20	18	18	21	21	19	20	16	16	16	15	15	15	16
LOC_7	14	14	13	13	13	13	13	13	15	13	13	13	13	15	13
LOC_8	24	19	20	20	19	19	19	19	22	22	22	22	22	21	22
LOC_9	15	15	14	15	15	15	15	15	15	14	14	14	15	16	15
LOC_10	15	17	17	17	17	18	18	18	15	15	15	15	15	13	17





'

RefTree_taxa	14.0	Triples	20.0
Tree_taxa	14.0	Triples_toYuleAvg	0.0823
Common_taxa	14.0	Triples_toUnifAvg	0.0825
MatchingCluster	13.0	MatchingPair	12.0
MatchingCluster_toYuleAvg	0.2783	MatchingPair_toYuleAvg	0.1996
MatchingCluster_toUnifAvg	0.2577	MatchingPair_toUnifAvg	0.2032
R-F_Cluster	4.5	MAST	4.0
R-F_Cluster_toYuleAvg	0.3821	MAST_toYuleAvg	0.4715
R-F_Cluster_toUnifAvg	0.3809	MAST_toUnifAvg	0.4669
NodalSplitted	12.8452	CopheneticL2Metric	6.5574
NodalSplitted_toYuleAvg	0.3697	CopheneticL2Metric_toYuleAvg	0.2396
NodalSplitted_toUnifAvg	0.329	CopheneticL2Metric_toUnifAvg	0.2149

42.9%

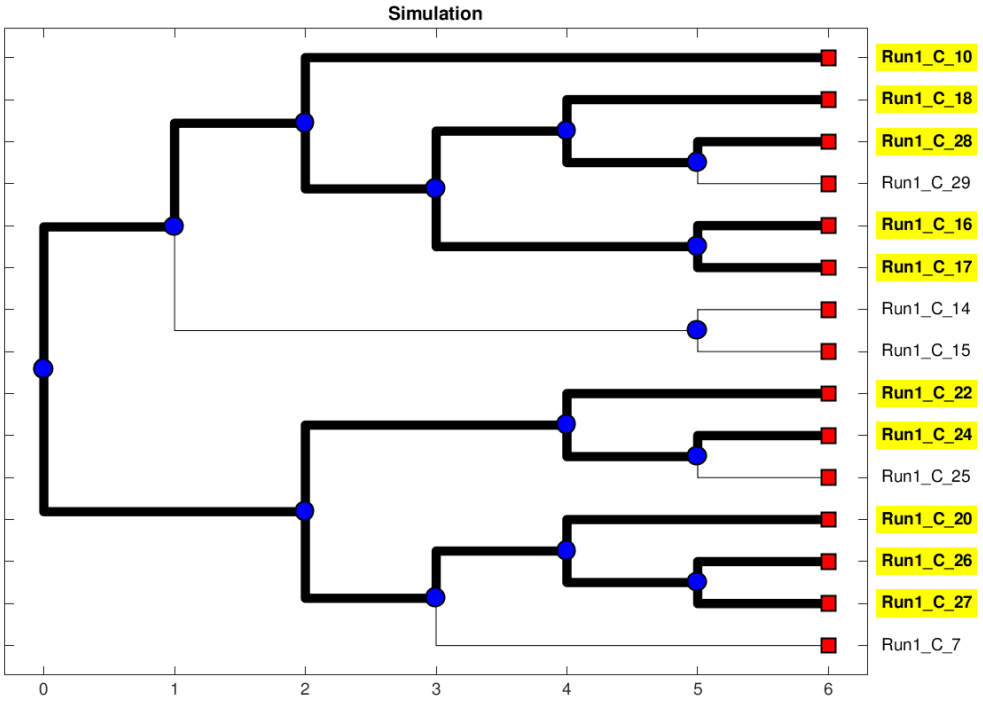
15 leaves (config-12.json)

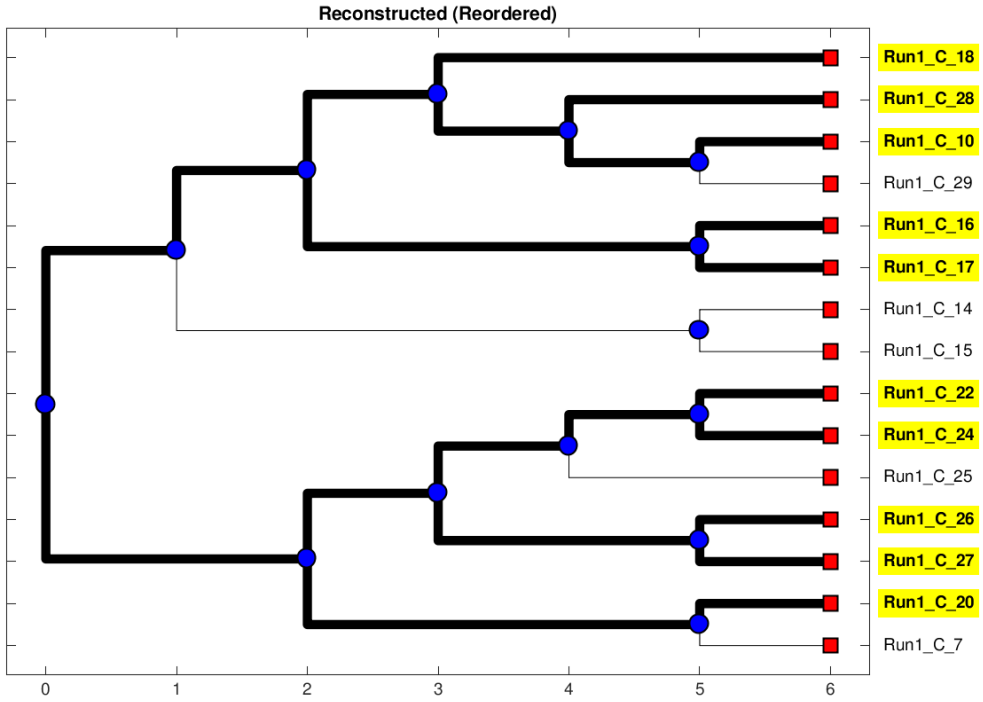
Parameters

Mutation:	True
Allelic Dropouts:	False
Noises:	False
Early Stop Population:	14

Mutation Table

names	C_7	C_10	C_14	C_15	C_16	C_17	C_18	C_20	C_22	C_24	C_25	C_26	C_27	C_28	C_29	root
LOC_1	21	19	20	20	19	19	19	21	19	19	19	22	22	19	19	19
LOC_2	21	21	21	21	25	21	23	22	20	20	21	21	21	22	21	20
LOC_3	7	8	8	8	8	8	8	7	7	7	7	7	7	8	8	7
LOC_4	7	7	7	7	7	7	7	7	7	7	7	6	7	7	7	7
LOC_5	7	7	7	7	7	9	7	7	7	7	7	7	7	7	7	7
LOC_6	17	20	18	18	21	21	19	16	16	16	15	15	15	20	20	16
LOC_7	14	14	13	13	13	13	13	15	13	13	13	13	15	13	13	13
LOC_8	24	19	20	20	19	19	19	22	22	22	22	22	21	19	19	22
LOC_9	15	15	14	15	15	15	15	15	14	14	14	15	16	15	14	15
LOC_10	15	17	17	17	17	18	18	15	15	15	15	15	13	18	18	17





'

RefTree_taxa	15.0
Tree_taxa	15.0
Common_taxa	15.0
MatchingCluster	15.0
MatchingCluster_toYuleAvg	0.2898
MatchingCluster_toUnifAvg	0.2611
R-F_Cluster	5.5
R-F_Cluster_toYuleAvg	0.4315
R-F_Cluster_toUnifAvg	0.4291
NodalSplitted	15.1658
NodalSplitted_toYuleAvg	0.4006
NodalSplitted_toUnifAvg	0.3449

Triples	24.0
Triples_toYuleAvg	0.0795
Triples_toUnifAvg	0.0793
MatchingPair	13.0
MatchingPair_toYuleAvg	0.1848
MatchingPair_toUnifAvg	0.1874
MAST	4.0
MAST_toYuleAvg	0.4333
MAST_toUnifAvg	0.4267
CopheneticL2Metric	7.6158
CopheneticL2Metric_toYuleAvg	0.2541
CopheneticL2Metric_toUnifAvg	0.2249

33.3%

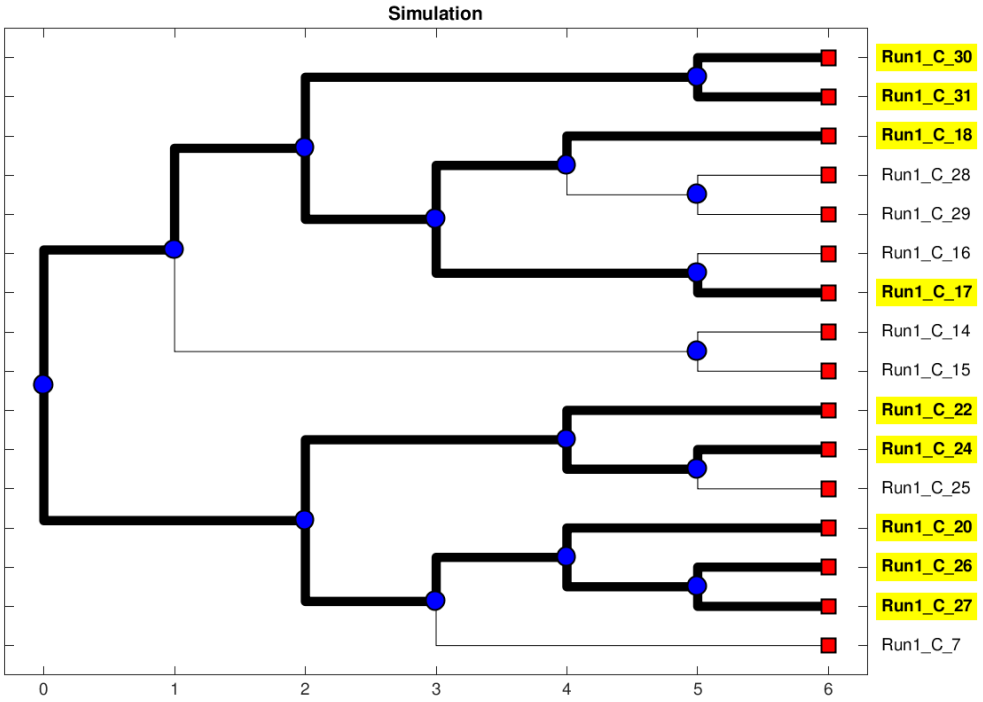
16 leaves (config-13.json)

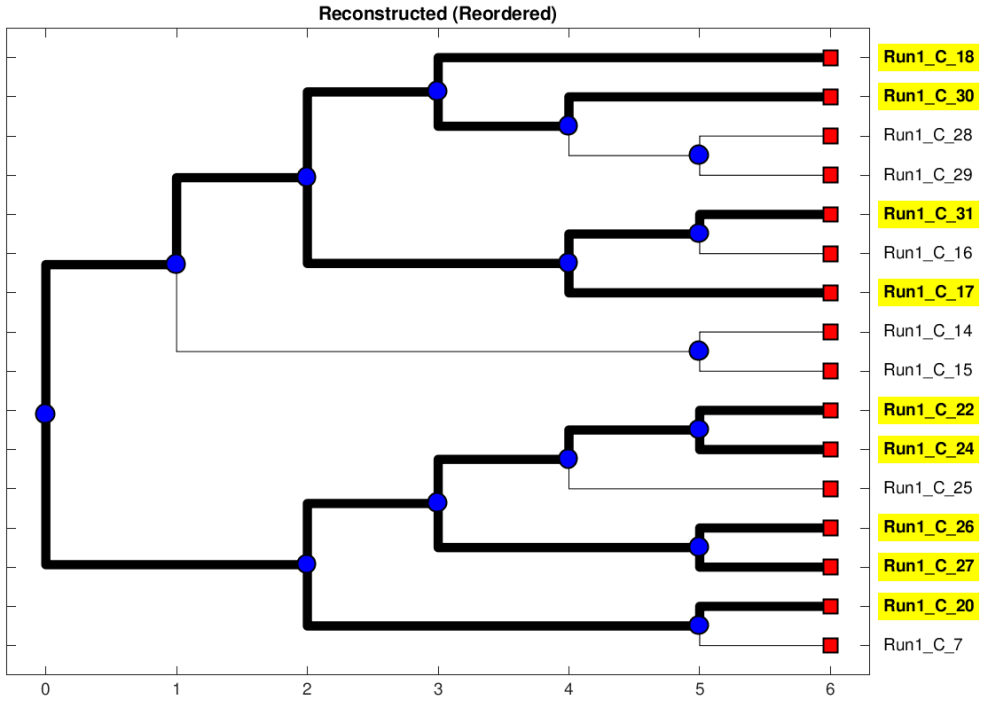
Parameters

Mutation:	True
Allelic Dropouts:	False
Noises:	False
Early Stop Population:	15

Mutation Table

names	C_7	C_14	C_15	C_16	C_17	C_18	C_20	C_22	C_24	C_25	C_26	C_27	C_28	C_29	C_30	C_31	root
LOC_1	21	20	20	19	19	19	21	19	19	19	22	22	19	19	19	19	19
LOC_2	21	21	21	25	21	23	22	20	20	21	21	21	22	21	21	20	20
LOC_3	7	8	8	8	8	8	7	7	7	7	7	7	8	8	8	8	7
LOC_4	7	7	7	7	7	7	7	7	7	7	6	7	7	7	7	7	7
LOC_5	7	7	7	7	9	7	7	7	7	7	7	7	7	7	7	7	7
LOC_6	17	18	18	21	21	19	16	16	16	15	15	15	20	20	20	21	16
LOC_7	14	13	13	13	13	13	15	13	13	13	13	15	13	13	14	14	13
LOC_8	24	20	20	19	19	19	22	22	22	22	22	21	19	19	19	19	22
LOC_9	15	14	15	15	15	15	15	14	14	14	15	16	15	14	15	15	15
LOC_10	15	17	17	17	18	18	15	15	15	15	15	13	18	18	15	17	17





'

RefTree_taxa	16.0
Tree_taxa	16.0
Common_taxa	16.0
MatchingCluster	16.0
MatchingCluster_toYuleAvg	0.2738
MatchingCluster_toUnifAvg	0.2478
R-F_Cluster	7.0
R-F_Cluster_toYuleAvg	0.5083
R-F_Cluster_toUnifAvg	0.5063
NodalSplitted	14.4222
NodalSplitted_toYuleAvg	0.3426
NodalSplitted_toUnifAvg	0.293

Triples	35.0
Triples_toYuleAvg	0.0938
Triples_toUnifAvg	0.094
MatchingPair	18.0
MatchingPair_toYuleAvg	0.2204
MatchingPair_toUnifAvg	0.2249
MAST	5.0
MAST_toYuleAvg	0.4968
MAST_toUnifAvg	0.4938
CopheneticL2Metric	7.6158
CopheneticL2Metric_toYuleAvg	0.2317
CopheneticL2Metric_toUnifAvg	0.2048

43.8%

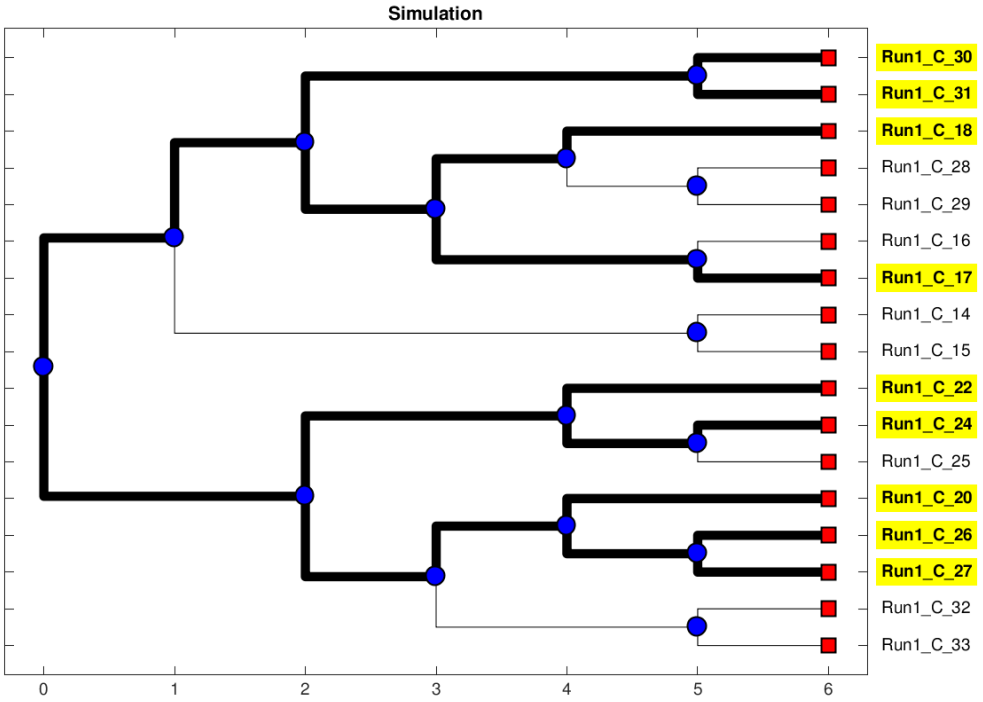
17 leaves (config-14.json)

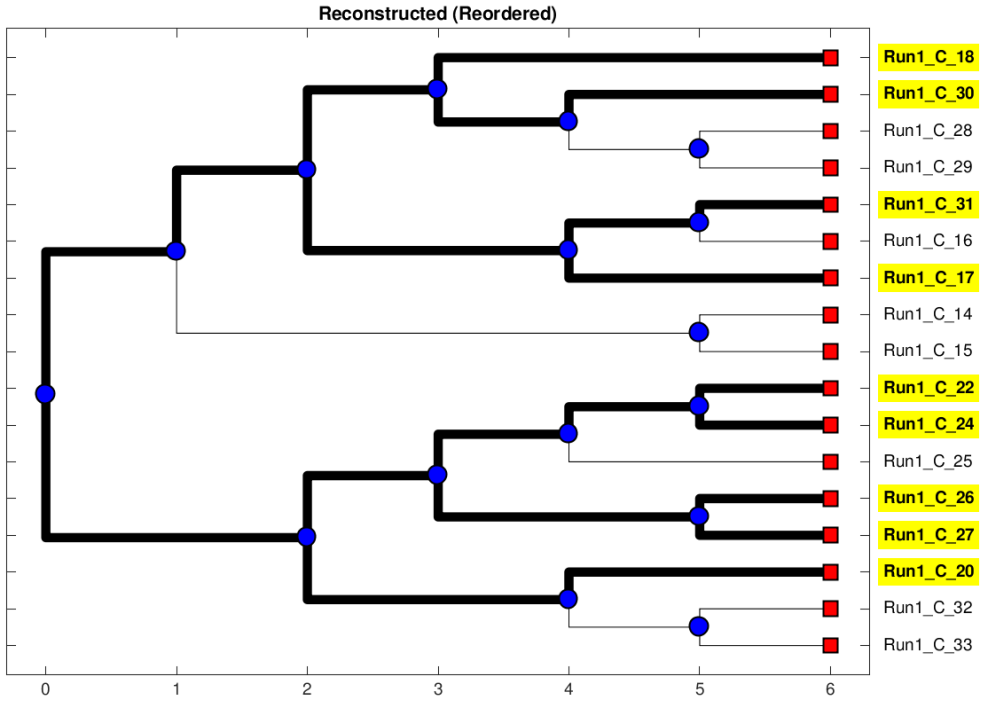
Parameters

Mutation:	True
Allelic Dropouts:	False
Noises:	False
Early Stop Population:	16

Mutation Table

names	C_14	C_15	C_16	C_17	C_18	C_20	C_22	C_24	C_25	C_26	C_27	C_28	C_29	C_30	C_31	C_32	C_33	root
LOC_1	20	20	19	19	19	21	19	19	19	22	22	19	19	19	19	24	20	19
LOC_2	21	21	25	21	23	22	20	20	21	21	21	22	21	21	20	22	21	20
LOC_3	8	8	8	8	8	7	7	7	7	7	7	8	8	8	8	7	7	7
LOC_4	7	7	7	7	7	7	7	7	7	6	7	7	7	7	7	7	7	7
LOC_5	7	7	7	9	7	7	7	7	7	7	7	7	7	7	7	7	7	7
LOC_6	18	18	21	21	19	16	16	16	15	15	15	20	20	20	21	17	17	16
LOC_7	13	13	13	13	13	15	13	13	13	13	15	13	13	14	14	14	14	13
LOC_8	20	20	19	19	19	22	22	22	22	22	21	19	19	19	19	22	23	22
LOC_9	14	15	15	15	15	15	14	14	14	15	16	15	14	15	15	15	15	15
LOC_10	17	17	17	18	18	15	15	15	15	15	13	18	18	15	17	15	15	17





'

RefTree_taxa	17.0
Tree_taxa	17.0
Common_taxa	17.0
MatchingCluster	16.0
MatchingCluster_toYuleAvg	0.2475
MatchingCluster_toUnifAvg	0.2201
R-F_Cluster	7.0
R-F_Cluster_toYuleAvg	0.4739
R-F_Cluster_toUnifAvg	0.4715
NodalSplitted	14.8324
NodalSplitted_toYuleAvg	0.3236
NodalSplitted_toUnifAvg	0.2709

Triples	43.0
Triples_toYuleAvg	0.0947
Triples_toUnifAvg	0.0946
MatchingPair	22.0
MatchingPair_toYuleAvg	0.2355
MatchingPair_toUnifAvg	0.2391
MAST	5.0
MAST_toYuleAvg	0.4598
MAST_toUnifAvg	0.4567
CopheneticL2Metric	7.746
CopheneticL2Metric_toYuleAvg	0.2157
CopheneticL2Metric_toUnifAvg	0.1874

47.1%

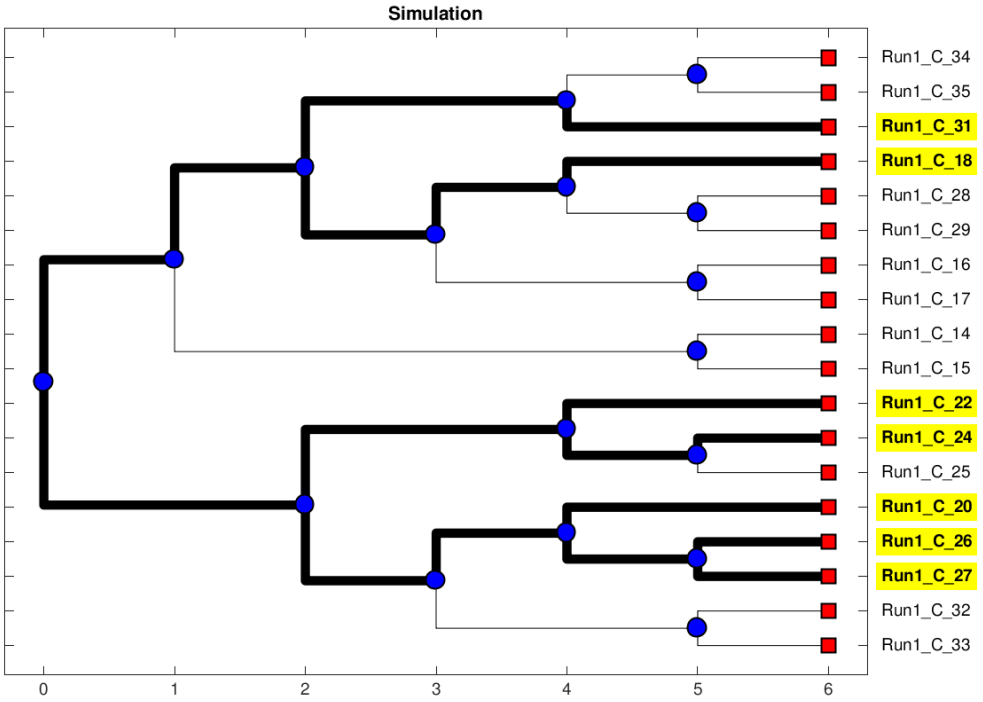
18 leaves (config-15.json)

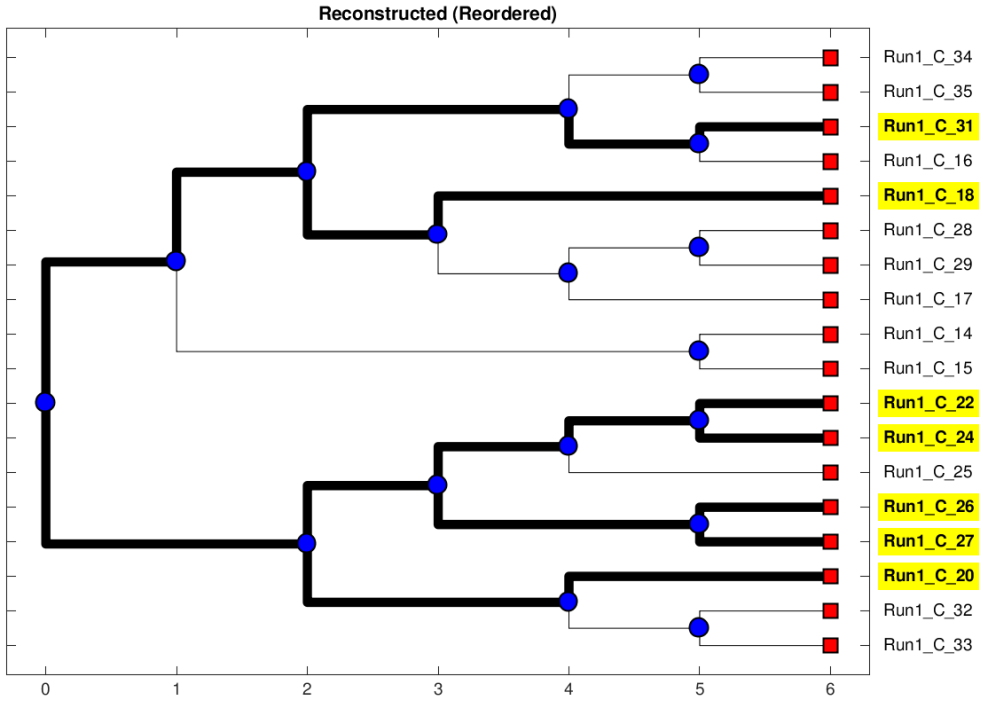
Parameters

Mutation:	True
Allelic Dropouts:	False
Noises:	False
Early Stop Population:	17

Mutation Table

names	C_14	C_15	C_16	C_17	C_18	C_20	C_22	C_24	C_25	C_26	C_27	C_28	C_29	C_31	C_32	C_33	C_34	C_35	root
LOC_1	20	20	19	19	19	21	19	19	19	22	22	19	19	19	24	20	19	19	19
LOC_2	21	21	25	21	23	22	20	20	21	21	21	22	21	20	22	21	24	24	20
LOC_3	8	8	8	8	8	7	7	7	7	7	7	8	8	8	7	7	8	8	7
LOC_4	7	7	7	7	7	7	7	7	7	6	7	7	7	7	7	7	7	7	7
LOC_5	7	7	7	9	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
LOC_6	18	18	21	21	19	16	16	16	15	15	15	20	20	21	17	17	20	20	16
LOC_7	13	13	13	13	13	15	13	13	13	13	15	13	13	14	14	14	14	14	13
LOC_8	20	20	19	19	19	22	22	22	22	22	21	19	19	19	22	23	19	19	22
LOC_9	14	15	15	15	15	15	14	14	14	15	16	15	14	15	15	15	15	15	15
LOC_10	17	17	17	18	18	15	15	15	15	15	13	18	18	17	15	15	15	15	17





'

RefTree_taxa	18.0
Tree_taxa	18.0
Common_taxa	18.0
MatchingCluster	14.0
MatchingCluster_toYuleAvg	0.1971
MatchingCluster_toUnifAvg	0.1741
R-F_Cluster	7.0
R-F_Cluster_toYuleAvg	0.4434
R-F_Cluster_toUnifAvg	0.4423
NodalSplitted	14.0712
NodalSplitted_toYuleAvg	0.283
NodalSplitted_toUnifAvg	0.2321

Triples	42.0
Triples_toYuleAvg	0.0768
Triples_toUnifAvg	0.0774
MatchingPair	21.0
MatchingPair_toYuleAvg	0.1974
MatchingPair_toUnifAvg	0.2019
MAST	5.0
MAST_toYuleAvg	0.426
MAST_toUnifAvg	0.4248
CopheneticL2Metric	7.1414
CopheneticL2Metric_toYuleAvg	0.182
CopheneticL2Metric_toUnifAvg	0.158

61.1%

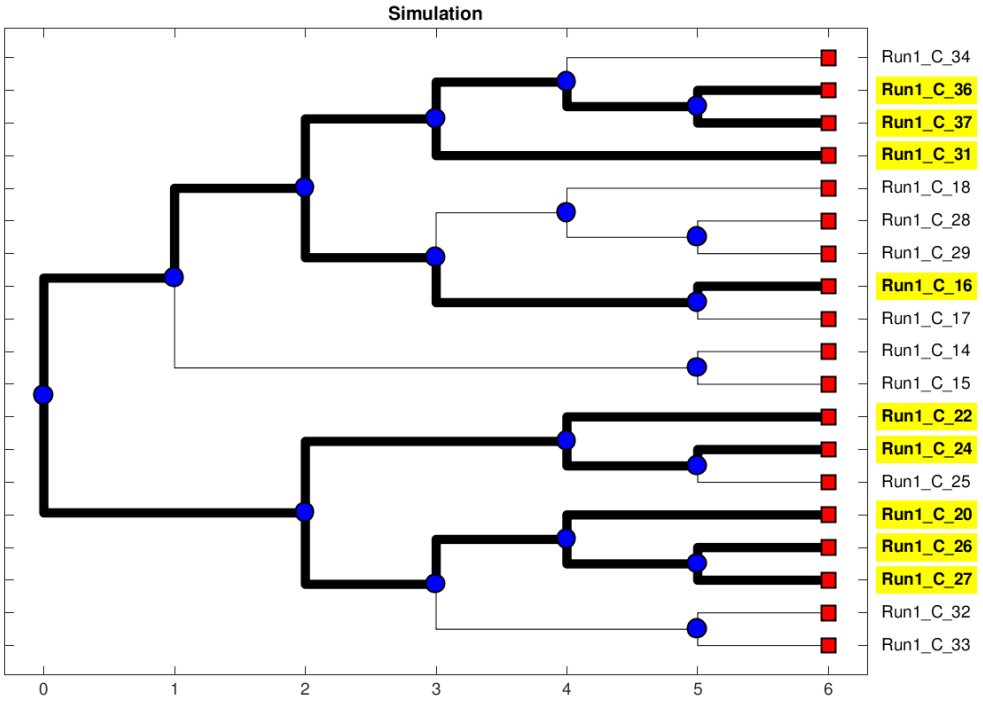
19 leaves (config-16.json)

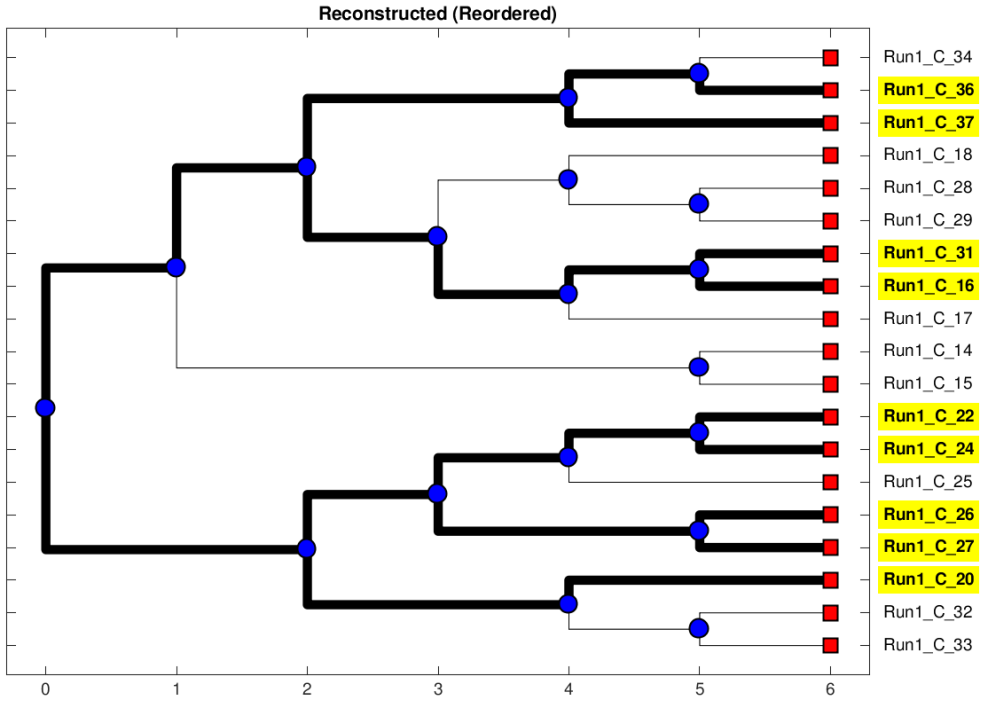
Parameters

Mutation:	True
Allelic Dropouts:	False
Noises:	False
Early Stop Population:	18

Mutation Table

names	C_14	C_15	C_16	C_17	C_18	C_20	C_22	C_24	C_25	C_26	C_27	C_28	C_29	C_31	C_32	C_33	C_34	C_36	C_37	root
LOC_1	20	20	19	19	19	21	19	19	19	22	22	19	19	19	24	20	19	19	20	19
LOC_2	21	21	25	21	23	22	20	20	21	21	21	22	21	20	22	21	24	24	24	20
LOC_3	8	8	8	8	8	7	7	7	7	7	7	8	8	8	7	7	8	8	8	7
LOC_4	7	7	7	7	7	7	7	7	7	6	7	7	7	7	7	7	7	7	7	7
LOC_5	7	7	7	9	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
LOC_6	18	18	21	21	19	16	16	16	15	15	15	20	20	21	17	17	20	20	20	16
LOC_7	13	13	13	13	13	15	13	13	13	13	15	13	13	14	14	14	14	15	15	13
LOC_8	20	20	19	19	19	22	22	22	22	22	21	19	19	19	22	23	19	19	19	22
LOC_9	14	15	15	15	15	15	14	14	14	15	16	15	14	15	15	15	15	15	14	15
LOC_10	17	17	17	18	18	15	15	15	15	15	13	18	18	17	15	15	15	15	16	17





'

RefTree_taxa	19.0
Tree_taxa	19.0
Common_taxa	19.0
MatchingCluster	16.0
MatchingCluster_toYuleAvg	0.2063
MatchingCluster_toUnifAvg	0.18
R-F_Cluster	7.0
R-F_Cluster_toYuleAvg	0.418
R-F_Cluster_toUnifAvg	0.4158
NodalSplitted	18.1108
NodalSplitted_toYuleAvg	0.3367
NodalSplitted_toUnifAvg	0.2745

Triples	46.0
Triples_toYuleAvg	0.0715
Triples_toUnifAvg	0.0711
MatchingPair	22.0
MatchingPair_toYuleAvg	0.1838
MatchingPair_toUnifAvg	0.1868
MAST	5.0
MAST_toYuleAvg	0.3995
MAST_toUnifAvg	0.3964
CopheneticL2Metric	8.124
CopheneticL2Metric_toYuleAvg	0.1924
CopheneticL2Metric_toUnifAvg	0.165

52.6%

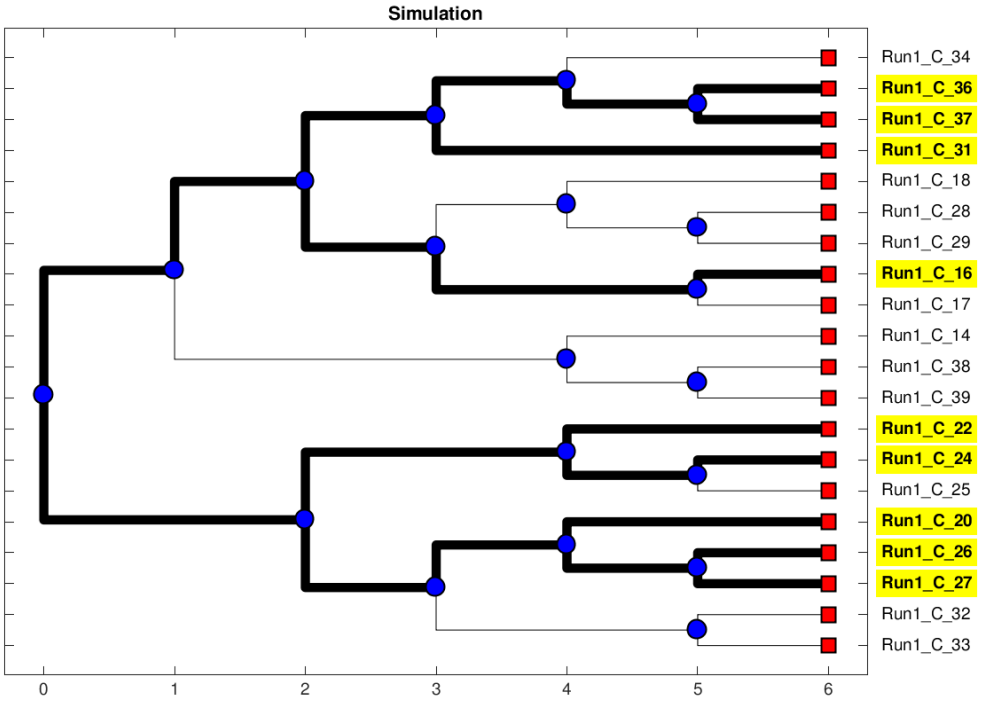
20 leaves (config-17.json)

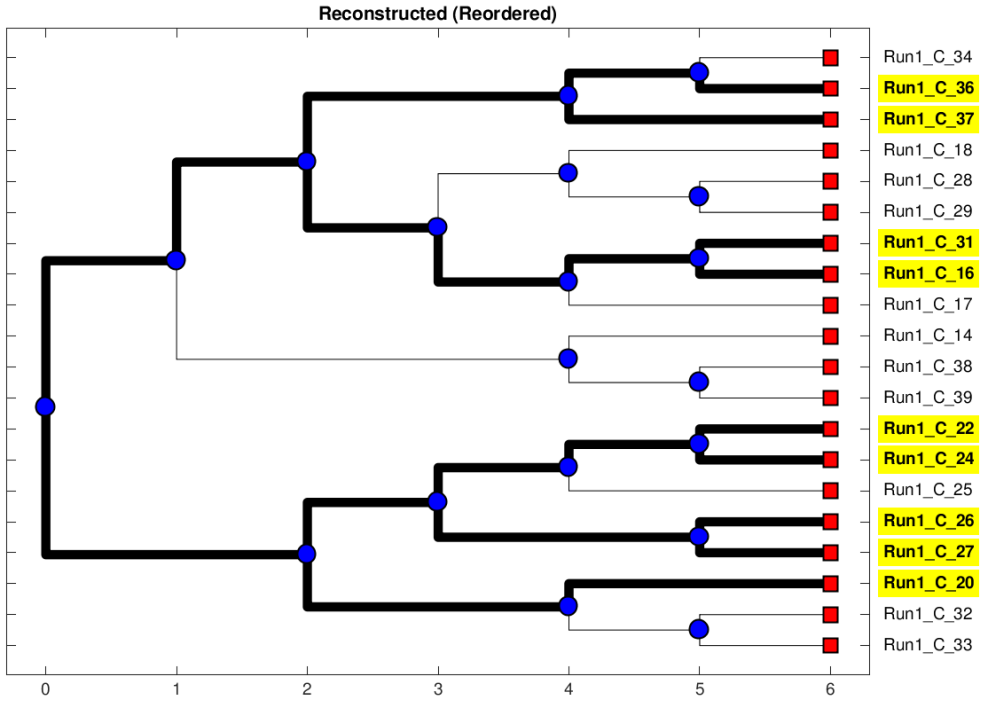
Parameters

Mutation:	True
Allelic Dropouts:	False
Noises:	False
Early Stop Population:	19

Mutation Table

names	C_14	C_16	C_17	C_18	C_20	C_22	C_24	C_25	C_26	C_27	C_28	C_29	C_31	C_32	C_33	C_34	C_36	C_37	C_38	C_39	root
LOC_1	20	19	19	19	21	19	19	19	22	22	19	19	19	24	20	19	19	20	20	20	19
LOC_2	21	25	21	23	22	20	20	21	21	21	22	21	20	22	21	24	24	24	23	21	20
LOC_3	8	8	8	8	7	7	7	7	7	7	8	8	8	7	7	8	8	8	8	8	7
LOC_4	7	7	7	7	7	7	7	7	6	7	7	7	7	7	7	7	7	7	7	7	7
LOC_5	7	7	9	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
LOC_6	18	21	21	19	16	16	16	15	15	15	20	20	21	17	17	20	20	20	17	17	16
LOC_7	13	13	13	13	15	13	13	13	13	15	13	13	14	14	14	14	15	15	13	13	13
LOC_8	20	19	19	19	22	22	22	22	22	21	19	19	19	22	23	19	19	19	20	20	22
LOC_9	14	15	15	15	15	14	14	14	15	16	15	14	15	15	15	15	15	14	15	15	15
LOC_10	17	17	18	18	15	15	15	15	15	13	18	18	17	15	15	15	15	16	17	17	17





'

RefTree_taxa	20.0
Tree_taxa	20.0
Common_taxa	20.0
MatchingCluster	16.0
MatchingCluster_toYuleAvg	0.1878
MatchingCluster_toUnifAvg	0.1645
R-F_Cluster	7.0
R-F_Cluster_toYuleAvg	0.3941
R-F_Cluster_toUnifAvg	0.3922
NodalSplitted	18.6011
NodalSplitted_toYuleAvg	0.3197
NodalSplitted_toUnifAvg	0.2588

Triples	46.0
Triples_toYuleAvg	0.0602
Triples_toUnifAvg	0.0606
MatchingPair	22.0
MatchingPair_toYuleAvg	0.1635
MatchingPair_toUnifAvg	0.1672
MAST	5.0
MAST_toYuleAvg	0.3748
MAST_toUnifAvg	0.3716
CopheneticL2Metric	8.124
CopheneticL2Metric_toYuleAvg	0.1829
CopheneticL2Metric_toUnifAvg	0.1495

55.0%

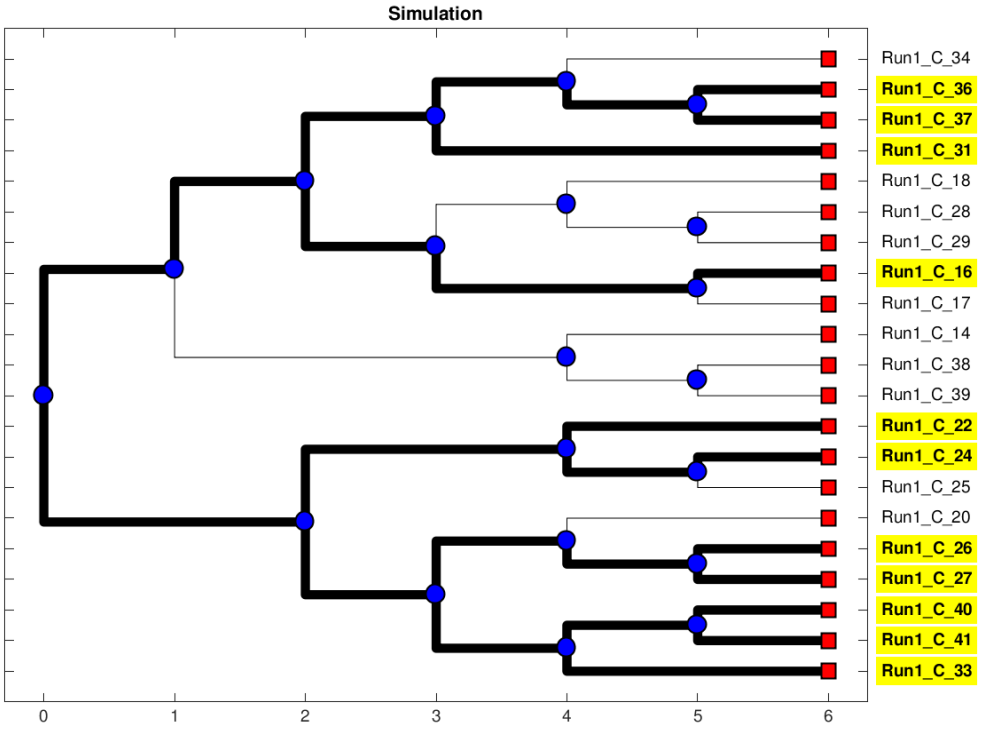
21 leaves (config-18.json)

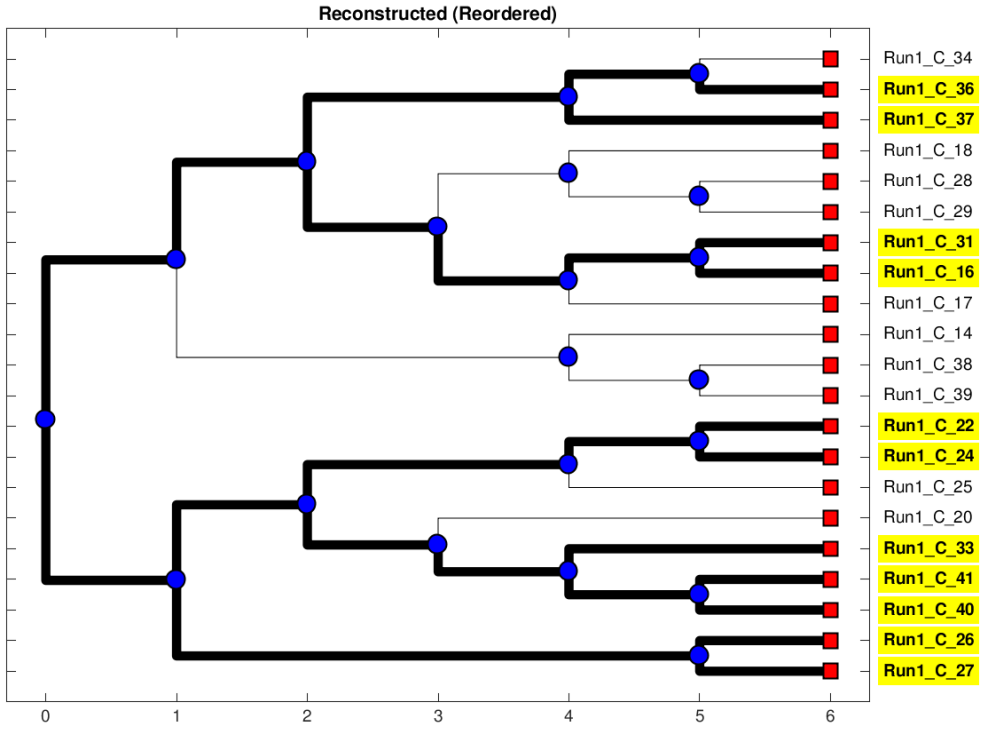
Parameters

Mutation:	True
Allelic Dropouts:	False
Noises:	False
Early Stop Population:	20

Mutation Table

names	C_14	C_16	C_17	C_18	C_20	C_22	C_24	C_25	C_26	C_27	C_28	C_29	C_31	C_33	C_34	C_36	C_37	C_38	C_39	C_40	C_41	root
LOC_1	20	19	19	19	21	19	19	19	22	22	19	19	19	20	19	19	20	20	20	23	24	19
LOC_2	21	25	21	23	22	20	20	21	21	21	22	21	20	21	24	24	24	23	21	22	22	20
LOC_3	8	8	8	8	7	7	7	7	7	7	8	8	8	7	8	8	8	8	8	7	7	7
LOC_4	7	7	7	7	7	7	7	7	6	7	7	7	7	7	7	7	7	7	7	7	7	7
LOC_5	7	7	9	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
LOC_6	18	21	21	19	16	16	16	15	15	15	20	20	21	17	20	20	20	17	17	17	17	16
LOC_7	13	13	13	13	15	13	13	13	13	15	13	13	14	14	14	15	15	13	13	14	14	13
LOC_8	20	19	19	19	22	22	22	22	22	21	19	19	19	23	19	19	19	20	20	22	22	22
LOC_9	14	15	15	15	15	14	14	14	15	16	15	14	15	15	15	15	14	15	15	14	15	15
LOC_10	17	17	18	18	15	15	15	15	15	13	18	18	17	15	15	15	16	17	17	15	15	17





'

RefTree_taxa	21.0	Triples	54.0
Tree_taxa	21.0	Triples_toYuleAvg	0.0608
Common_taxa	21.0	Triples_toUnifAvg	0.0609
MatchingCluster	20.0	MatchingPair	21.0
MatchingCluster_toYuleAvg	0.2183	MatchingPair_toYuleAvg	0.1406
MatchingCluster_toUnifAvg	0.1891	MatchingPair_toUnifAvg	0.1435
R-F_Cluster	7.0	MAST	5.0
R-F_Cluster_toYuleAvg	0.3729	MAST_toYuleAvg	0.3527
R-F_Cluster_toUnifAvg	0.3714	MAST_toUnifAvg	0.3502
NodalSplitted	21.9545	CopheneticL2Metric	9.5394
NodalSplitted_toYuleAvg	0.3566	CopheneticL2Metric_toYuleAvg	0.2005
NodalSplitted_toUnifAvg	0.2821	CopheneticL2Metric_toUnifAvg	0.1651

47.6%

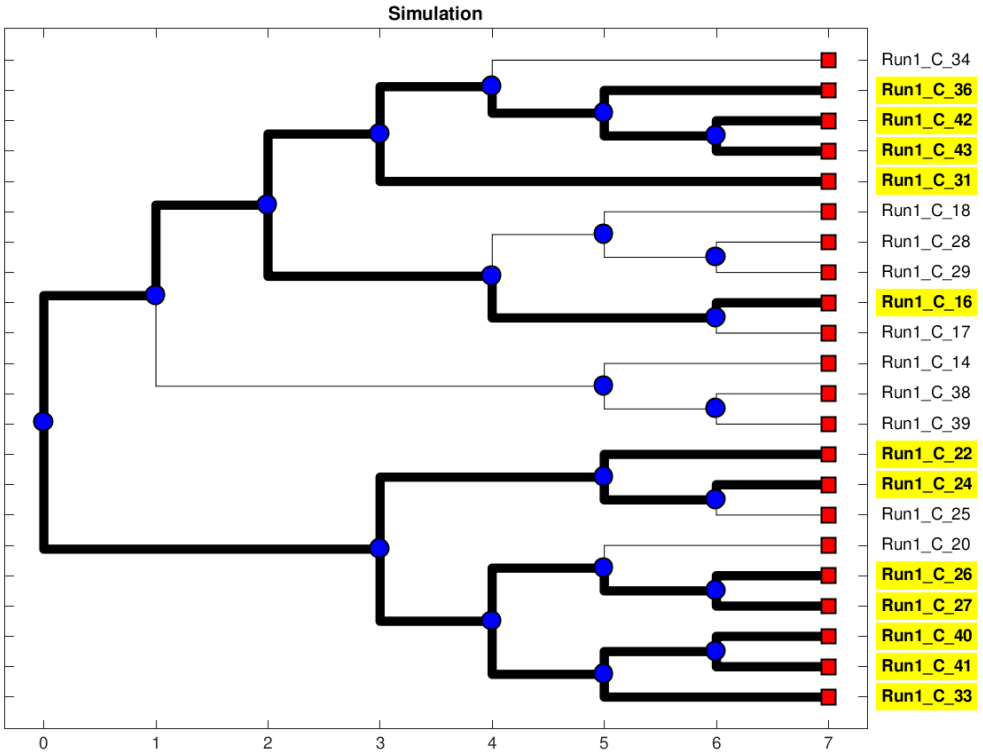
22 leaves (config-19.json)

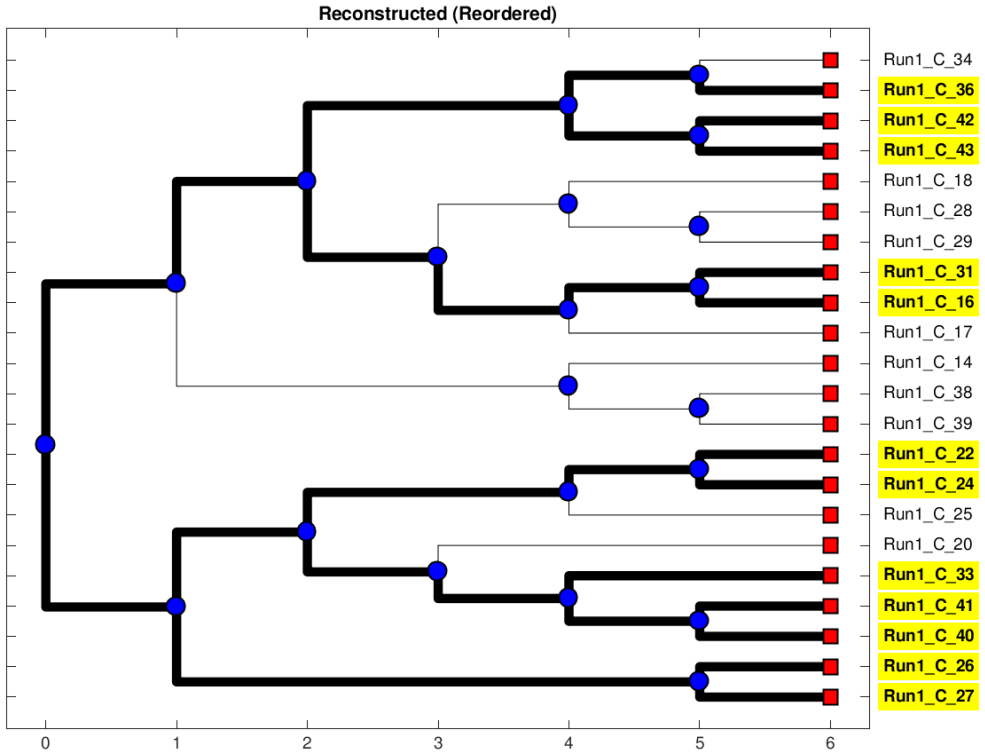
Parameters

Mutation:	True
Allelic Dropouts:	False
Noises:	False
Early Stop Population:	21

Mutation Table

names	C_14	C_16	C_17	C_18	C_20	C_22	C_24	C_25	C_26	C_27	C_28	C_29	C_31	C_33	C_34	C_36	C_38	C_39	C_40	C_41	C_42	C_43	root
LOC_1	20	19	19	19	21	19	19	19	22	22	19	19	19	20	19	19	20	20	23	24	19	20	19
LOC_2	21	25	21	23	22	20	20	21	21	21	22	21	20	21	24	24	23	21	22	22	24	24	20
LOC_3	8	8	8	8	7	7	7	7	7	7	8	8	8	7	8	8	8	8	7	7	8	8	7
LOC_4	7	7	7	7	7	7	7	7	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7
LOC_5	7	7	9	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	7	7
LOC_6	18	21	21	19	16	16	16	15	15	15	20	20	21	17	20	20	17	17	17	17	21	20	16
LOC_7	13	13	13	13	15	13	13	13	13	15	13	13	14	14	14	15	13	13	14	14	15	15	13
LOC_8	20	19	19	19	22	22	22	22	22	21	19	19	19	23	19	19	20	20	22	22	19	19	22
LOC_9	14	15	15	15	15	14	14	14	15	16	15	14	15	15	15	15	15	15	14	15	14	14	15
LOC_10	17	17	18	18	15	15	15	15	15	13	18	18	17	15	15	15	17	17	15	15	16	16	17





'

RefTree_taxa	22.0
Tree_taxa	22.0
Common_taxa	22.0
MatchingCluster	22.0
MatchingCluster_toYuleAvg	0.2226
MatchingCluster_toUnifAvg	0.19
R-F_Cluster	7.0
R-F_Cluster_toYuleAvg	0.3541
R-F_Cluster_toUnifAvg	0.3525
NodalSplitted	24.0832
NodalSplitted_toYuleAvg	0.3615
NodalSplitted_toUnifAvg	0.2831

Triples	60.0
Triples_toYuleAvg	0.0585
Triples_toUnifAvg	0.0583
MatchingPair	23.0
MatchingPair_toYuleAvg	0.1396
MatchingPair_toUnifAvg	0.142
MAST	5.0
MAST_toYuleAvg	0.3334
MAST_toUnifAvg	0.331
CopheneticL2Metric	10.247
CopheneticL2Metric_toYuleAvg	0.2016
CopheneticL2Metric_toUnifAvg	0.1633

45.5%

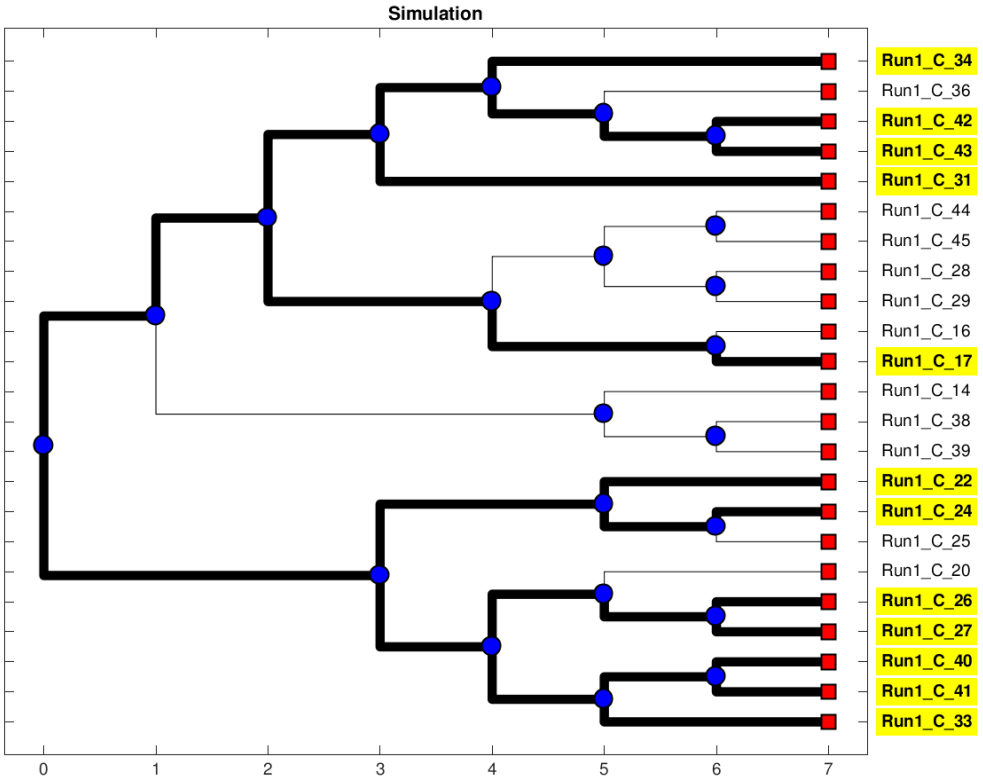
23 leaves (config-20.json)

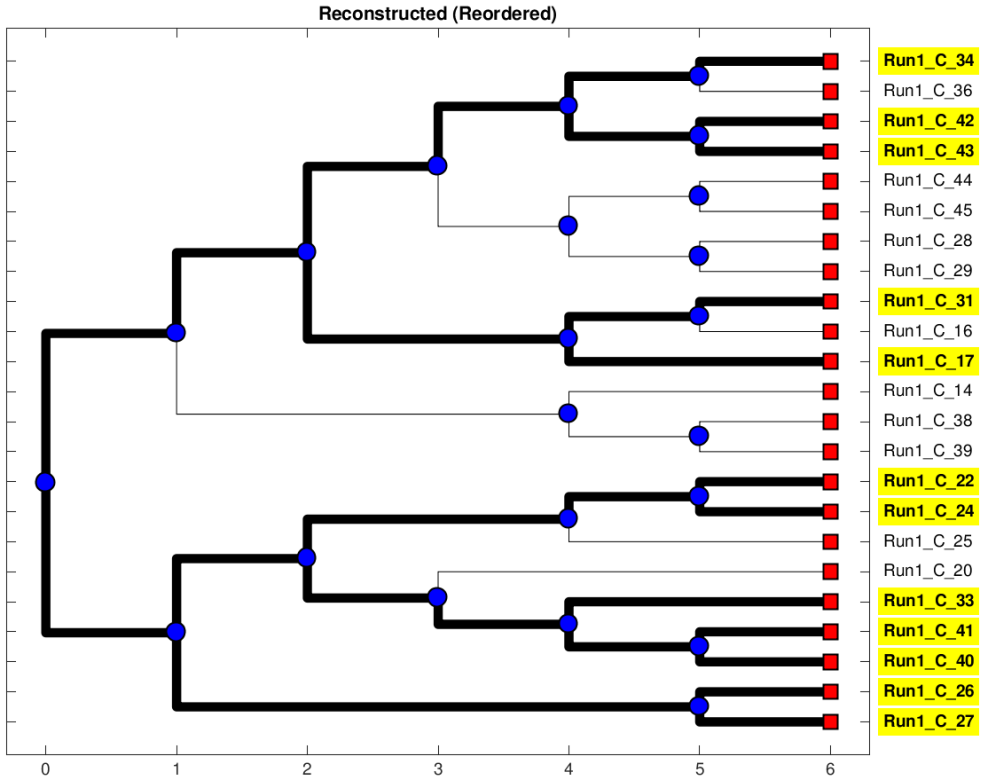
Parameters

Mutation:	True
Allelic Dropouts:	False
Noises:	False
Early Stop Population:	22

Mutation Table

names	C_14	C_16	C_17	C_20	C_22	C_24	C_25	C_26	C_27	C_28	C_29	C_31	C_33	C_34	C_36	C_38	C_39	C_40	C_41	C_42	C_43	C_44	C_45	root
LOC_1	20	19	19	21	19	19	19	22	22	19	19	19	20	19	19	20	20	23	24	19	20	19	19	19
LOC_2	21	25	21	22	20	20	21	21	21	22	21	20	21	24	24	23	21	22	22	24	24	24	24	20
LOC_3	8	8	8	7	7	7	7	7	7	8	8	8	7	8	8	8	8	7	7	8	8	8	8	7
LOC_4	7	7	7	7	7	7	7	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
LOC_5	7	7	9	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	7	7	7	7
LOC_6	18	21	21	16	16	16	15	15	15	20	20	21	17	20	20	17	17	17	17	21	20	19	23	16
LOC_7	13	13	13	15	13	13	13	13	15	13	13	14	14	14	15	13	13	14	14	15	15	13	13	13
LOC_8	20	19	19	22	22	22	22	22	21	19	19	19	23	19	19	20	20	22	22	19	19	19	19	22
LOC_9	14	15	15	15	14	14	14	15	16	15	14	15	15	15	15	15	15	14	15	14	14	15	15	15
LOC_10	17	17	18	15	15	15	15	15	13	18	18	17	15	15	15	17	17	15	15	16	16	18	18	17





'

RefTree_taxa	23.0	Triples	98.0
Tree_taxa	23.0	Triples_toYuleAvg	0.0829
Common_taxa	23.0	Triples_toUnifAvg	0.0833
MatchingCluster	27.0	MatchingPair	32.0
MatchingCluster_toYuleAvg	0.2546	MatchingPair_toYuleAvg	0.1753
MatchingCluster_toUnifAvg	0.2179	MatchingPair_toUnifAvg	0.1791
R-F_Cluster	7.0	MAST	7.0
R-F_Cluster_toYuleAvg	0.3369	MAST_toYuleAvg	0.4412
R-F_Cluster_toUnifAvg	0.3362	MAST_toUnifAvg	0.4371
NodalSplitted	22.1359	CopheneticL2Metric	10.0
NodalSplitted_toYuleAvg	0.3138	CopheneticL2Metric_toYuleAvg	0.1846
NodalSplitted_toUnifAvg	0.2469	CopheneticL2Metric_toUnifAvg	0.1481

47.8%