

Network analysis results
Relevant output from TCS v. 1.21 analysis

Ant Networks

PARSIMONY PROBABILITY

For 1 step(s),	P(90%) = 0.9993189000594782
For 2 step(s),	P(90%) = 0.9974565799863522
For 3 step(s),	P(90%) = 0.9947317351868009
For 4 step(s),	P(90%) = 0.9911062827467767
For 5 step(s),	P(90%) = 0.9865849716570294
For 6 step(s),	P(90%) = 0.9811775162679158
For 7 step(s),	P(90%) = 0.9748957304418876
For 8 step(s),	P(90%) = 0.9677537854640341
For 9 step(s),	P(90%) = 0.9597681955032399
For 10 step(s),	P(90%) = 0.9509577530083807
For 11 step(s),	P(90%) = 0.9413434557124126
For 12 step(s),	P(90%) = 0.9309484239440748
For 13 step(s),	P(90%) = 0.9197978082486945
For 14 step(s),	P(90%) = 0.9079186878391192
For 15 step(s),	P(90%) = 0.8953399604523783

RUN SETTINGS

Calculated maximum connection steps at 90% = 14
Gaps treated as fifth state

HAPLOTYPES

Number of haplotypes = 27

Haplotype list:

- Tsp1_6	:	Tsp1_4
- Tsp1_3	:	Tsp1_5
- Tsp1_7	:	
- Tsp1_11	:	
- Tsp1_13	:	
- Tsp1_8	:	
- Tsp1_10	:	
- Tsp1_12	:	
- Sam2	:	Sam5
- Sam3	:	
- Sam1	:	Sam6
- Sam4	:	Sam8
- Sam7	:	
- Sam9	:	
- Sam10	:	
- Tsp3_8	:	Tsp3_13 Tsp3_14 Tsp3_12 Tsp3_7 Tsp3_9
- Tsp3_10	:	
- Tsp3_11	:	
- Aocto	:	

- Acephal :
 - Tsp4_9 : Tsp4_10 Tsp4_16
 - Tsp4_19 : Tsp4_17
 - Tsp4_18 :
 - Tsp4_13 :
 - Tsp4_12 :
 - Tsp4_15 :

OUTGROUP WEIGHTS

*** Network 1 - *T. cornetzi* sp. 2

Tsp1_7 weight = 0.14285714285714285
Tsp1_6 weight = 0.5714285714285714
Tsp1_3 weight = 0.2857142857142857
Total weight = 3.5
Biggest outgroup probability is Tsp1_6
(0.5714285714285714)

*** Network 2 - *T. cornetzi* sp. 3

Tsp1_11 weight = 0.5
Tsp1_13 weight = 0.5
Total weight = 1.0
Biggest outgroup probability is Tsp1_11 (0.5)

*** Network 3 - *T. cornetzi* sp. 1

Tsp1_12 weight = 0.16666666666666666
Tsp1_8 weight = 0.66666666666666666
Tsp1_10 weight = 0.16666666666666666
Total weight = 3.0
Biggest outgroup probability is Tsp1_8
(0.66666666666666666)

*** Network 4 - *Sericomyrmex amabilis*

Sam4 weight = 0.2608695652173913
Sam7 weight = 0.043478260869565216
Sam10 weight = 0.043478260869565216
Sam9 weight = 0.043478260869565216
Sam1 weight = 0.08695652173913043
Sam2 weight = 0.2608695652173913
Sam3 weight = 0.2608695652173913
Total weight = 11.5
Biggest outgroup probability is Sam4
(0.2608695652173913)

*** Network 5 - *Trachymyrmex* sp. 3

Tsp3_11 weight = 0.05555555555555555
Tsp3_8 weight = 0.88888888888888888
Tsp3_10 weight = 0.05555555555555555
Total weight = 9.0
Biggest outgroup probability is Tsp3_8
(0.88888888888888888)

*** Network 6 - *Acromyrmex octospinosus*
Aocto weight = 1.0
Total weight = 1.0
Biggest outgroup probability is Aocto (1.0)

*** Network 7 - *Atta cephalotes*
Acephal weight = 1.0
Total weight = 1.0
Biggest outgroup probability is Acephal (1.0)

*** Network 8 - *Trachymyrmex zeteki*
Tsp4_13 weight = 0.055555555555555555
Tsp4_18 weight = 0.055555555555555555
Tsp4_9 weight = 0.444444444444444444
Tsp4_19 weight = 0.333333333333333333
Tsp4_15 weight = 0.055555555555555555
Tsp4_12 weight = 0.055555555555555555
Total weight = 9.0
Biggest outgroup probability is Tsp4_9
(0.444444444444444444)

Fungus Networks

PARSIMONY PROBABILITY

For 1 step(s),	P(90%) = 0.9995449982421768
For 2 step(s),	P(90%) = 0.9981351488585823
For 3 step(s),	P(90%) = 0.9961097618736373
For 4 step(s),	P(90%) = 0.9934174087409977
For 5 step(s),	P(90%) = 0.9900569565895634
For 6 step(s),	P(90%) = 0.9860342715838435
For 7 step(s),	P(90%) = 0.9813559773087801
For 8 step(s),	P(90%) = 0.9760298946915947
For 9 step(s),	P(90%) = 0.9700651607333624
For 10 step(s),	P(90%) = 0.9634721986474911
For 11 step(s),	P(90%) = 0.9562626853327999
For 12 step(s),	P(90%) = 0.9484495172941622
For 13 step(s),	P(90%) = 0.9400467724843066
For 14 step(s),	P(90%) = 0.9310696681317402
For 15 step(s),	P(90%) = 0.9215345147734416
For 16 step(s),	P(90%) = 0.9114586666886794
For 17 step(s),	P(90%) = 0.900860468944134
For 18 step(s),	P(90%) = 0.8897592012770762

RUN SETTINGS

Calculated maximum connection steps at 90% = 17
Gaps treated as fifth state

HAPLOTYPES

Number of haplotypes = 34

Haplotype list:

- Sam1 :
- Sam9 :
- Sam7 :
- Sam2 :
- Sam8 :
- Sam6 :
- Sam4 :
- Sam10 :
- Sam5 :
- Sam3 :
- Tsp1_13 :
- Tsp4_19 :
- Tsp1_7 :
- Tsp4_17 :
- Tsp4_18 :
- Tsp3_13 :
- Tsp3_14 : Tsp3_7 Tsp3_15 Tsp3_9 Tsp3_10 Tsp3_8
- Tsp3_11 :
- Tsp3_12 :

- Tsp4_15 :
- Tsp1_6 :
- Tsp4_9 :
- Tsp4_16 :
- Tsp4_12 :
- Tsp1_11 :
- Tsp1_4 :
- Tsp1_5 :
- Tsp4_13 :
- Tsp4_10 :
- Acephal :
- Aocto :
- Tsp1_12 :
- Tsp1_8 :
- Tsp1_3 : Tsp1_10

OUTGROUP WEIGHTS

*** Network 1 - Cultivar group A

Sam5 weight = 0.08333333333333333
 Sam10 weight = 0.08333333333333333
 Sam6 weight = 0.08333333333333333
 Sam8 weight = 0.08333333333333333
 Sam2 weight = 0.08333333333333333
 Sam7 weight = 0.08333333333333333
 Sam9 weight = 0.08333333333333333
 Sam1 weight = 0.08333333333333333
 Sam4 weight = 0.16666666666666666
 Sam3 weight = 0.16666666666666666

Total weight = 6.0

Biggest outgroup probability is Sam4 (0.16666666666666666)

*** Network 2 - Cultivar group C

Tsp4_18 weight = 0.2
 Tsp1_7 weight = 0.2
 Tsp4_19 weight = 0.2
 Tsp1_13 weight = 0.2
 Tsp4_17 weight = 0.2

Total weight = 2.5

Biggest outgroup probability is Tsp4_18 (0.2)

*** Network 3 - Cultivar group B

Tsp3_12 weight = 0.03125
 Tsp3_13 weight = 0.03125
 Tsp3_14 weight = 0.5
 Tsp3_11 weight = 0.4375

Total weight = 16.0

Biggest outgroup probability is Tsp3_14 (0.5)

*** Network 4 - Cultivar group G

Tsp4_15 weight = 1.0

Total weight = 1.0

Biggest outgroup probability is Tsp4_15 (1.0)

*** Network 5 - Cutlivar group D

Tsp4_10 weight = 0.058823529411764705
Tsp1_5 weight = 0.058823529411764705
Tsp1_4 weight = 0.058823529411764705
Tsp1_11 weight = 0.11764705882352941
Tsp4_12 weight = 0.058823529411764705
Tsp1_6 weight = 0.058823529411764705
Tsp4_9 weight = 0.11764705882352941
Tsp4_16 weight = 0.23529411764705882
Tsp4_13 weight = 0.23529411764705882
Total weight = 8.5

Biggest outgroup probability is Tsp4_16 (0.23529411764705882)

*** Network 6 - *Leucoagaricus gongylophorus*

Acephal weight = 0.5
Aocto weight = 0.5
Total weight = 1.0

Biggest outgroup probability is Acephal (0.5)

*** Network 7 - Cultivar group F

Tsp1_12 weight = 0.5
Tsp1_8 weight = 0.5
Total weight = 1.0

Biggest outgroup probability is Tsp1_12 (0.5)

*** Network 8 - Cultivar group E

Tsp1_3 weight = 1.0
Total weight = 2.0

Biggest outgroup probability is Tsp1_3 (1.0)