Supplementary Figure 1

METHODS
- Boot split distance (BSD)
- Inconsistency Score (IS)
- Classical multidimensional scaling analysis (CMDS)
- Map of quartet species
- The Tree-Net Trend (TNT)

CONCEPTS
- Forest of life (FOL)
- Nearly universal trees (NUTs)
- Central trend tree of life (TOL)
- Patterns in the FOL
- Tree and net components of evolution
Supplementary Figure 2

Tree 1

All splits from tree 1

Set of species in common

All splits from tree 2

All splits from tree 1 pruned to common species

All splits from tree 2 pruned to common species

BSD
Supplementary Figure 4

(a) $q_i \rightarrow q_{i1} \quad q_{i2} \quad q_{i3}$

(b) Species

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Quartets (Q)

- $abcd, abce, abcf, abcg, ...$
- $C_{4}^{100} = 3,921,225$

Quartet Topologies (QT)

- $(a,b,(c,d)); (a,c,(b,d)); (a,d,(b,c));$
- $(a,b,(c,e)); (a,c,(b,e)); (a,e,(b,c));$
- $(a,b,(c,e)); (a,c,(b,e)); (a,e,(b,c));$
- $3,921,225 \cdot 3 = 11,763,675$

QT vs. FOL

$8.12 \cdot 10^{10}$ comparisons
Supplementary Figure 5

\[ S_{TNT} = 0 \quad S_{TNT} = \frac{(d-Dr)}{(Ds-Dr)} \quad S_{TNT} = 1 \]

- If \( Ds > Dr \):
  - If \( d > Dr \):
    - \( S_{TNT} = 0 \)
  - If \( d = Dr \):
    - \( S_{TNT} = 1 \)
  - If \( d < Dr \):
    - \( S_{TNT} = \frac{(d-Ds)}{(Dr-Ds)} \)

- If \( Ds < Dr \):
  - If \( d > Dr \):
    - \( S_{TNT} = 1 \)
  - If \( d = Dr \):
    - \( S_{TNT} = 0 \)
  - If \( d < Dr \):
    - \( S_{TNT} = 1 - \frac{(d-Ds)}{(Dr-Ds)} \)

\[ Dr = 0.67 \]
\[ Ds > Dr \]
\[ Ds < Dr \]
\[ Dr = 0.67 \]