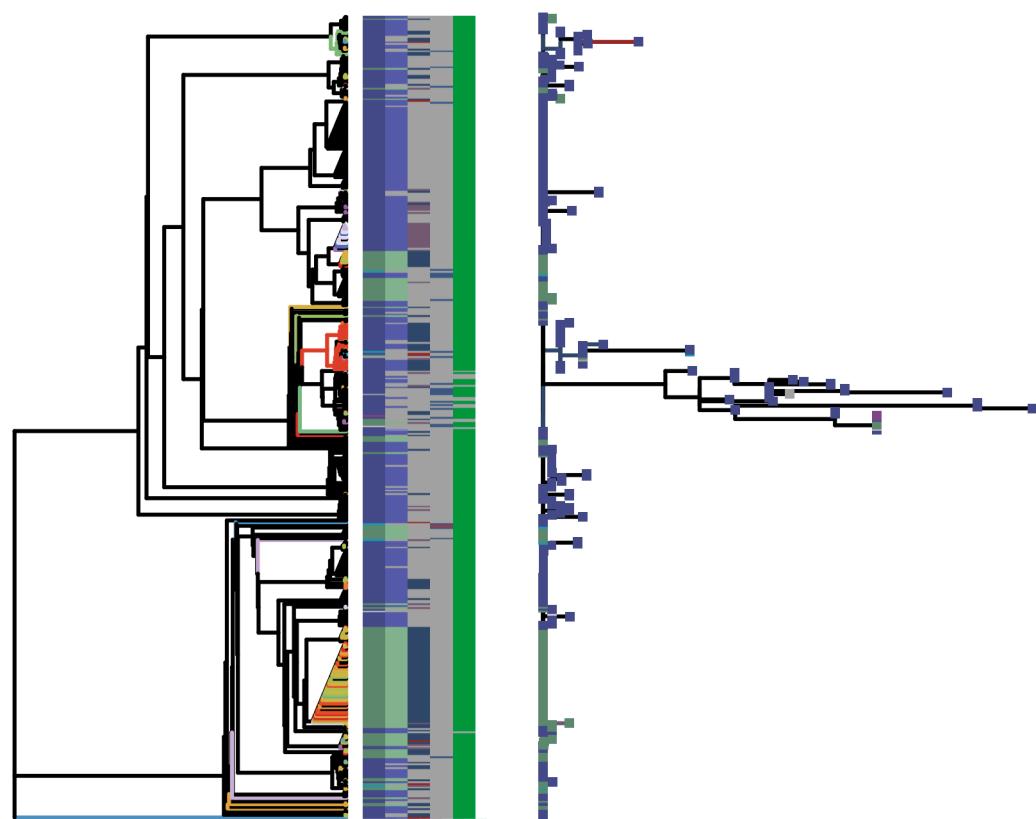


Plasmid co-phylogeny plots

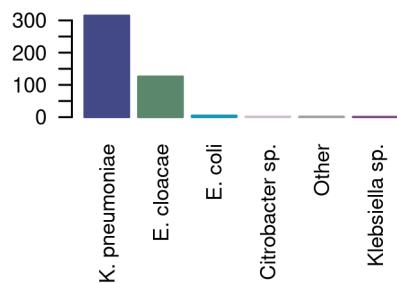
Ryan D. Crawford

02/27/2022

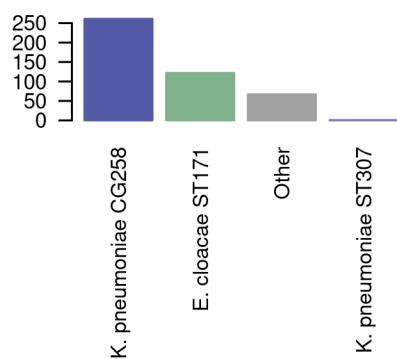
Gene cluster 1 concatenated gene tree



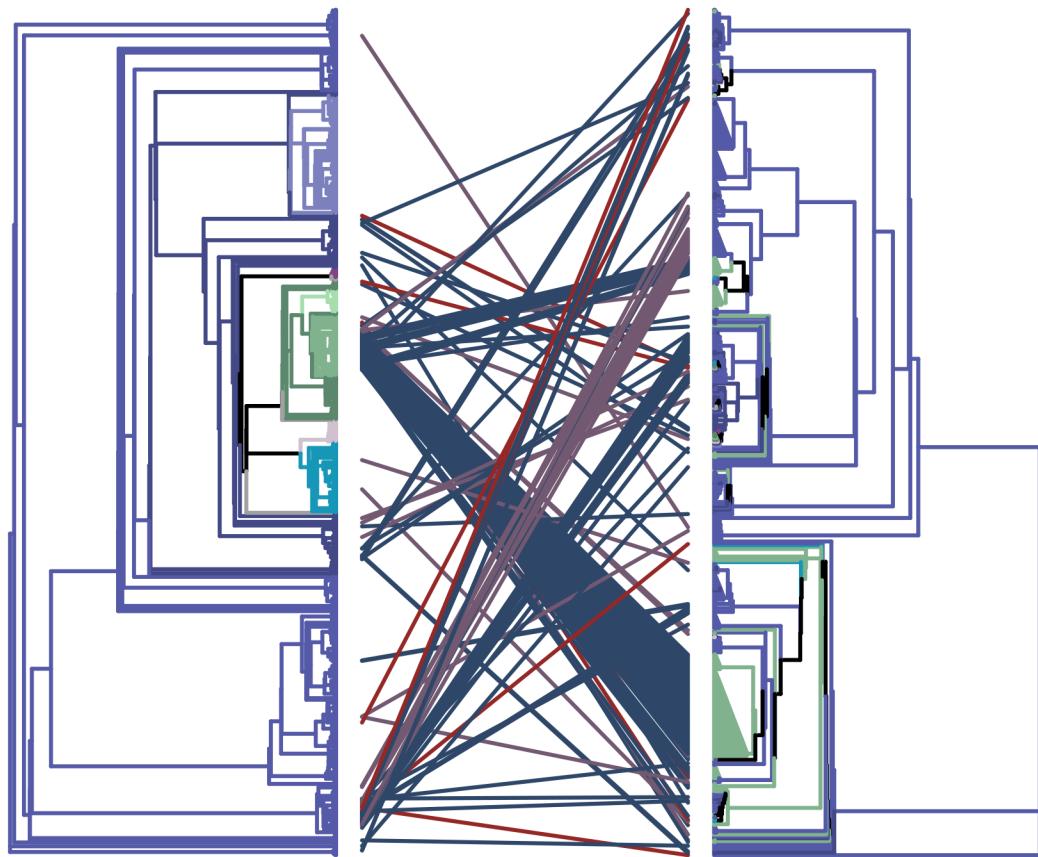
species counts

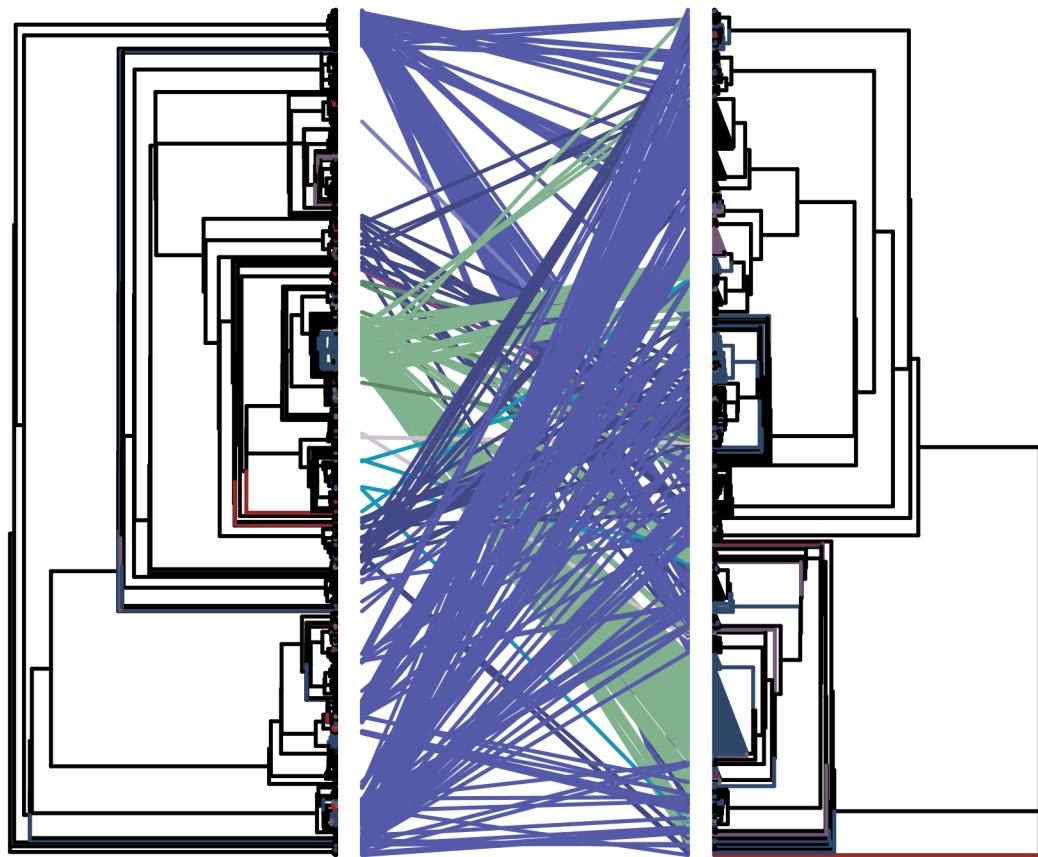


ST counts

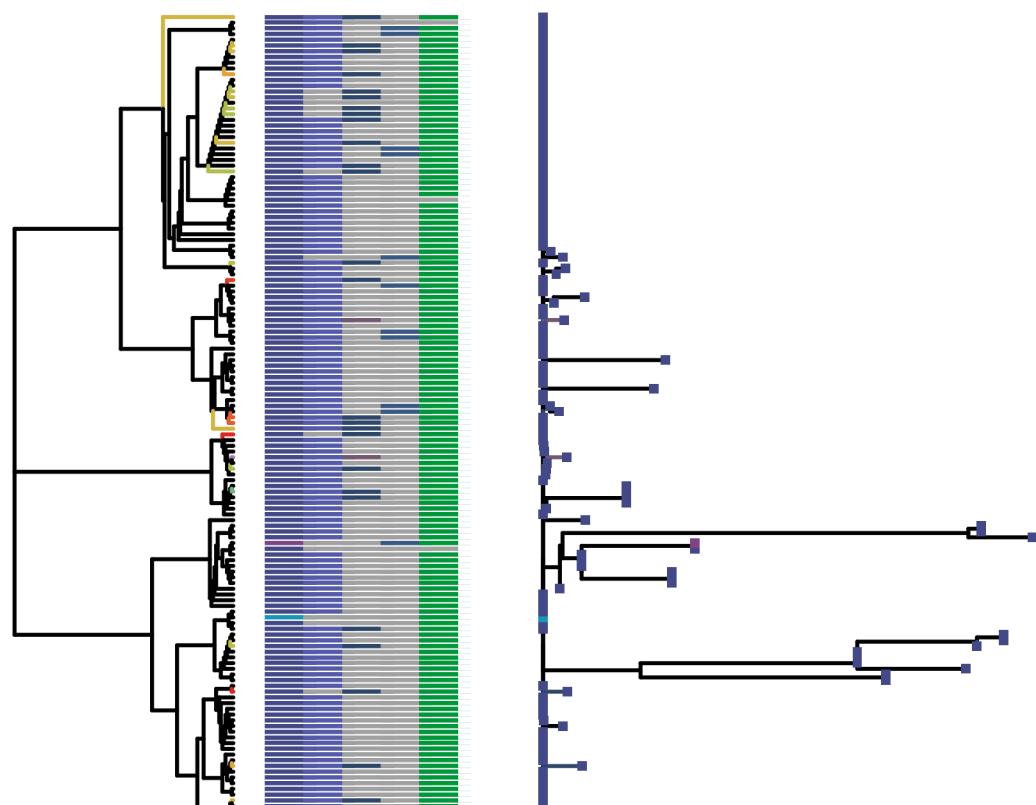


- *K. pneumoniae*
- *Klebsiella* sp.
- *E. cloacae*
- *Citrobacter* sp.
- *E. coli*
- Other
- *K. pneumoniae* ST307
- *K. pneumoniae* CG258
- *E. cloacae* ST114
- *E. cloacae* ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-

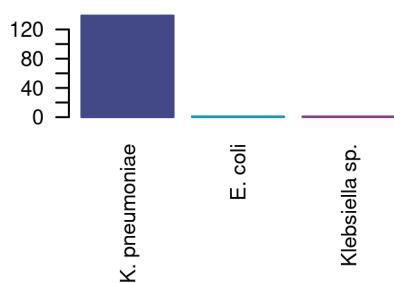




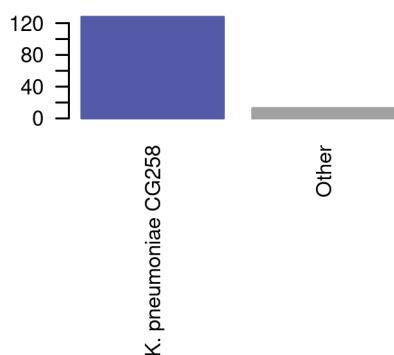
Gene cluster 2 concatenated gene tree



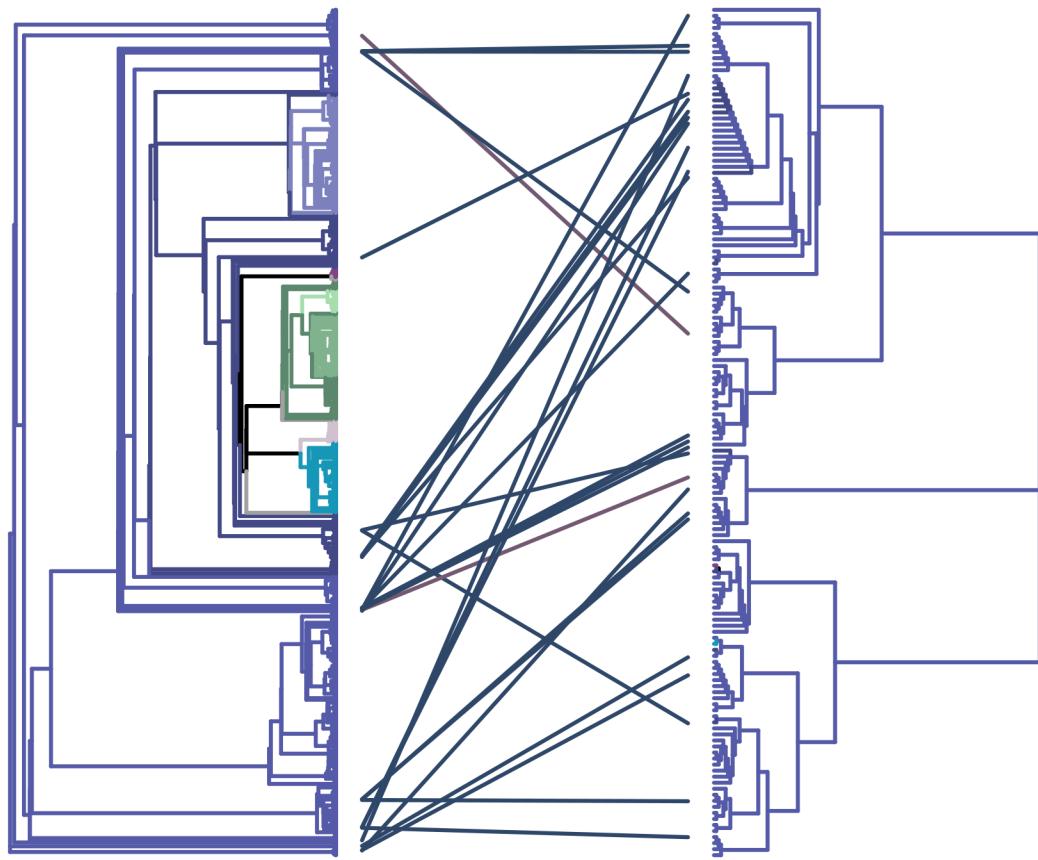
species counts

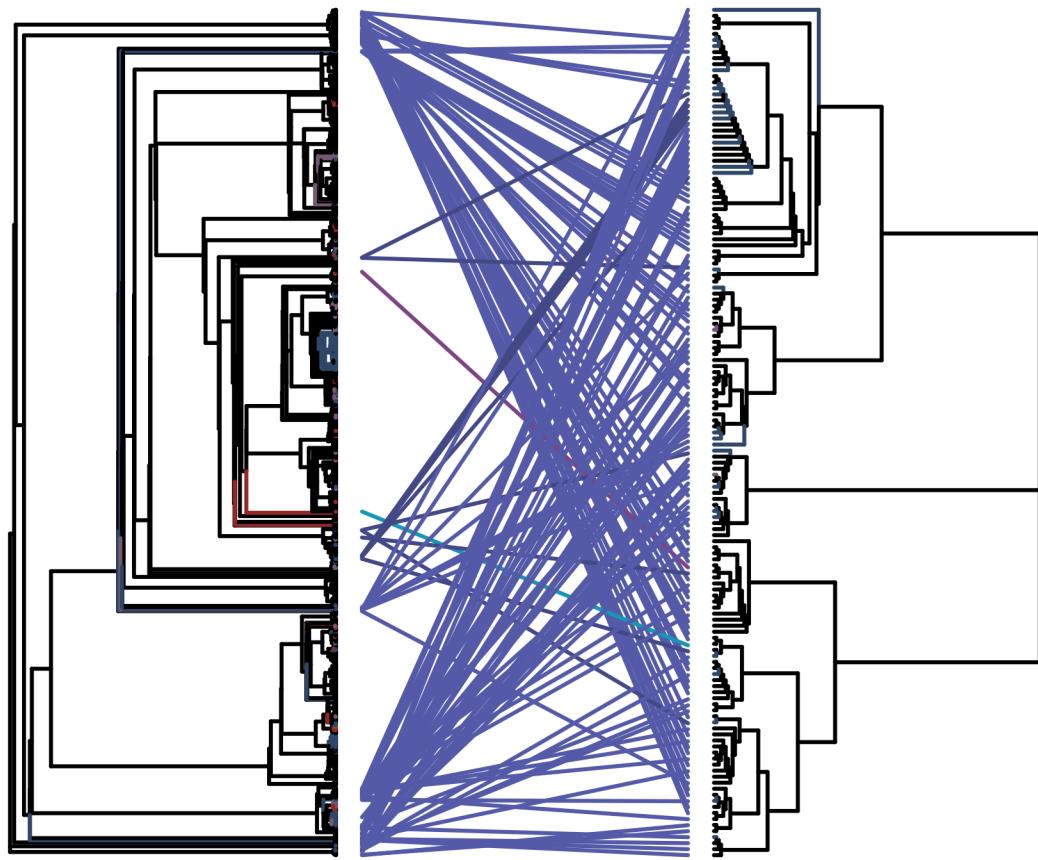


ST counts

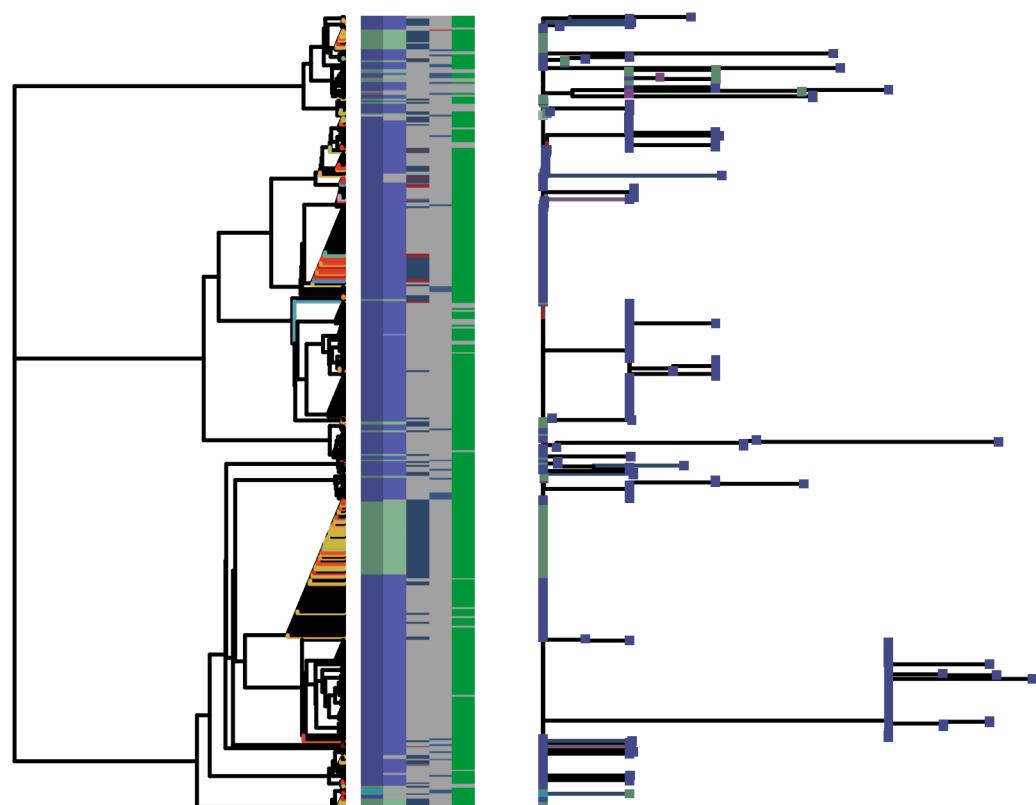


- K. pneumoniae
- Klebsiella sp.
- E. cloacae
- Citrobacter sp.
- E. coli
- Other
- K. pneumoniae ST307
- K. pneumoniae CG258
- E. cloacae ST114
- E. cloacae ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-

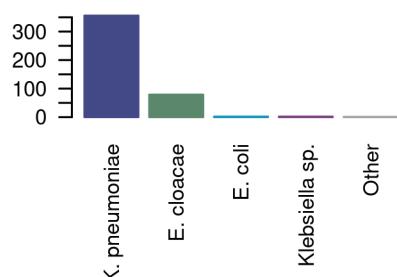




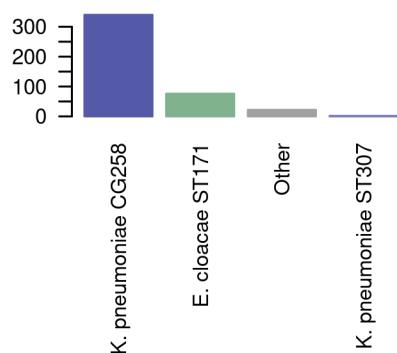
Gene cluster 3 concatenated gene tree



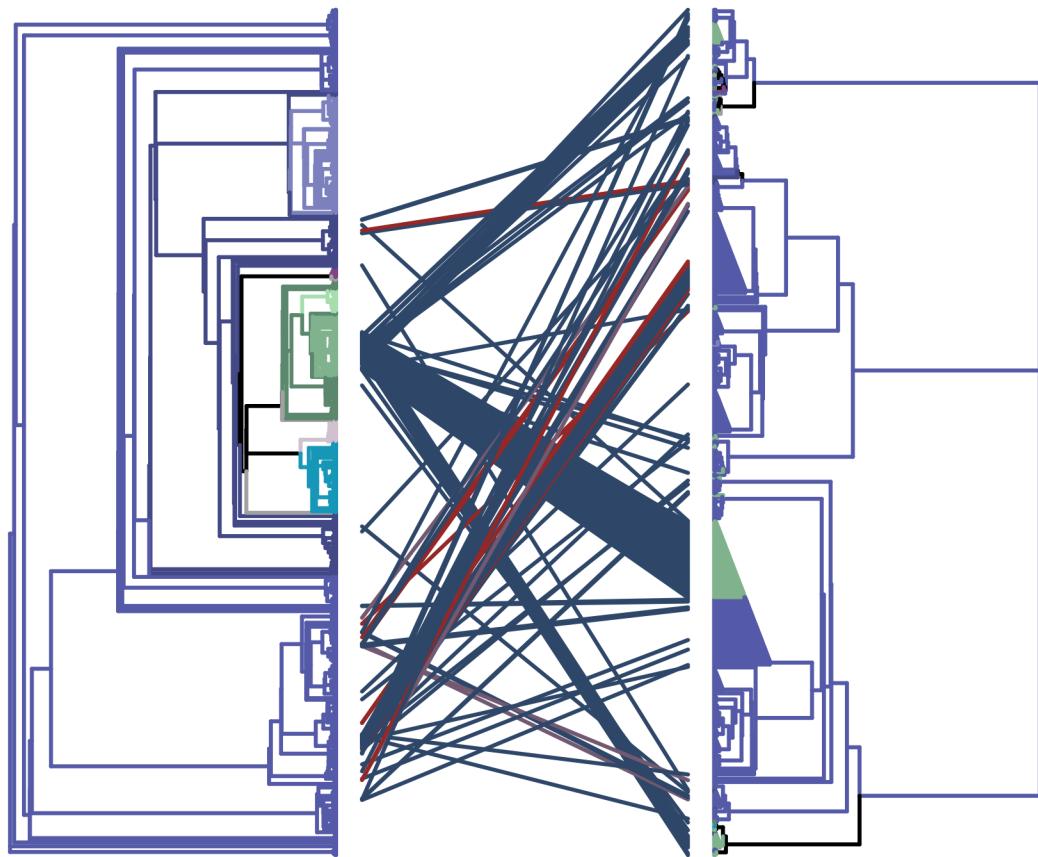
species counts

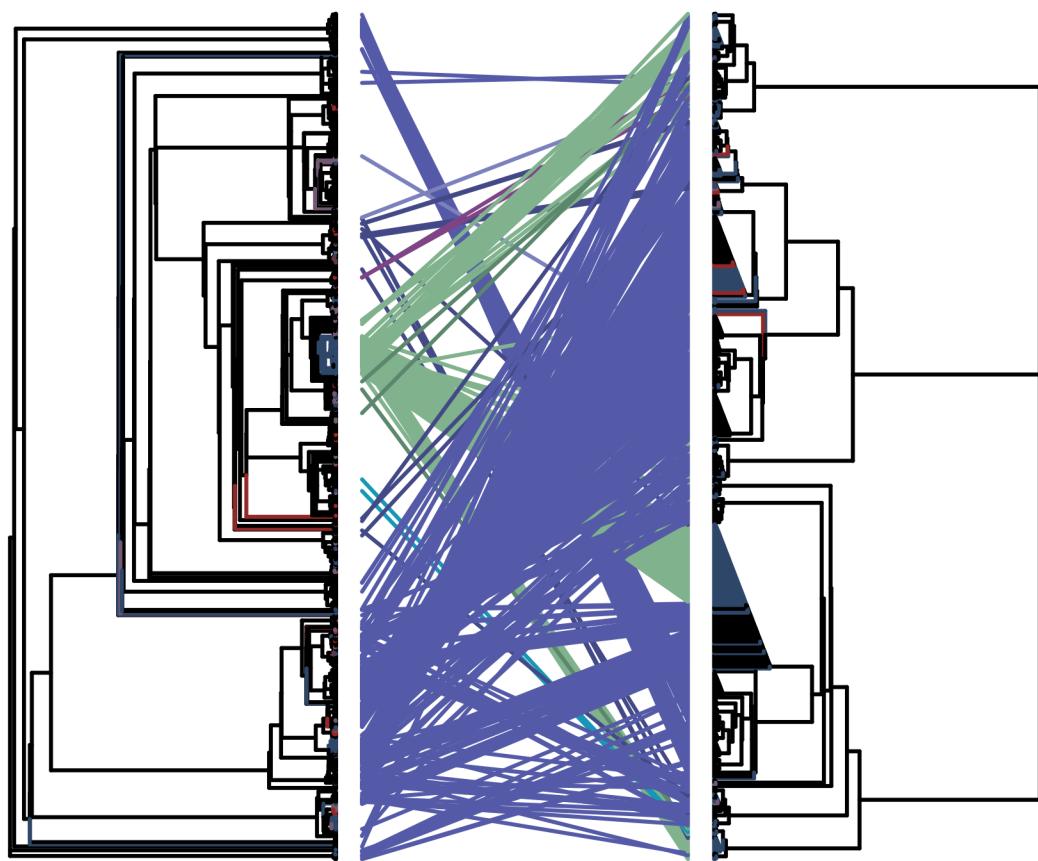


ST counts

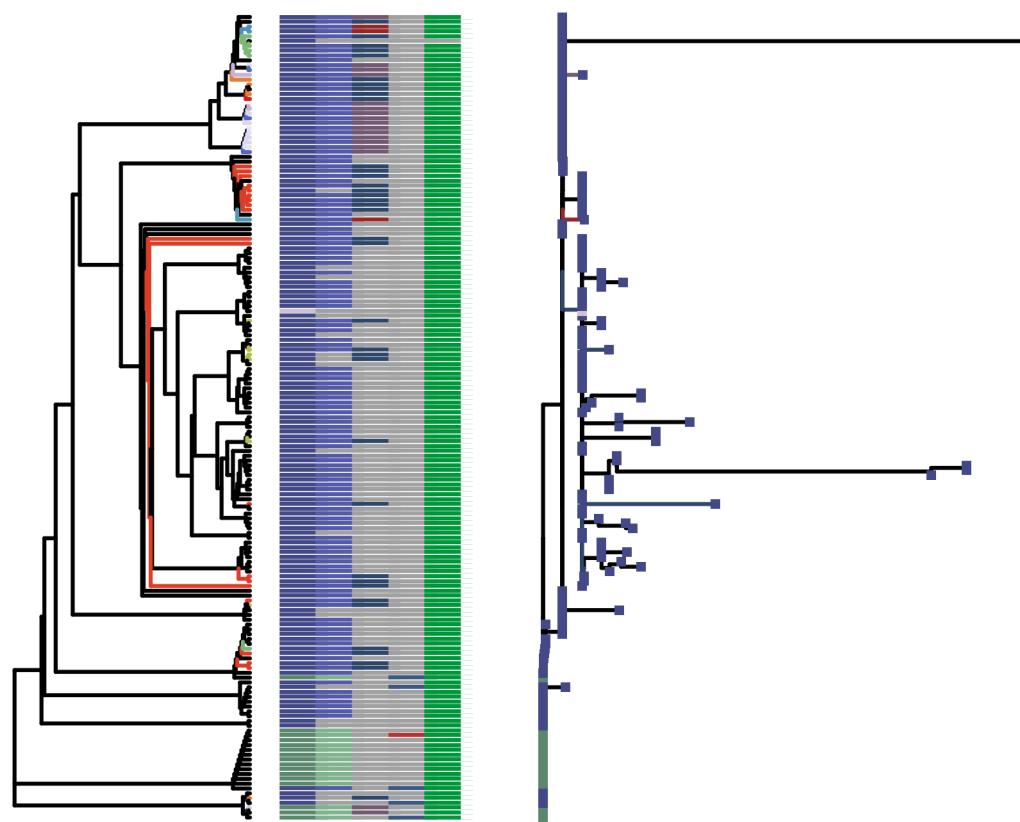


- *K. pneumoniae*
- *Klebsiella* sp.
- *E. cloacae*
- *Citrobacter* sp.
- *E. coli*
- Other
- *K. pneumoniae* ST307
- *K. pneumoniae* CG258
- *E. cloacae* ST114
- *E. cloacae* ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-

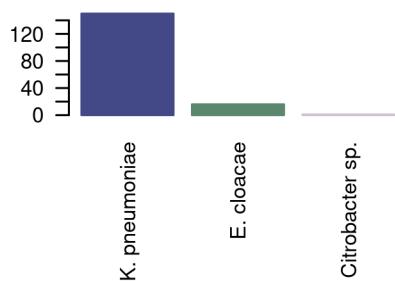




Gene cluster 4 concatenated gene tree

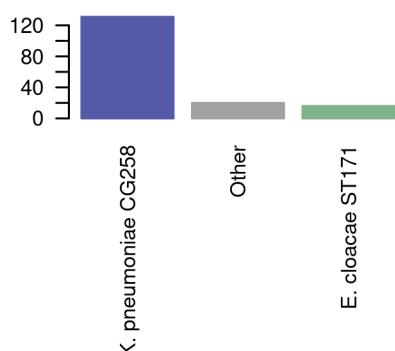


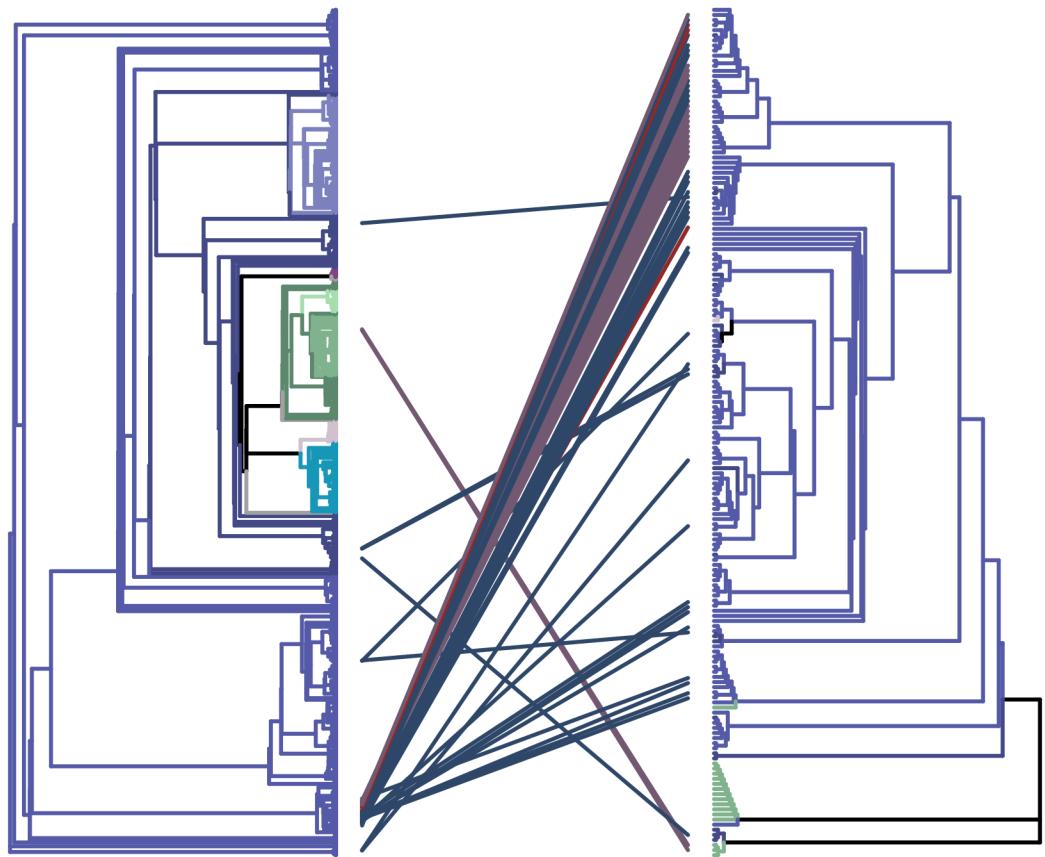
species counts

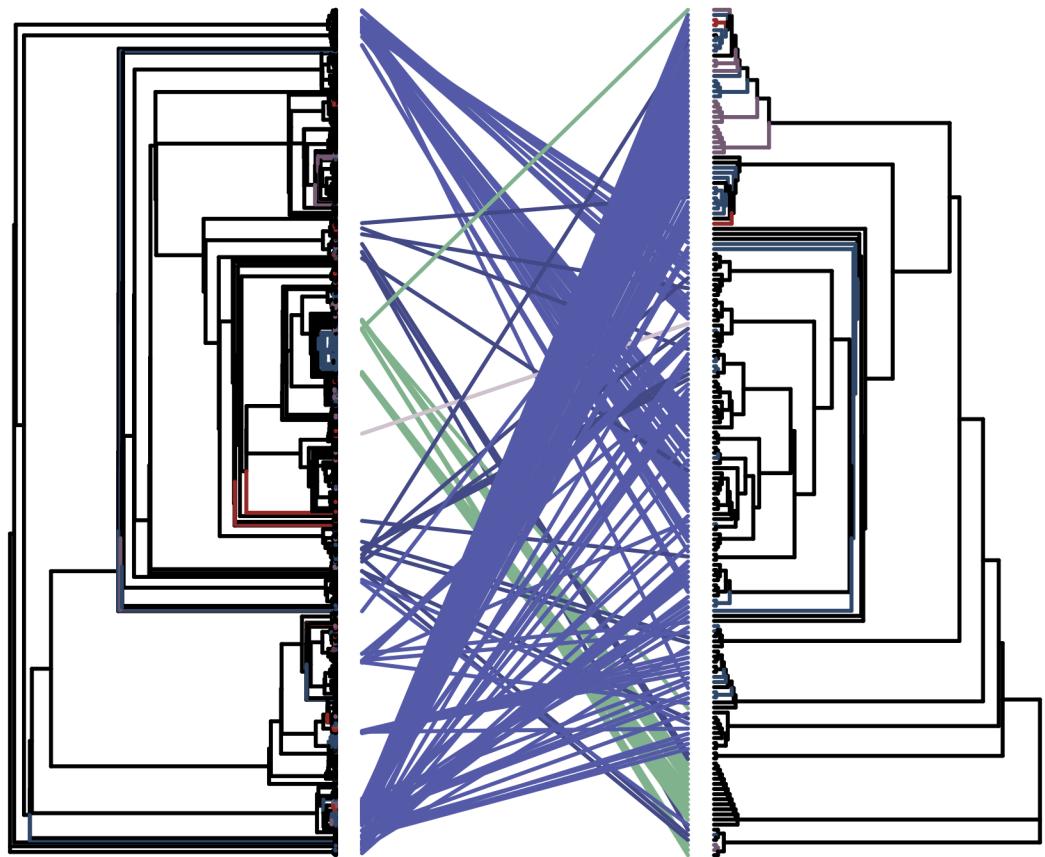


- K. pneumoniae
- Klebsiella sp.
- E. cloacae
- Citrobacter sp.
- E. coli
- Other
- K. pneumoniae ST307
- K. pneumoniae CG258
- E. cloacae ST114
- E. cloacae ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-

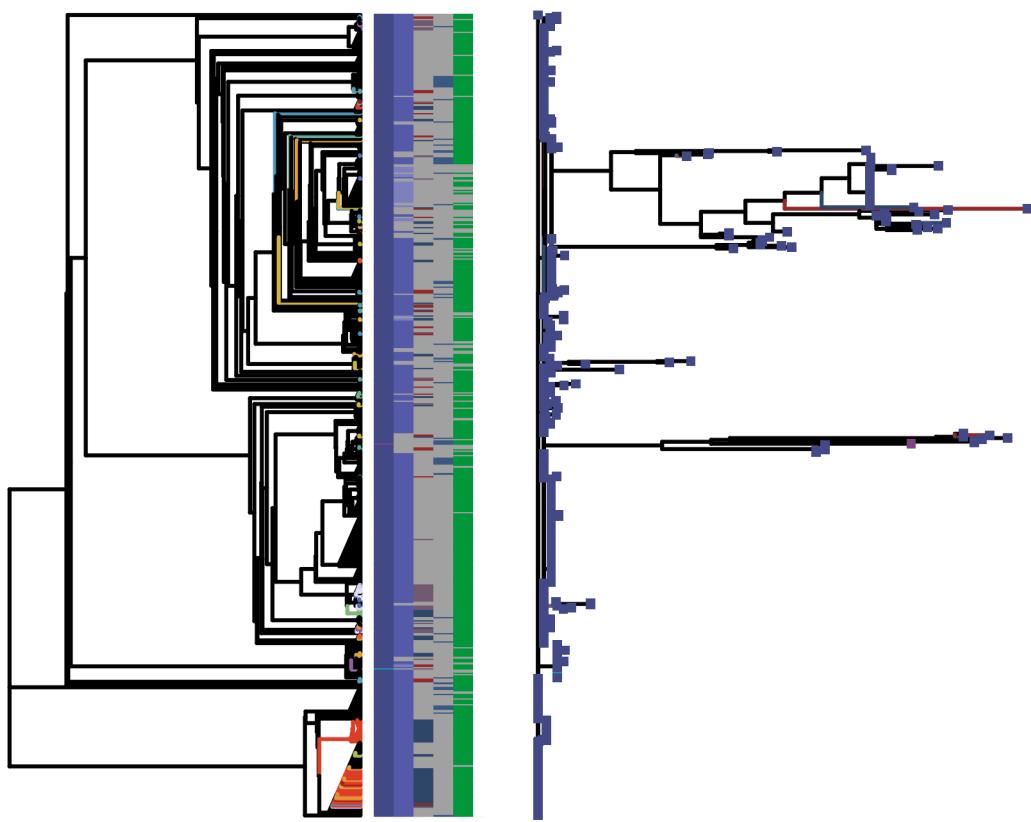
ST counts



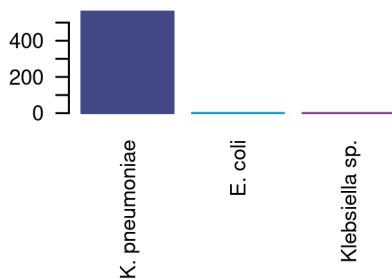




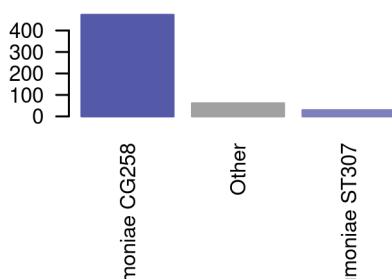
Gene cluster 5 concatenated gene tree



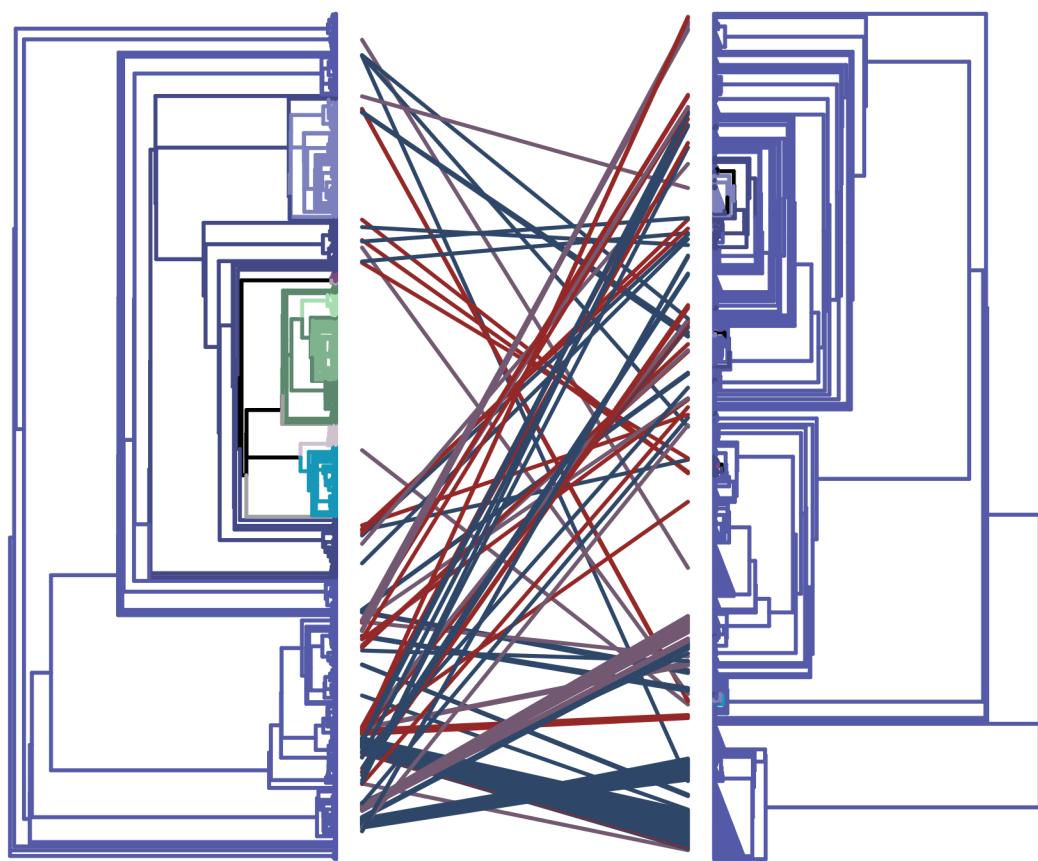
species counts

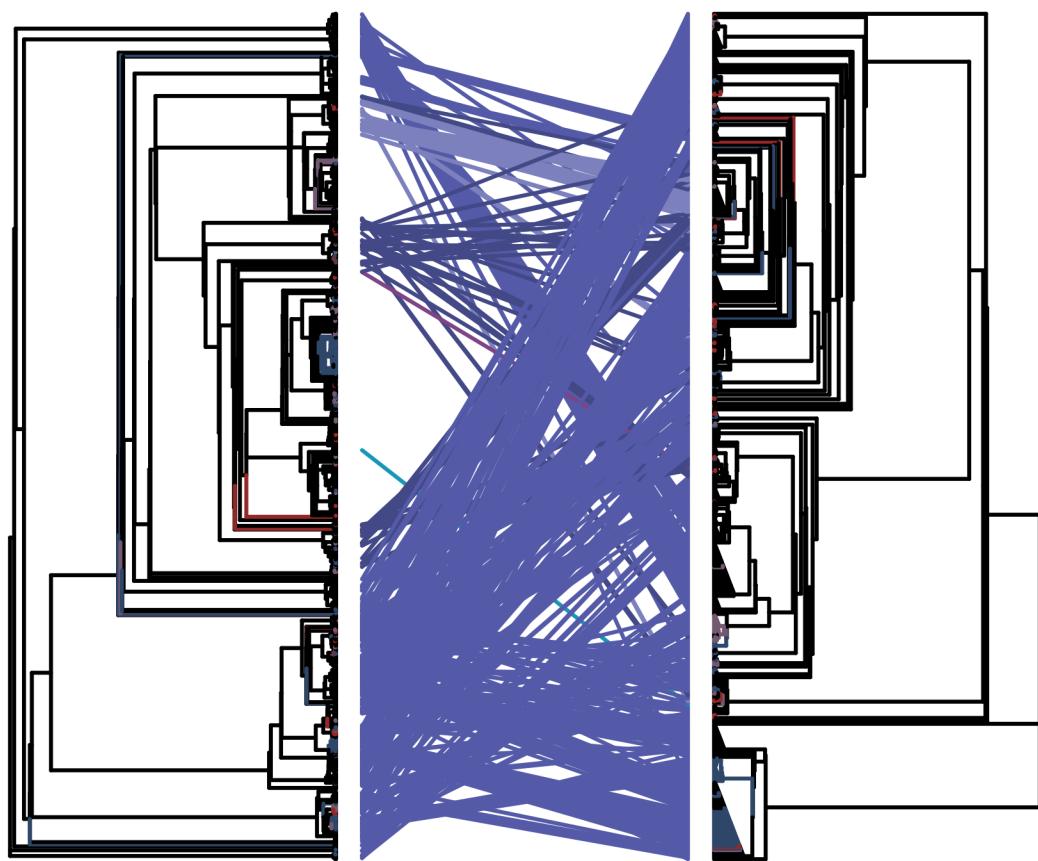


ST counts

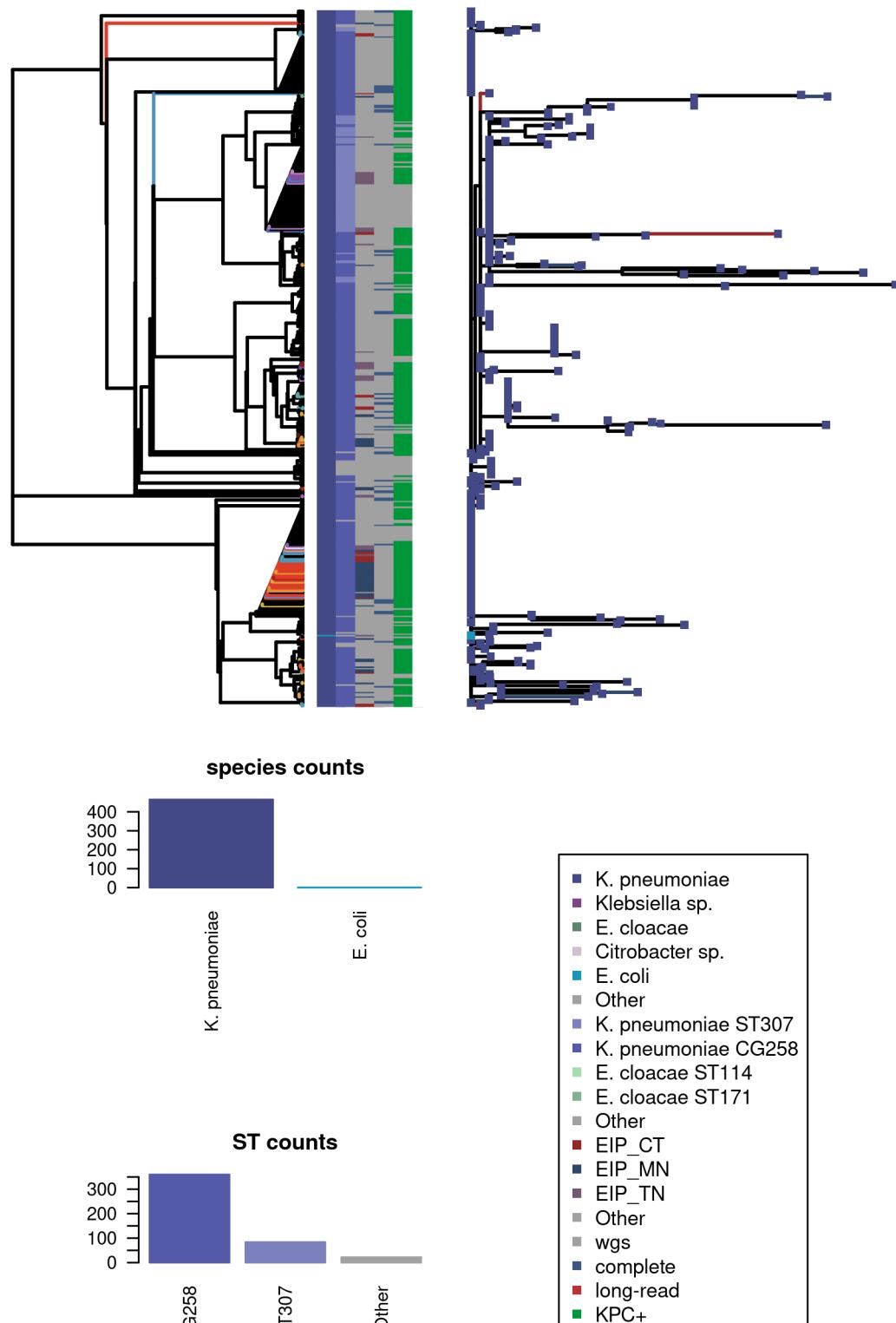


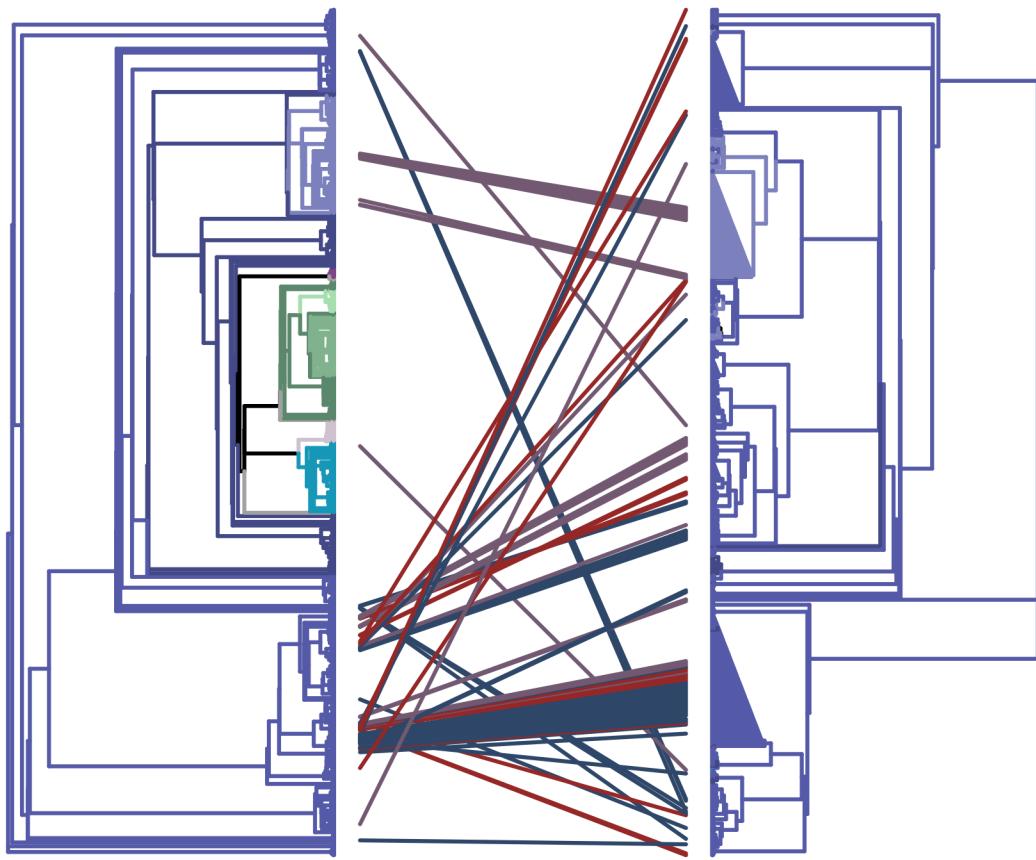
- K. pneumoniae
- Klebsiella sp.
- E. cloacae
- Citrobacter sp.
- E. coli
- Other
- K. pneumoniae ST307
- K. pneumoniae CG258
- E. cloacae ST114
- E. cloacae ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-

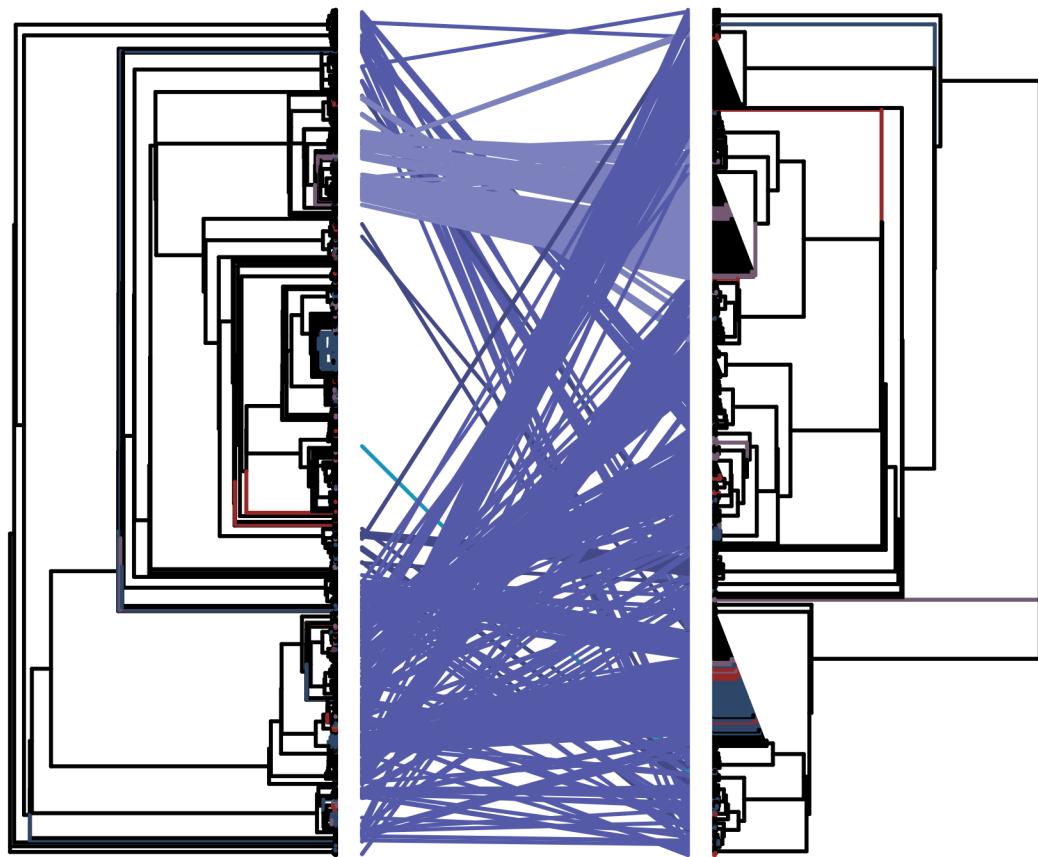




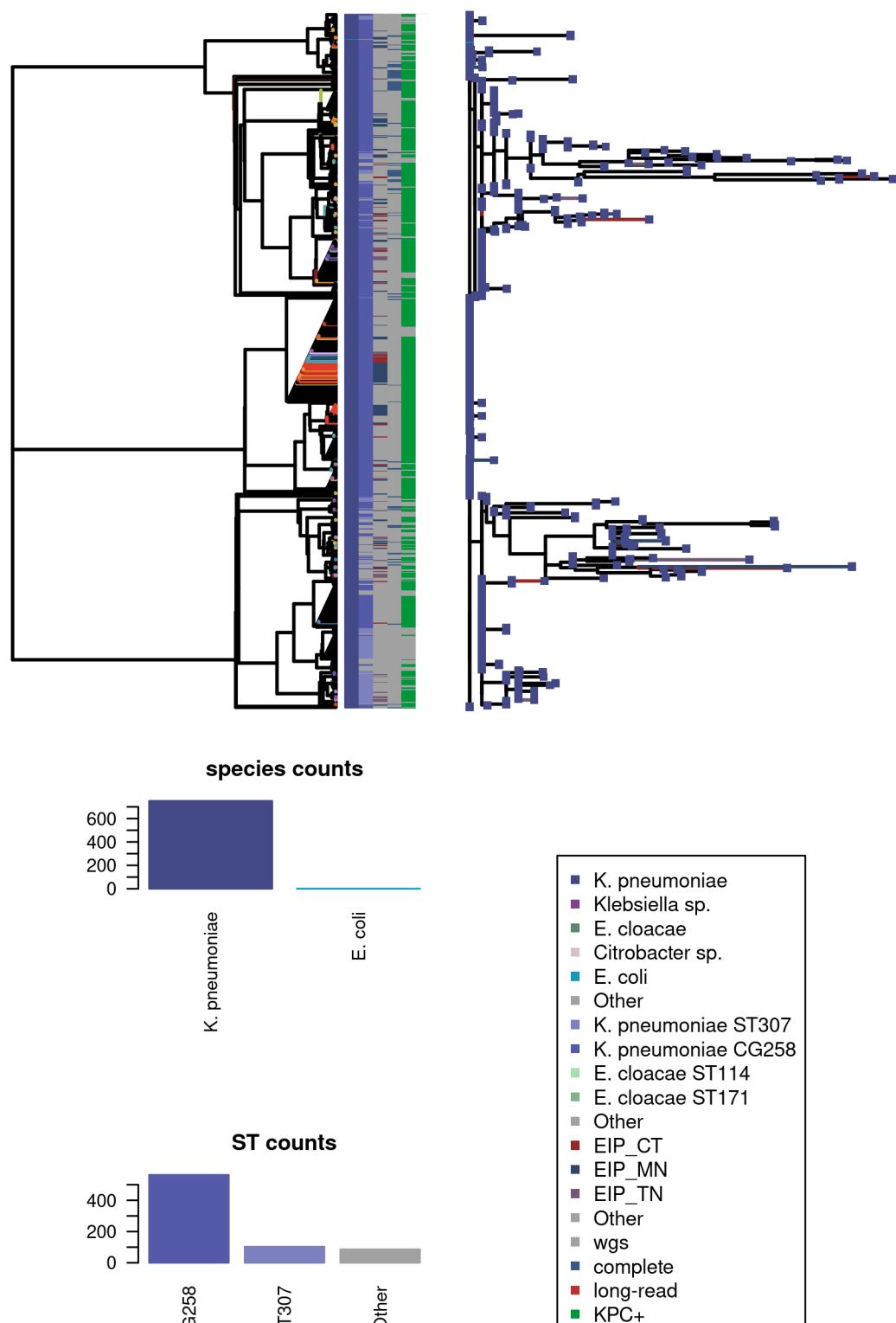
Gene cluster 6 concatenated gene tree

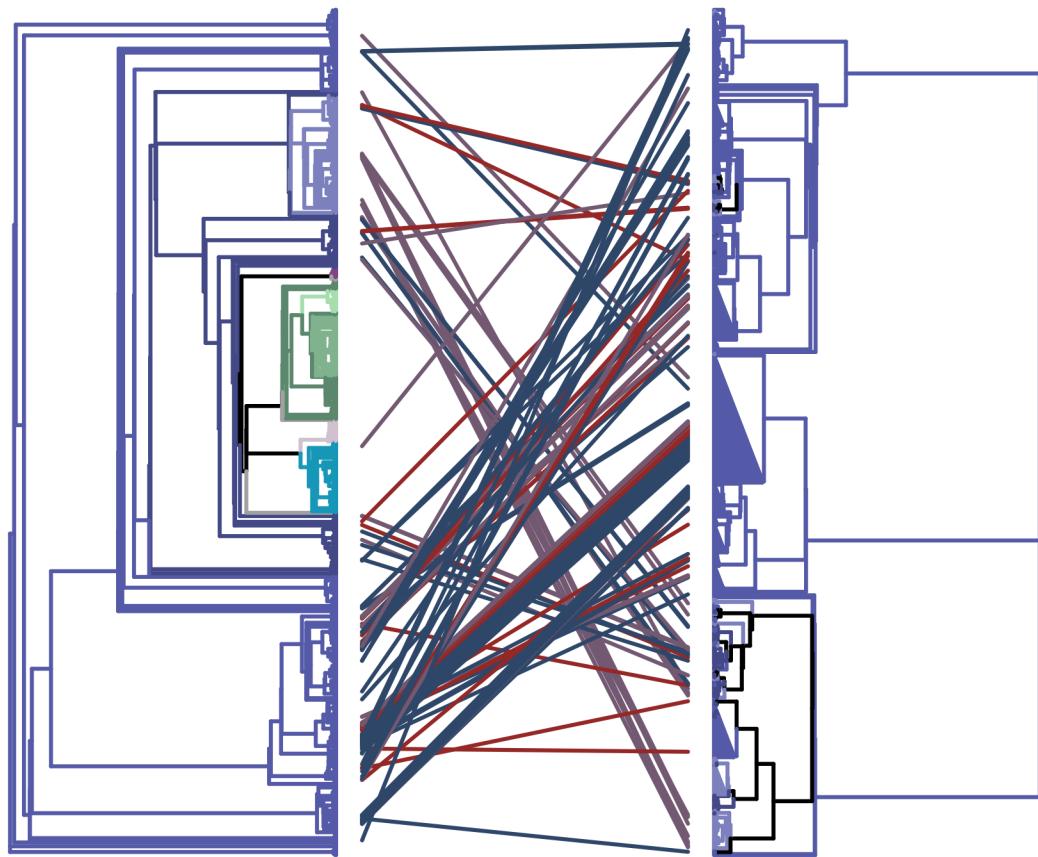


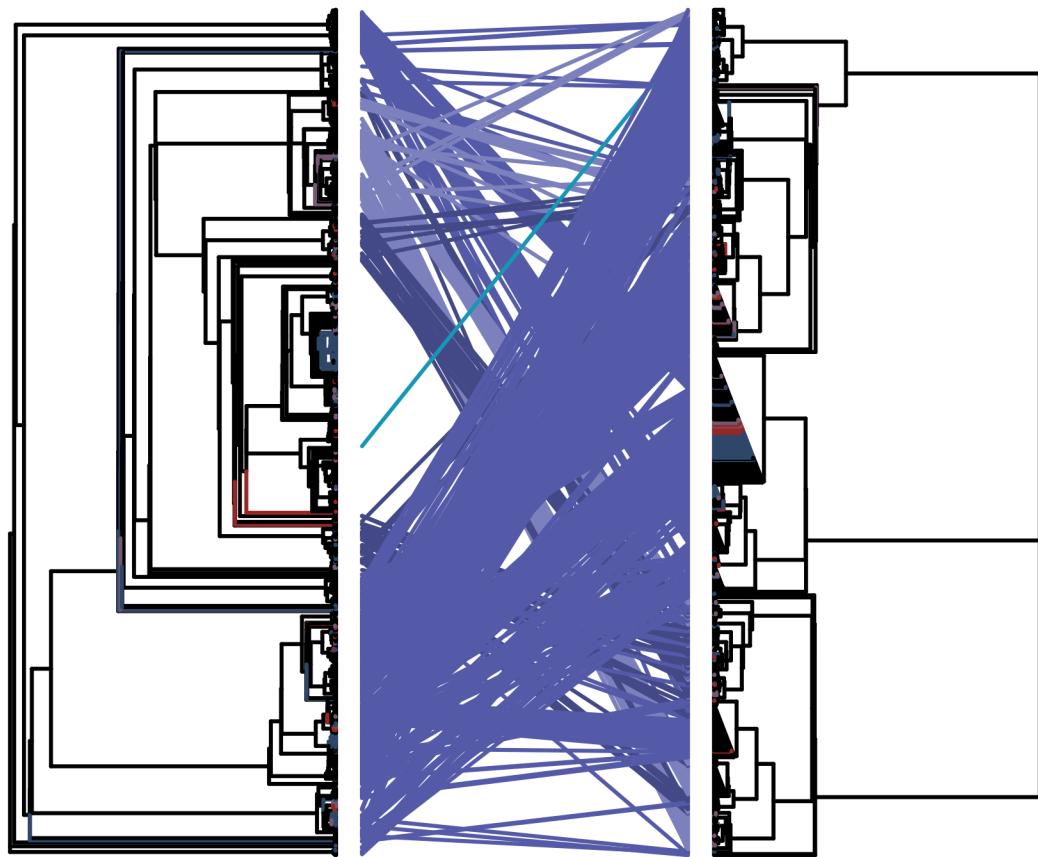




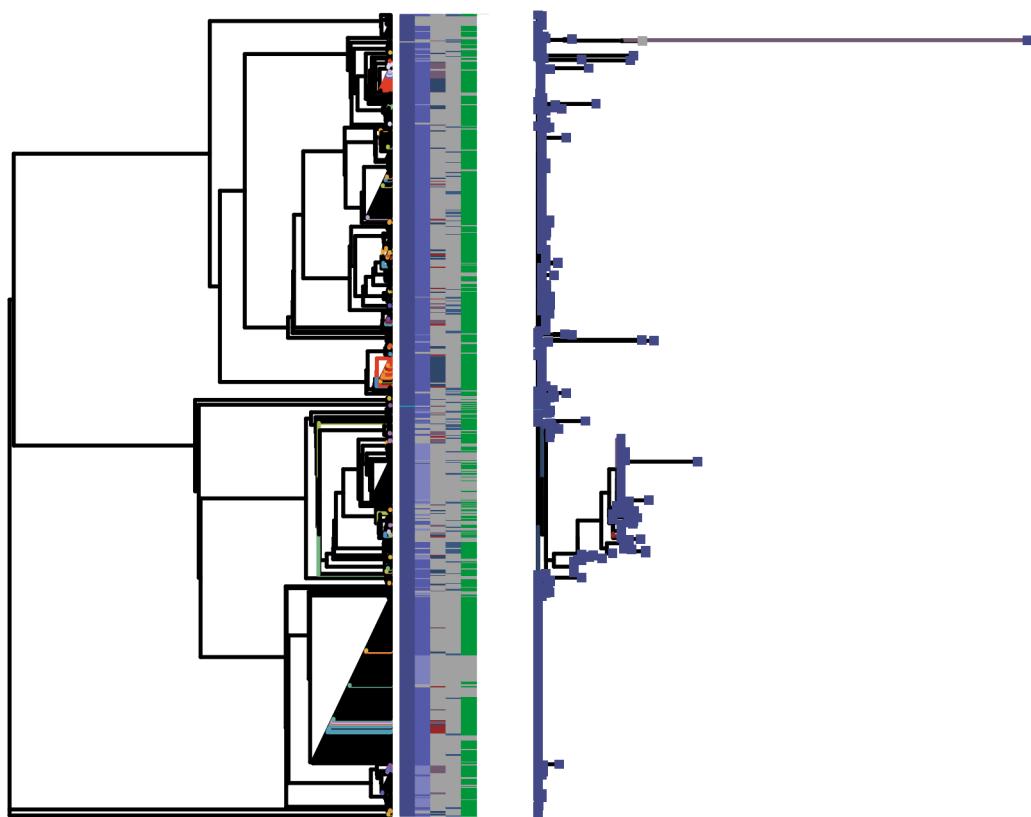
Gene cluster 7 concatenated gene tree



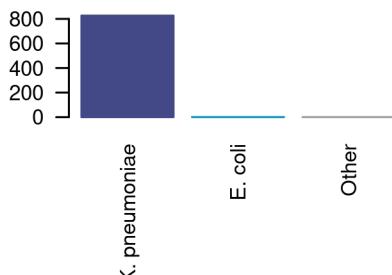




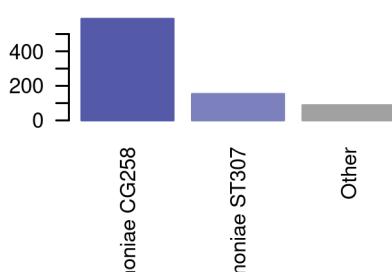
Gene cluster 8 concatenated gene tree



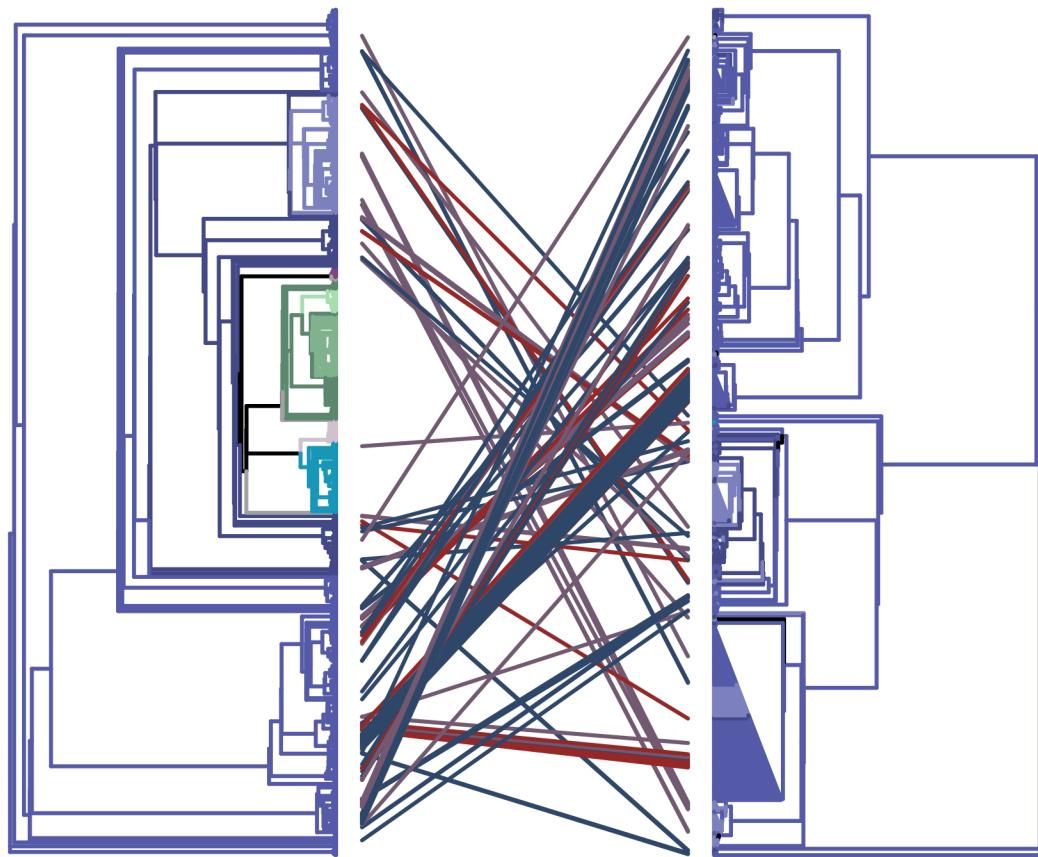
species counts

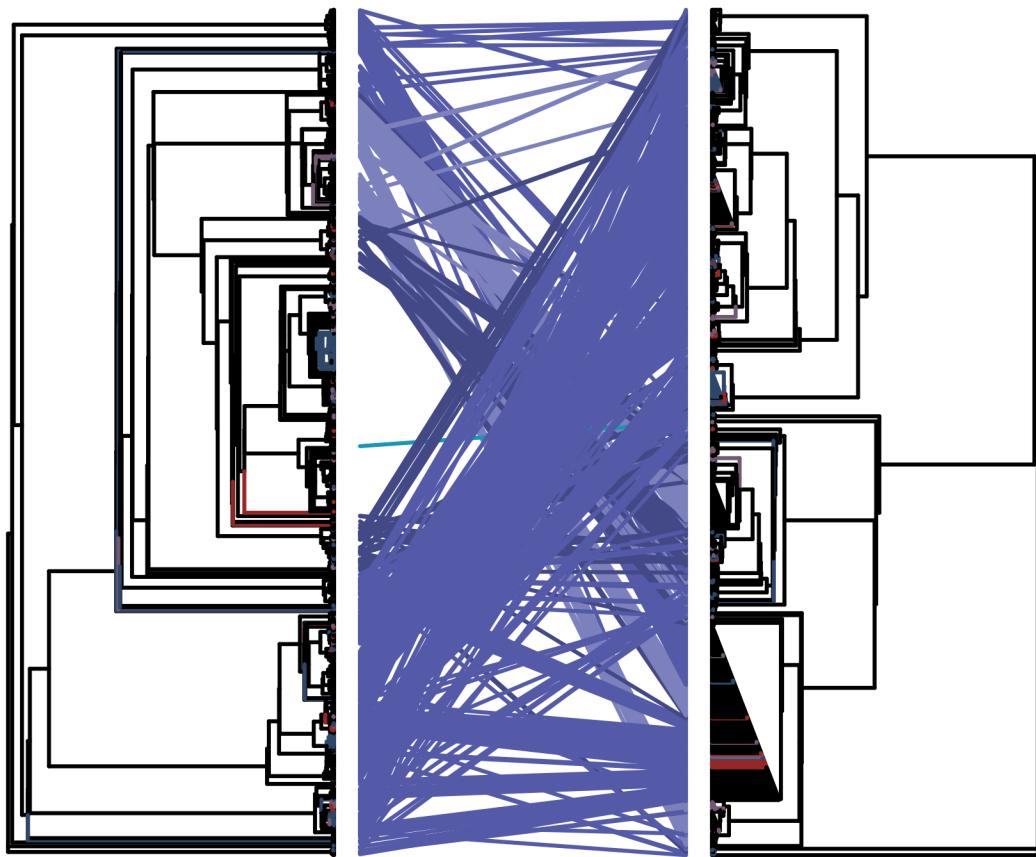


ST counts

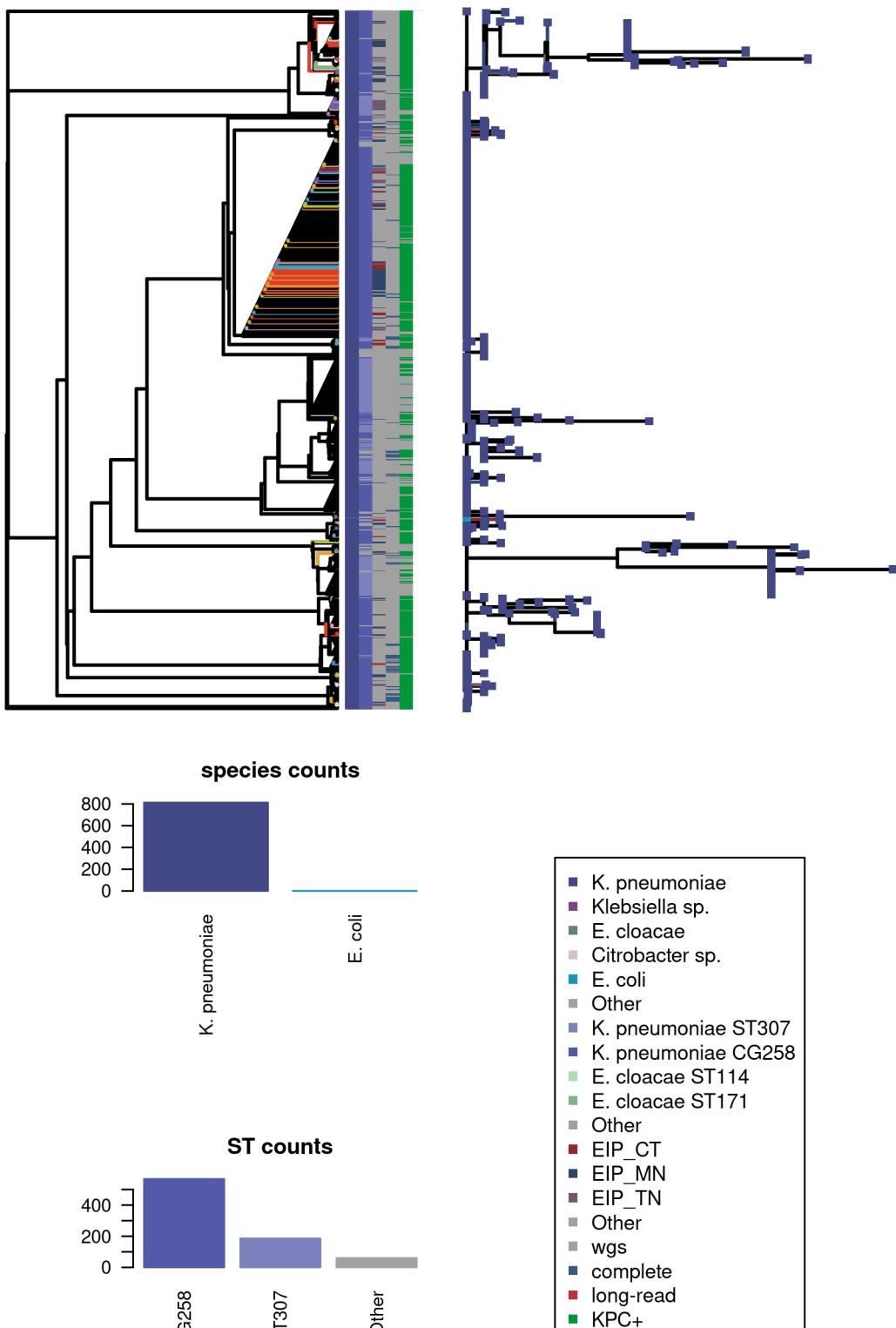


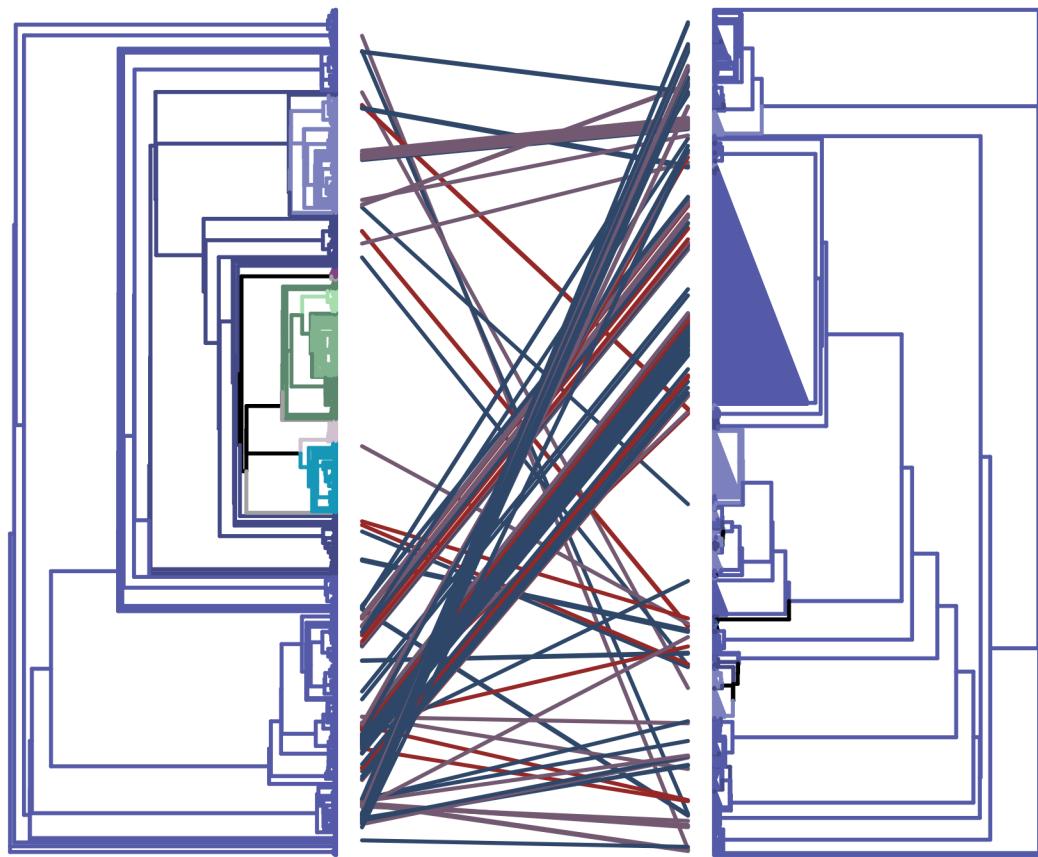
- K. pneumoniae
- Klebsiella sp.
- E. cloacae
- Citrobacter sp.
- E. coli
- Other
- K. pneumoniae ST307
- K. pneumoniae CG258
- E. cloacae ST114
- E. cloacae ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-

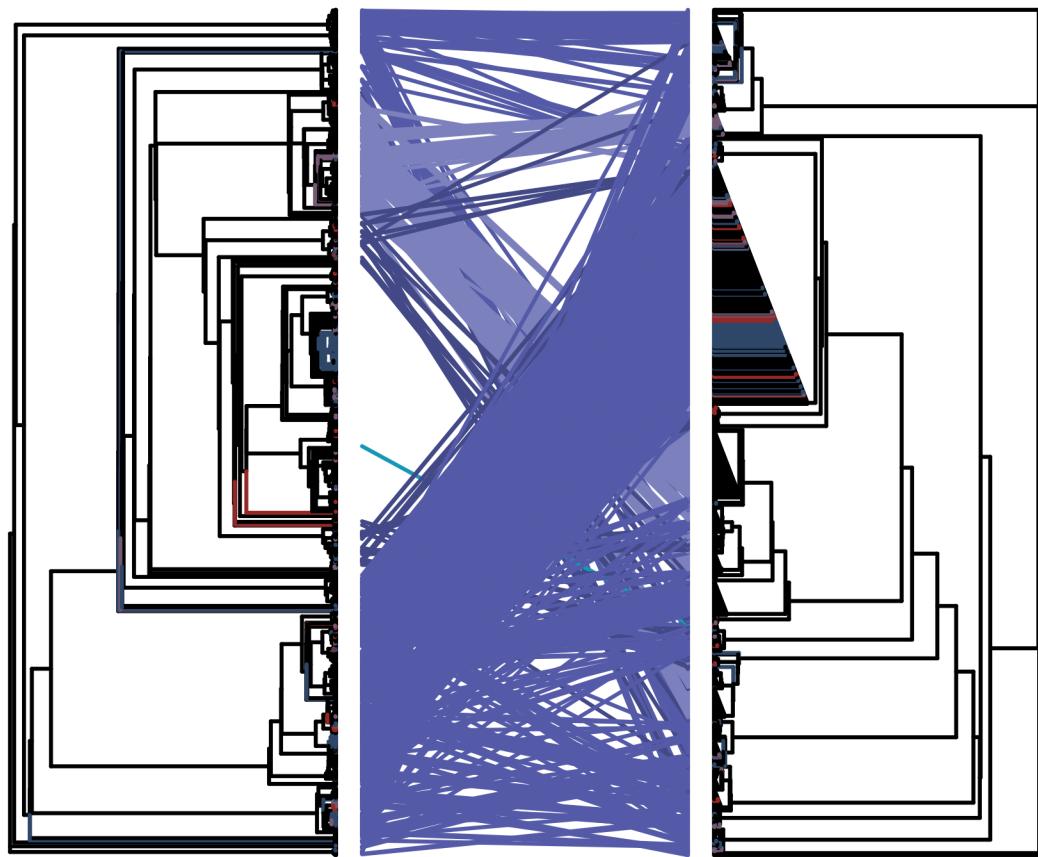




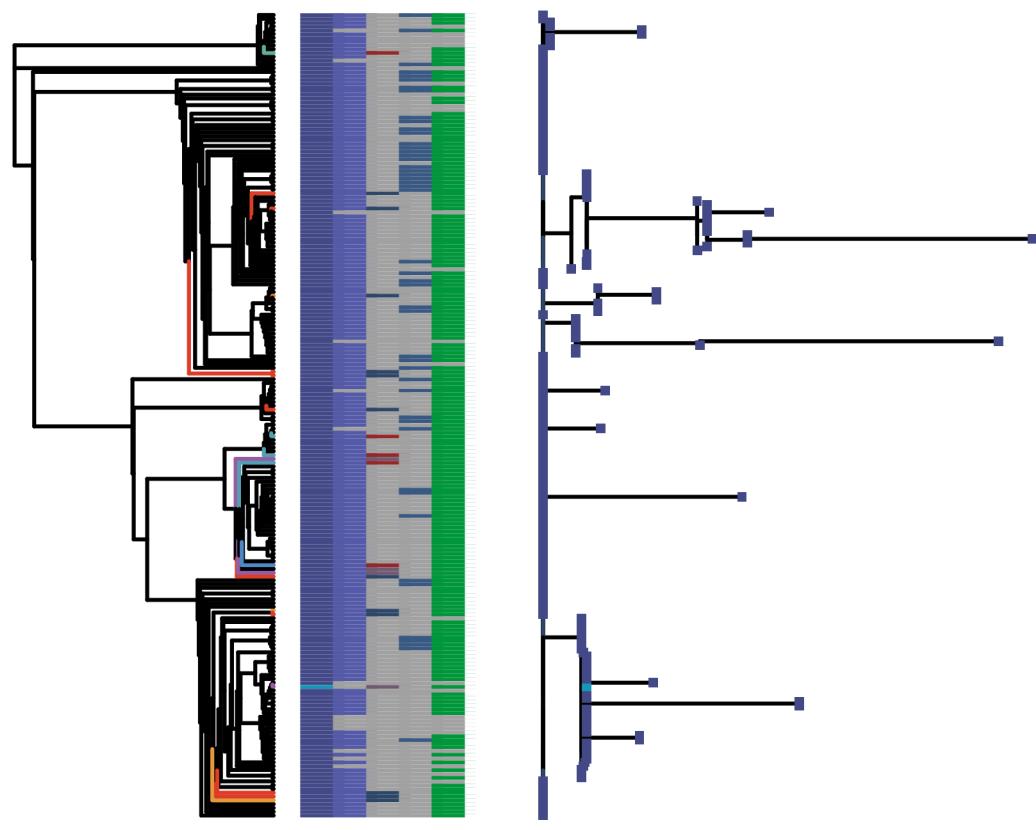
Gene cluster 9 concatenated gene tree







Gene cluster 10 concatenated gene tree

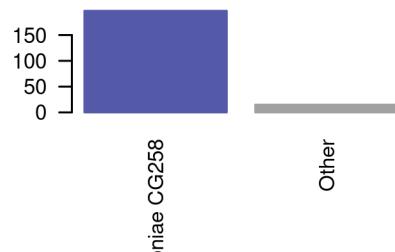


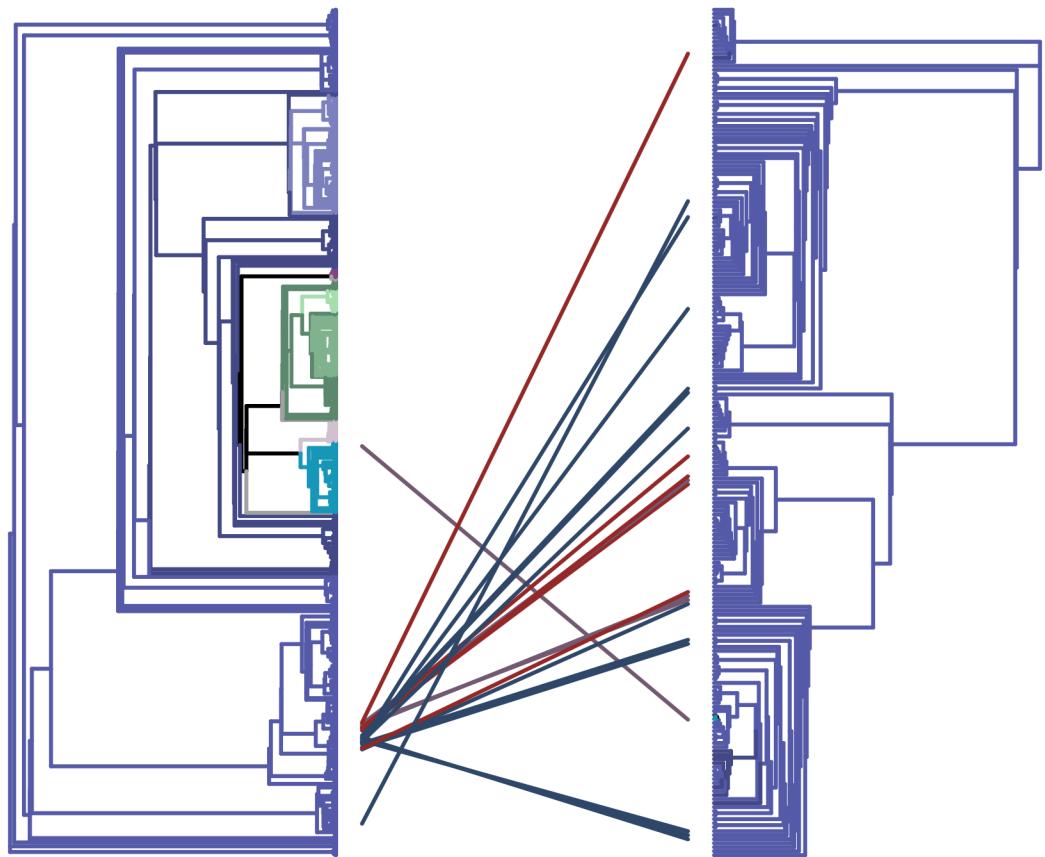
species counts

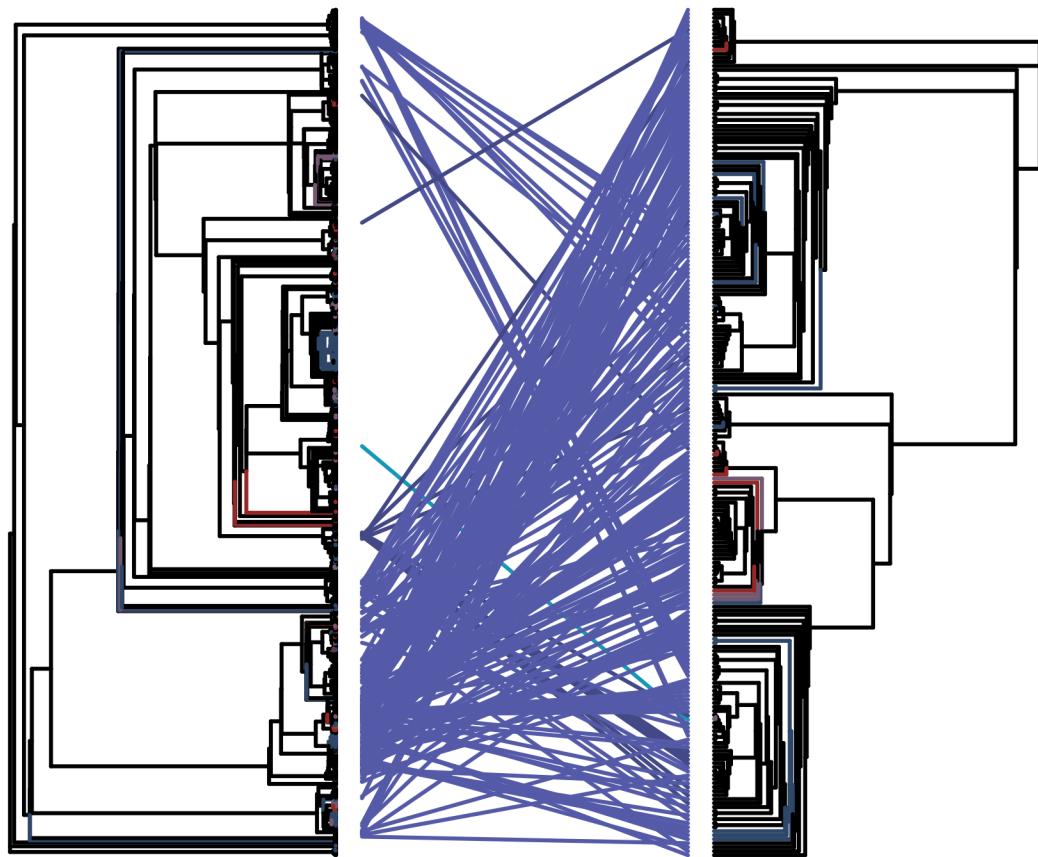


- K. pneumoniae
- Klebsiella sp.
- E. cloacae
- Citrobacter sp.
- E. coli
- Other
- K. pneumoniae ST307
- K. pneumoniae CG258
- E. cloacae ST114
- E. cloacae ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-

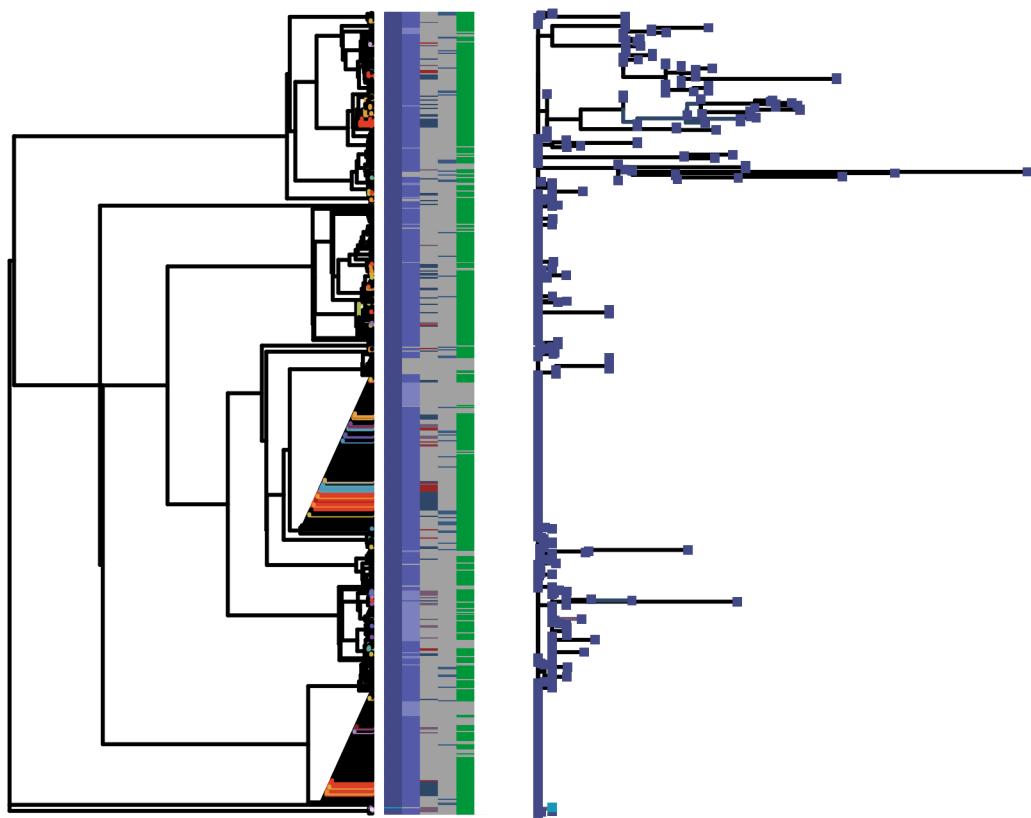
ST counts







Gene cluster 11 concatenated gene tree



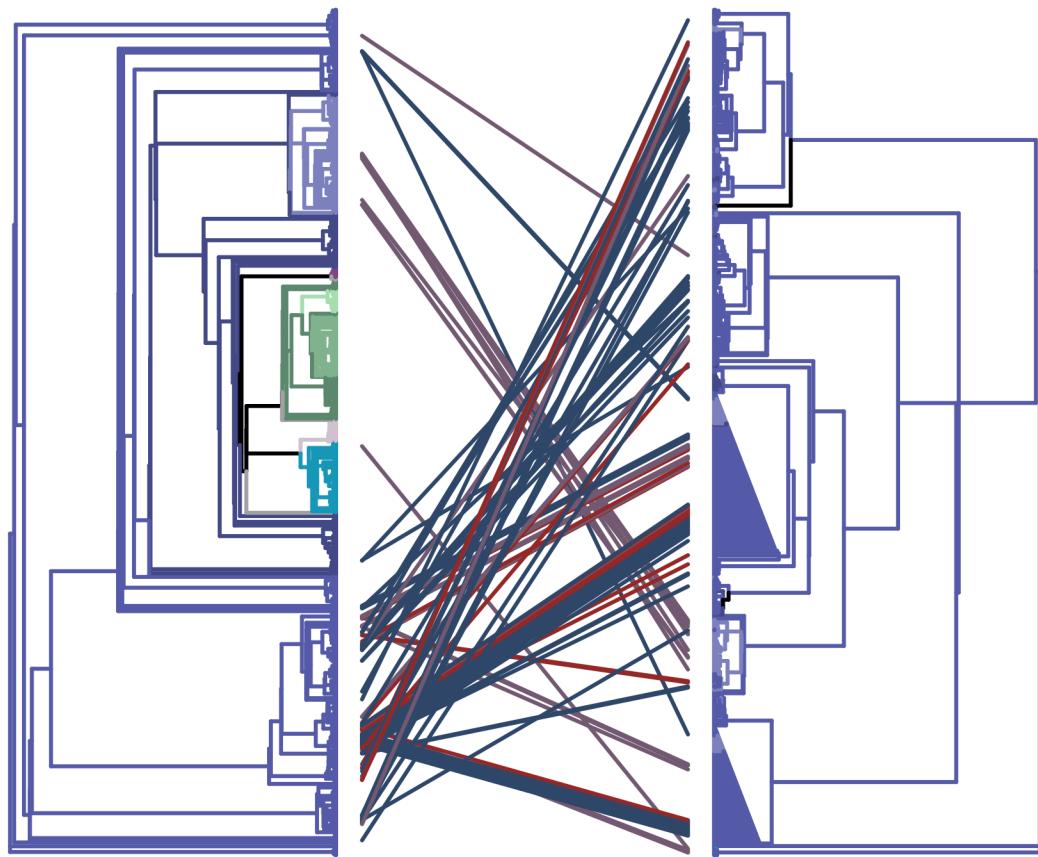
species counts

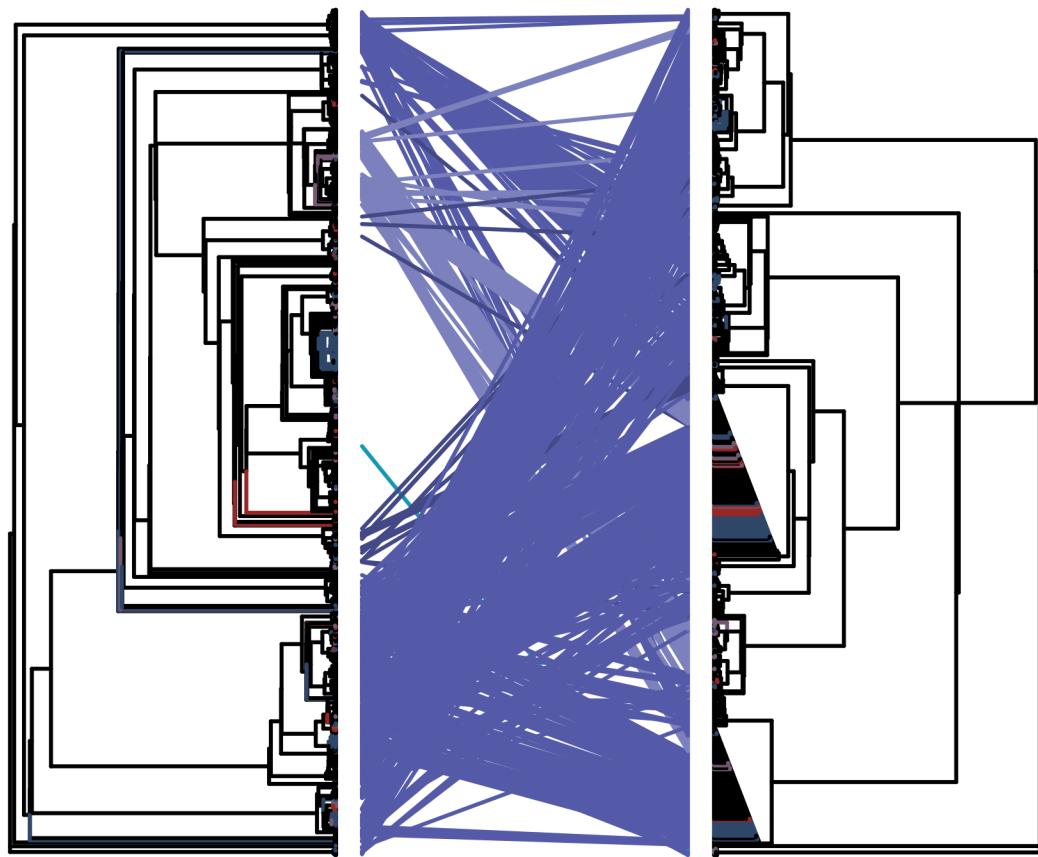


- K. pneumoniae
- Klebsiella sp.
- E. cloacae
- Citrobacter sp.
- E. coli
- Other
- K. pneumoniae ST307
- K. pneumoniae CG258
- E. cloacae ST114
- E. cloacae ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-

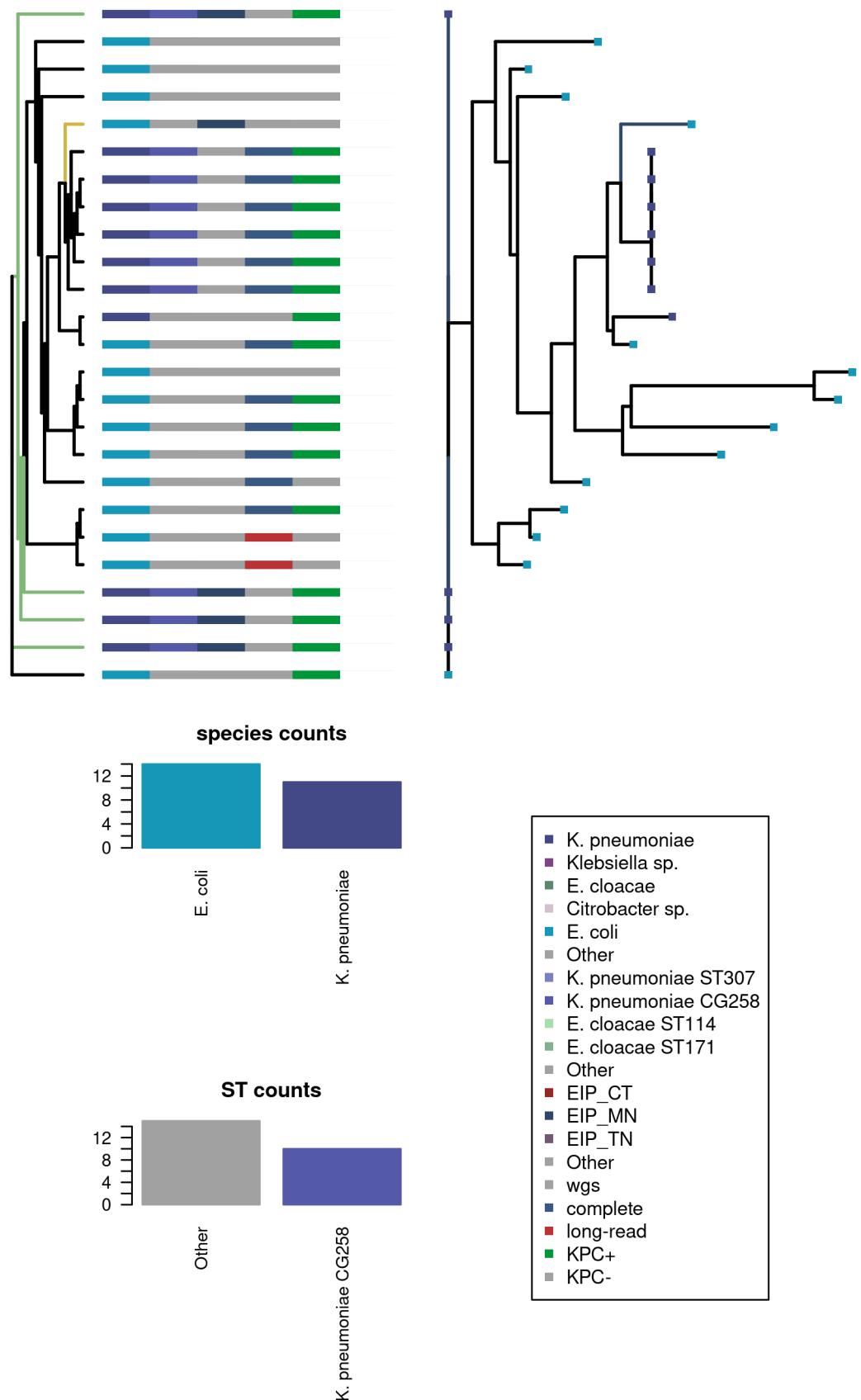
ST counts

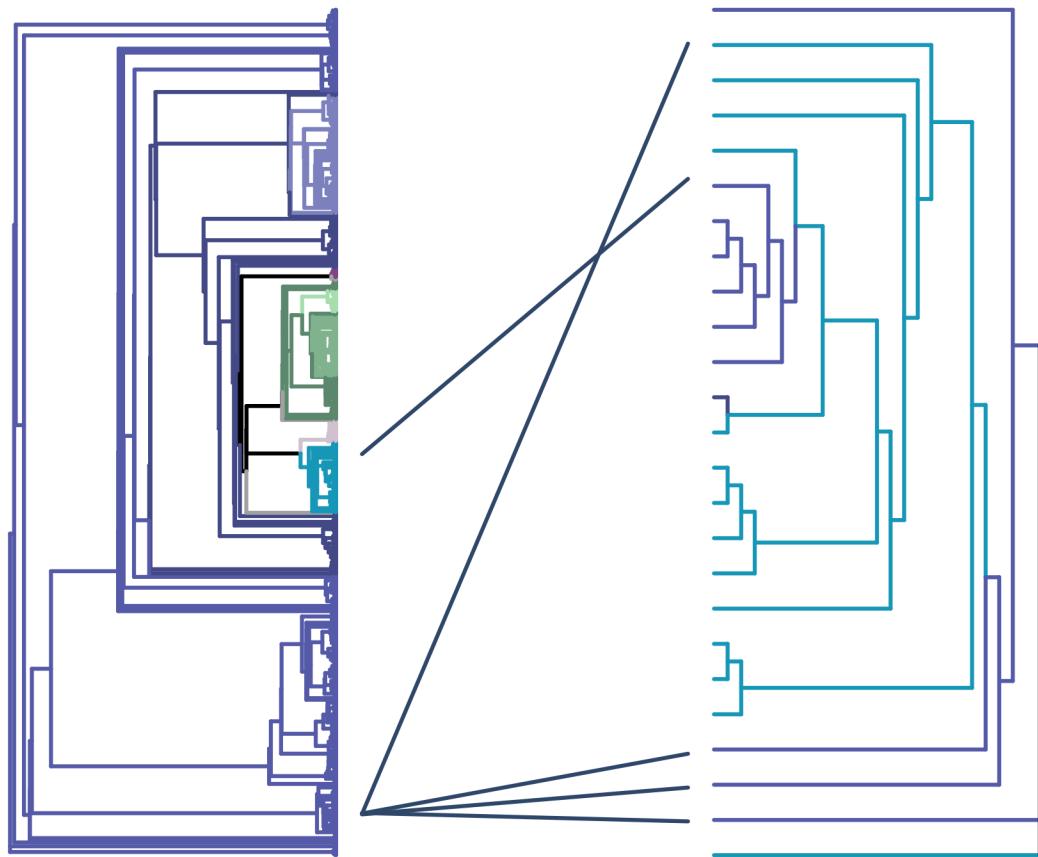


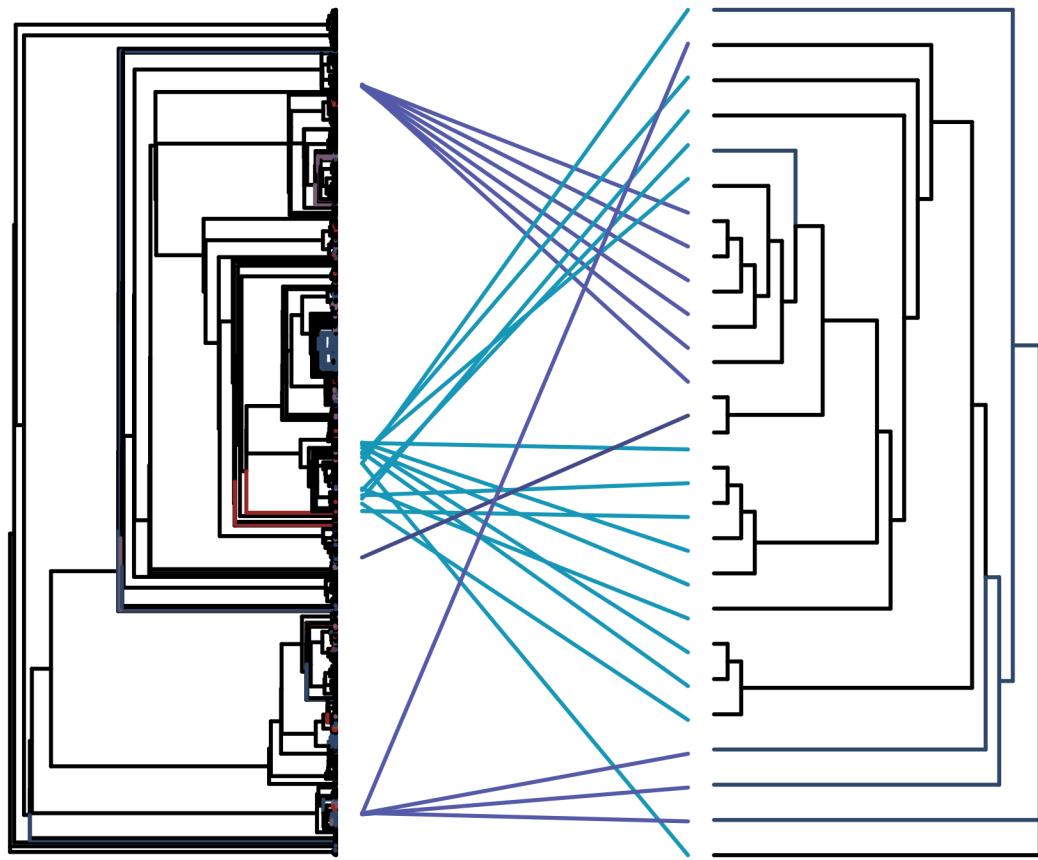




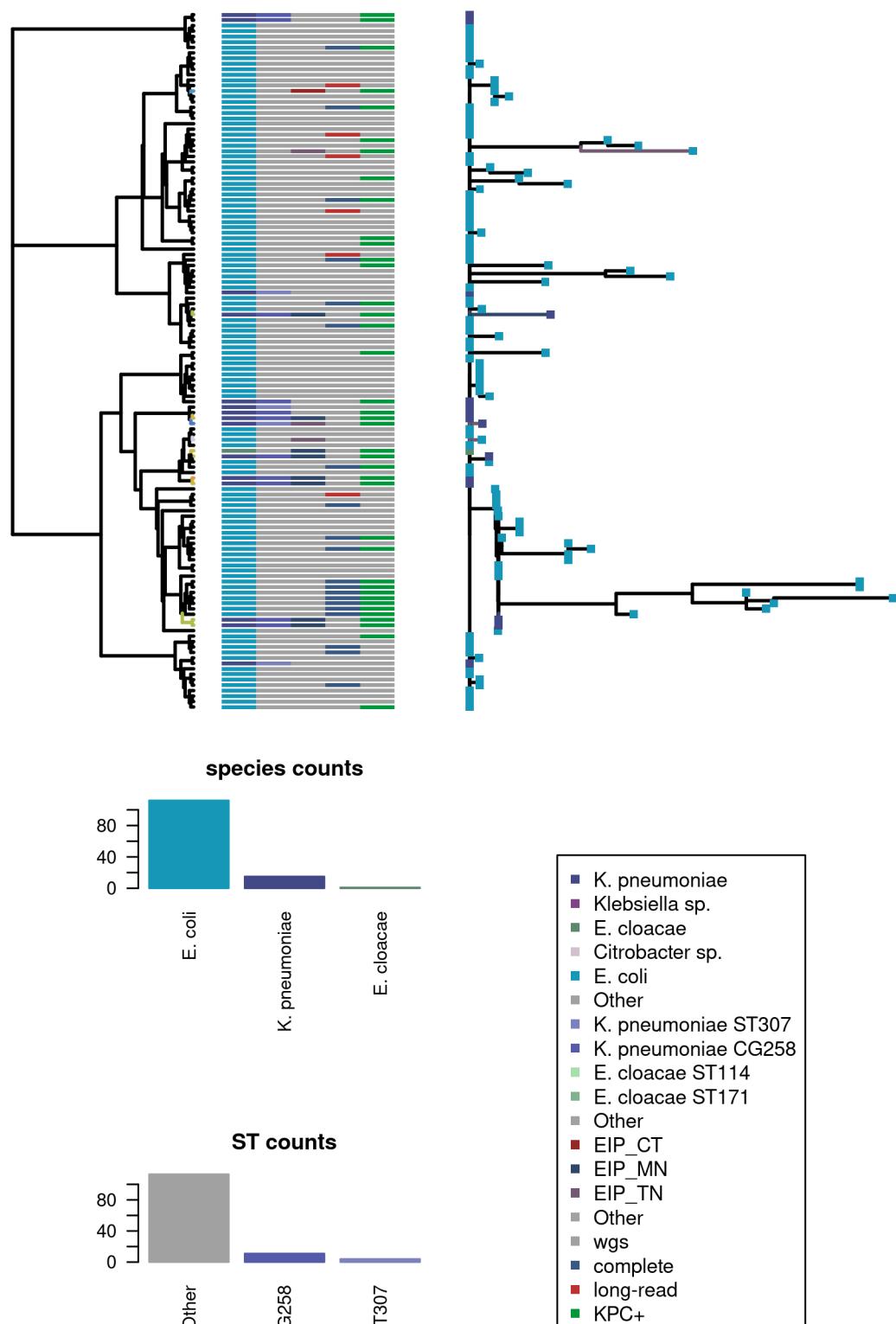
Gene cluster 12 concatenated gene tree

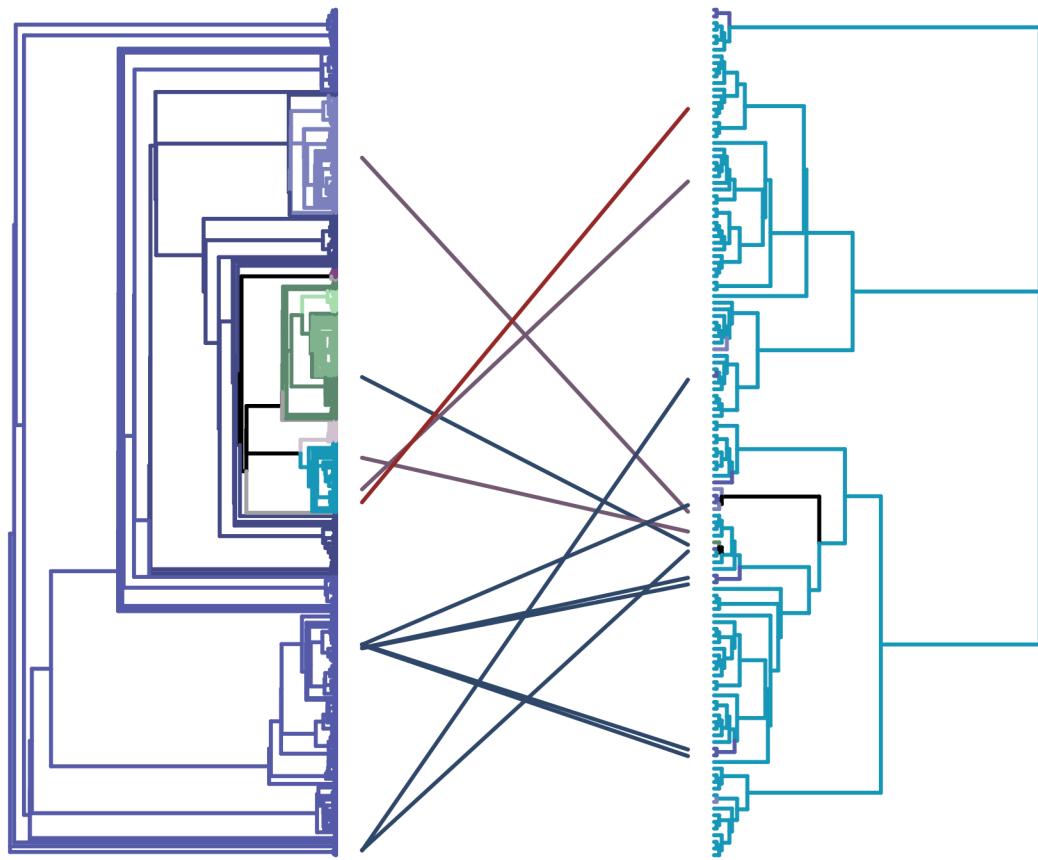


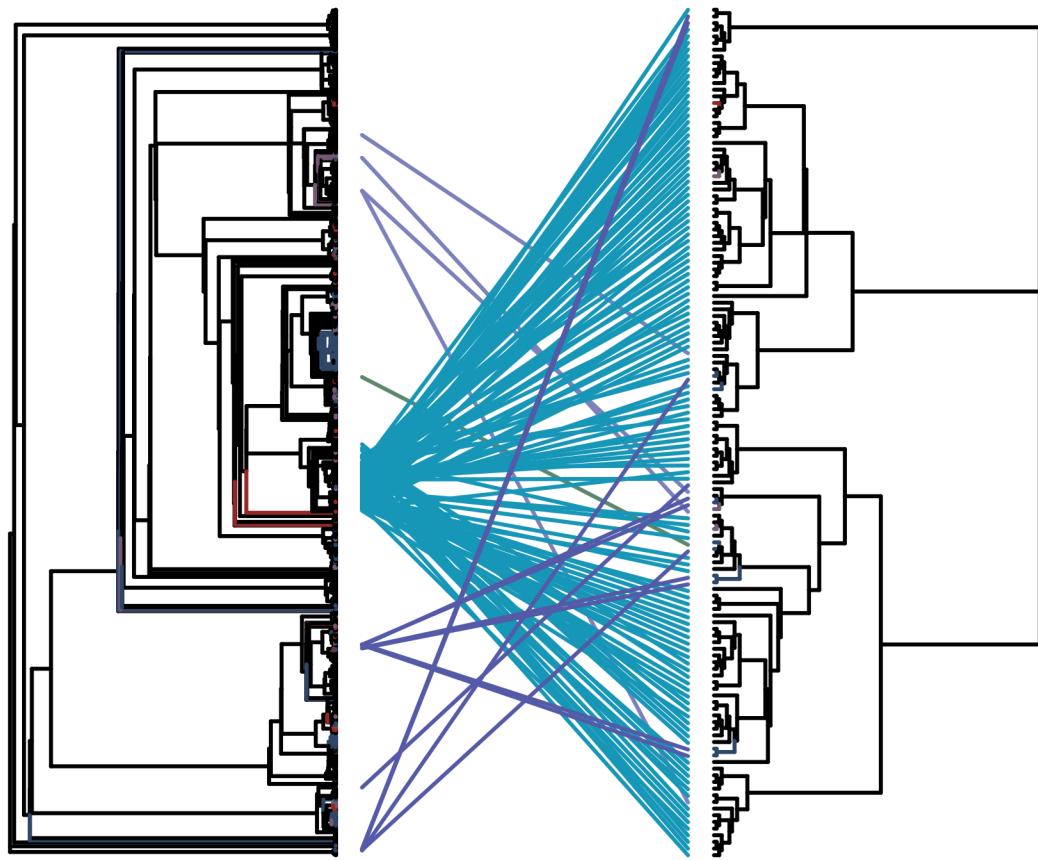




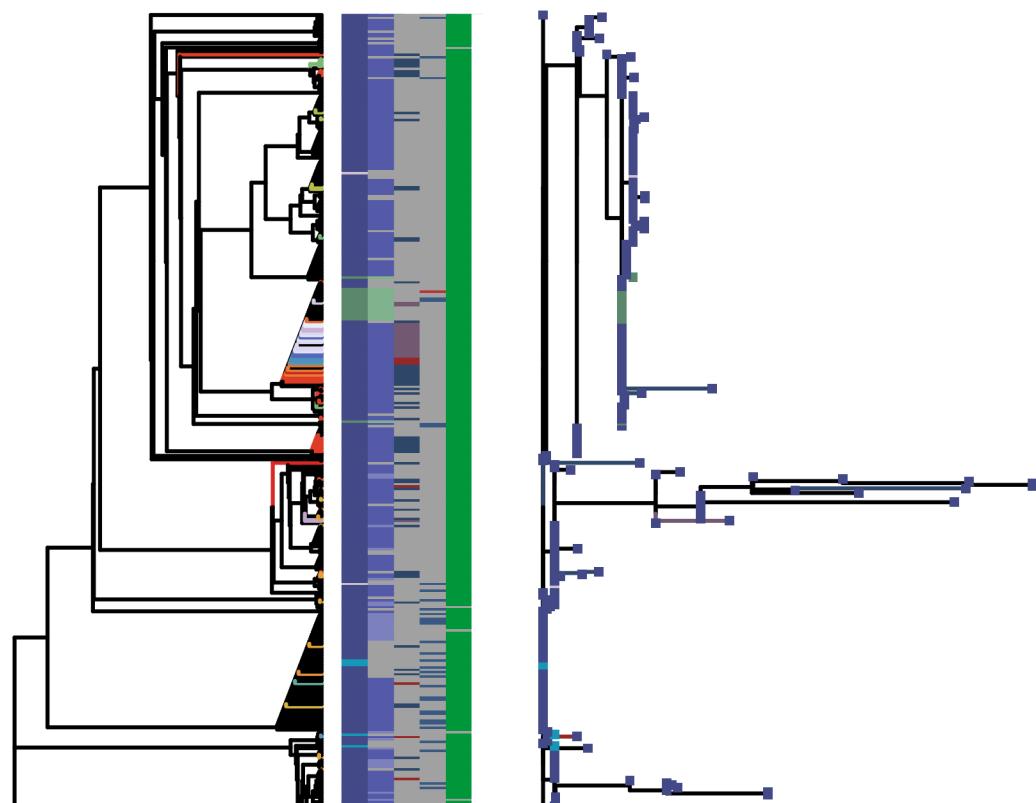
Gene cluster 13 concatenated gene tree



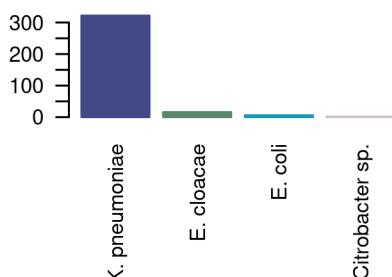




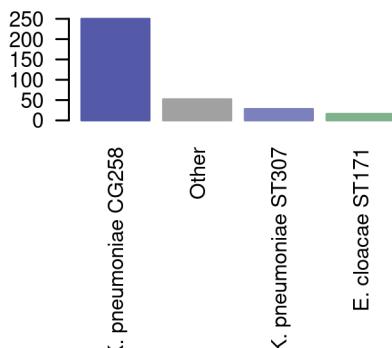
Gene cluster 14 concatenated gene tree



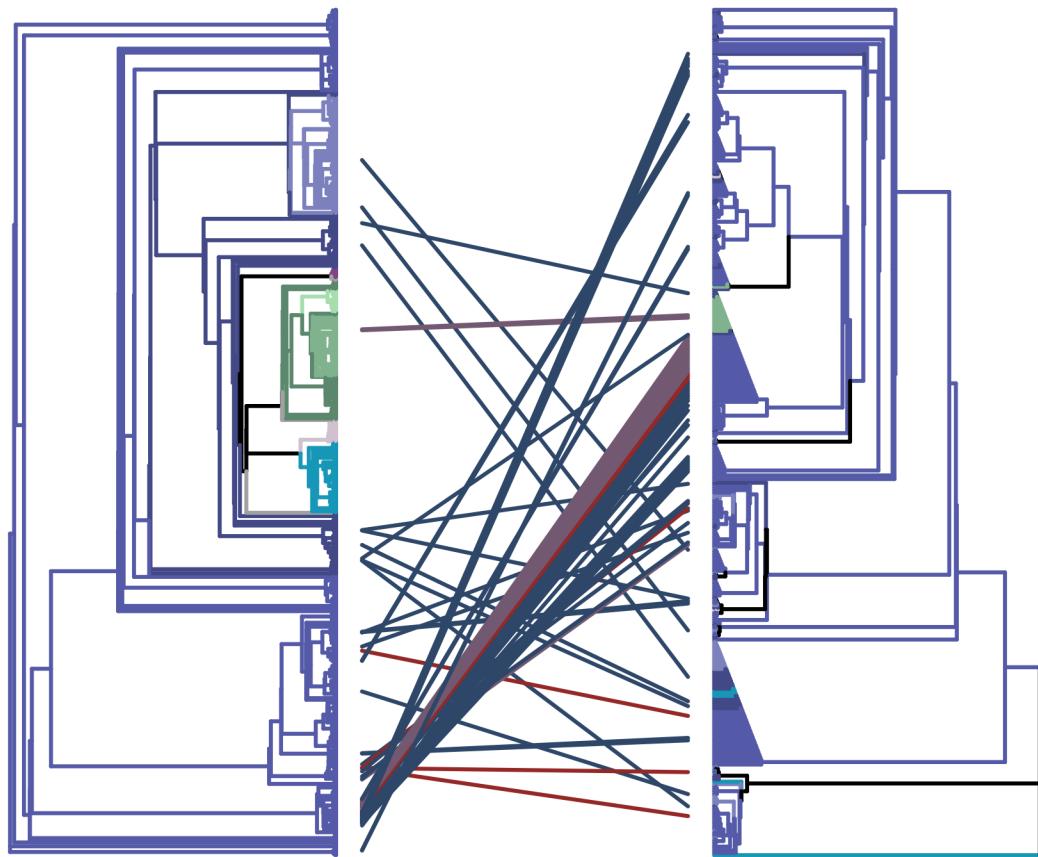
species counts

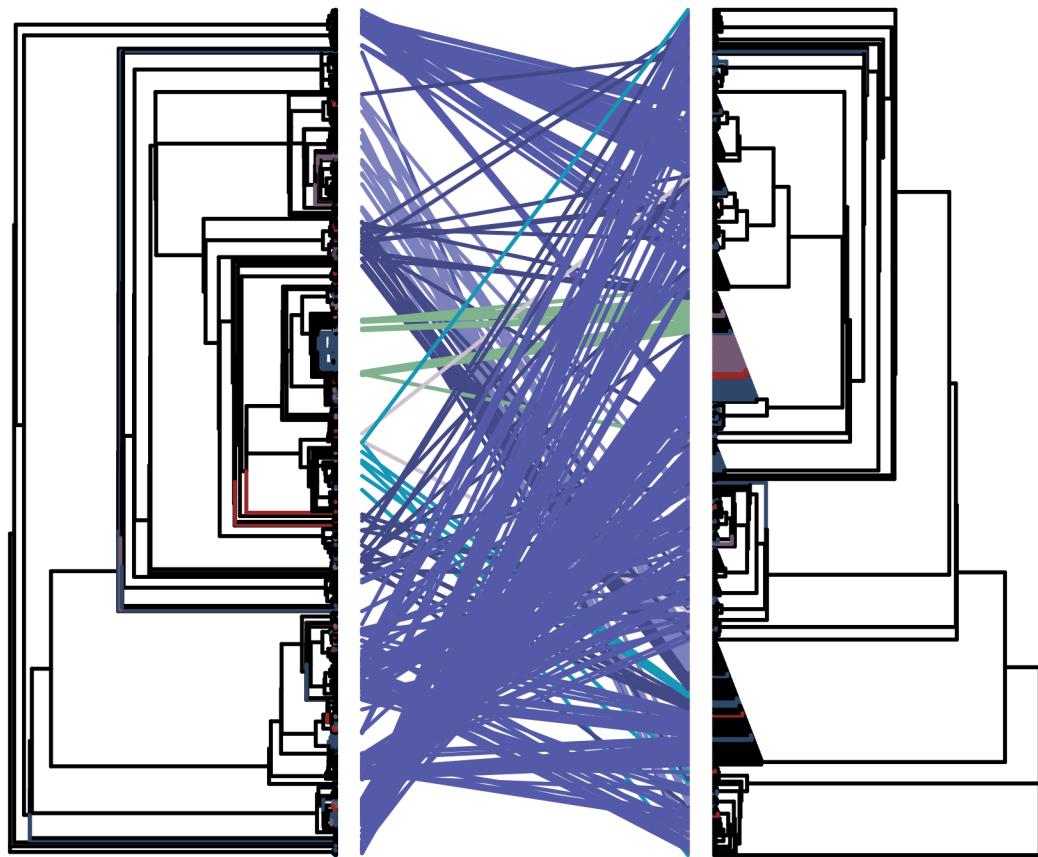


ST counts

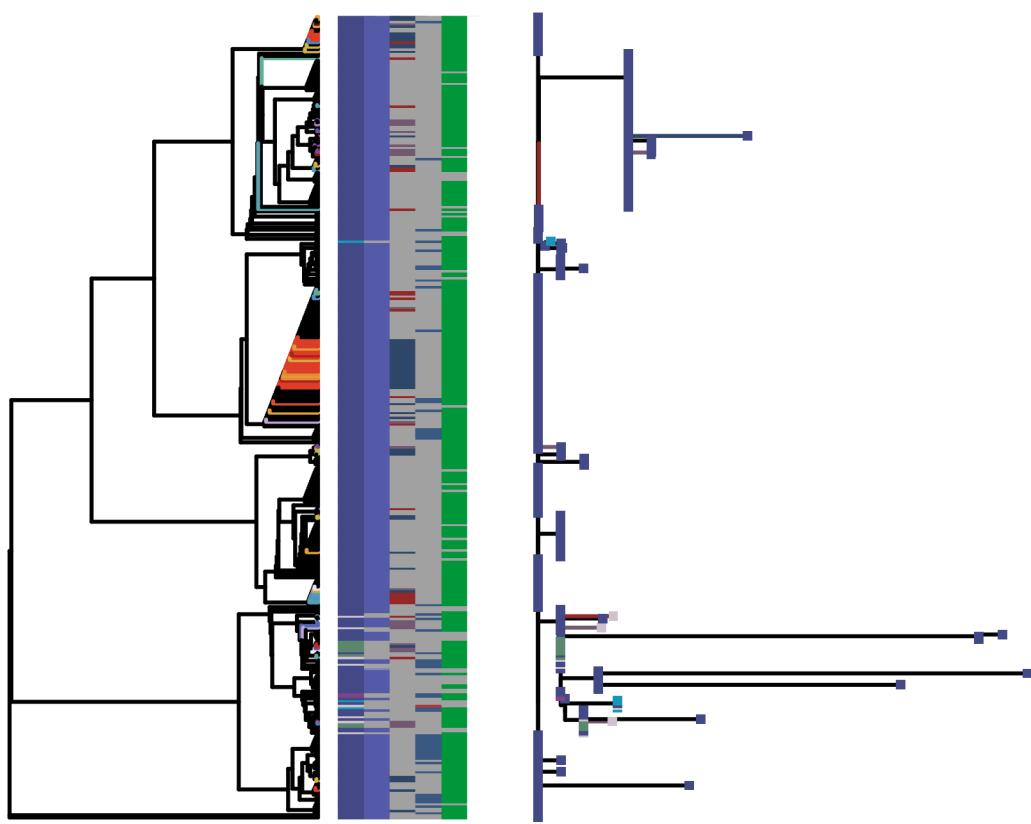


- K. pneumoniae
- Klebsiella sp.
- E. cloacae
- Citrobacter sp.
- E. coli
- Other
- K. pneumoniae ST307
- K. pneumoniae CG258
- E. cloacae ST114
- E. cloacae ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-

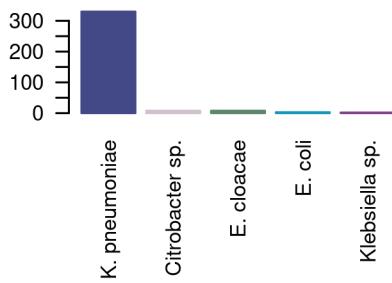




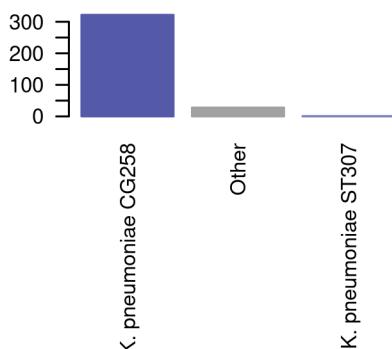
Gene cluster 15 concatenated gene tree



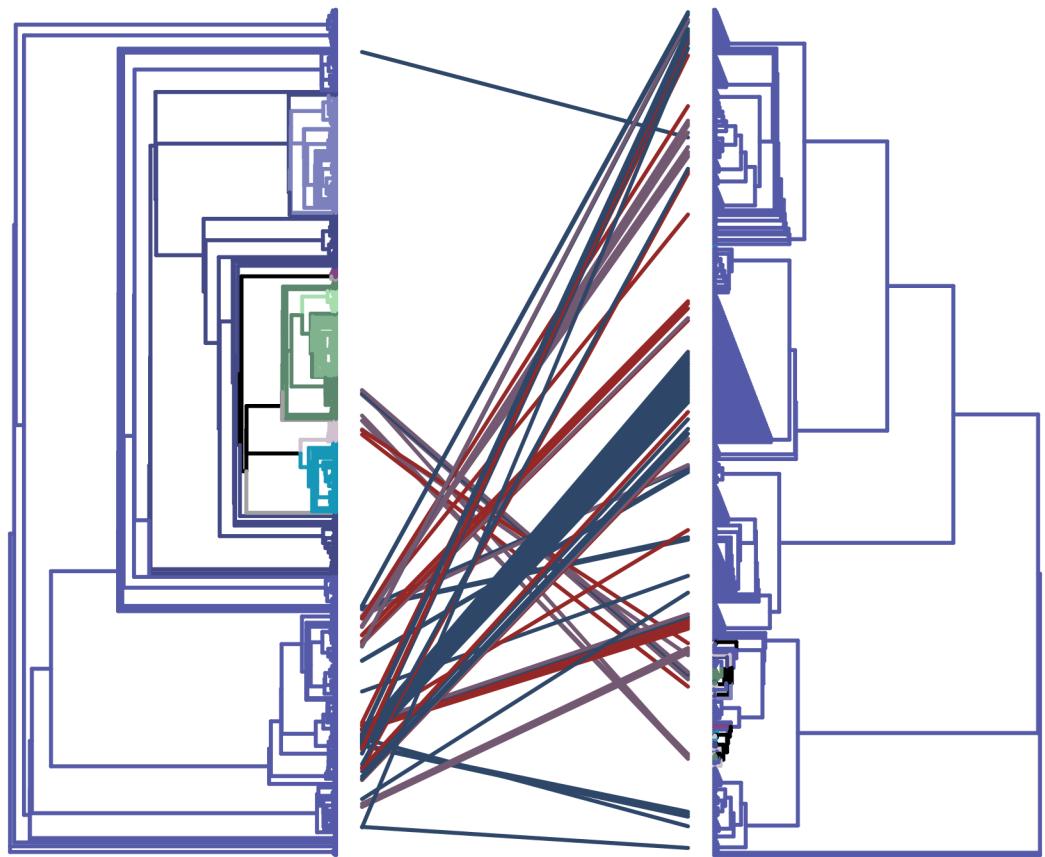
species counts

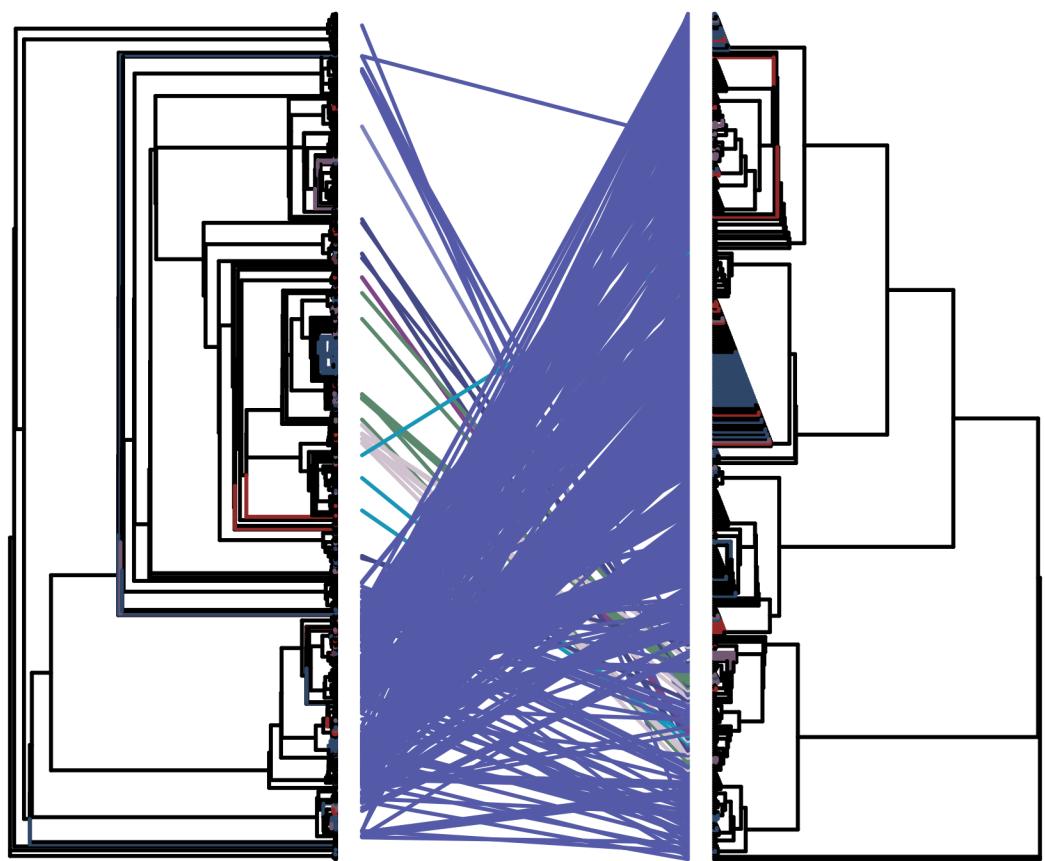


ST counts

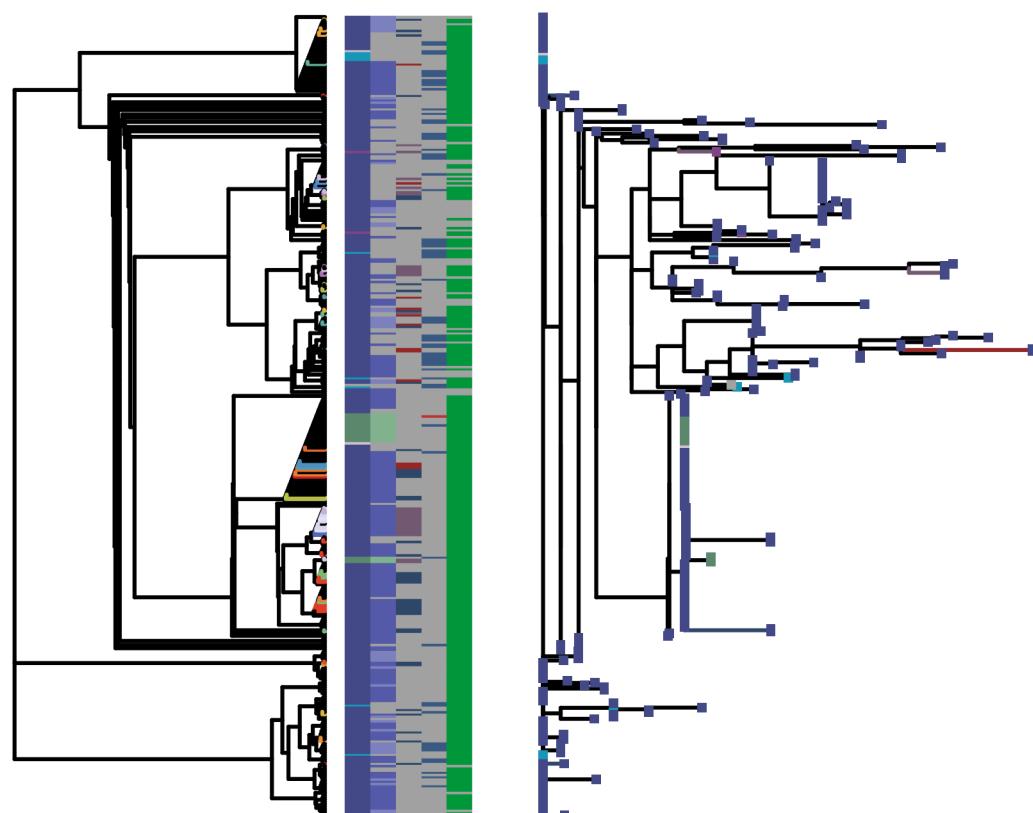


- *K. pneumoniae*
- *Klebsiella* sp.
- *E. cloacae*
- *Citrobacter* sp.
- *E. coli*
- Other
- *K. pneumoniae* ST307
- *K. pneumoniae* CG258
- *E. cloacae* ST114
- *E. cloacae* ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-

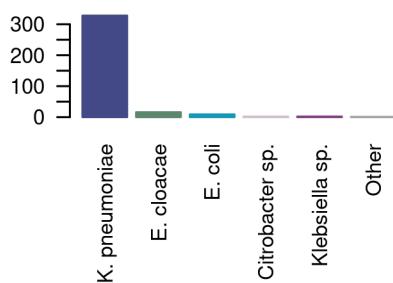




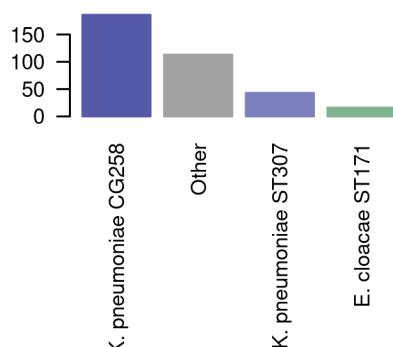
Gene cluster 16 concatenated gene tree



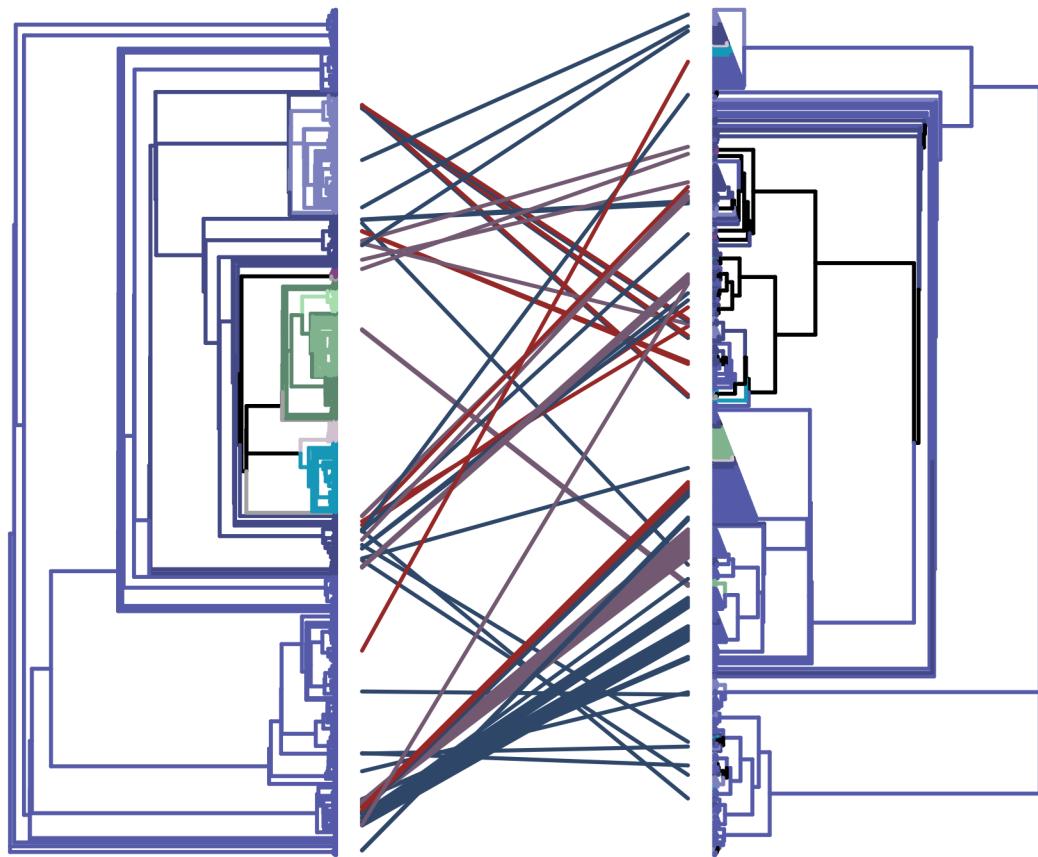
species counts

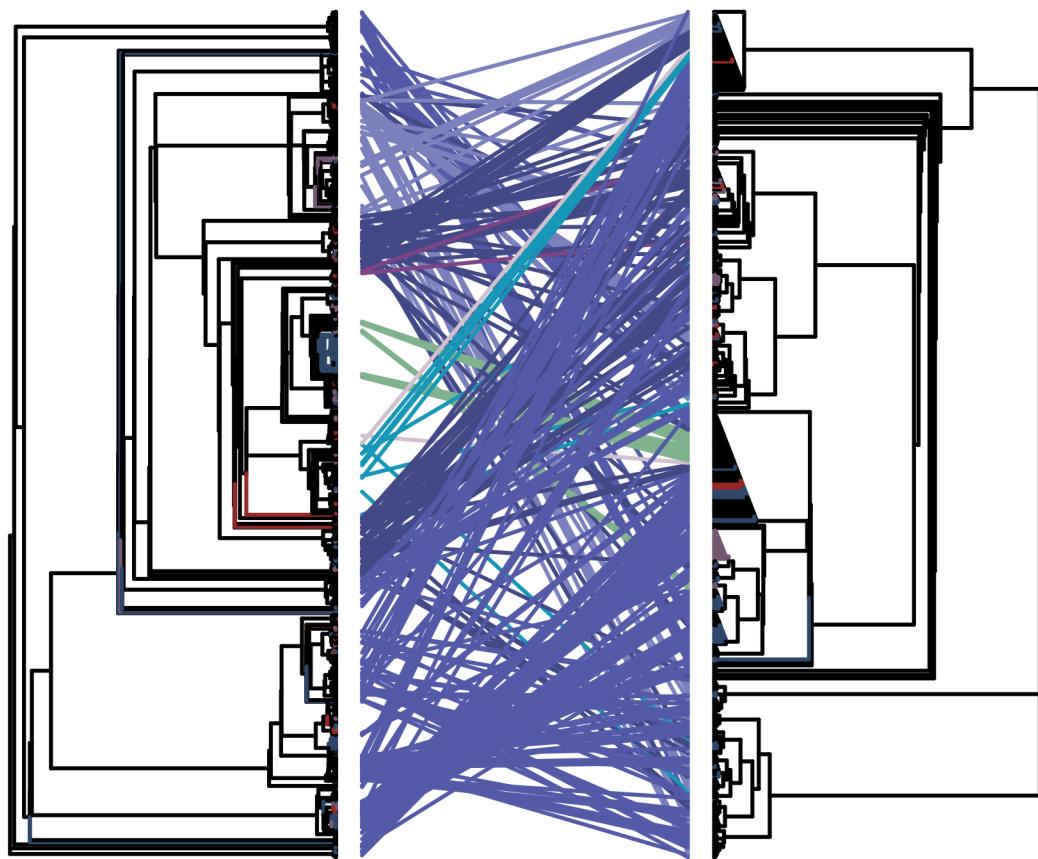


ST counts

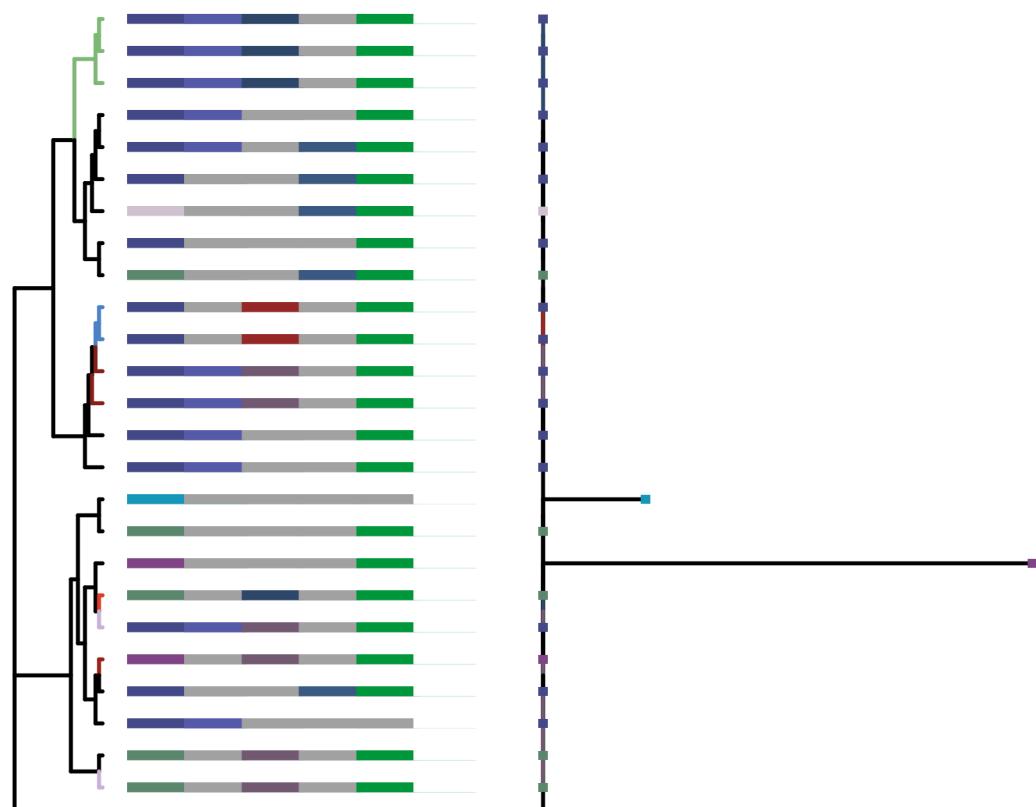


- *K. pneumoniae*
- *Klebsiella* sp.
- *E. cloacae*
- *Citrobacter* sp.
- *E. coli*
- Other
- *K. pneumoniae* ST307
- *K. pneumoniae* CG258
- *E. cloacae* ST114
- *E. cloacae* ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-

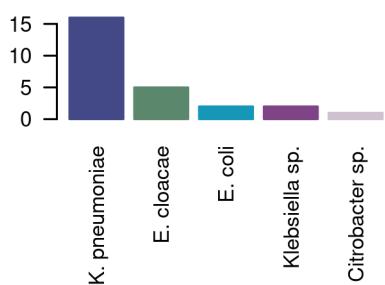




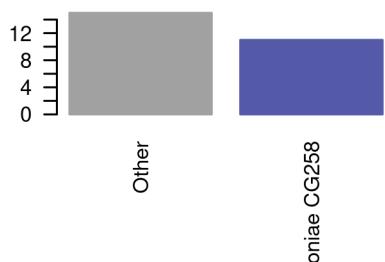
Gene cluster 17 concatenated gene tree



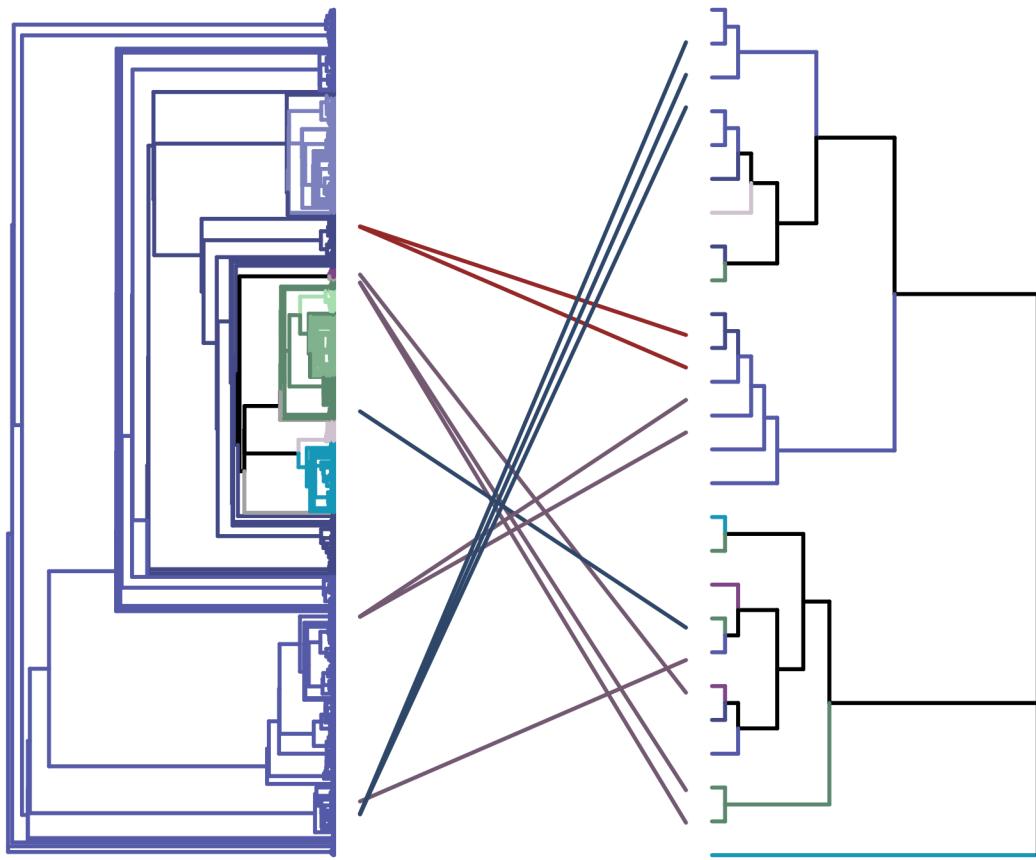
species counts

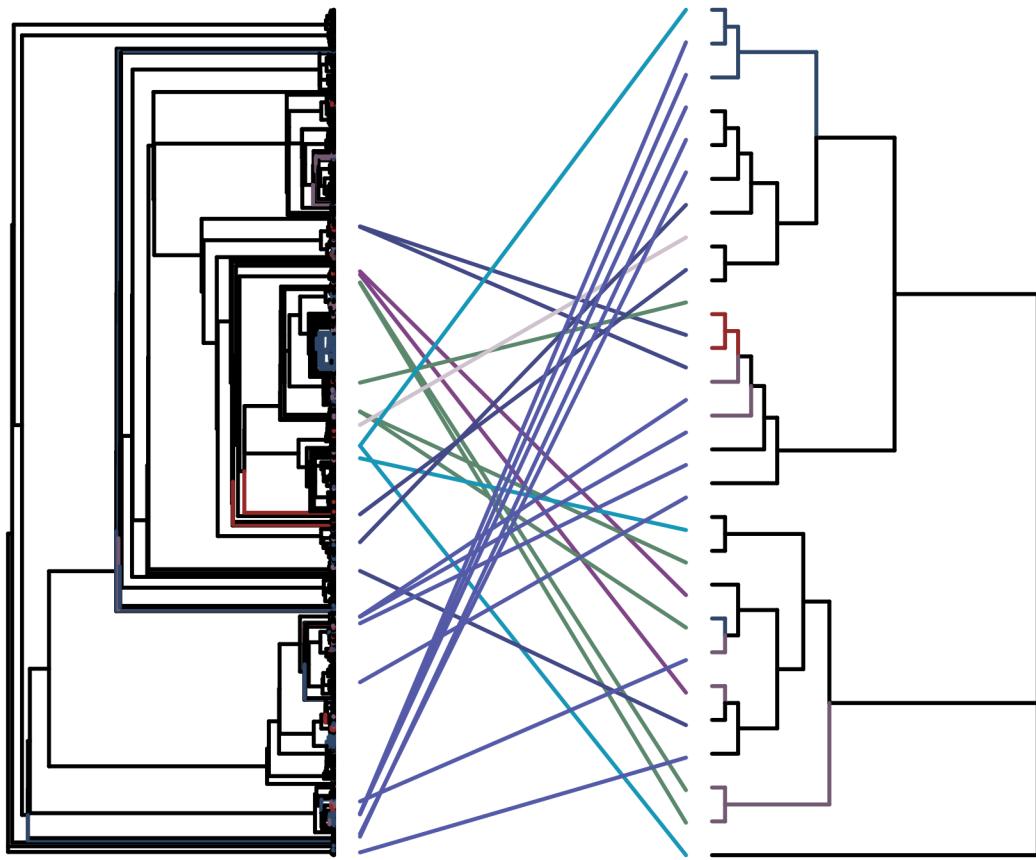


ST counts

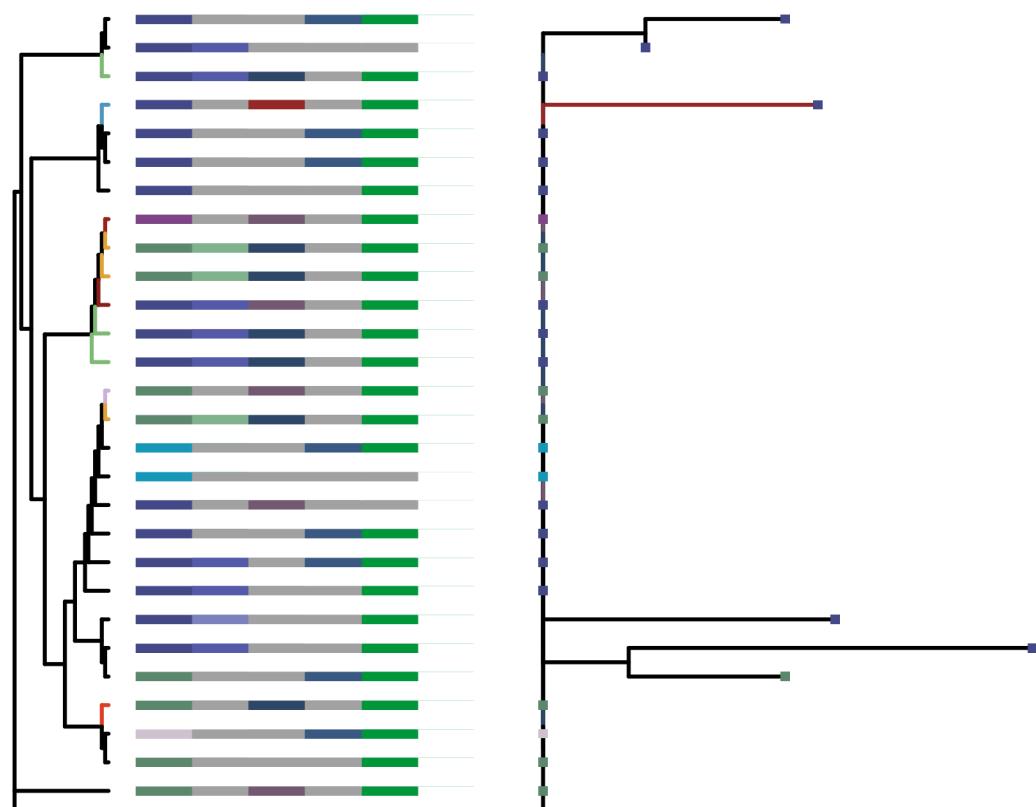


- K. pneumoniae
- Klebsiella sp.
- E. cloacae
- Citrobacter sp.
- E. coli
- Other
- K. pneumoniae ST307
- K. pneumoniae CG258
- E. cloacae ST114
- E. cloacae ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-

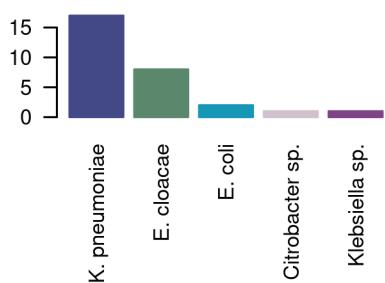




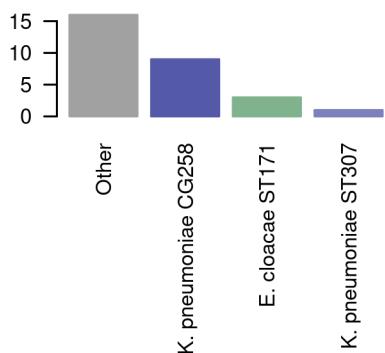
Gene cluster 18 concatenated gene tree



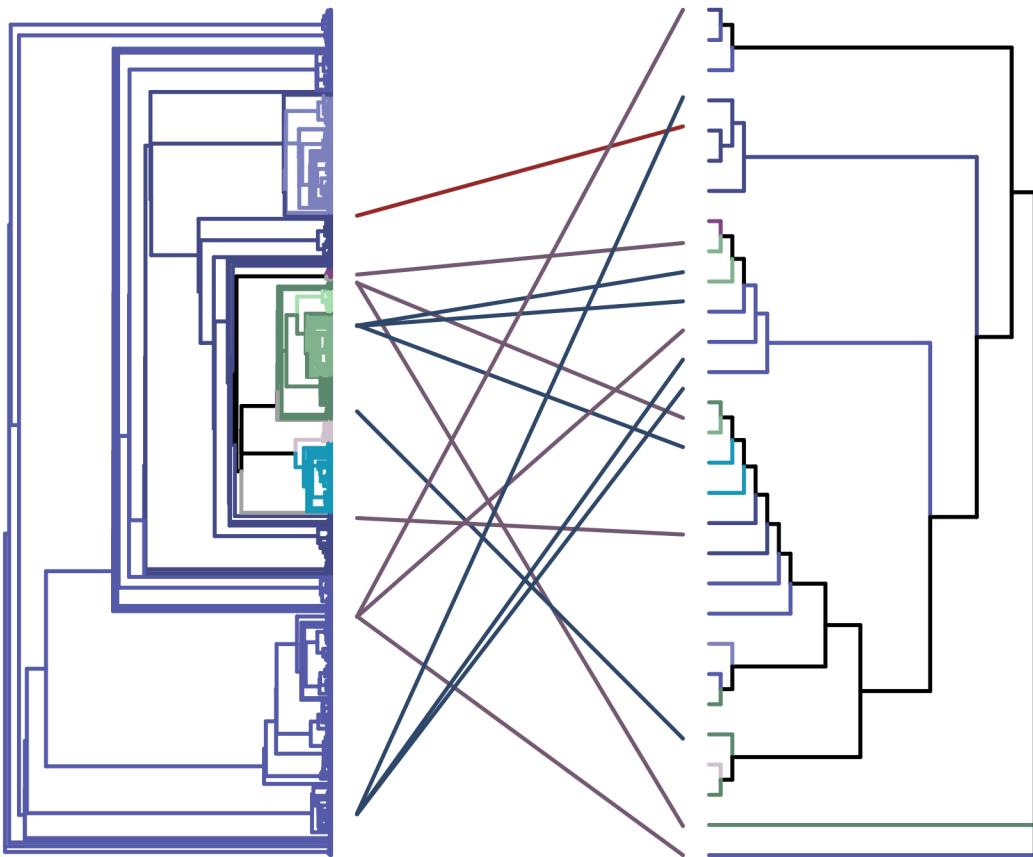
species counts

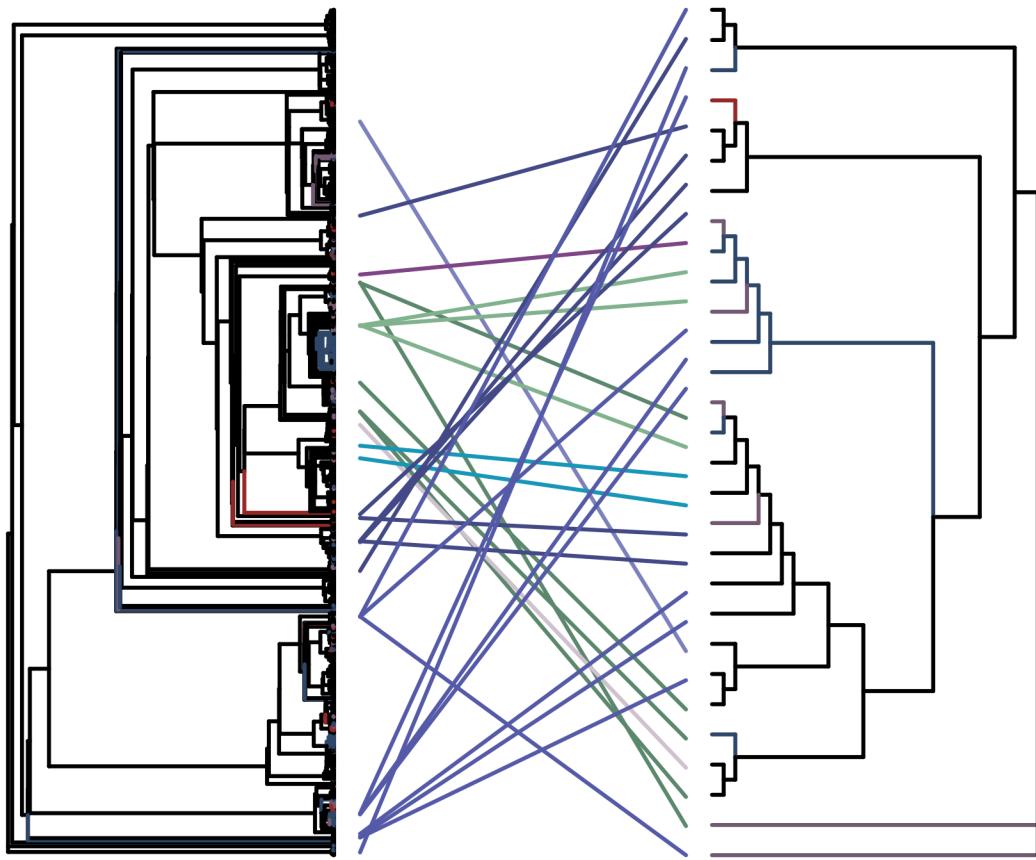


ST counts

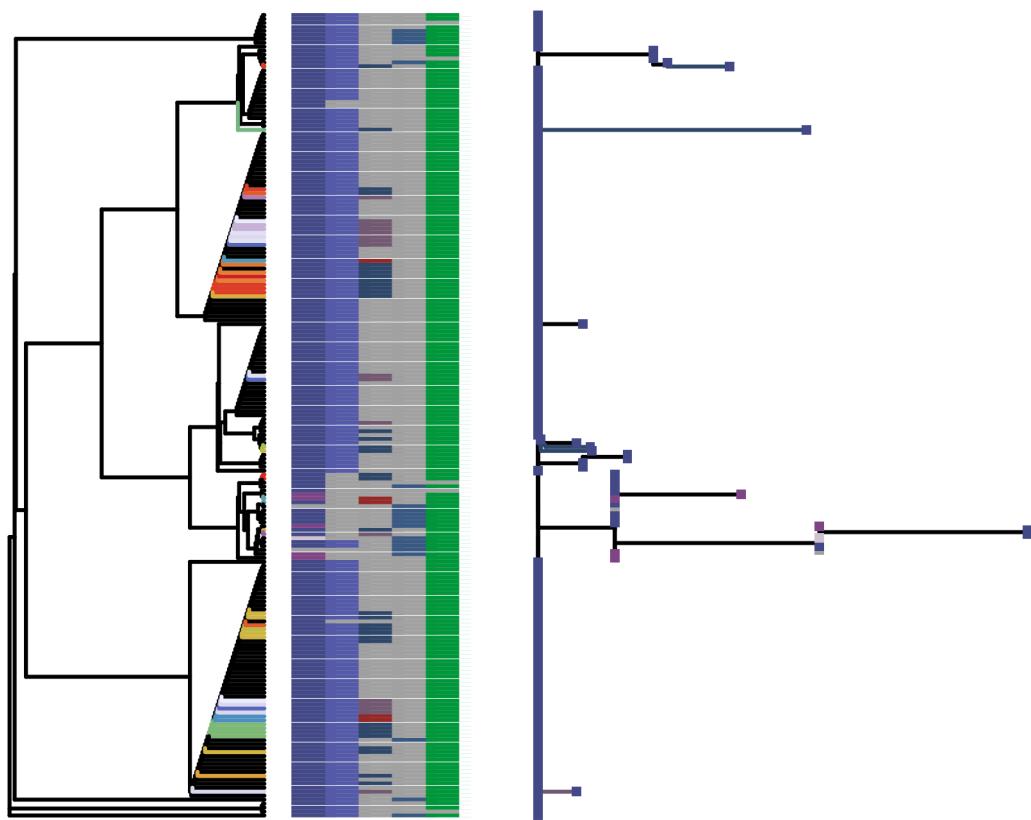


- *K. pneumoniae*
- *Klebsiella* sp.
- *E. cloacae*
- *Citrobacter* sp.
- *E. coli*
- Other
- *K. pneumoniae* ST307
- *K. pneumoniae* CG258
- *E. cloacae* ST114
- *E. cloacae* ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-

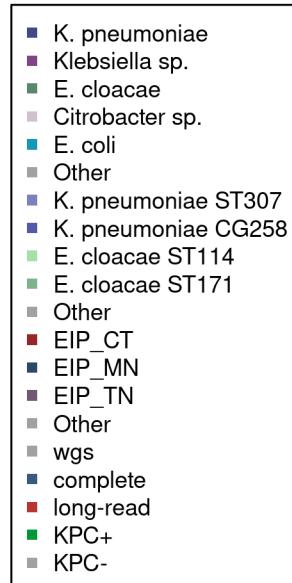
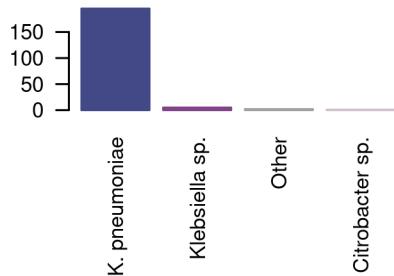




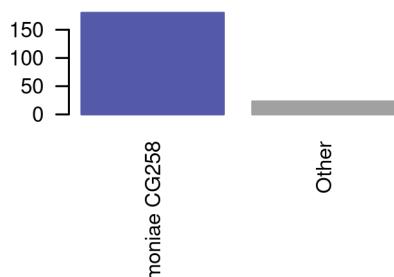
Gene cluster 19 concatenated gene tree

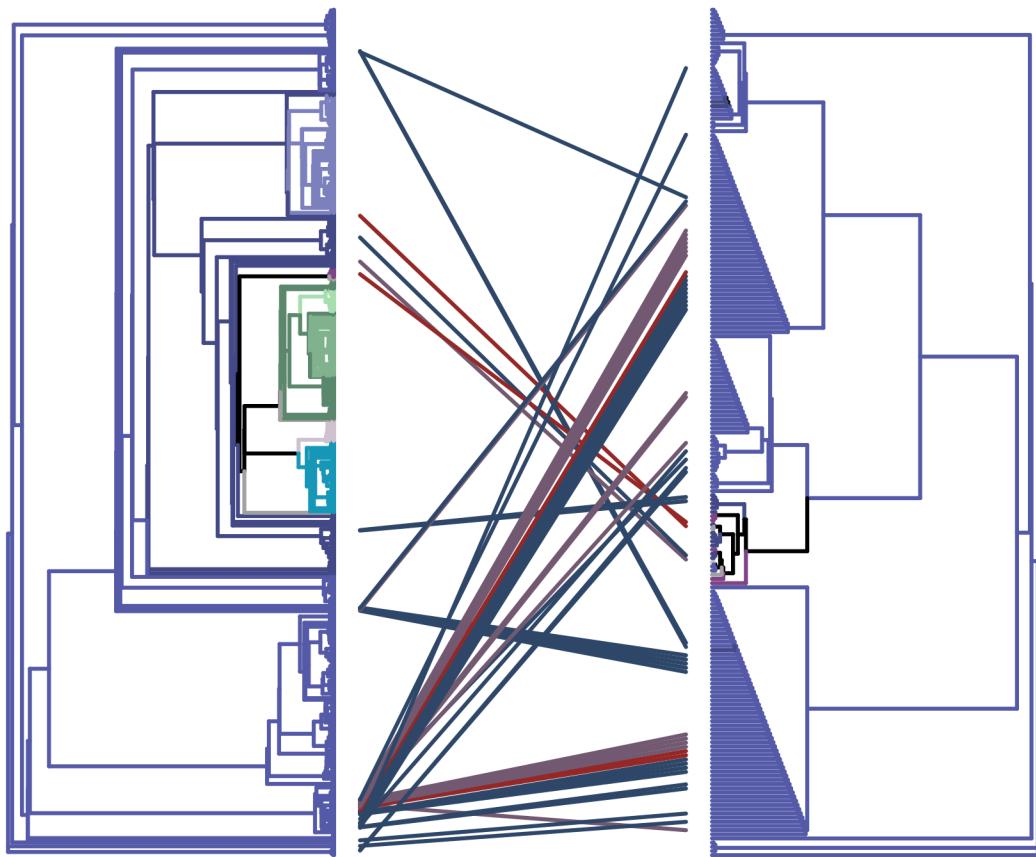


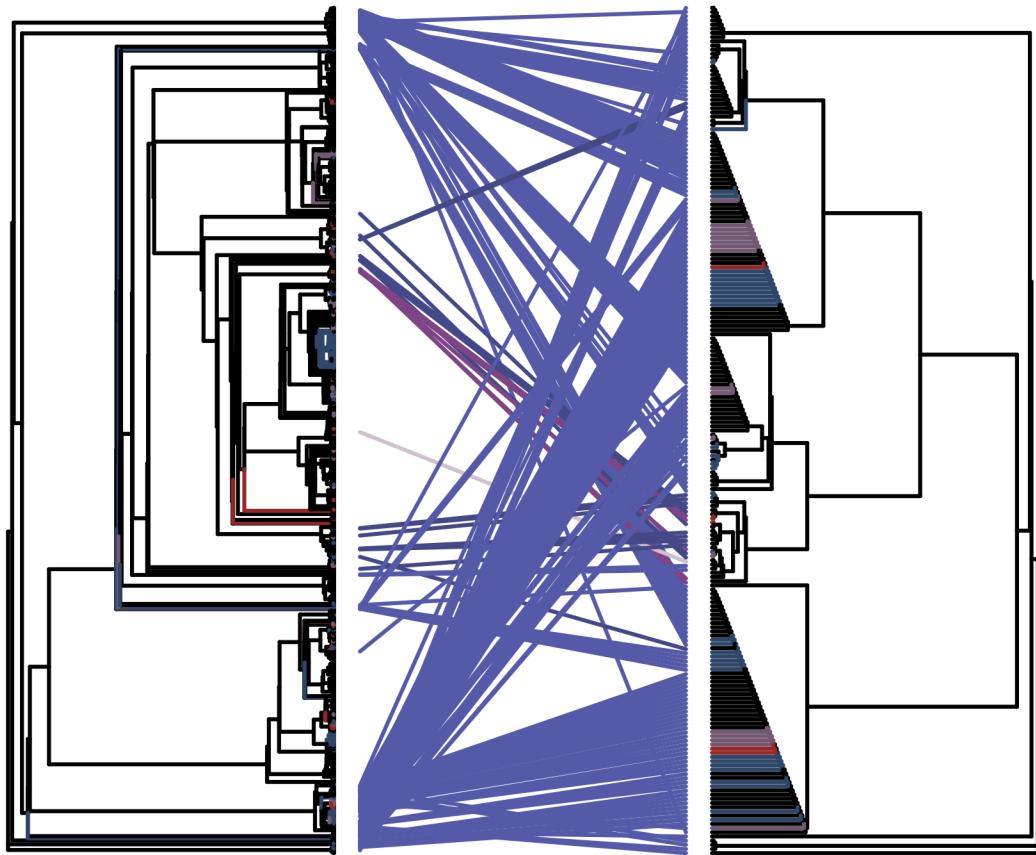
species counts



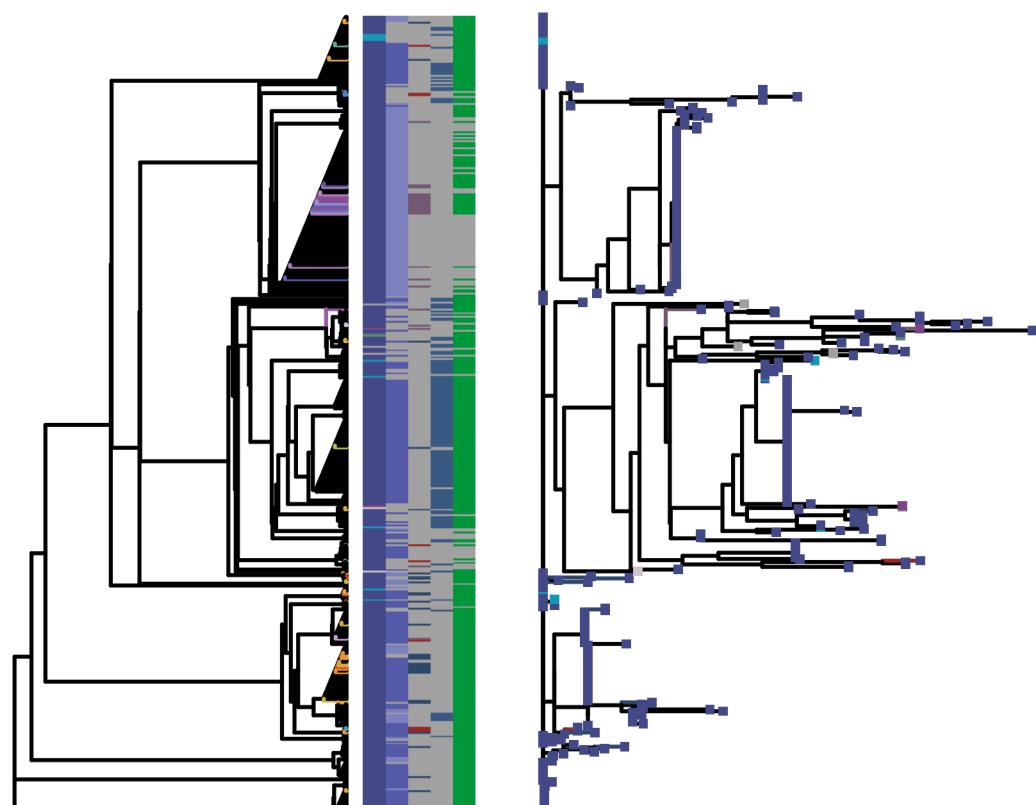
ST counts



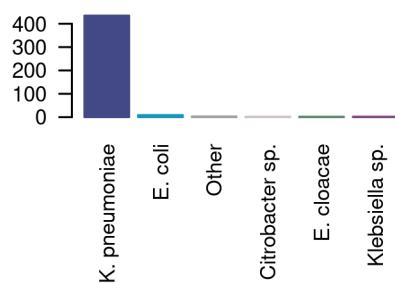




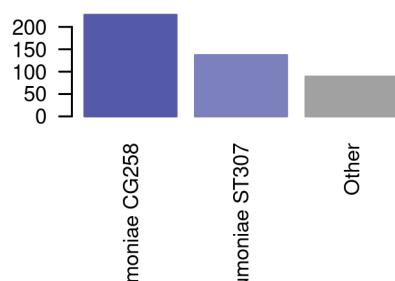
Gene cluster 20 concatenated gene tree



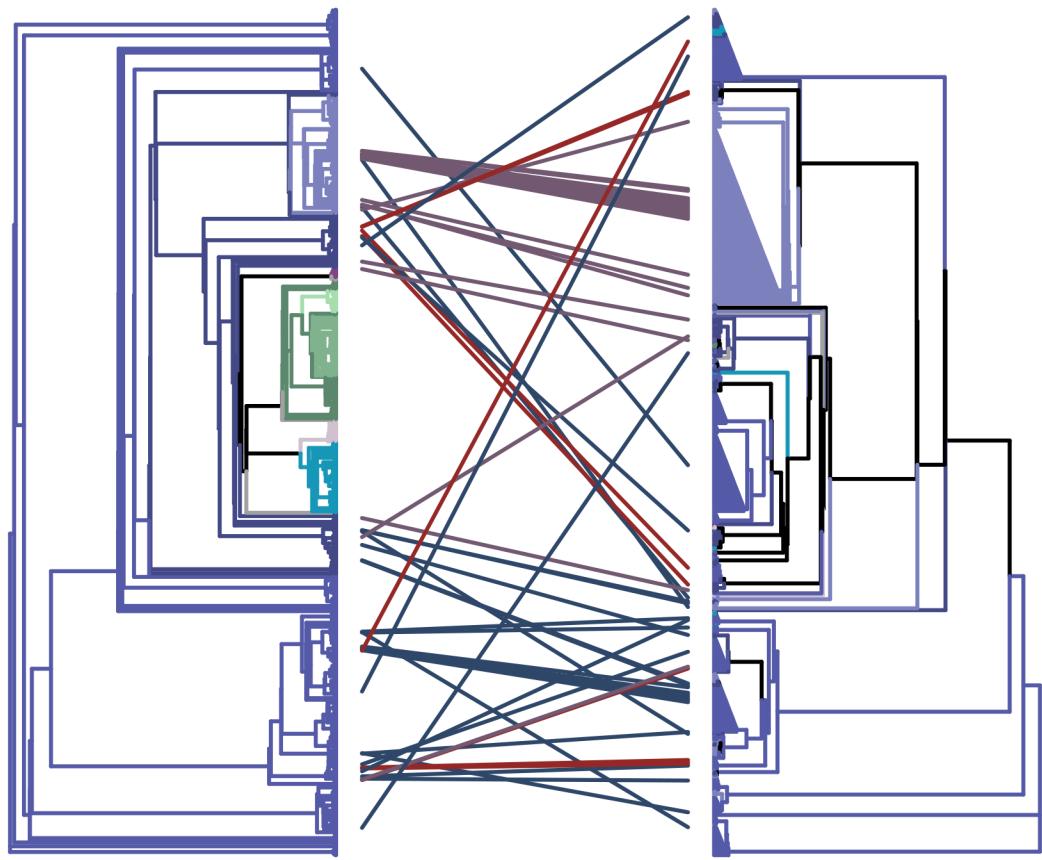
species counts

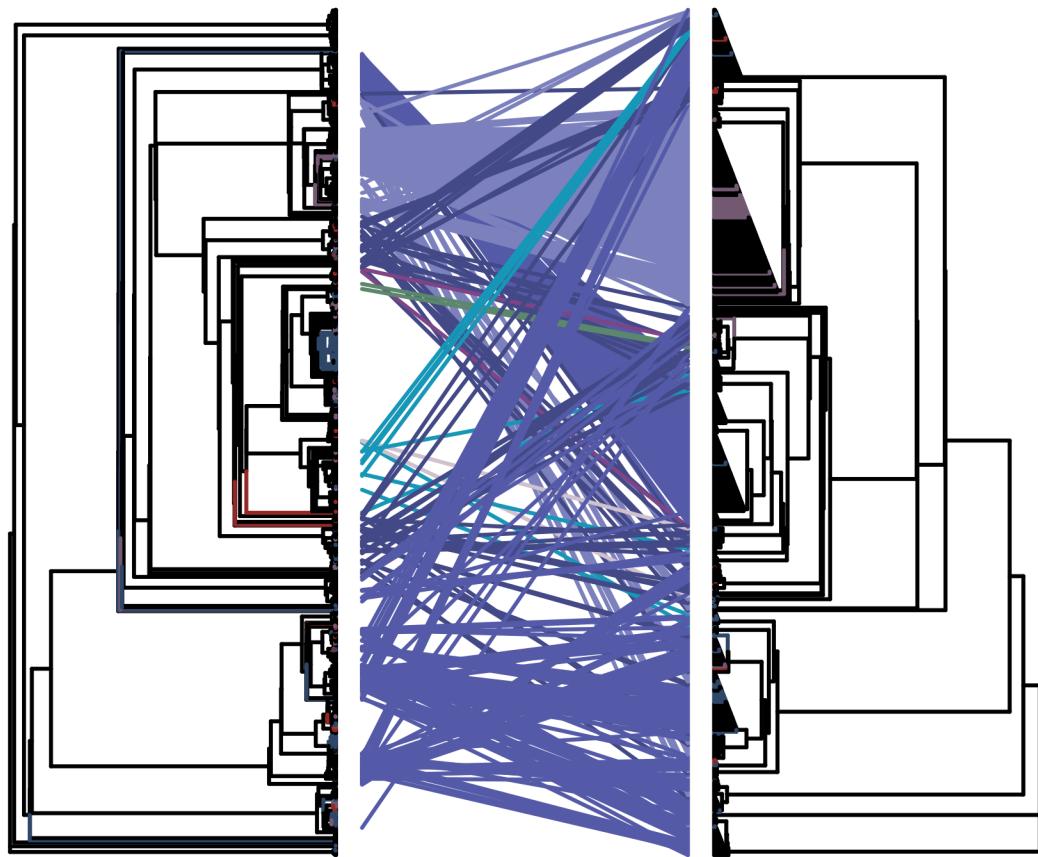


ST counts

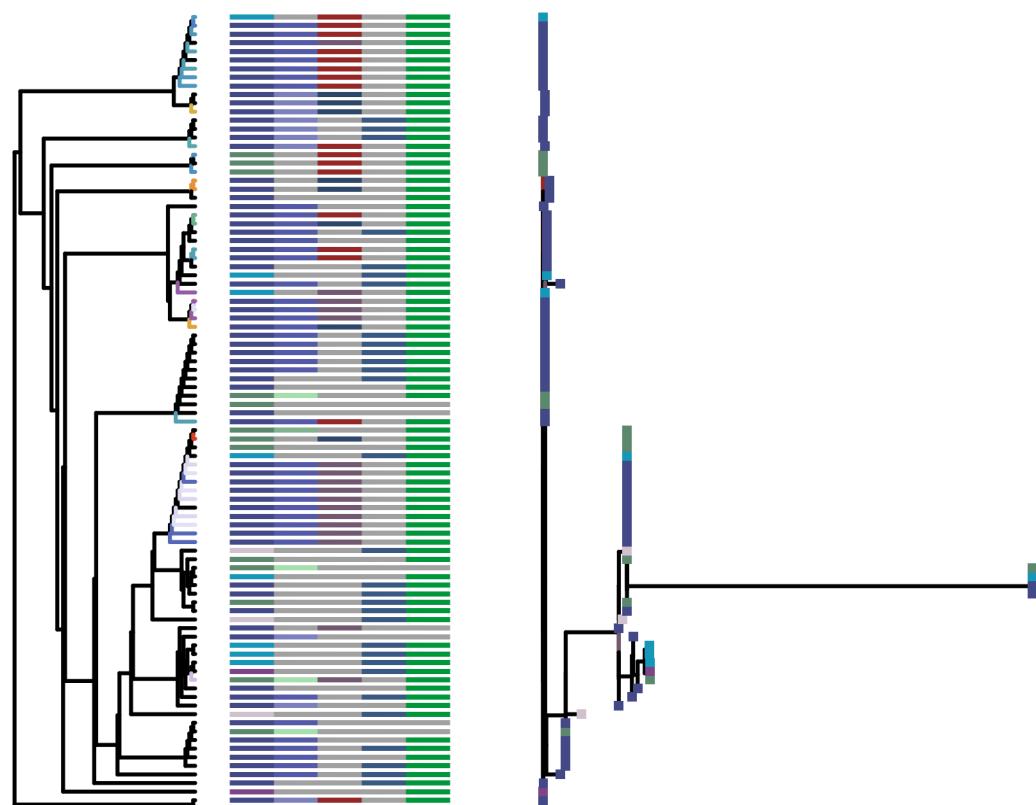


- K. pneumoniae
- Klebsiella sp.
- E. cloacae
- Citrobacter sp.
- E. coli
- Other
- K. pneumoniae ST307
- K. pneumoniae CG258
- E. cloacae ST114
- E. cloacae ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-

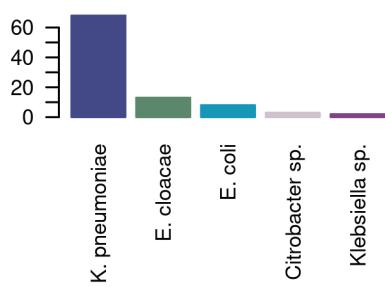




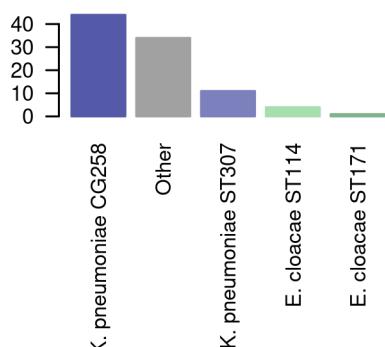
Gene cluster 21 concatenated gene tree



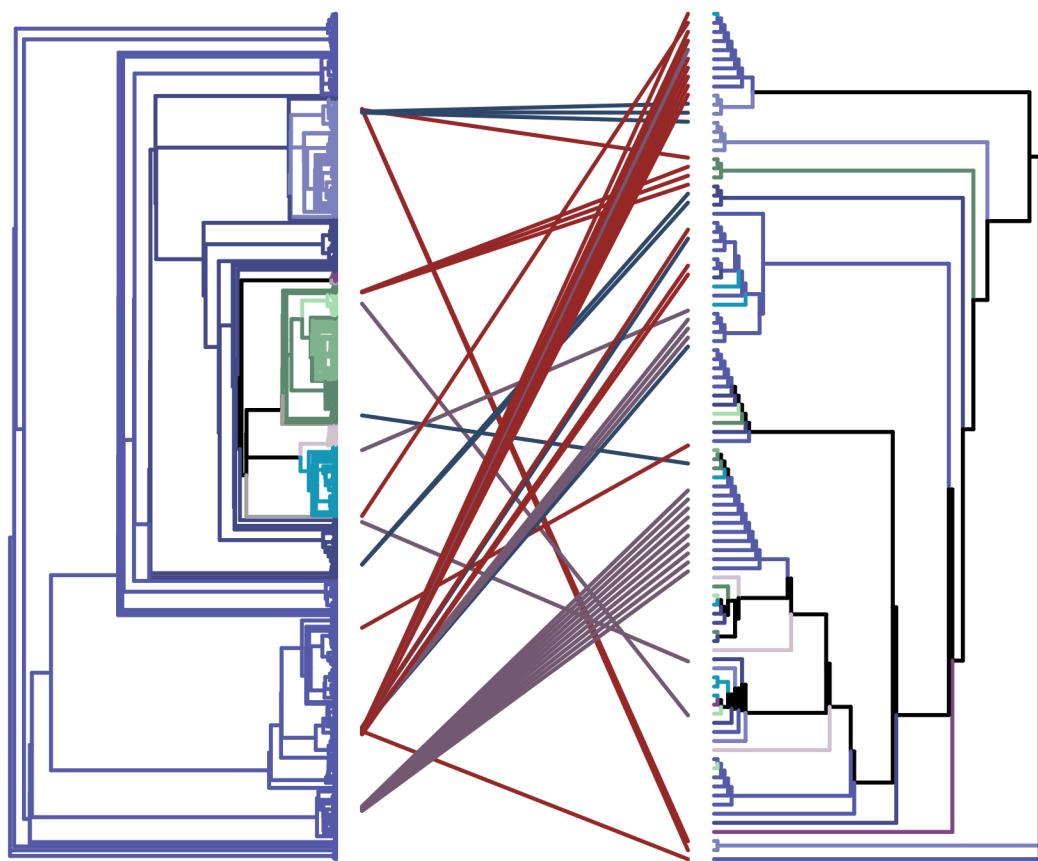
species counts

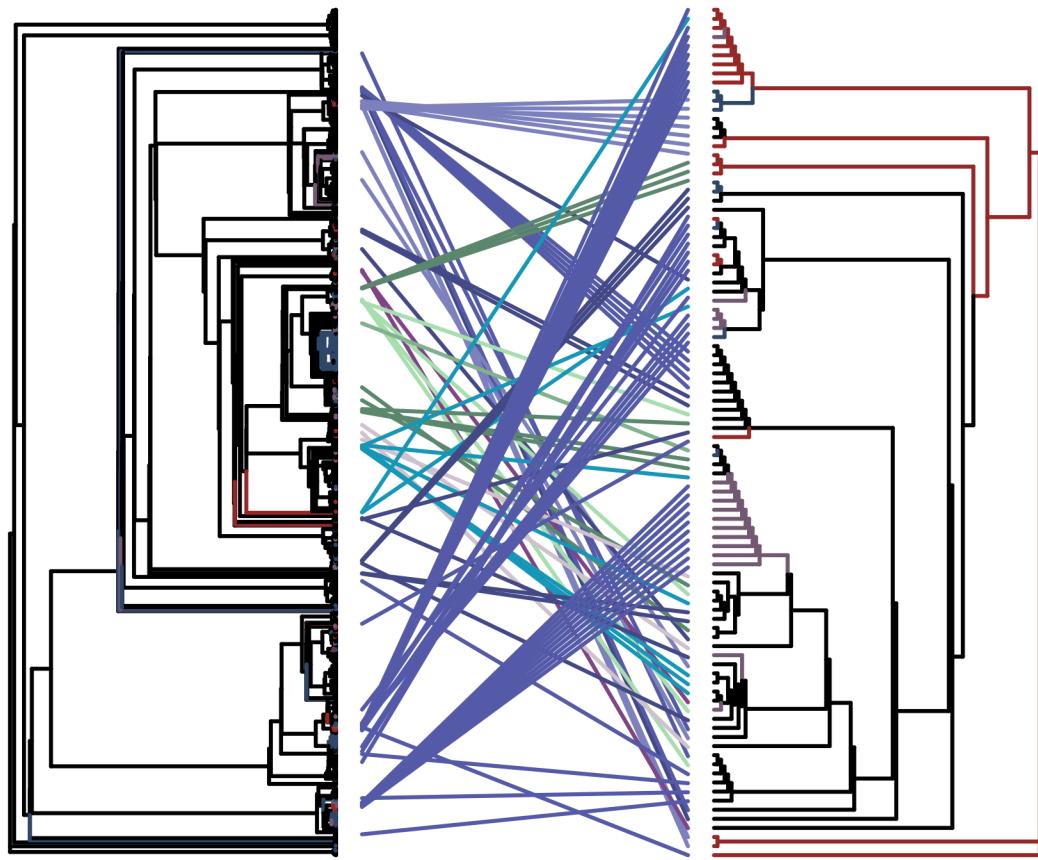


ST counts

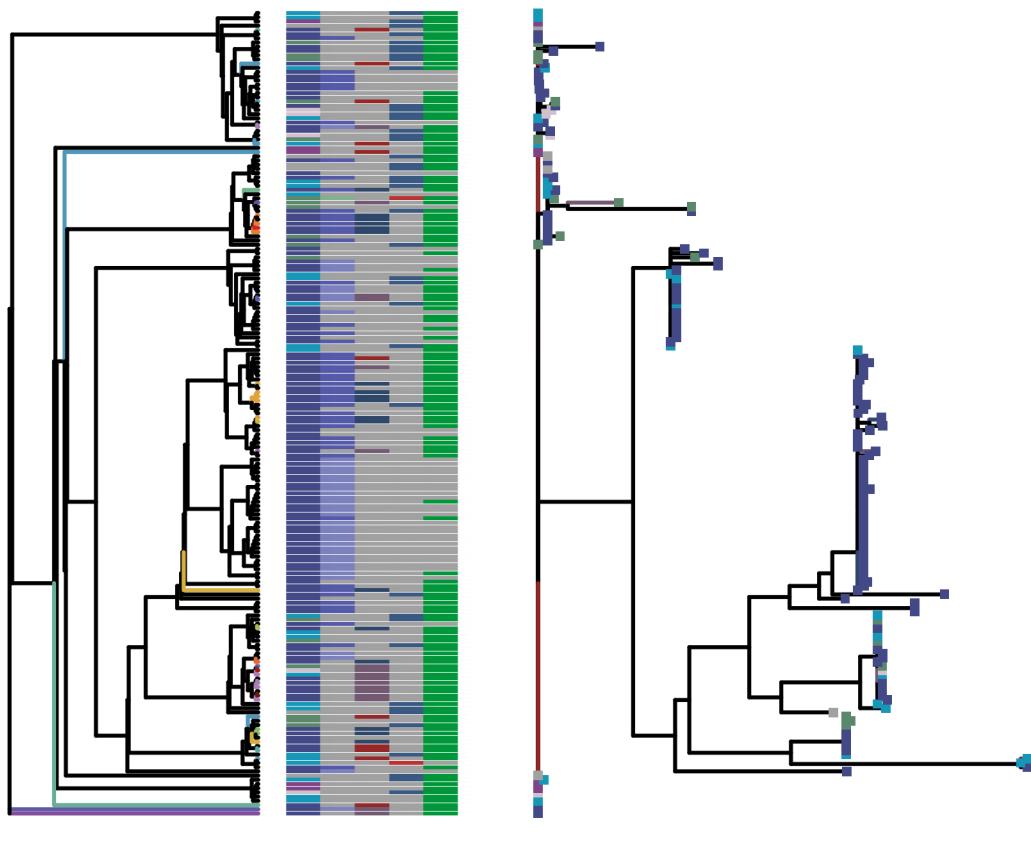


- *K. pneumoniae*
- *Klebsiella* sp.
- *E. cloacae*
- *Citrobacter* sp.
- *E. coli*
- Other
- *K. pneumoniae* ST307
- *K. pneumoniae* CG258
- *E. cloacae* ST114
- *E. cloacae* ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-

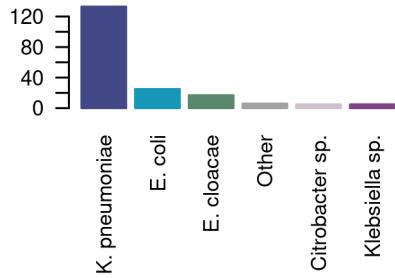




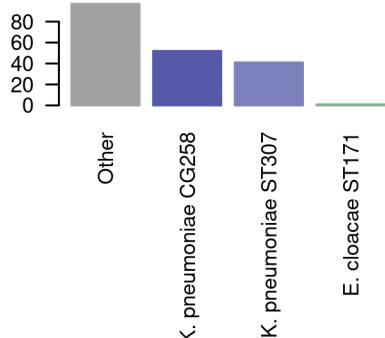
Gene cluster 22 concatenated gene tree



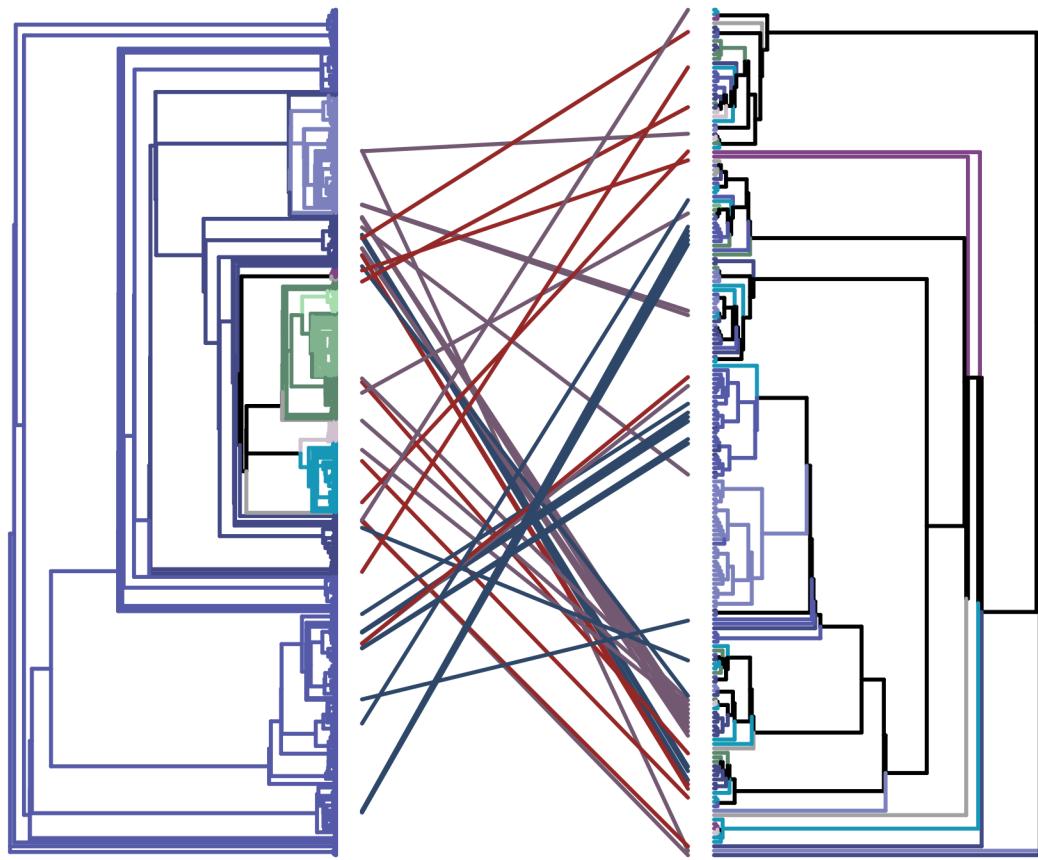
species counts

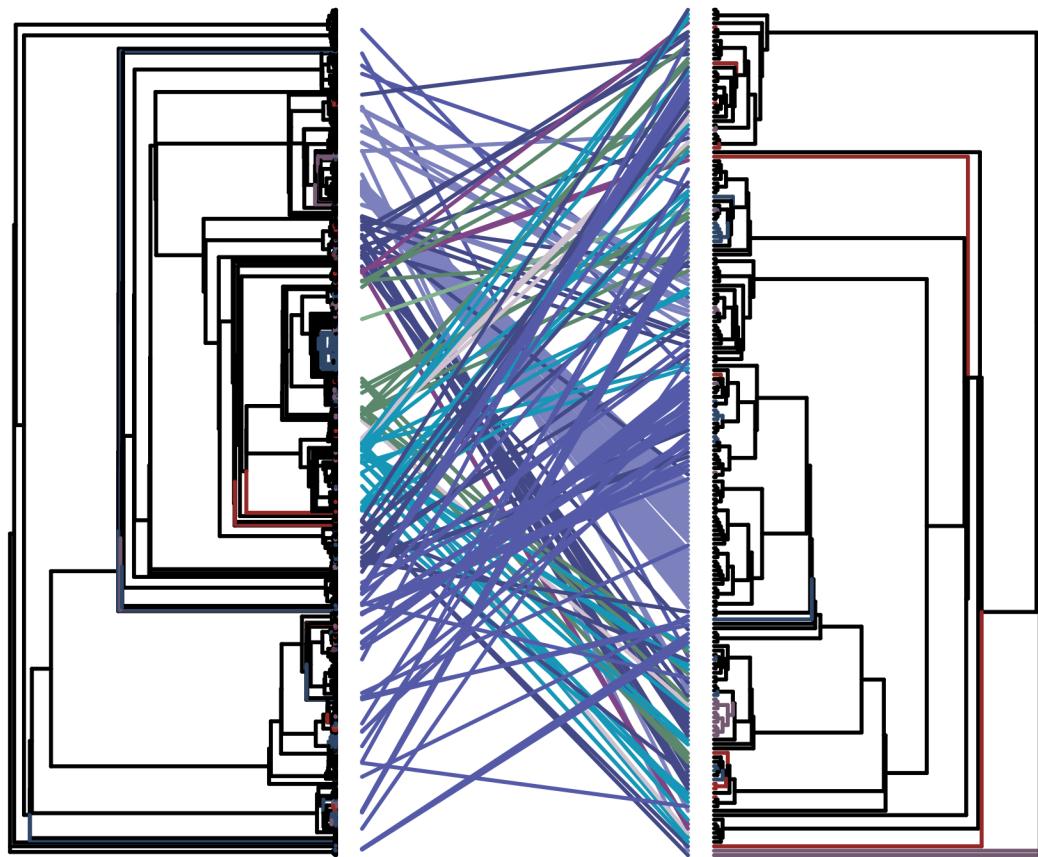


ST counts

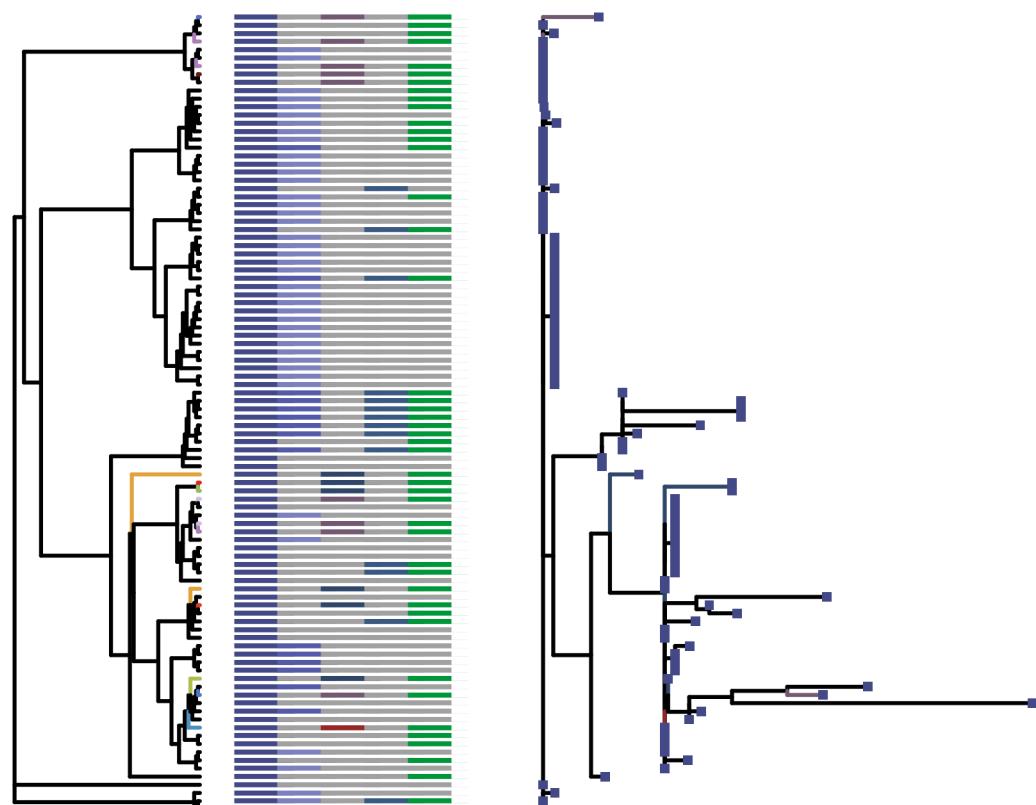


- *K. pneumoniae*
- *Klebsiella* sp.
- *E. cloacae*
- *Citrobacter* sp.
- *E. coli*
- Other
- *K. pneumoniae* ST307
- *K. pneumoniae* CG258
- *E. cloacae* ST114
- *E. cloacae* ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- wgs
- complete
- long-read
- KPC+
- KPC-





Gene cluster 23 concatenated gene tree



species counts



K. pneumoniae

ST counts

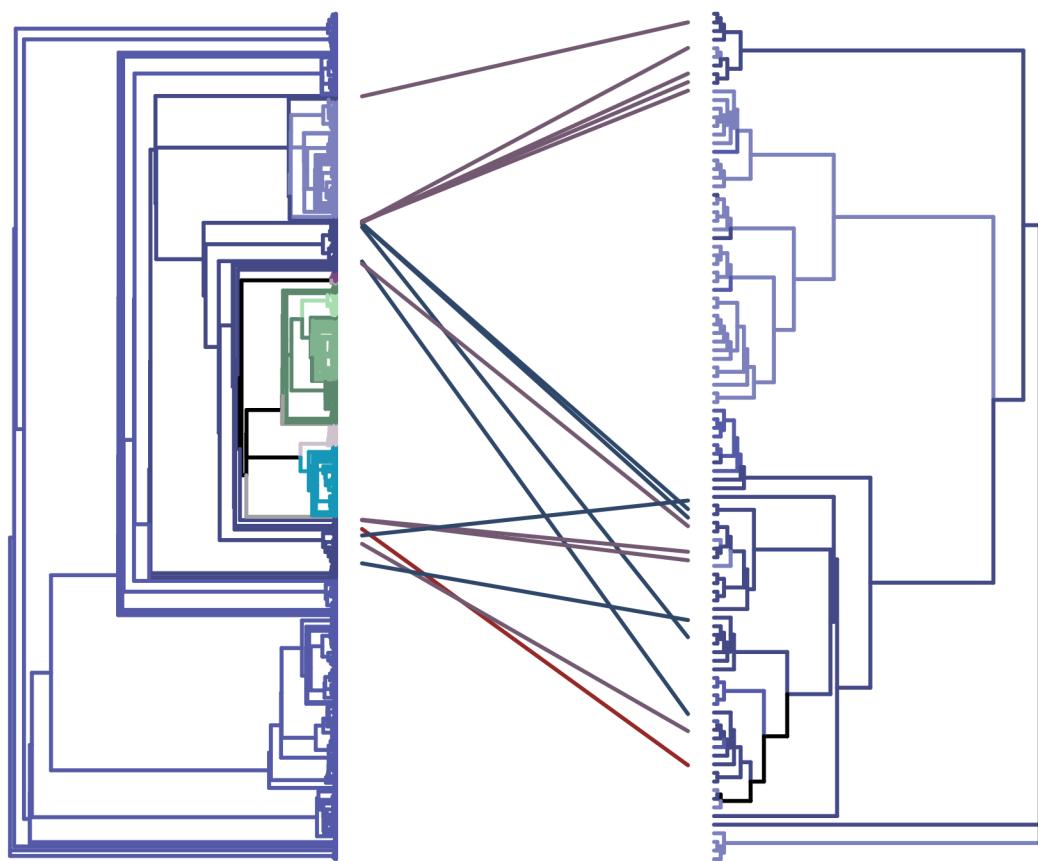


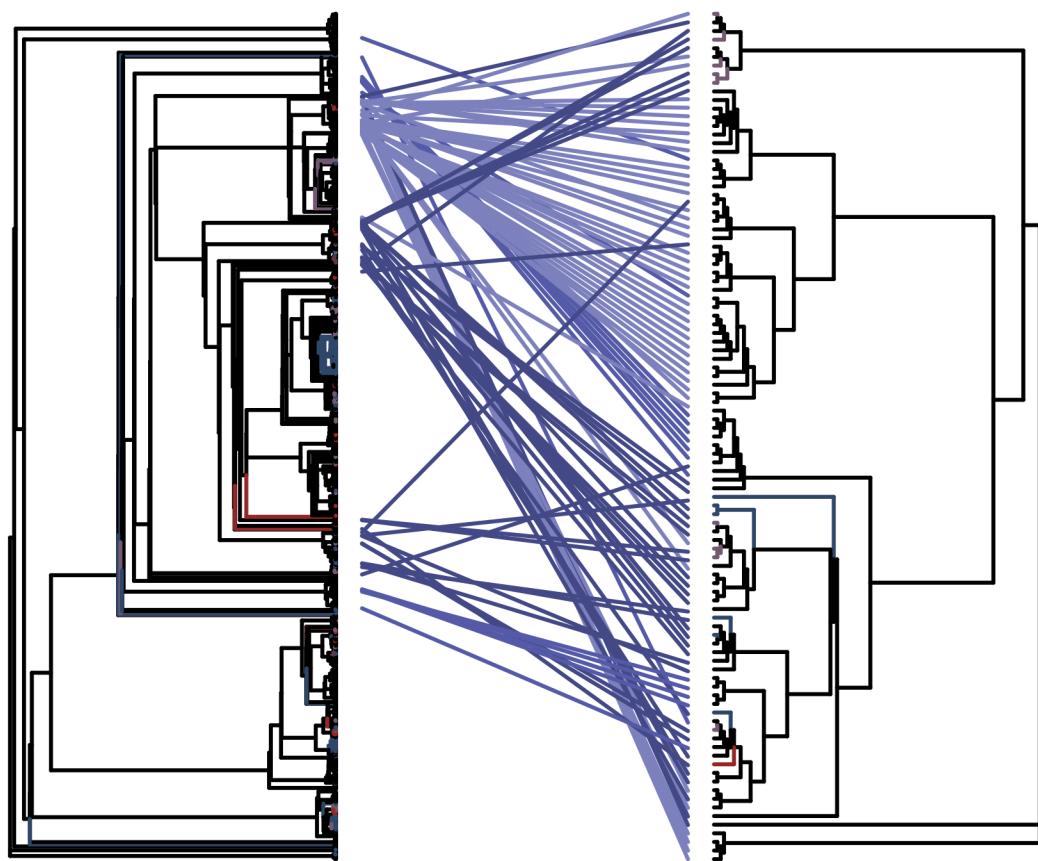
K. pneumoniae ST307

Other

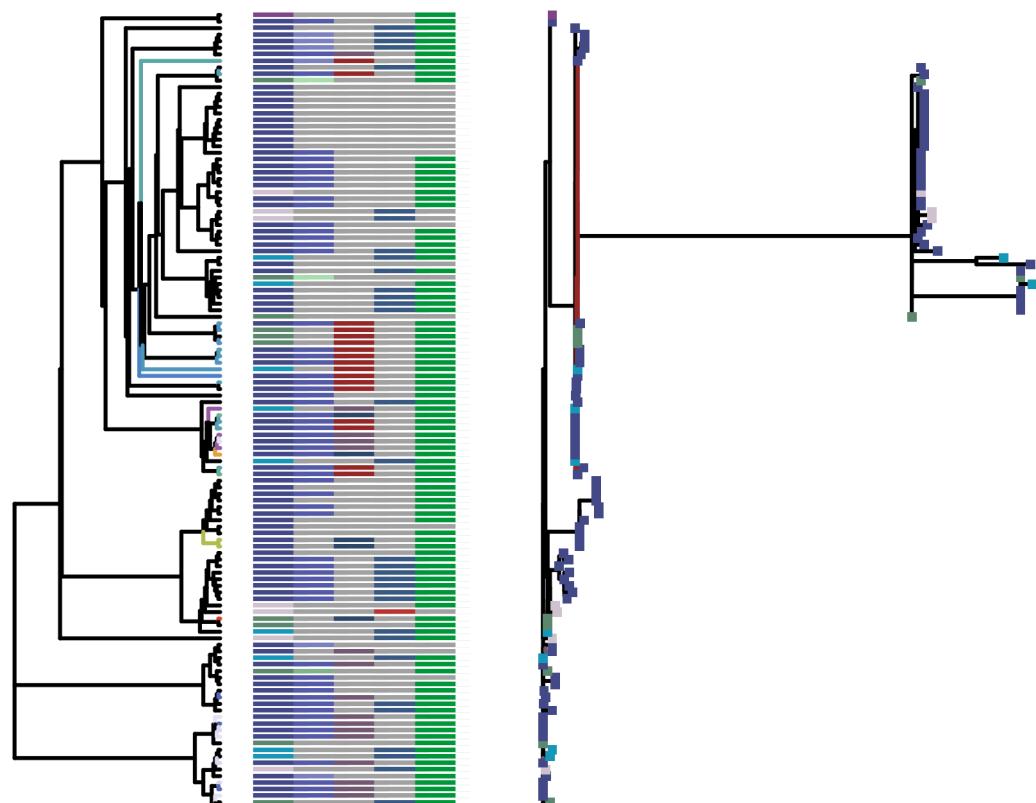
K. pneumoniae CG258

- K. pneumoniae
- Klebsiella sp.
- E. cloacae
- Citrobacter sp.
- E. coli
- Other
- K. pneumoniae ST307
- K. pneumoniae CG258
- E. cloacae ST114
- E. cloacae ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-

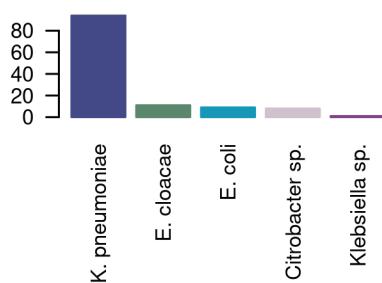




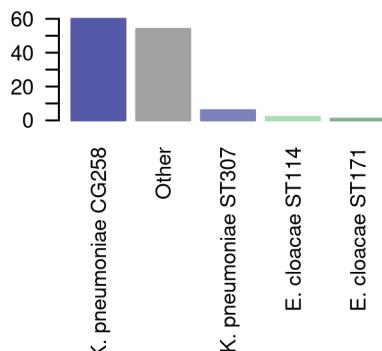
Gene cluster 24 concatenated gene tree



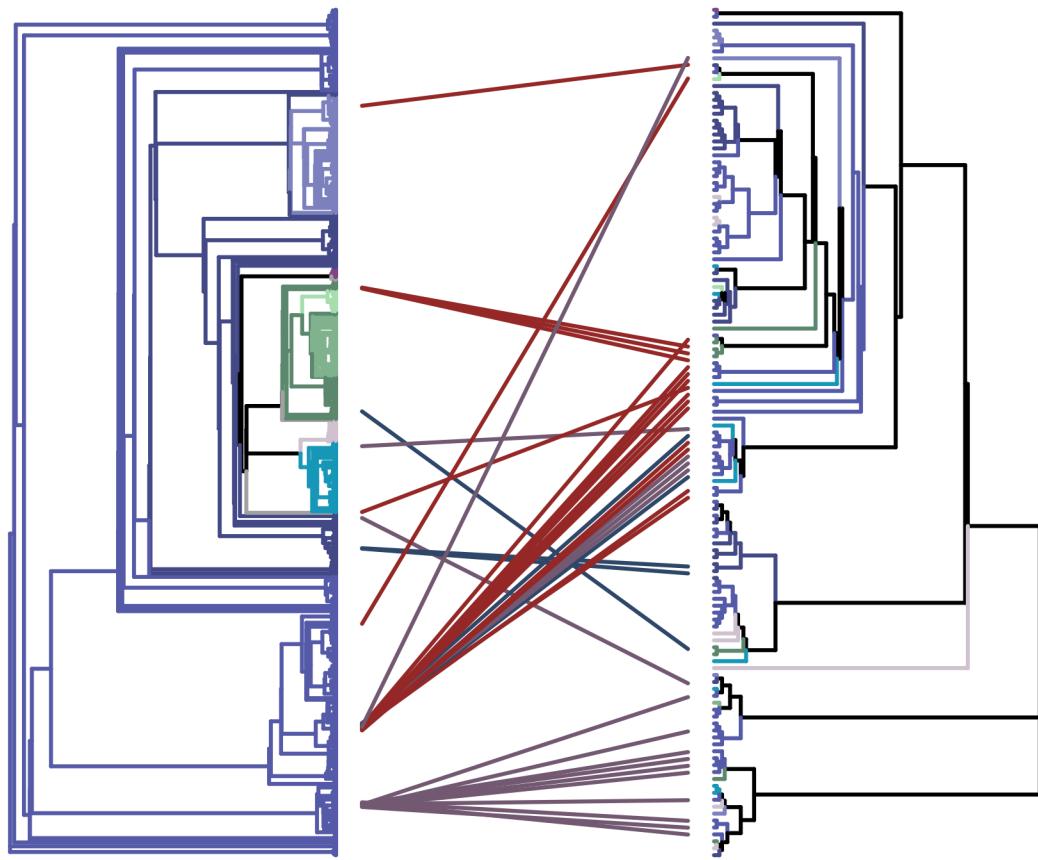
species counts

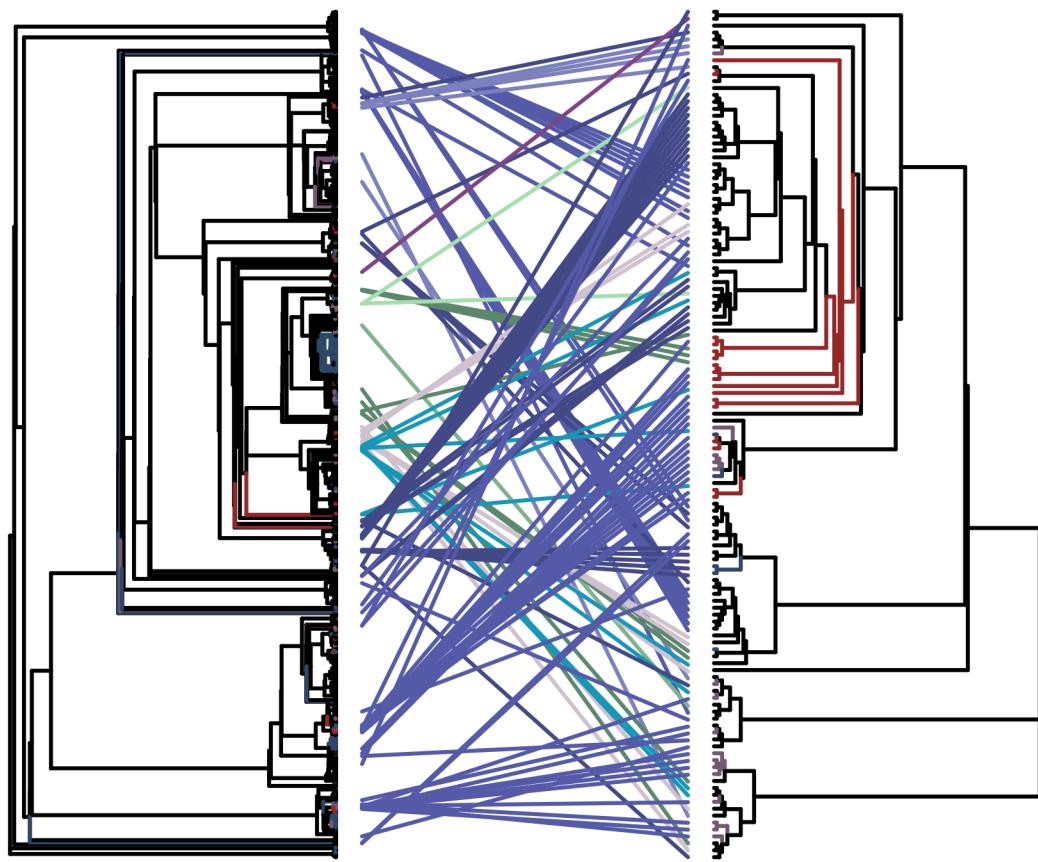


ST counts

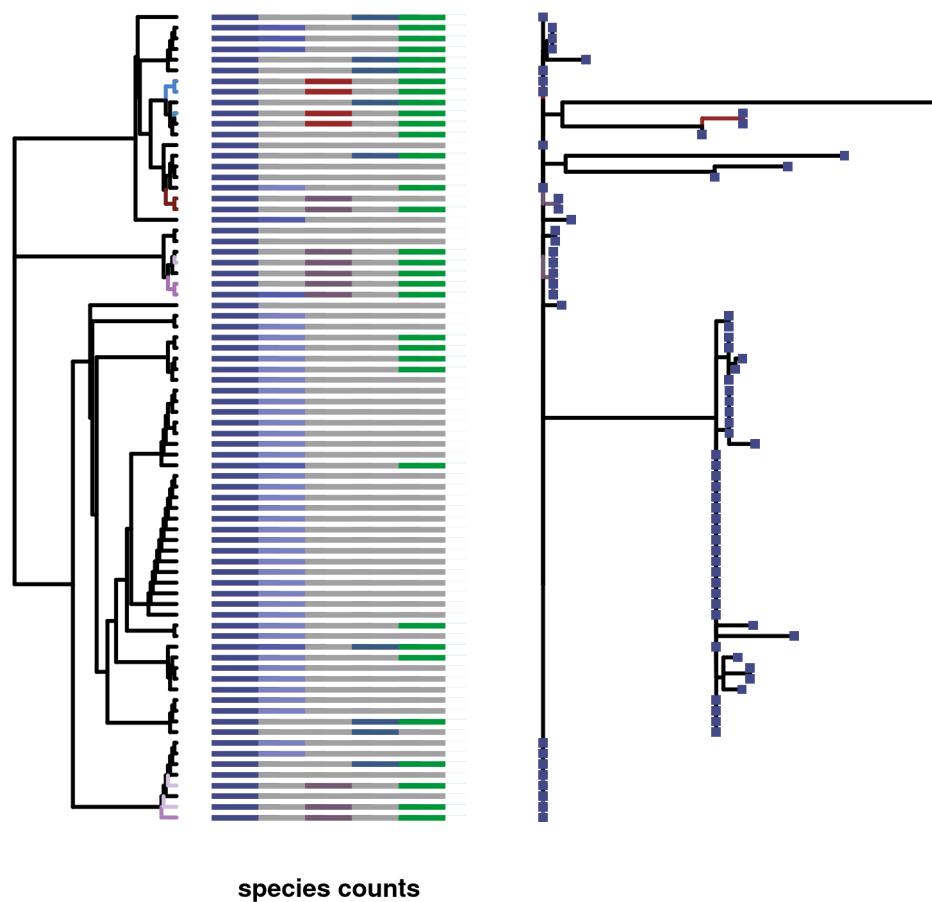


- *K. pneumoniae*
- *Klebsiella* sp.
- *E. cloacae*
- *Citrobacter* sp.
- *E. coli*
- Other
- *K. pneumoniae* ST307
- *K. pneumoniae* CG258
- *E. cloacae* ST114
- *E. cloacae* ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-





Gene cluster 25 concatenated gene tree



species counts



K. pneumoniae

ST counts

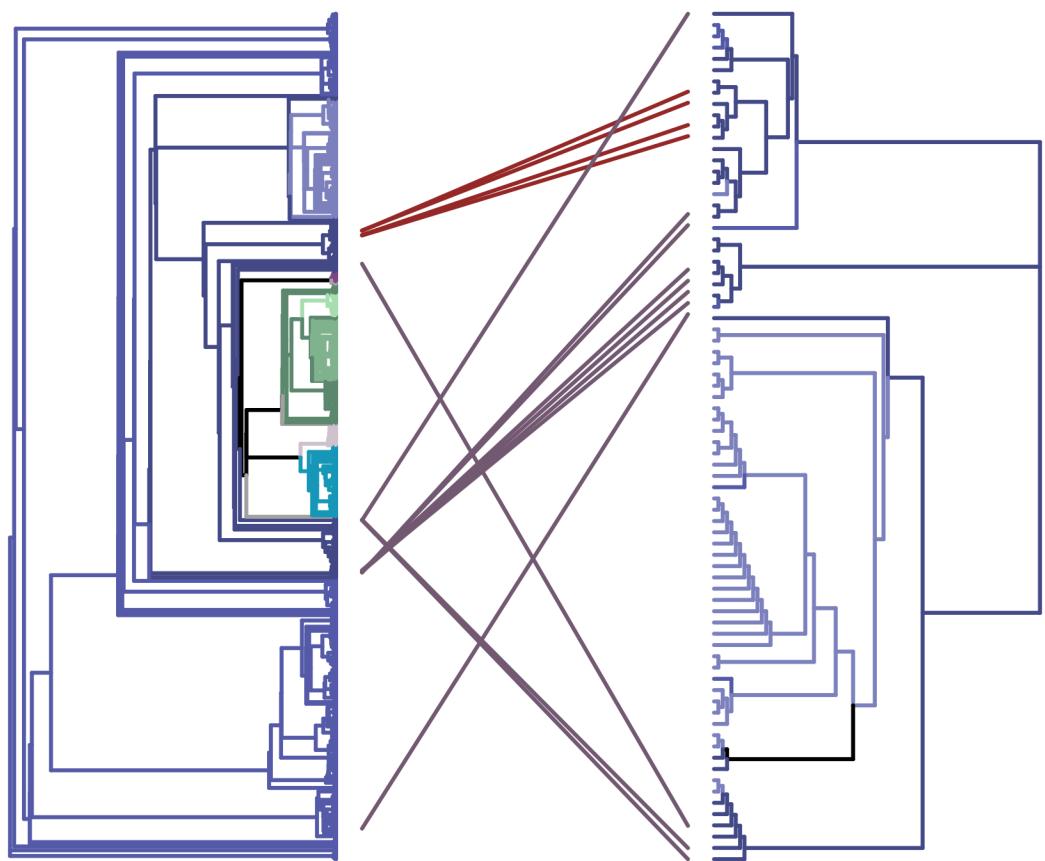


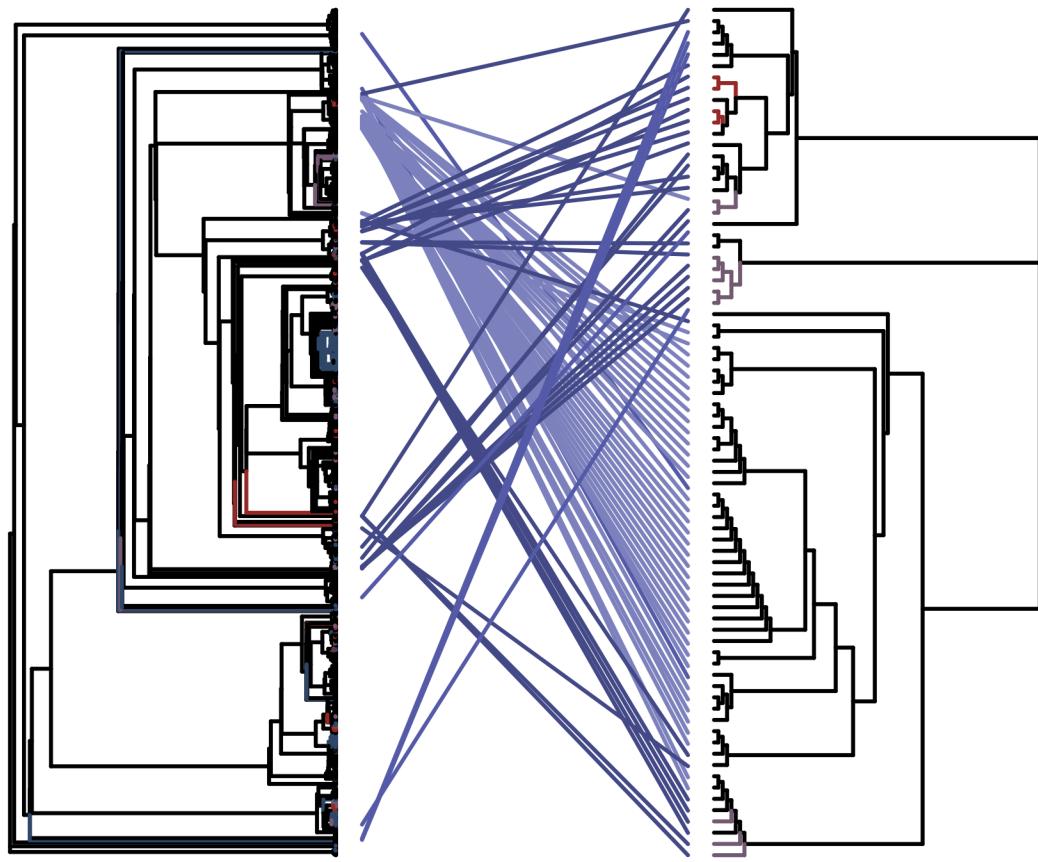
K. pneumoniae ST307

Other

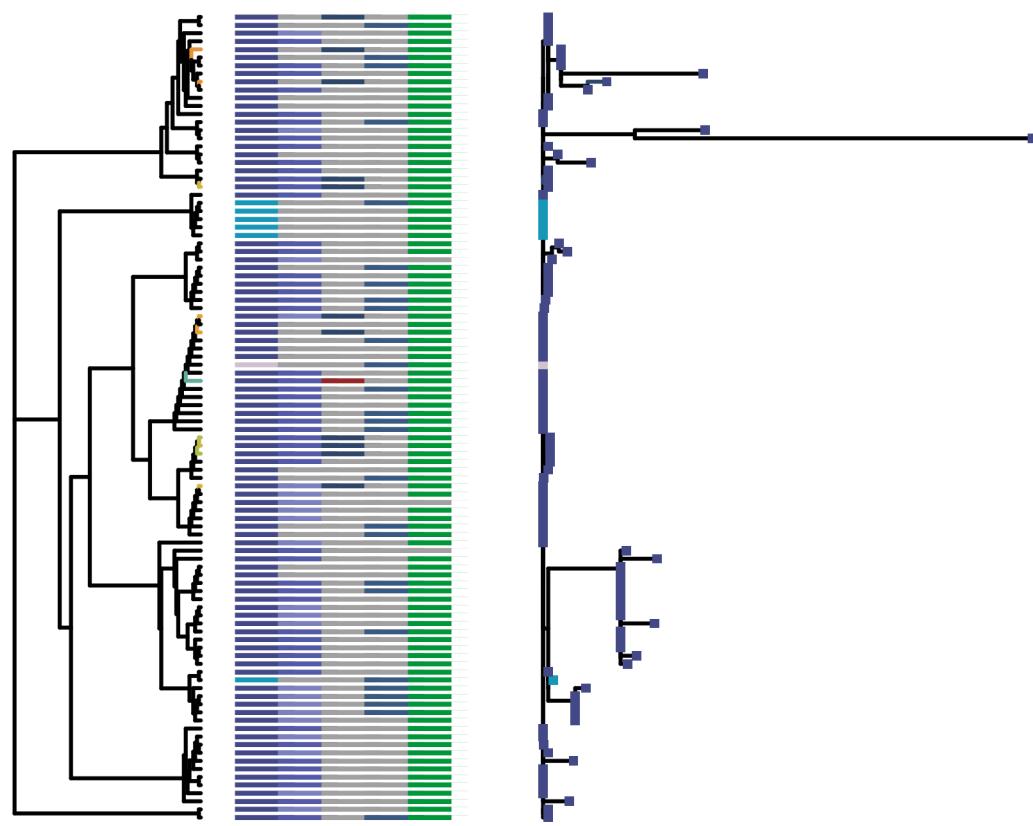
K. pneumoniae CG258

- K. pneumoniae
- Klebsiella sp.
- E. cloacae
- Citrobacter sp.
- E. coli
- Other
- K. pneumoniae ST307
- K. pneumoniae CG258
- E. cloacae ST114
- E. cloacae ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-

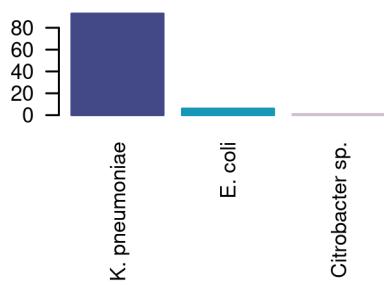




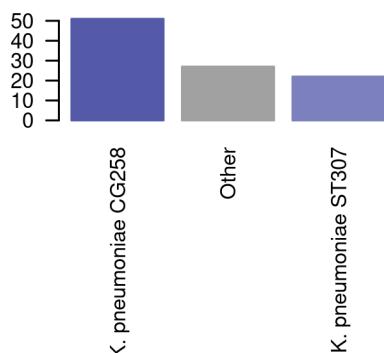
Gene cluster 26 concatenated gene tree



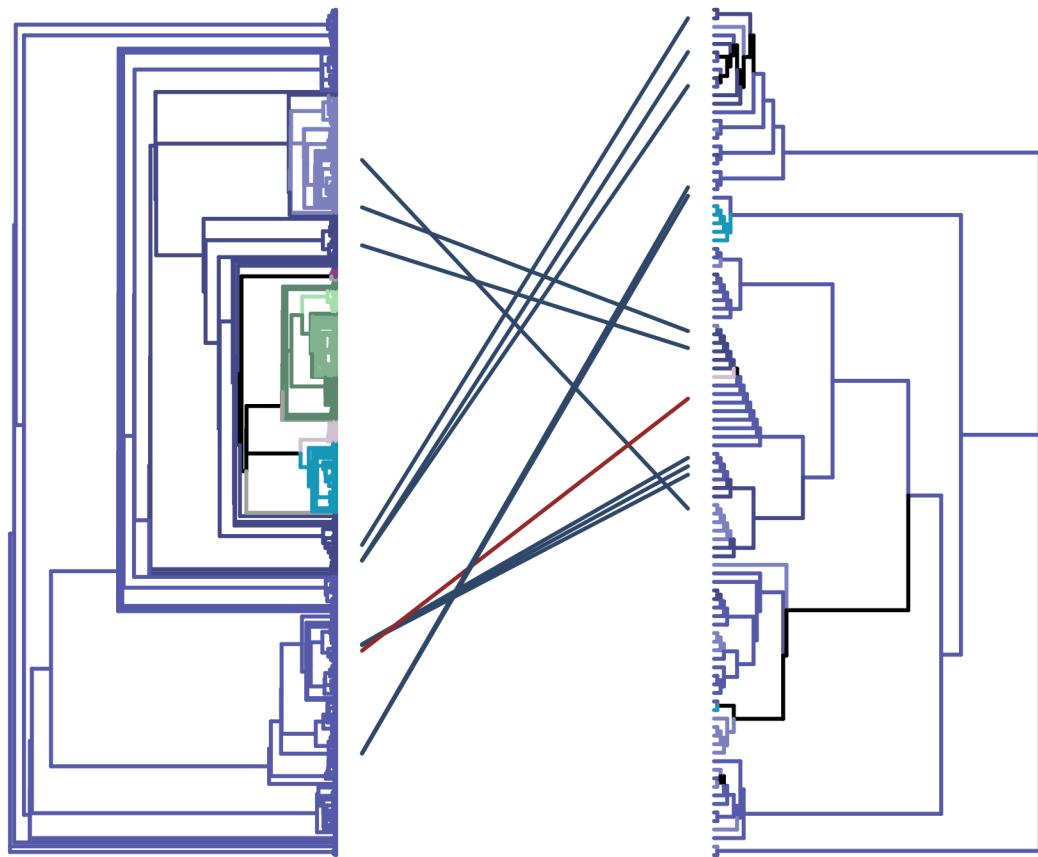
species counts

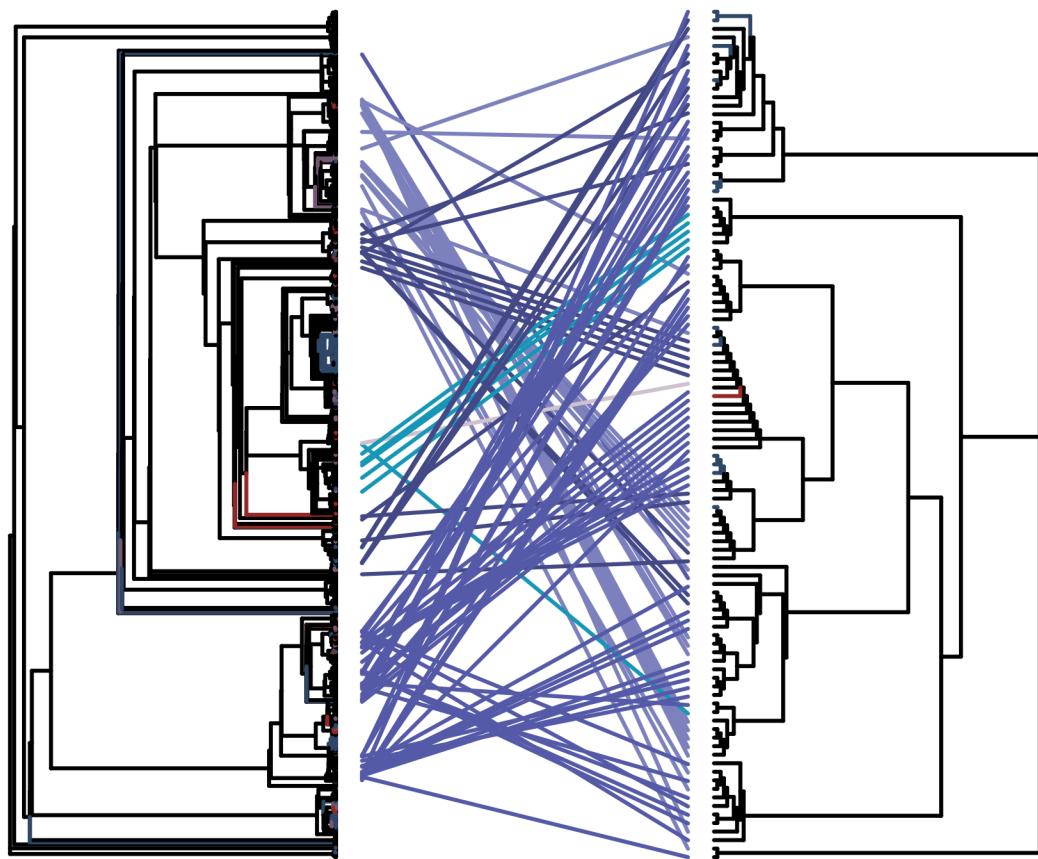


ST counts

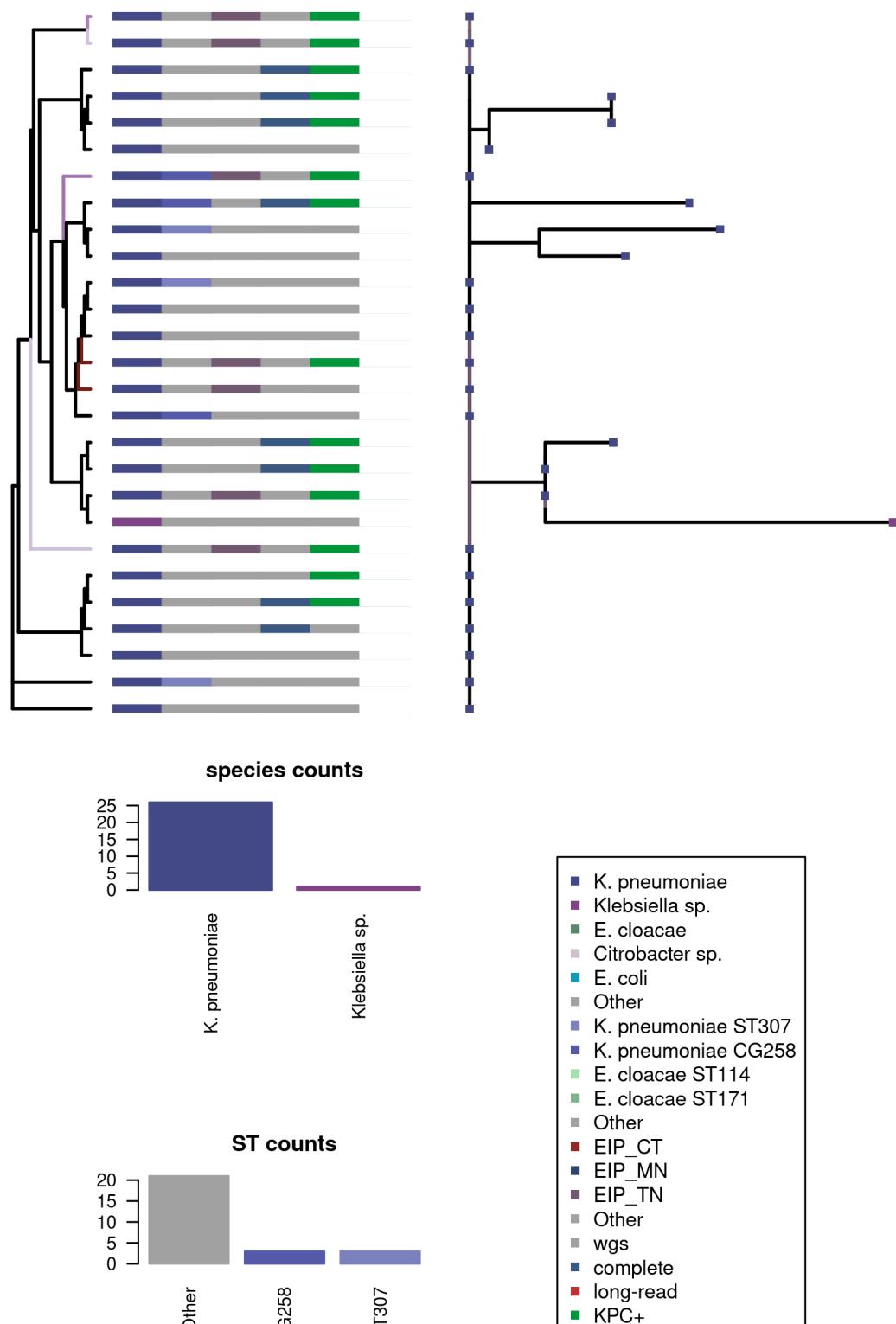


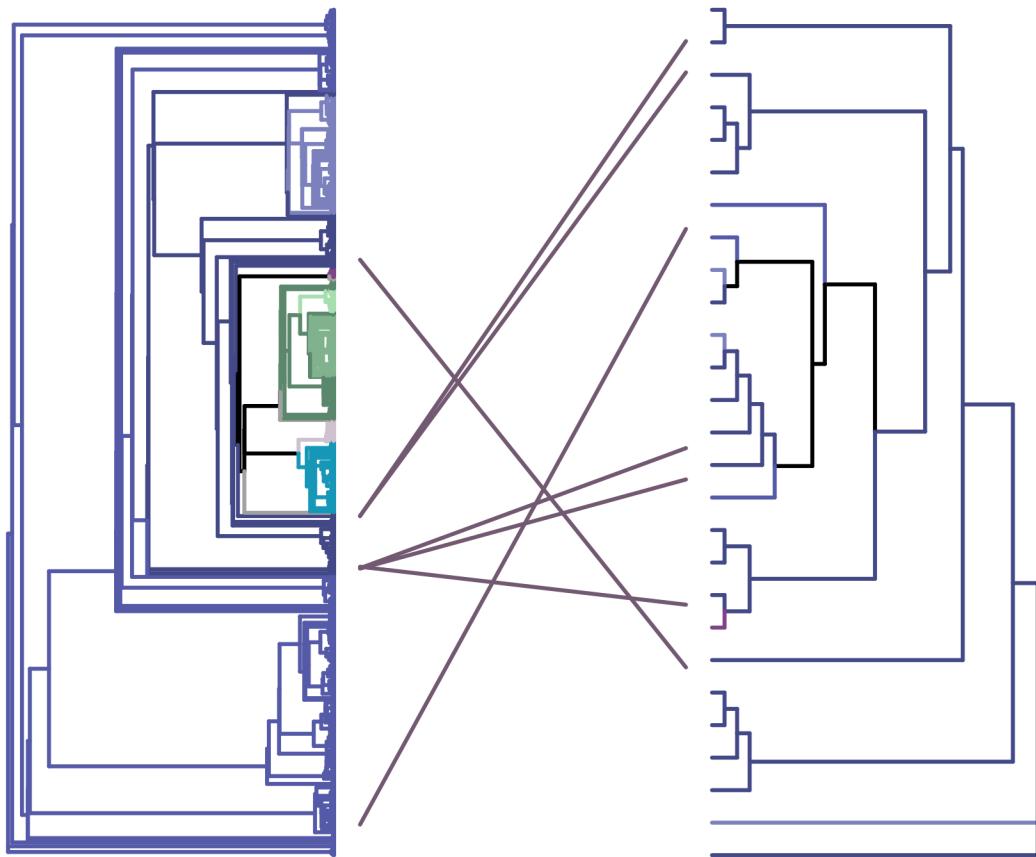
- *K. pneumoniae*
- Klebsiella sp.
- *E. cloacae*
- Citrobacter sp.
- *E. coli*
- Other
- *K. pneumoniae* ST307
- *K. pneumoniae* CG258
- *E. cloacae* ST114
- *E. cloacae* ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-

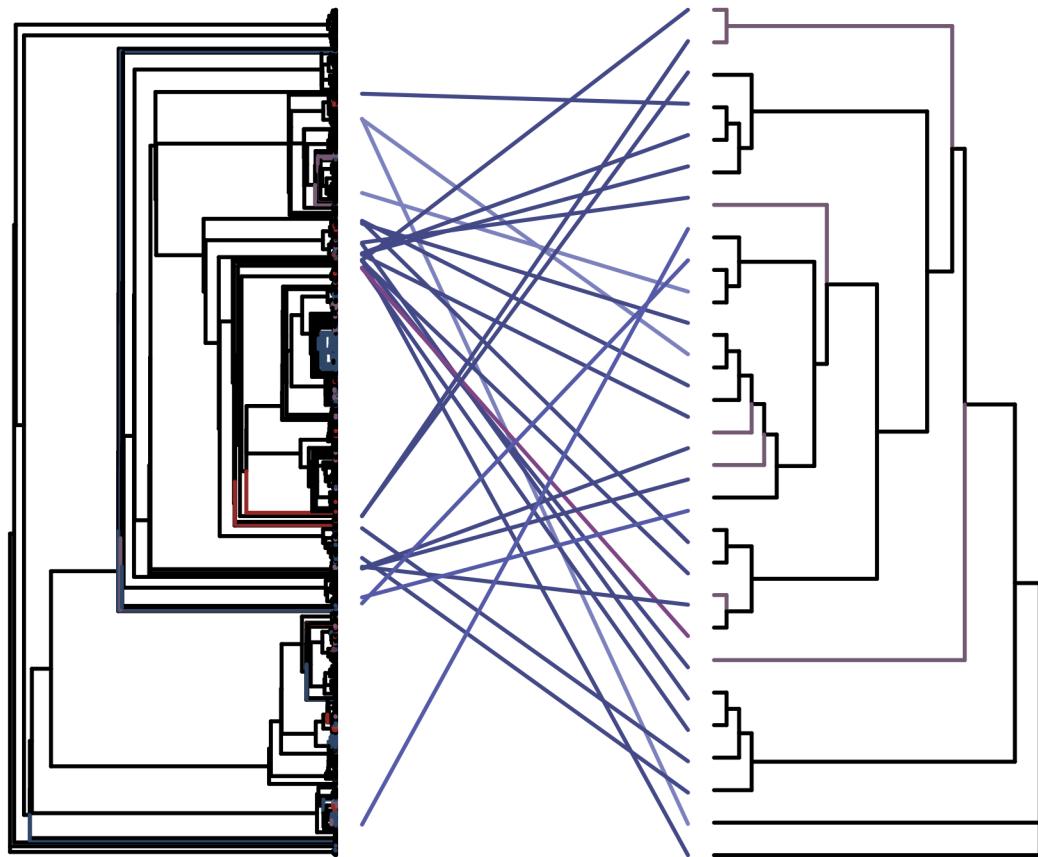




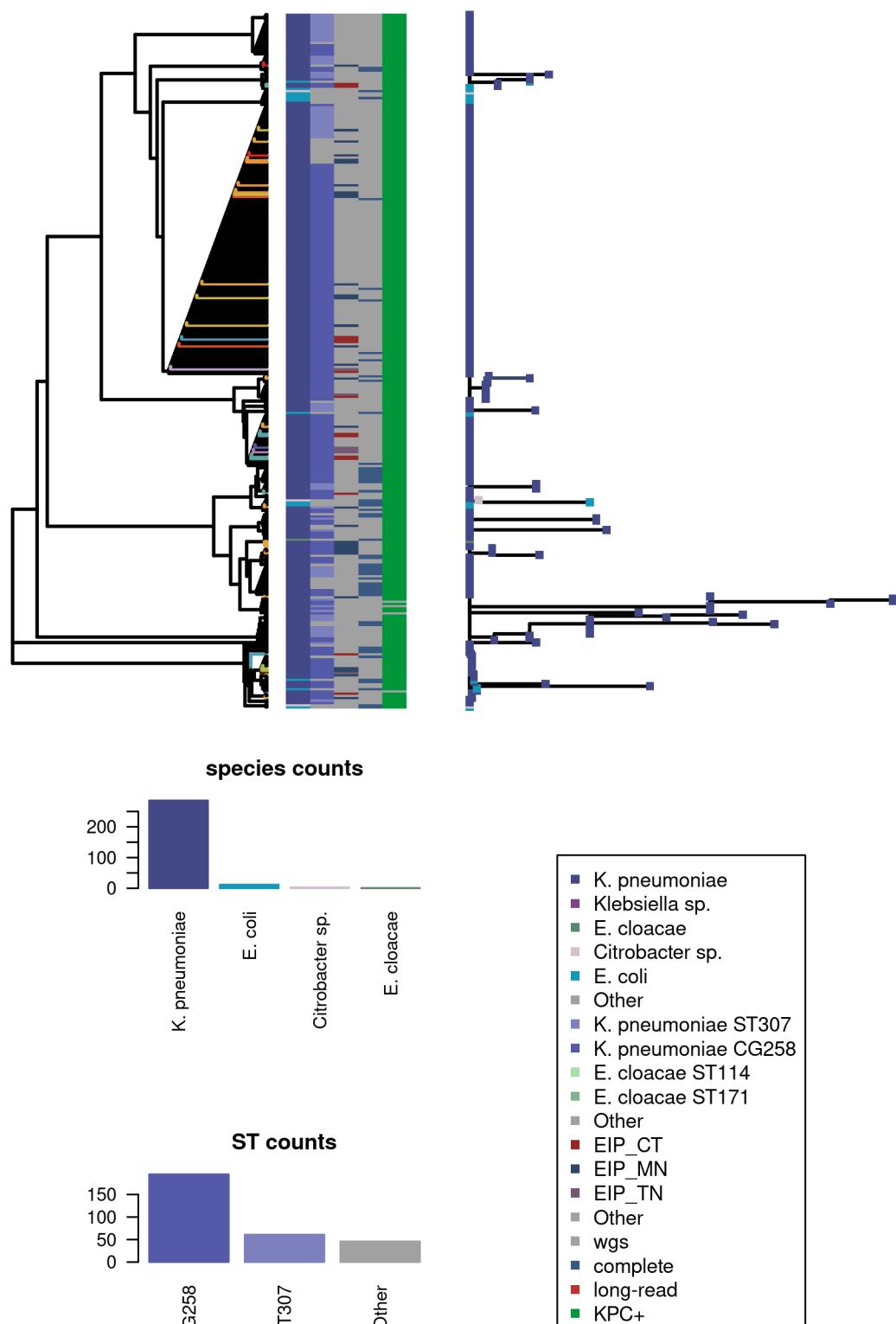
Gene cluster 27 concatenated gene tree

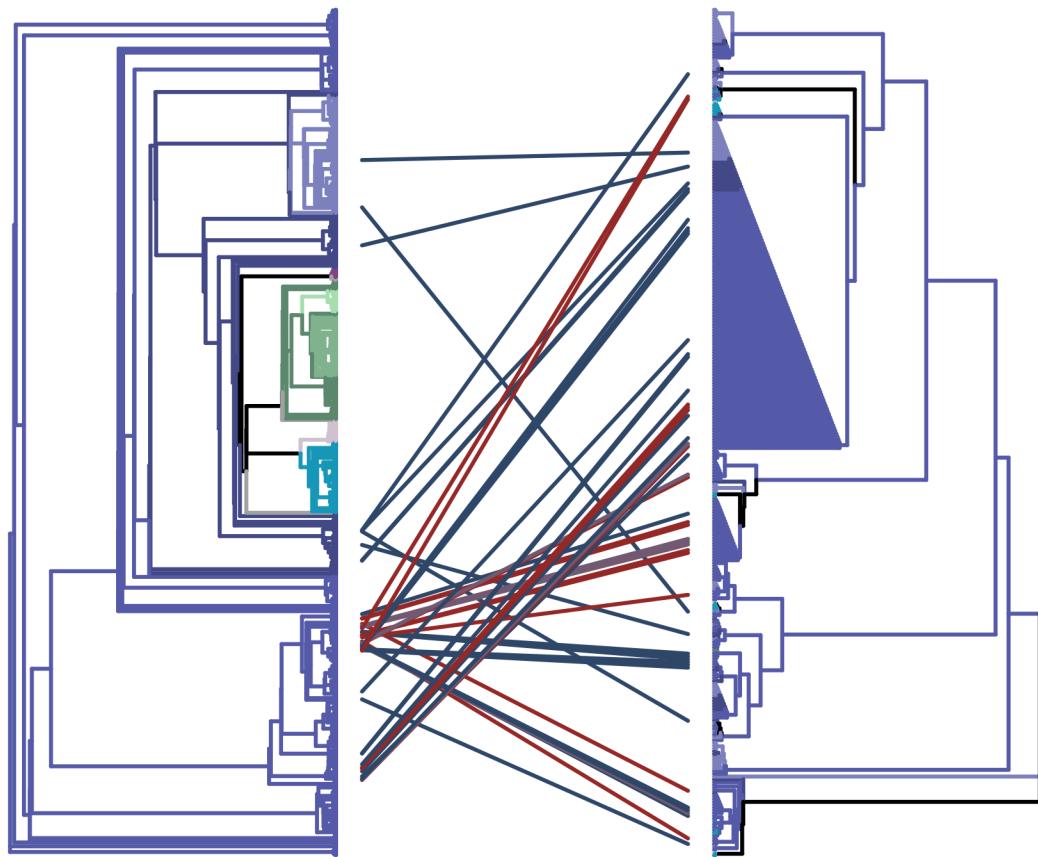


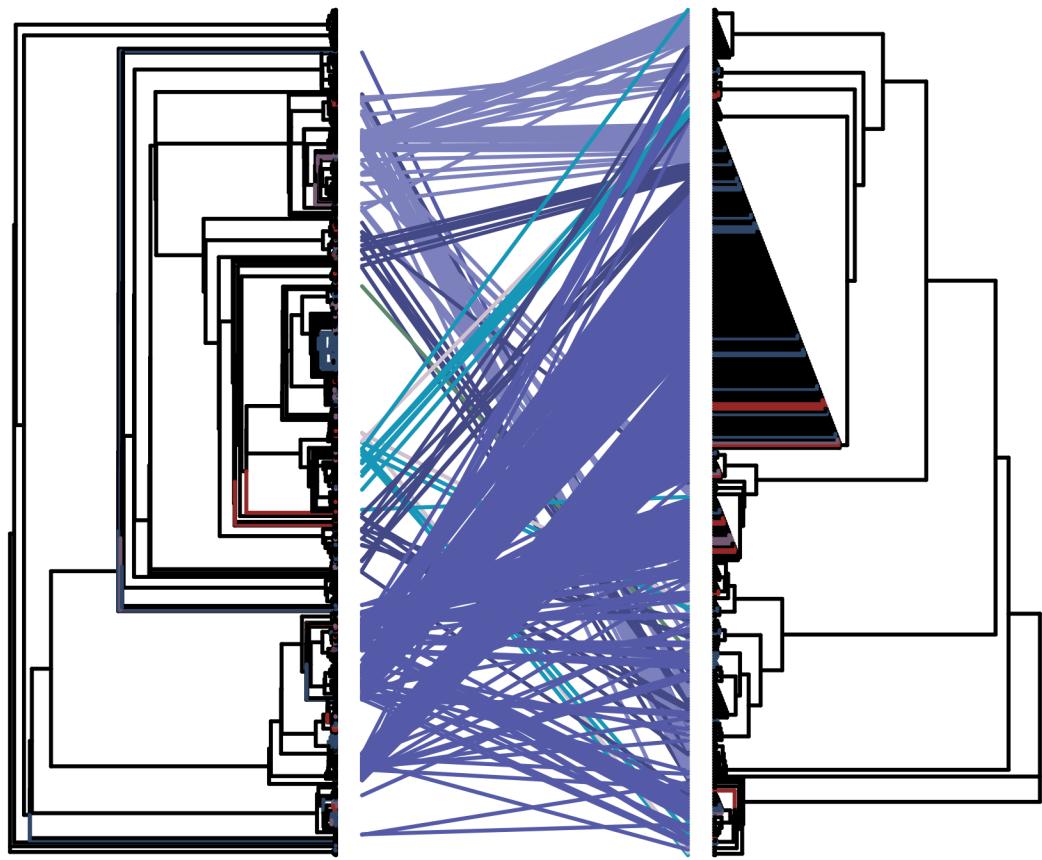




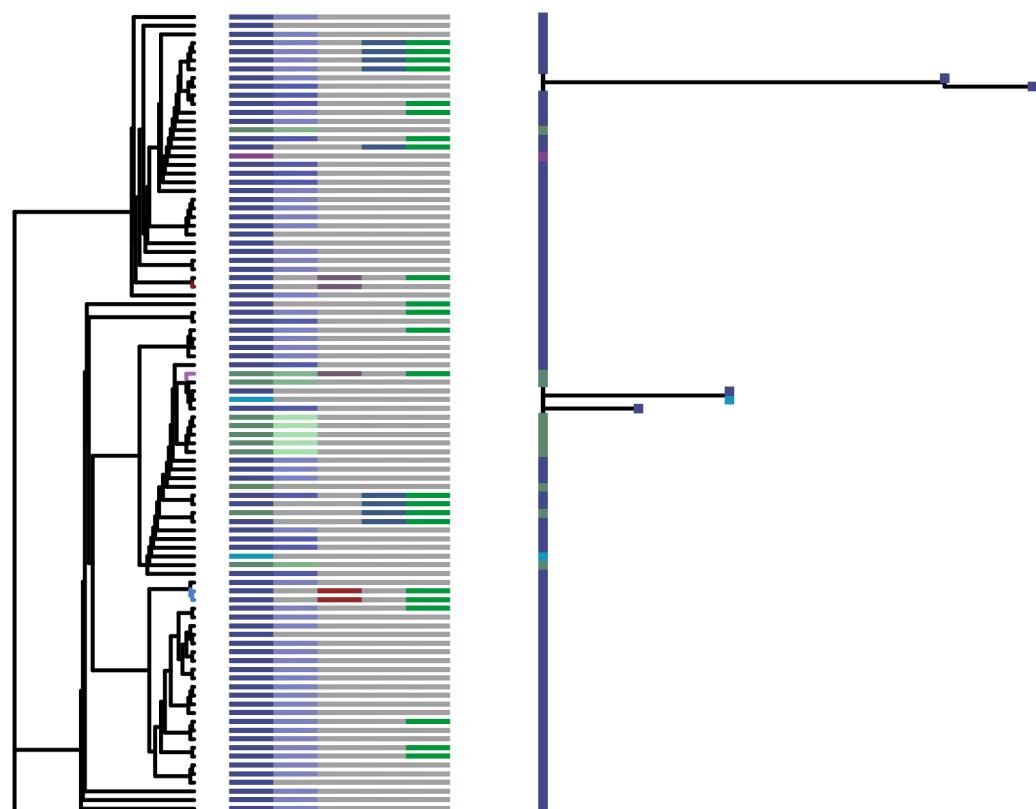
Gene cluster 28 concatenated gene tree



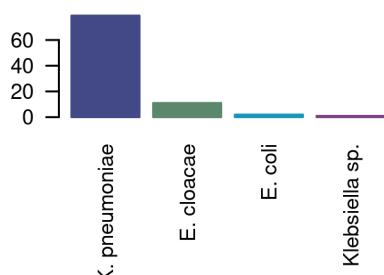




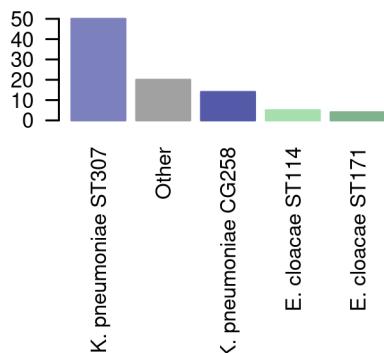
Gene cluster 29 concatenated gene tree



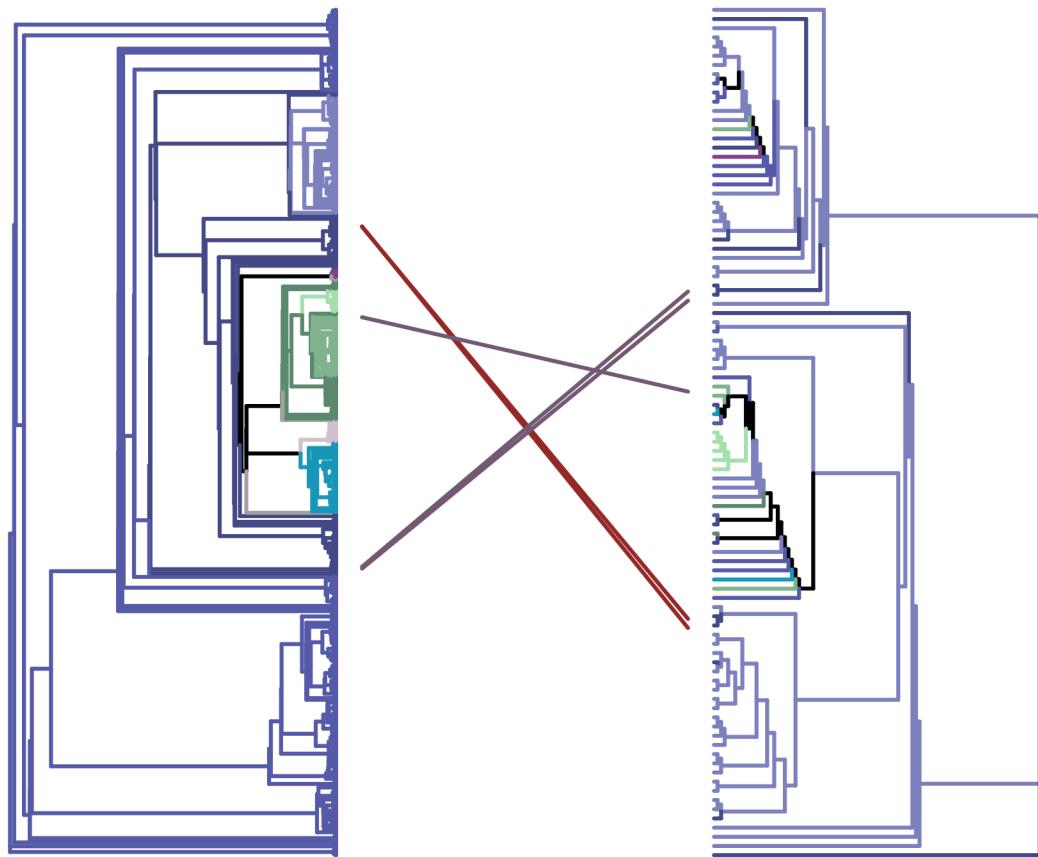
species counts

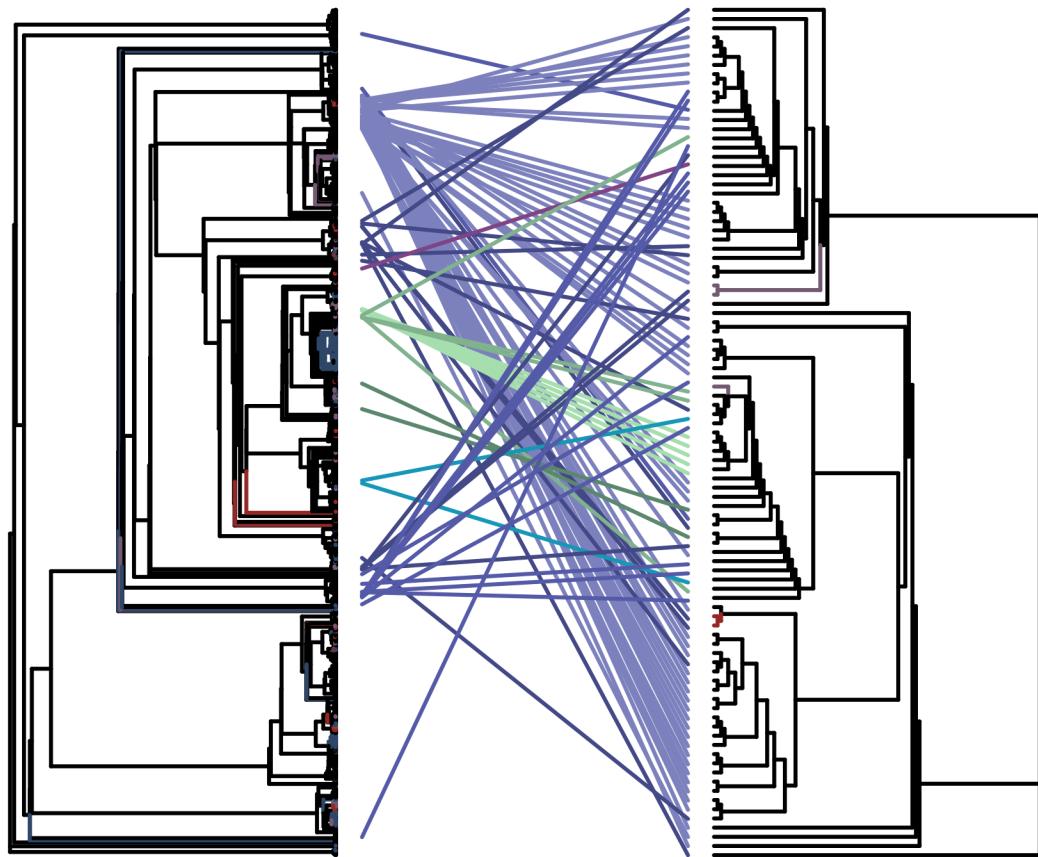


ST counts

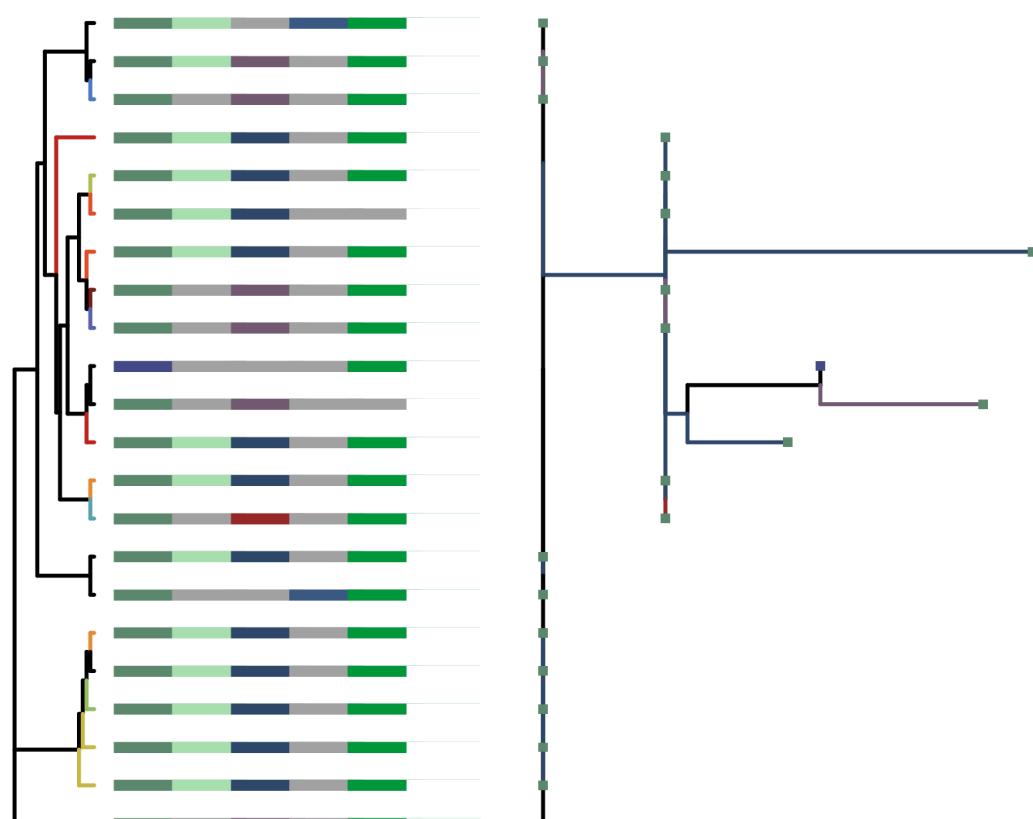


- *K. pneumoniae*
- *Klebsiella* sp.
- *E. cloacae*
- *Citrobacter* sp.
- *E. coli*
- Other
- *K. pneumoniae* ST307
- *K. pneumoniae* CG258
- *E. cloacae* ST114
- *E. cloacae* ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- wgs
- complete
- long-read
- KPC+
- KPC-

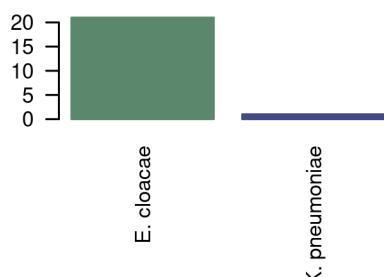




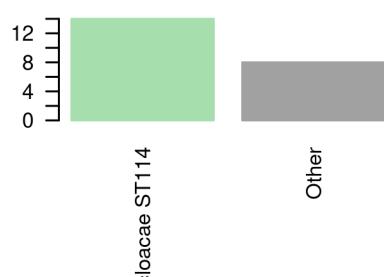
Gene cluster 30 concatenated gene tree



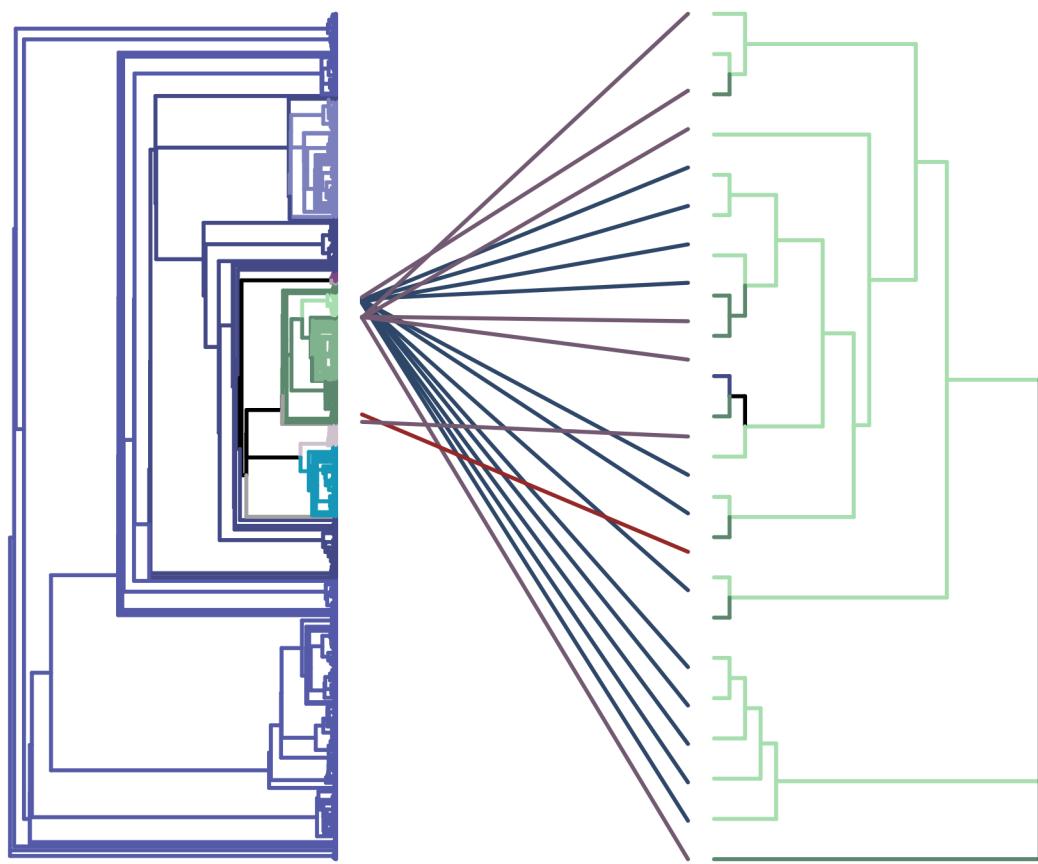
species counts

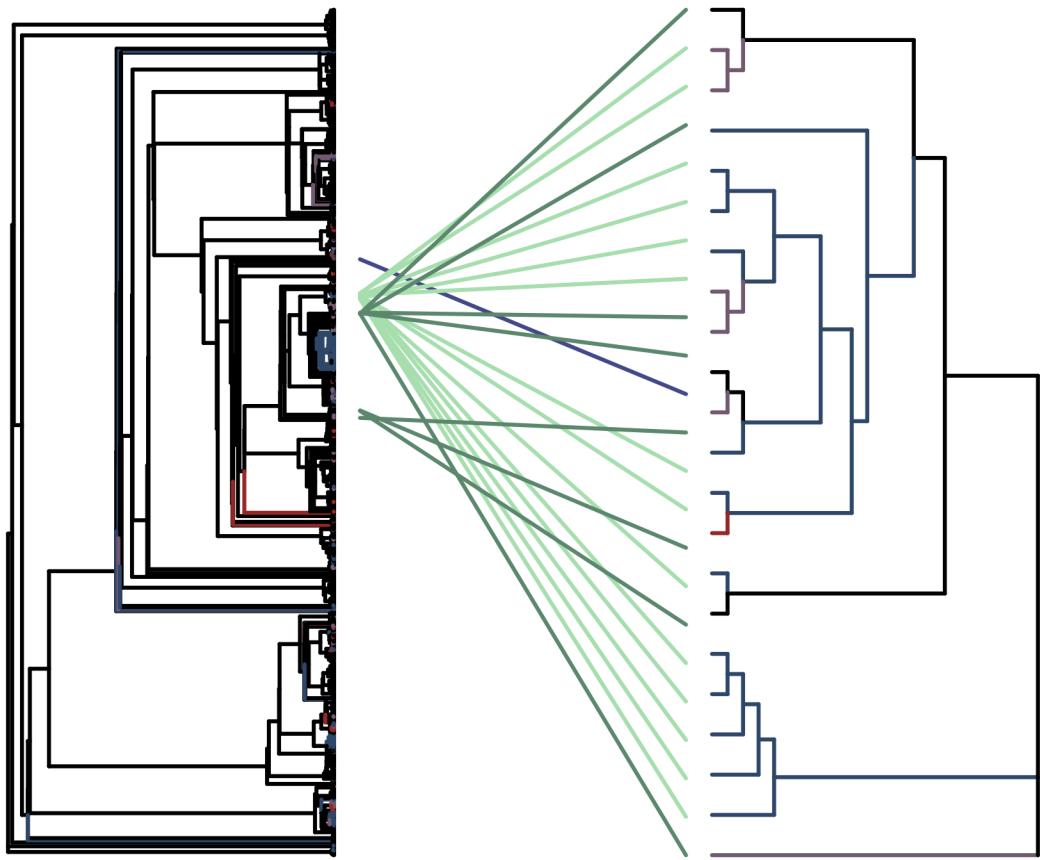


ST counts

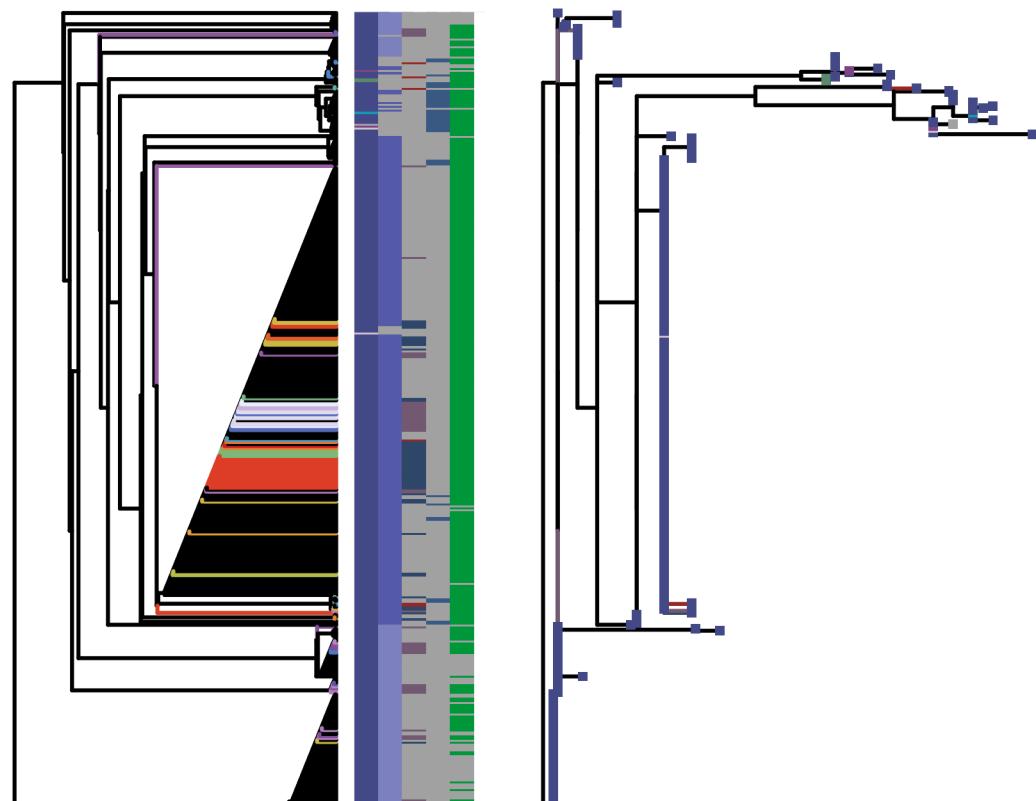


- K. pneumoniae
- Klebsiella sp.
- E. cloacae
- Citrobacter sp.
- E. coli
- Other
- K. pneumoniae ST307
- K. pneumoniae CG258
- E. cloacae ST114
- E. cloacae ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-

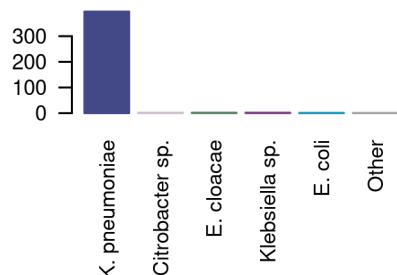




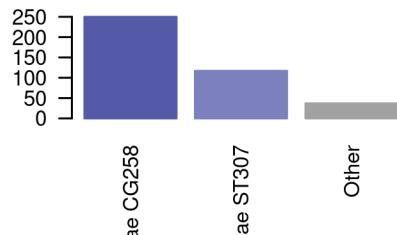
Gene cluster 31 concatenated gene tree



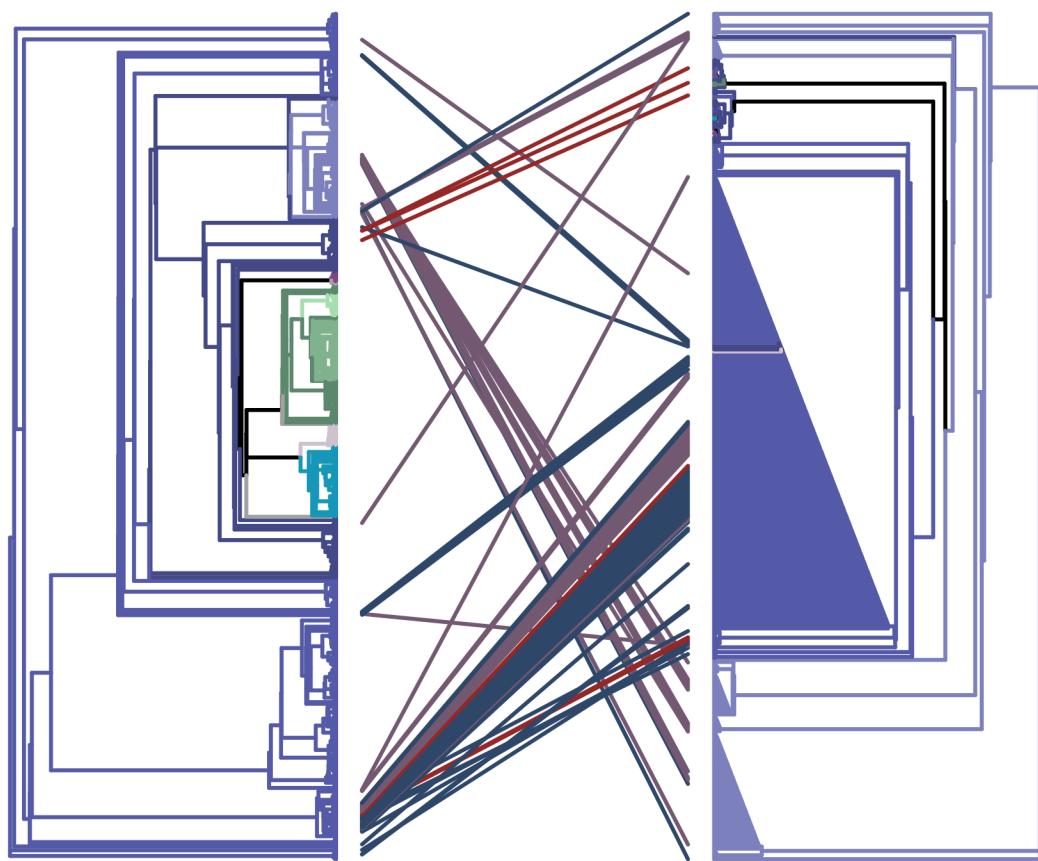
species counts

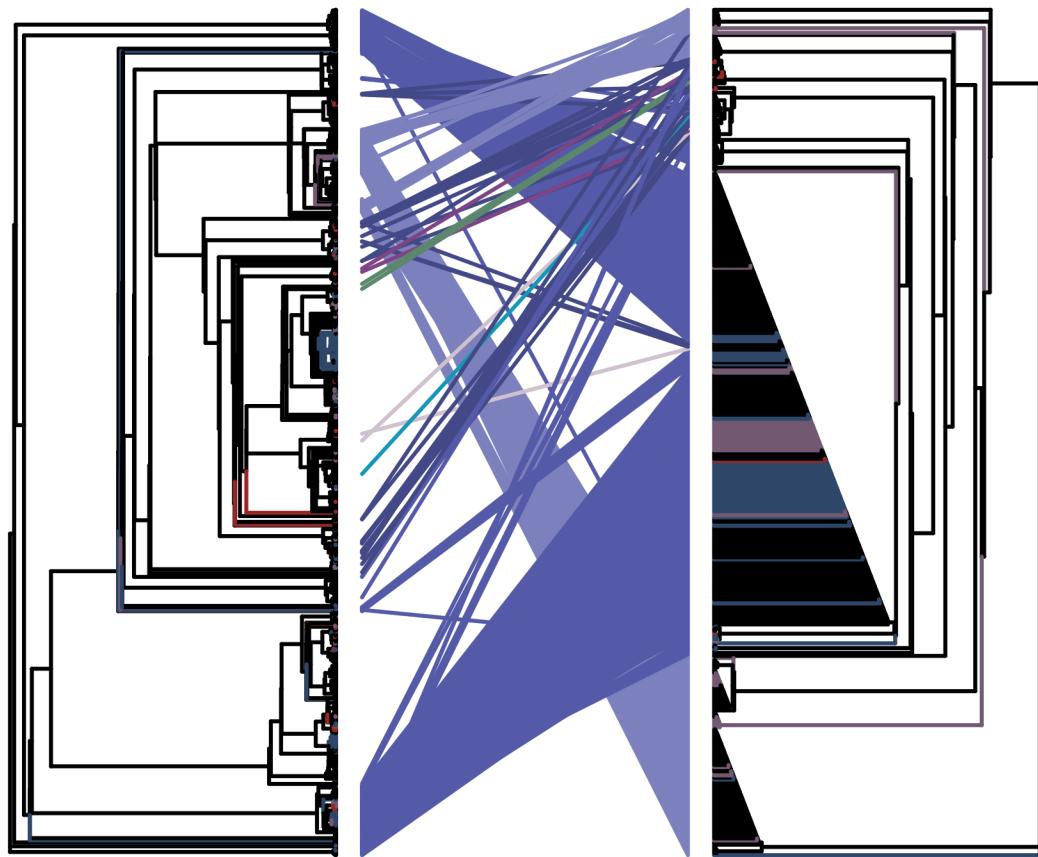


ST counts

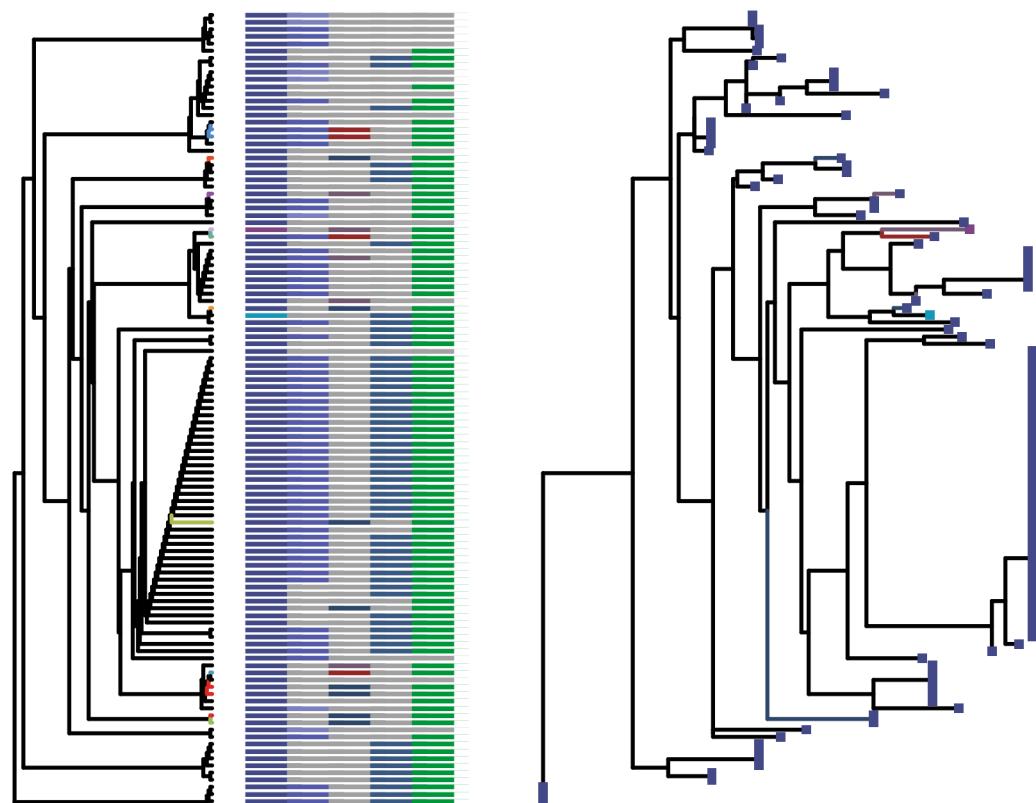


- K. pneumoniae
- Klebsiella sp.
- E. cloacae
- Citrobacter sp.
- E. coli
- Other
- K. pneumoniae ST307
- K. pneumoniae CG258
- E. cloacae ST114
- E. cloacae ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-

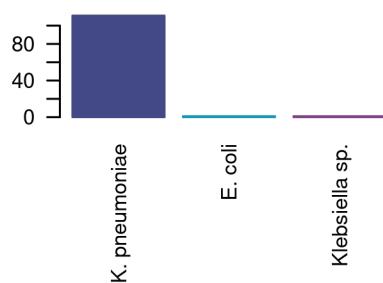




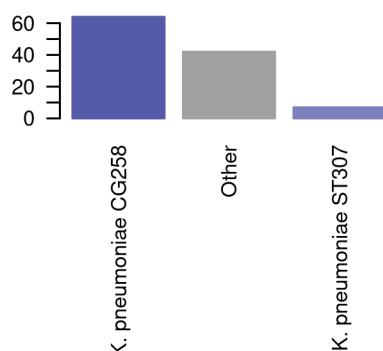
Gene cluster 32 concatenated gene tree



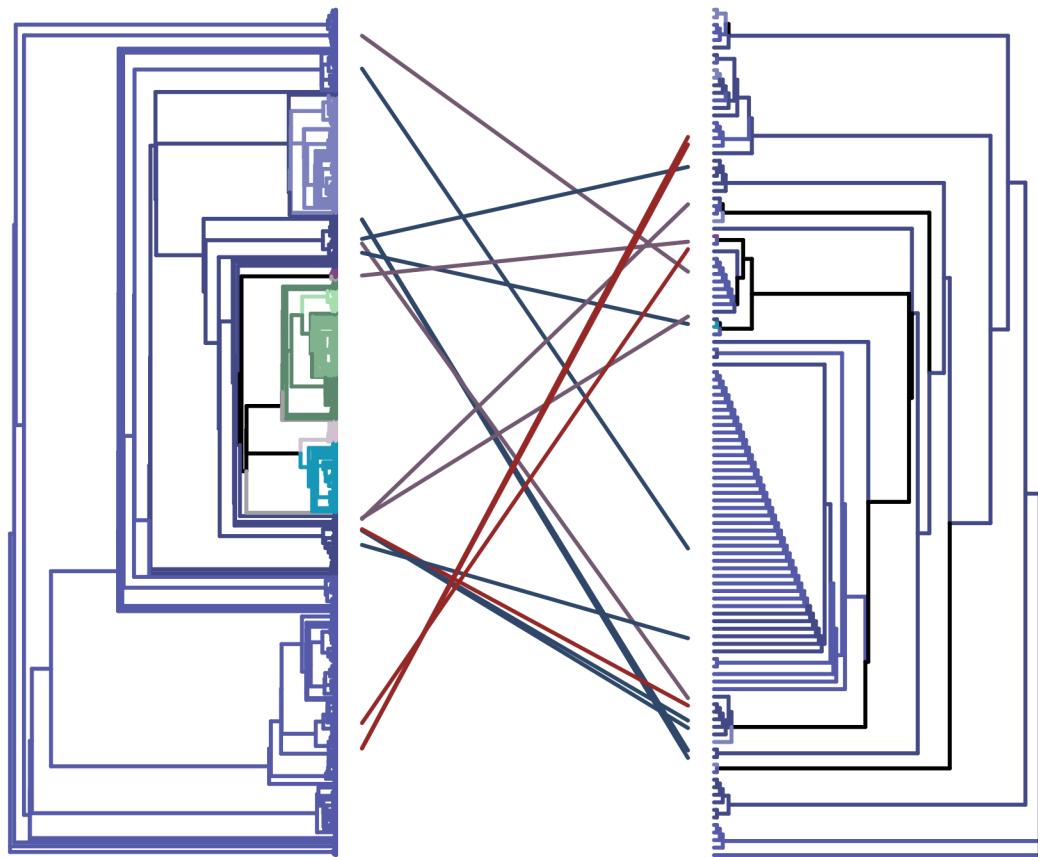
species counts

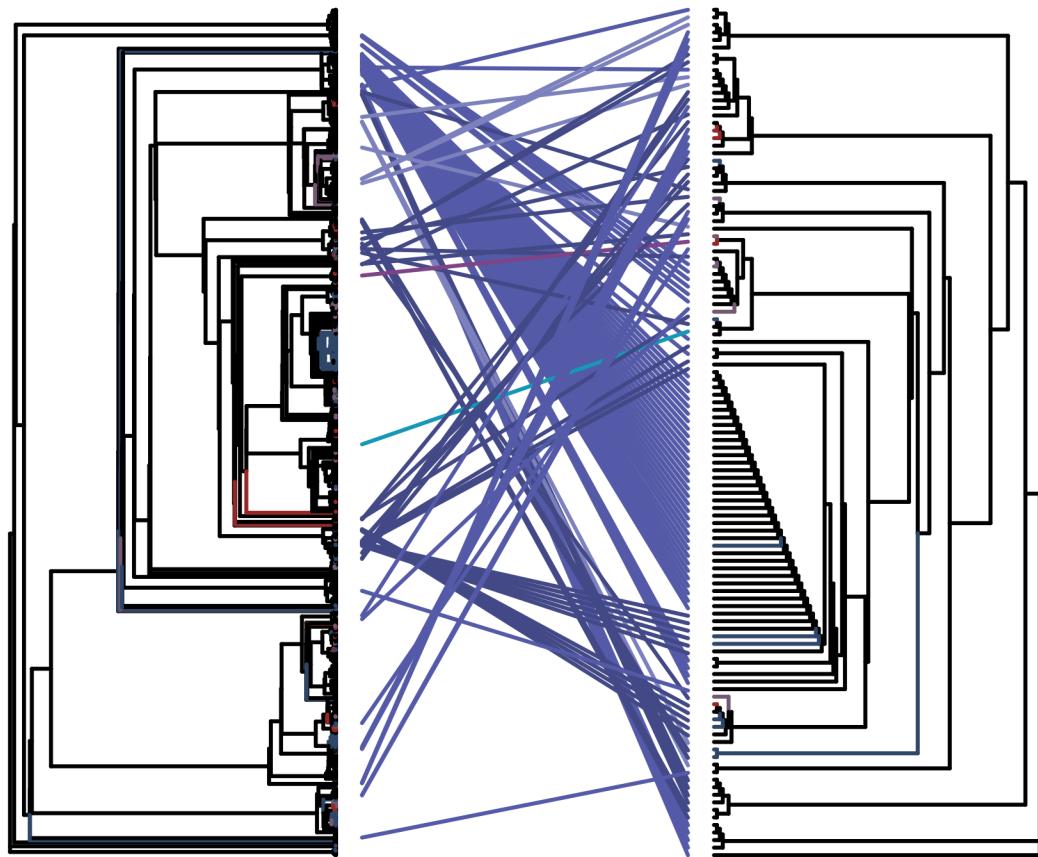


ST counts

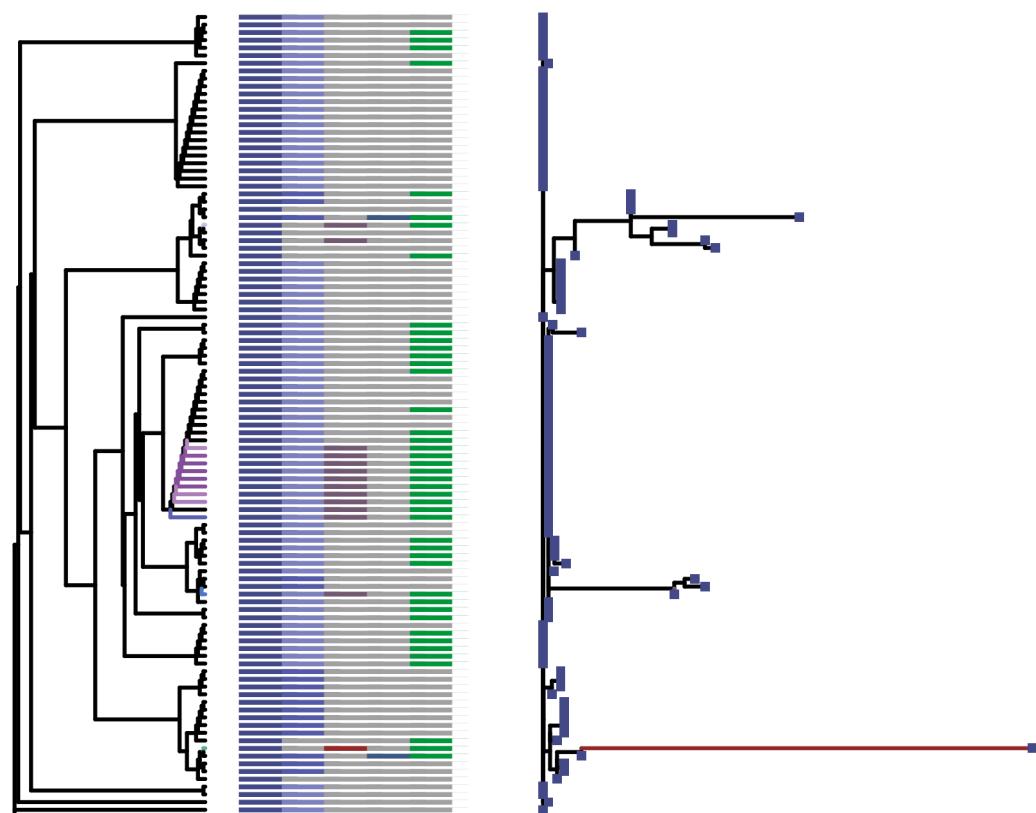


- K. pneumoniae
- Klebsiella sp.
- E. cloacae
- Citrobacter sp.
- E. coli
- Other
- K. pneumoniae ST307
- K. pneumoniae CG258
- E. cloacae ST114
- E. cloacae ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-





Gene cluster 33 concatenated gene tree



species counts



K. pneumoniae

ST counts

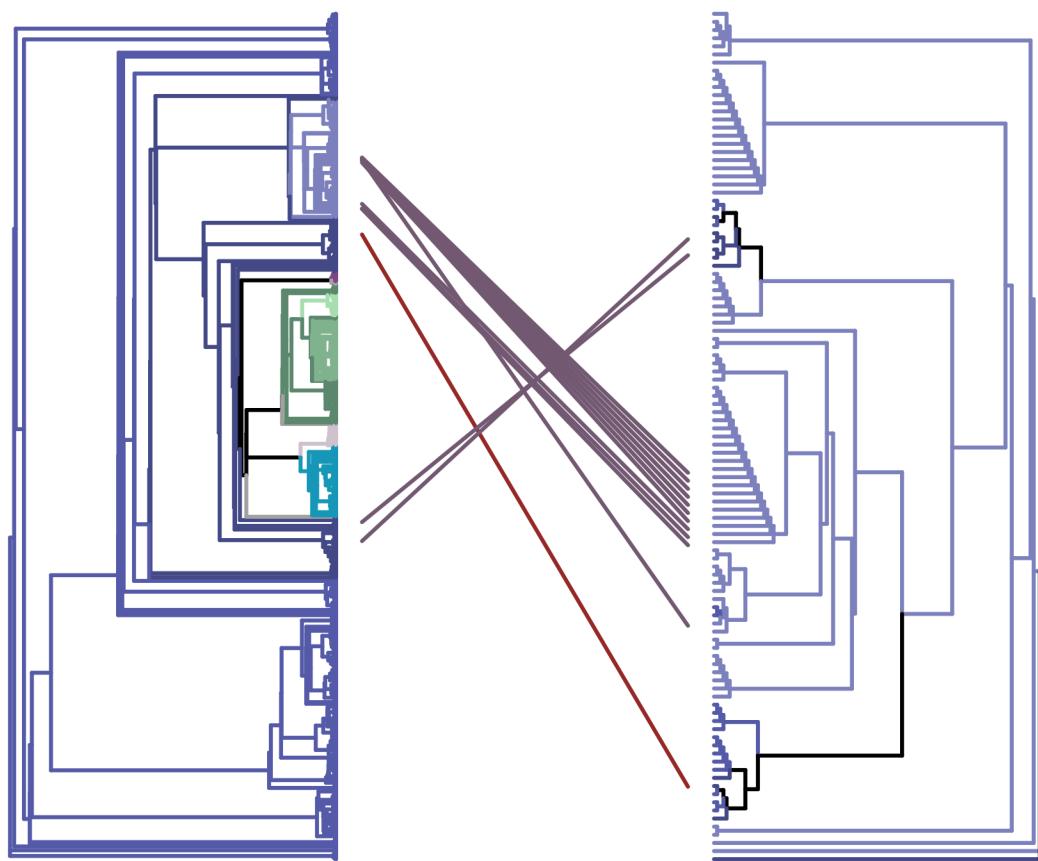


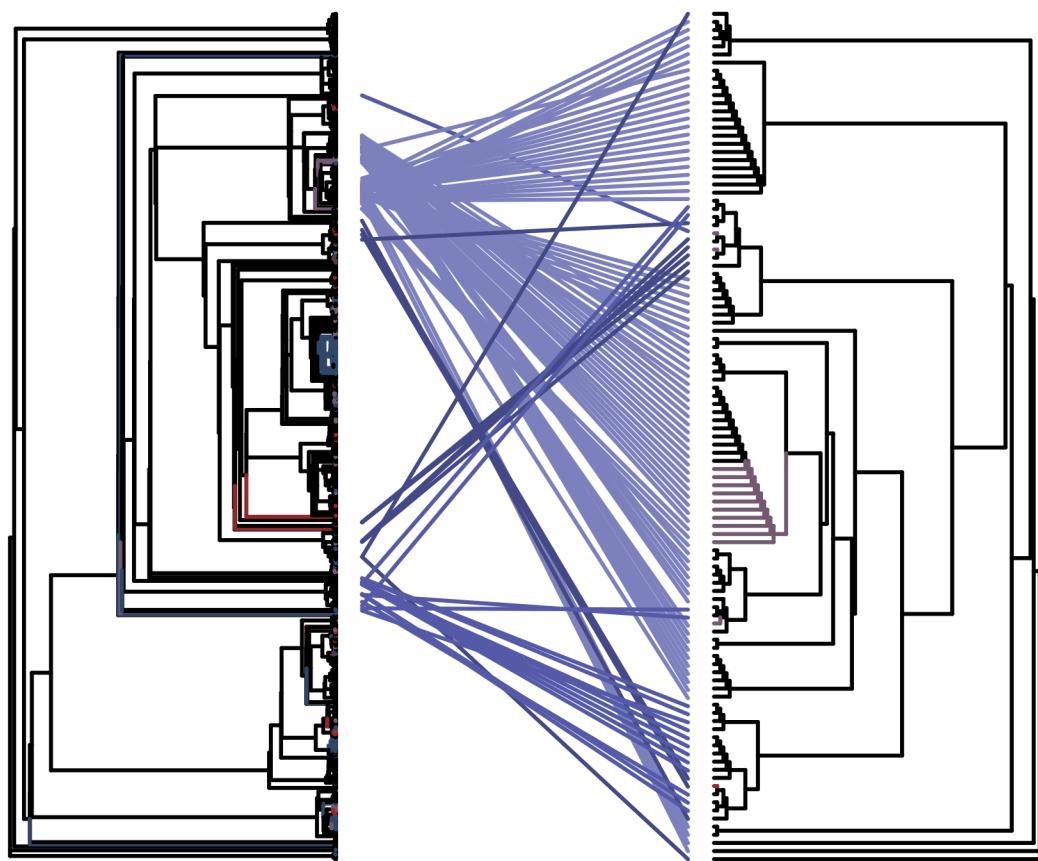
K. pneumoniae ST307

K. pneumoniae CG258

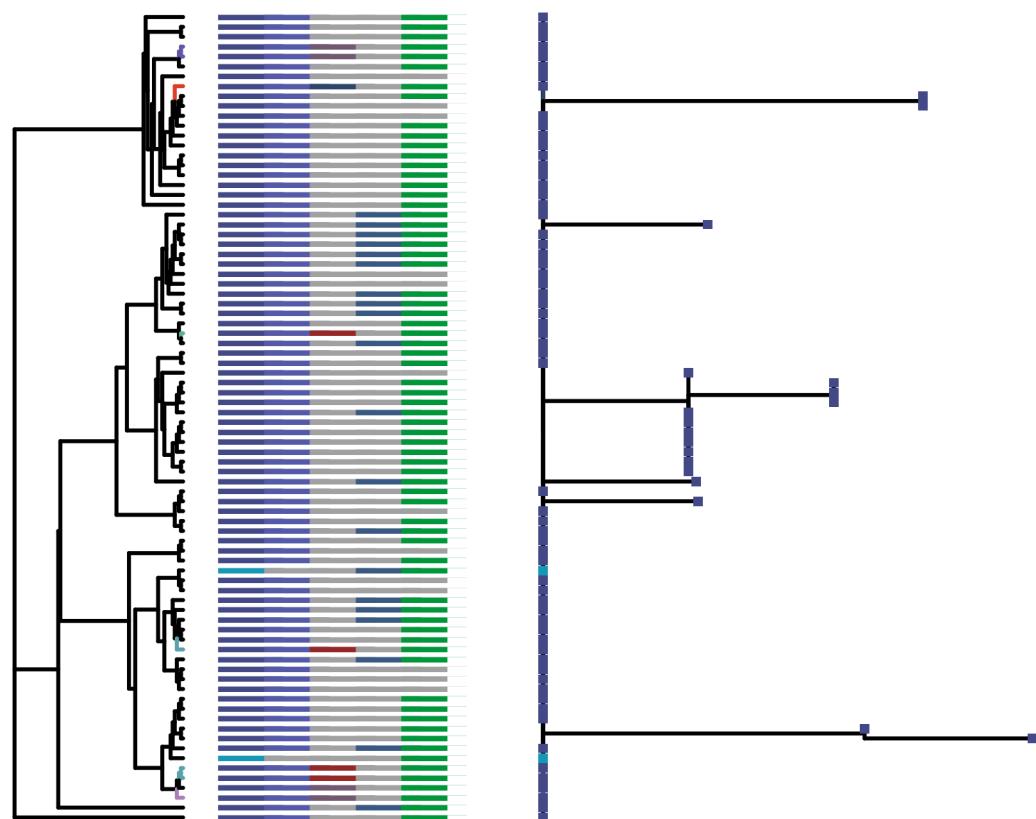
Other

- K. pneumoniae
- Klebsiella sp.
- E. cloacae
- Citrobacter sp.
- E. coli
- Other
- K. pneumoniae ST307
- K. pneumoniae CG258
- E. cloacae ST114
- E. cloacae ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-





Gene cluster 34 concatenated gene tree



species counts



K. pneumoniae

E. coli

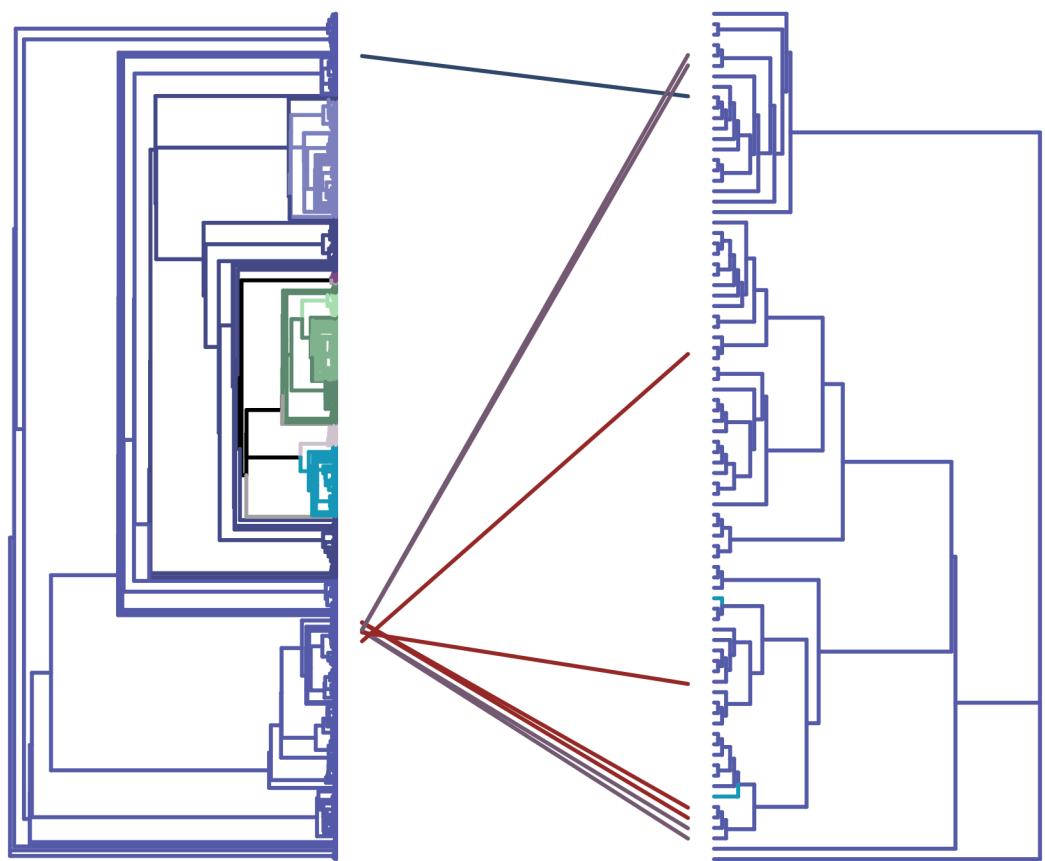
ST counts

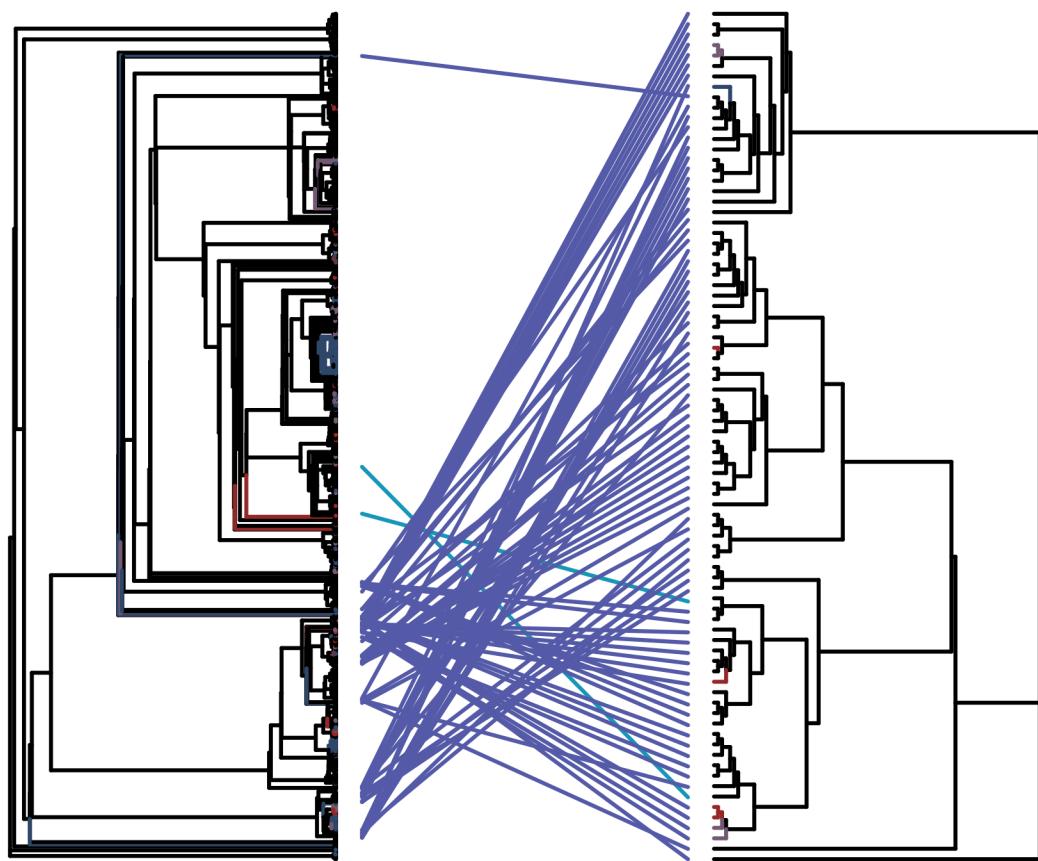


K. pneumoniae CG258

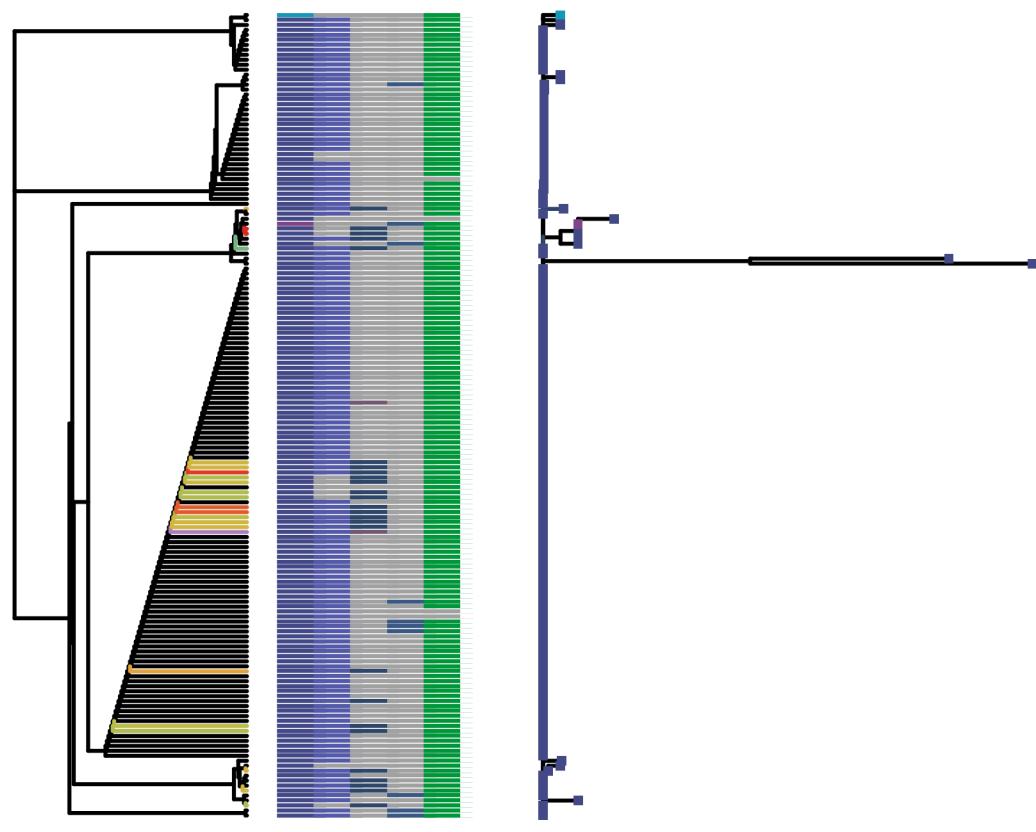
Other

- K. pneumoniae
- Klebsiella sp.
- E. cloacae
- Citrobacter sp.
- E. coli
- Other
- K. pneumoniae ST307
- K. pneumoniae CG258
- E. cloacae ST114
- E. cloacae ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-

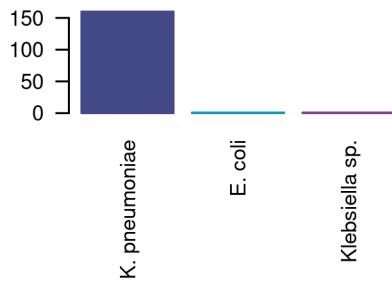




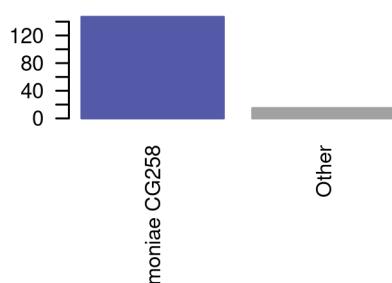
Gene cluster 35 concatenated gene tree



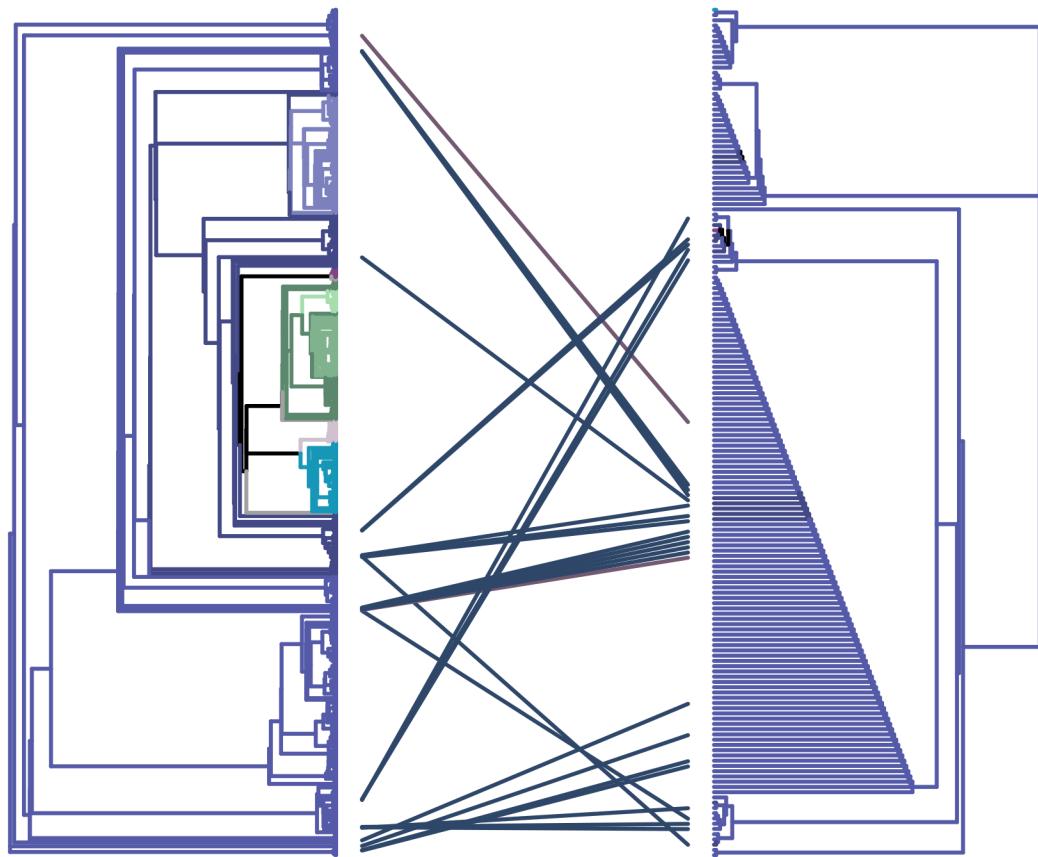
species counts

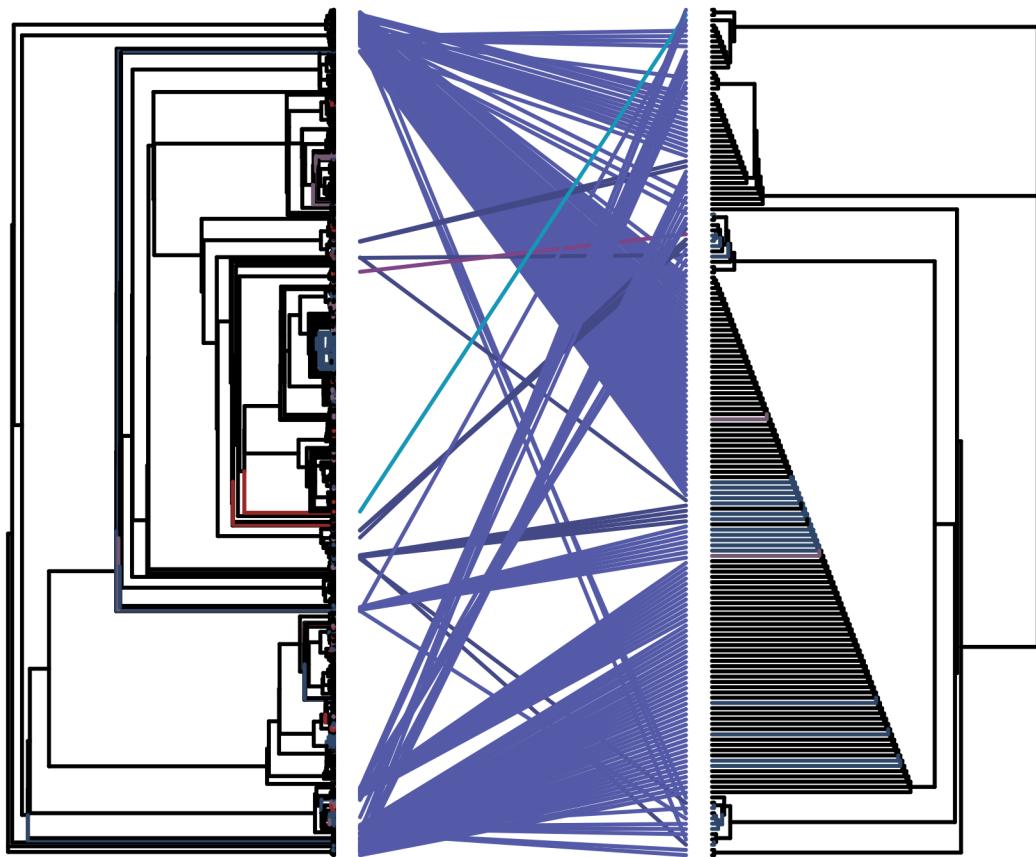


ST counts

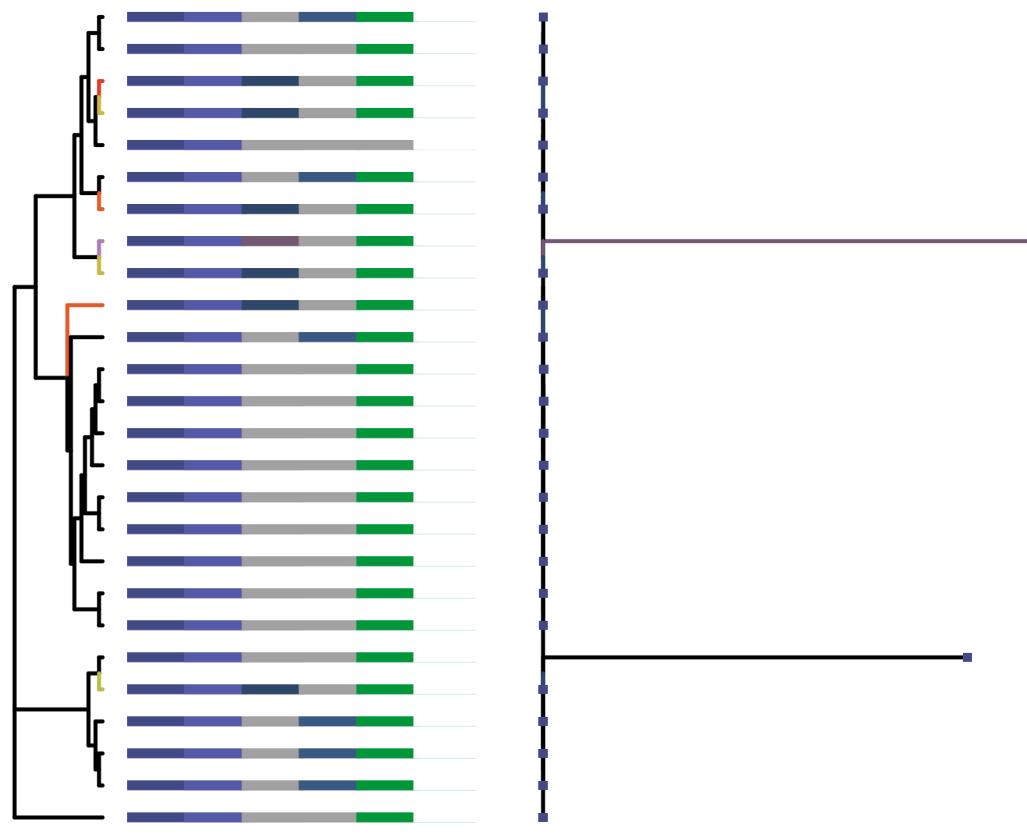


- K. pneumoniae
- Klebsiella sp.
- E. cloacae
- Citrobacter sp.
- E. coli
- Other
- K. pneumoniae ST307
- K. pneumoniae CG258
- E. cloacae ST114
- E. cloacae ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-





Gene cluster 36 concatenated gene tree



species counts



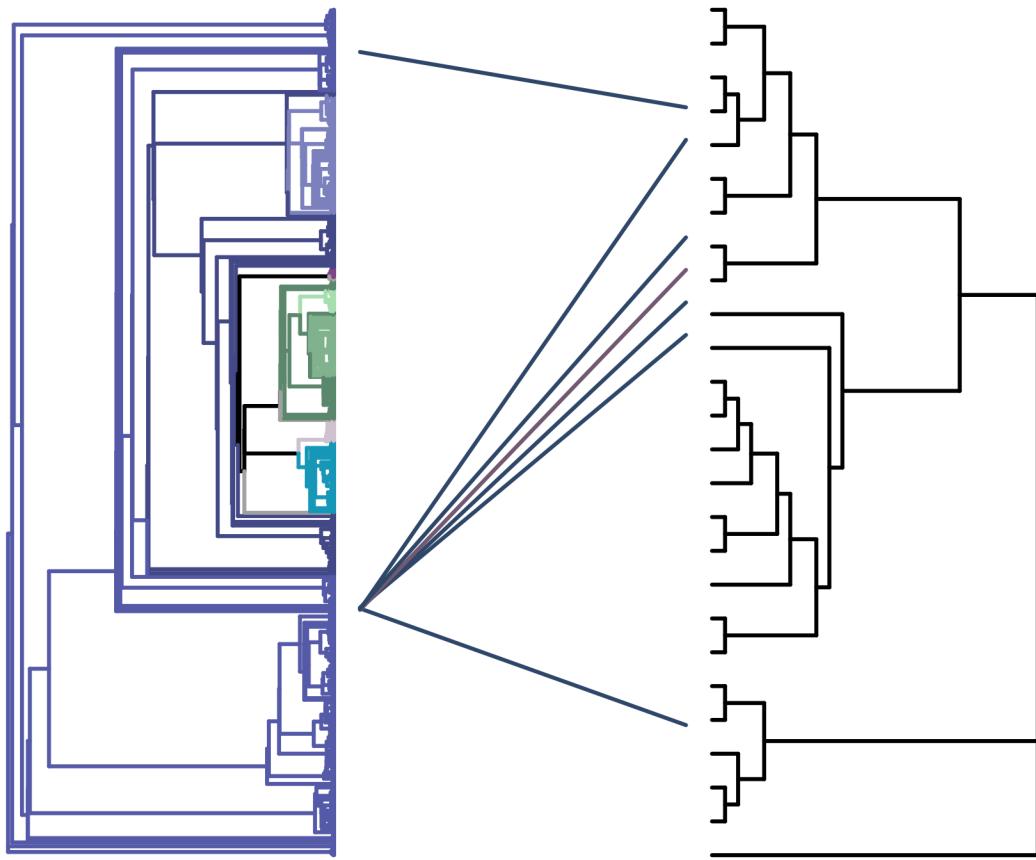
K. pneumoniae

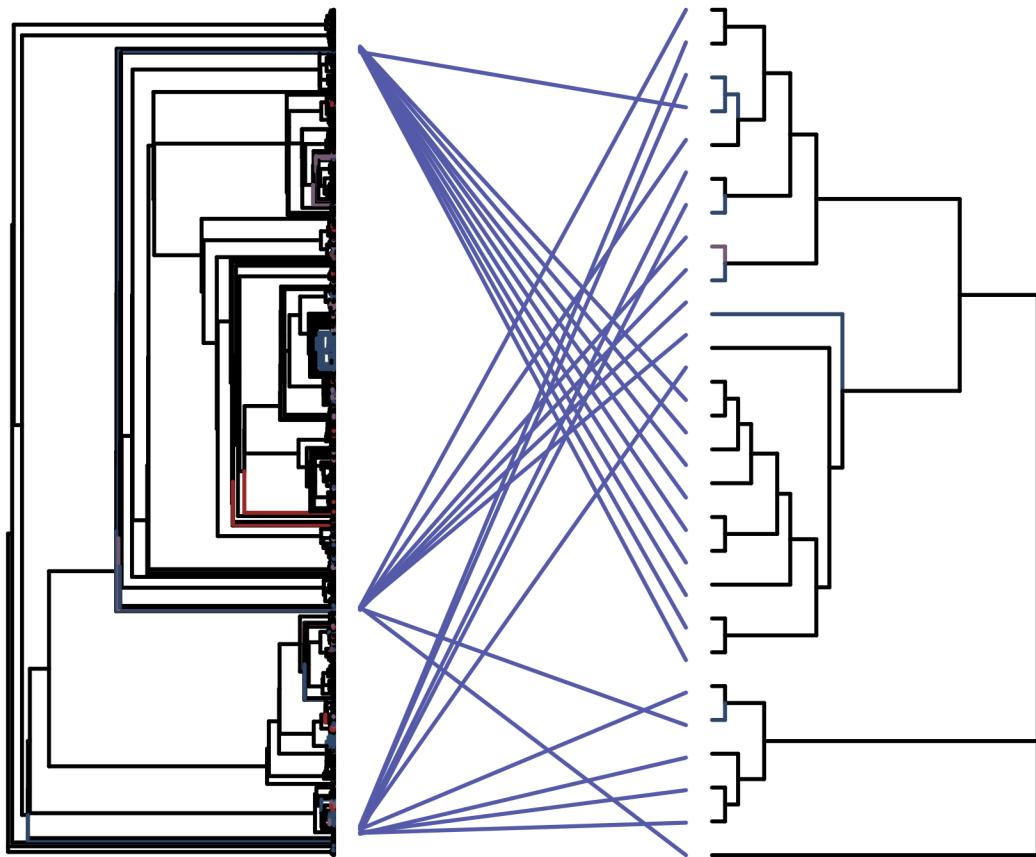
ST counts



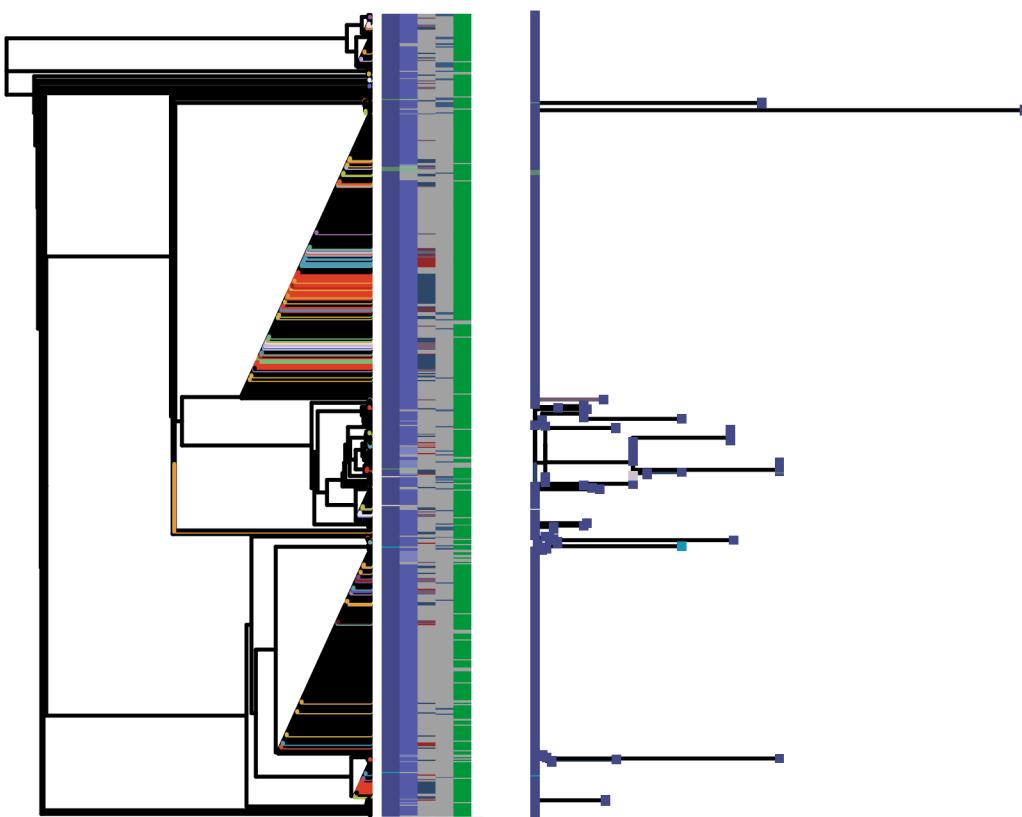
K. pneumoniae CG258

- *K. pneumoniae*
- Klebsiella sp.
- *E. cloacae*
- Citrobacter sp.
- *E. coli*
- Other
- *K. pneumoniae* ST307
- *K. pneumoniae* CG258
- *E. cloacae* ST114
- *E. cloacae* ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-

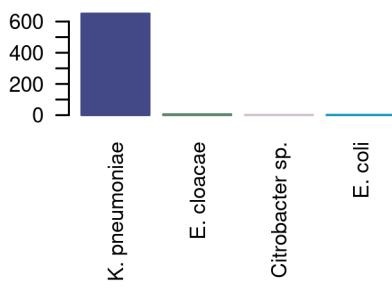




Gene cluster 37 concatenated gene tree

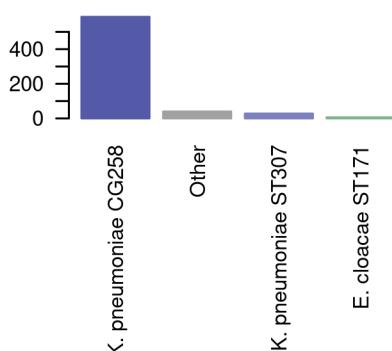


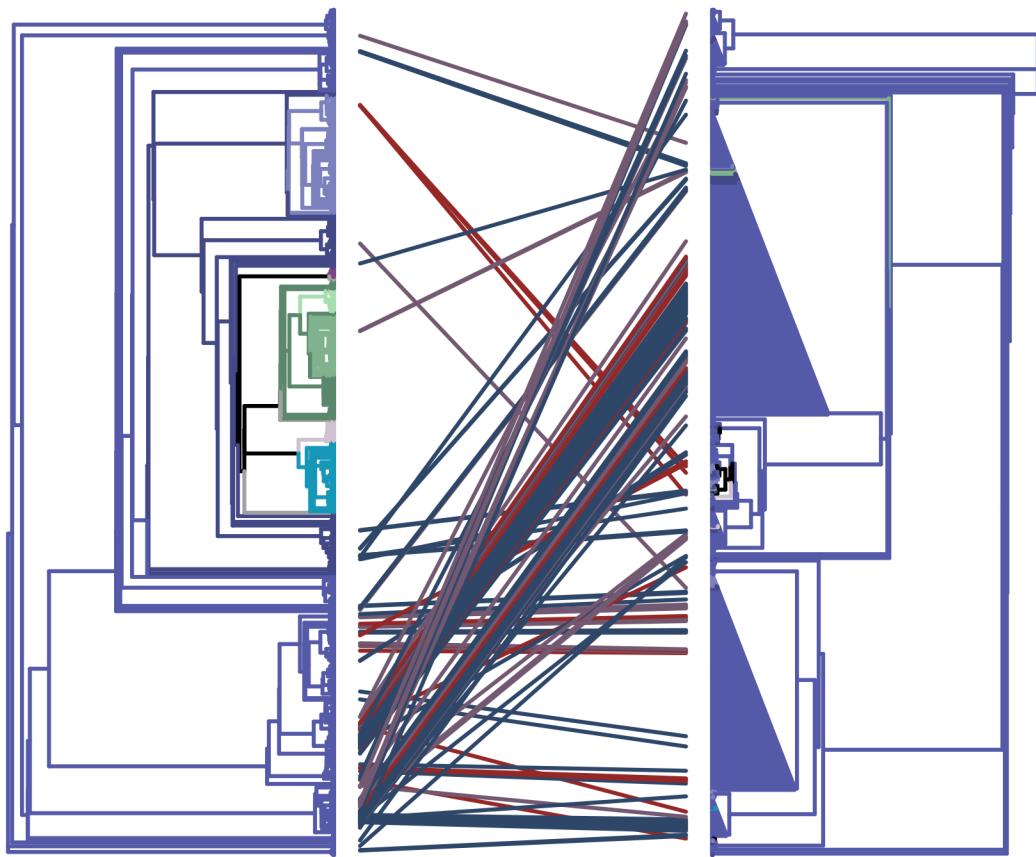
species counts

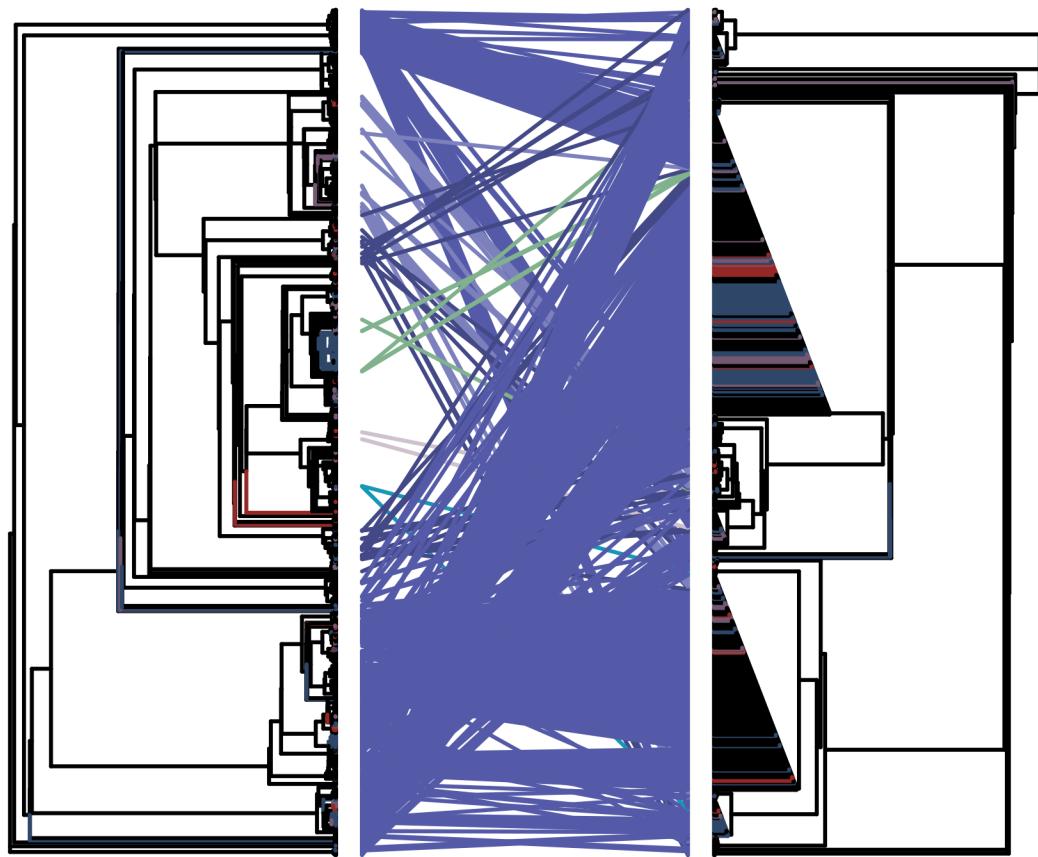


- K. pneumoniae
- Klebsiella sp.
- E. cloacae
- Citrobacter sp.
- E. coli
- Other
- K. pneumoniae ST307
- K. pneumoniae CG258
- E. cloacae ST114
- E. cloacae ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- wgs
- complete
- long-read
- KPC+
- KPC-

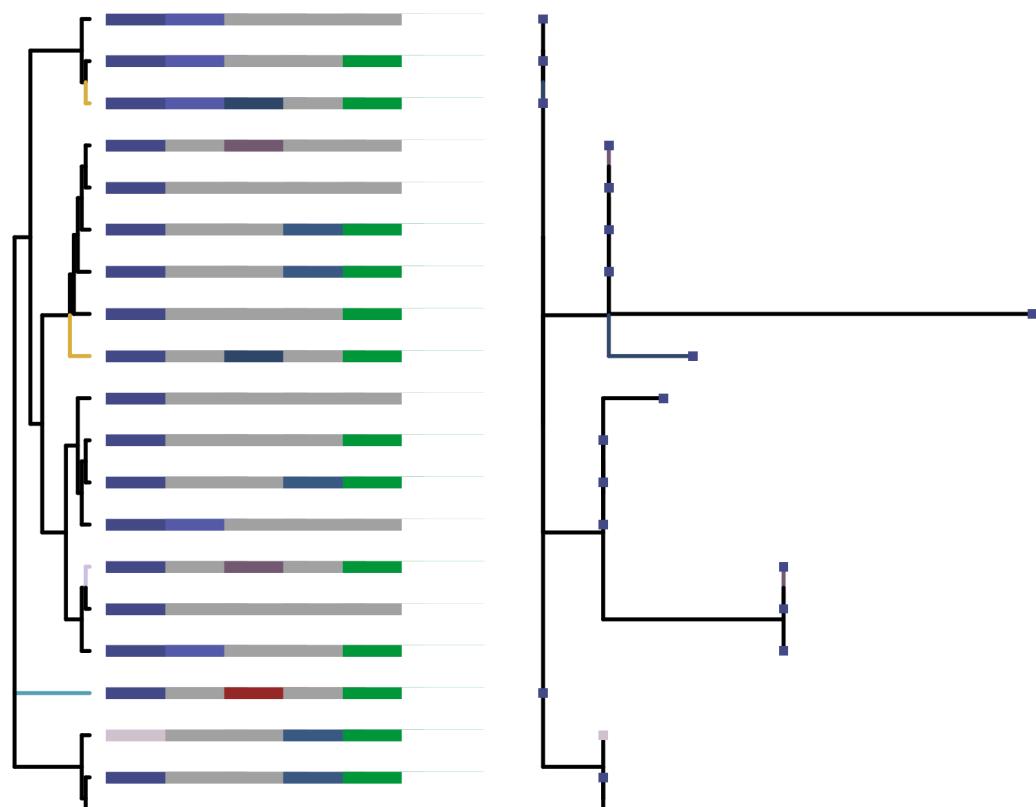
ST counts



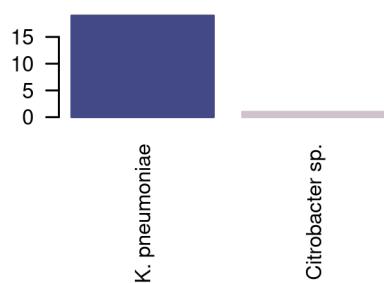




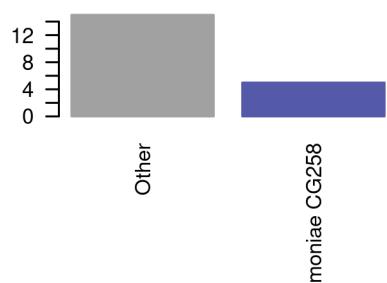
Gene cluster 38 concatenated gene tree



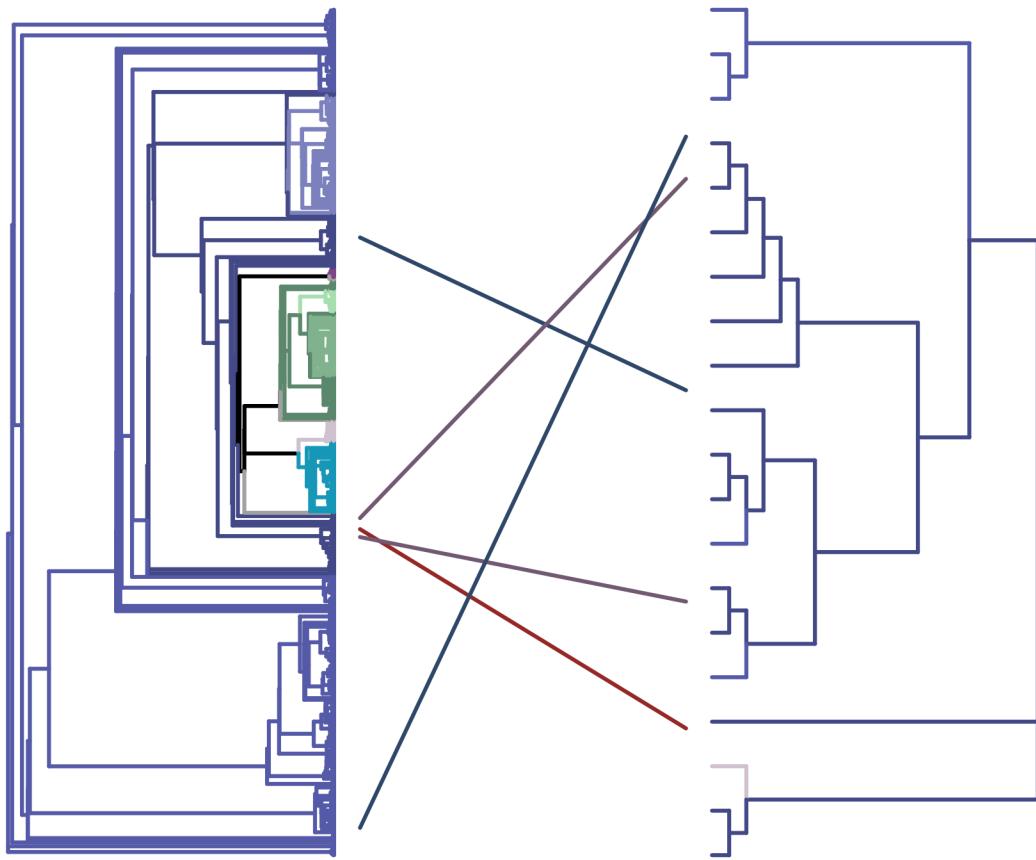
species counts

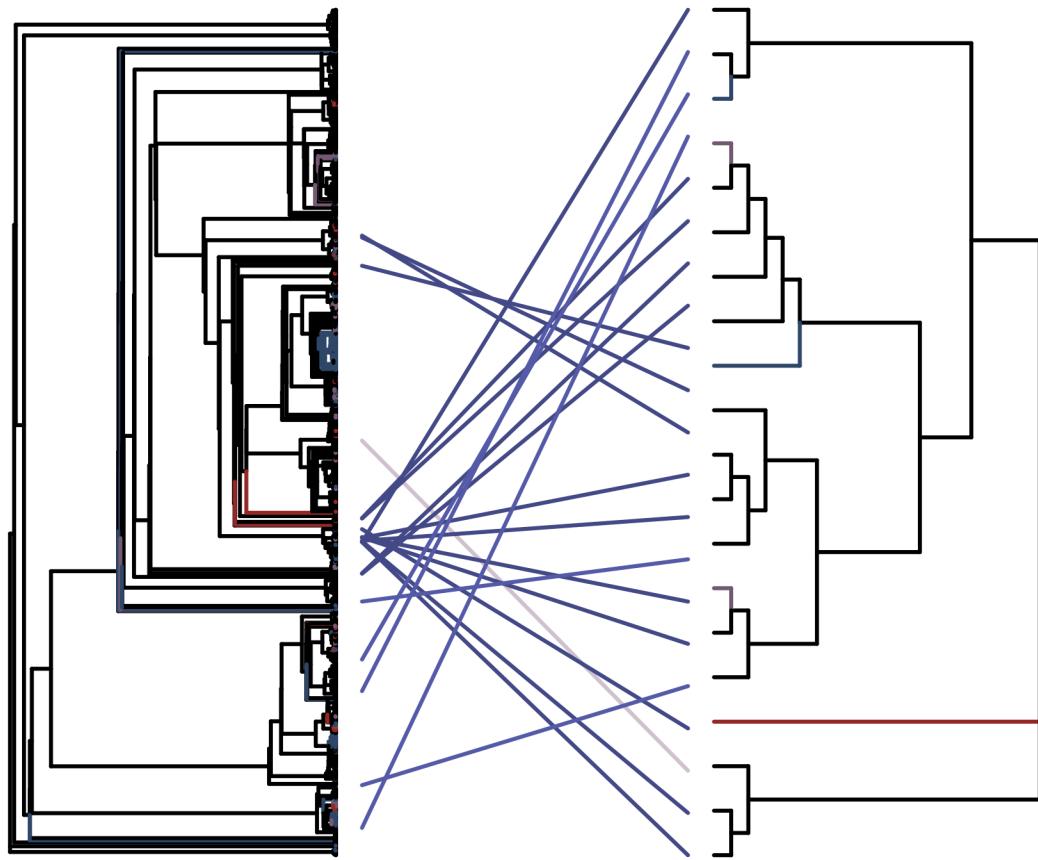


ST counts

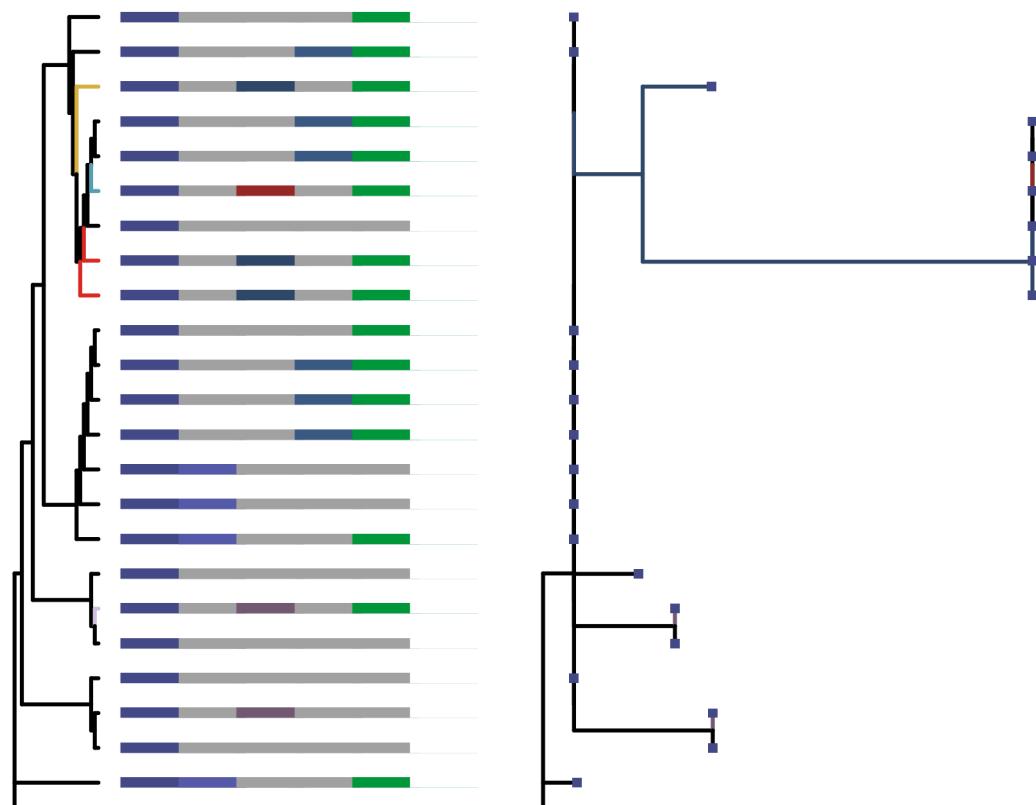


- K. pneumoniae
- Klebsiella sp.
- E. cloacae
- Citrobacter sp.
- E. coli
- Other
- K. pneumoniae ST307
- K. pneumoniae CG258
- E. cloacae ST114
- E. cloacae ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-





Gene cluster 39 concatenated gene tree



species counts

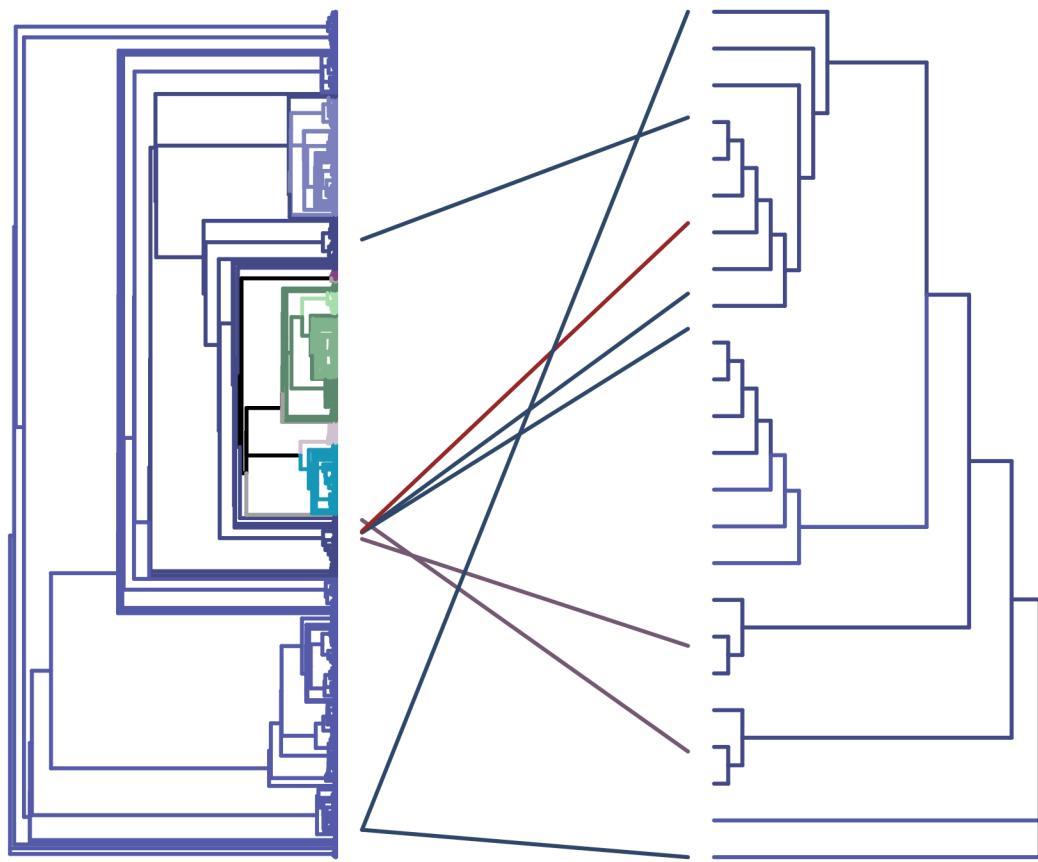


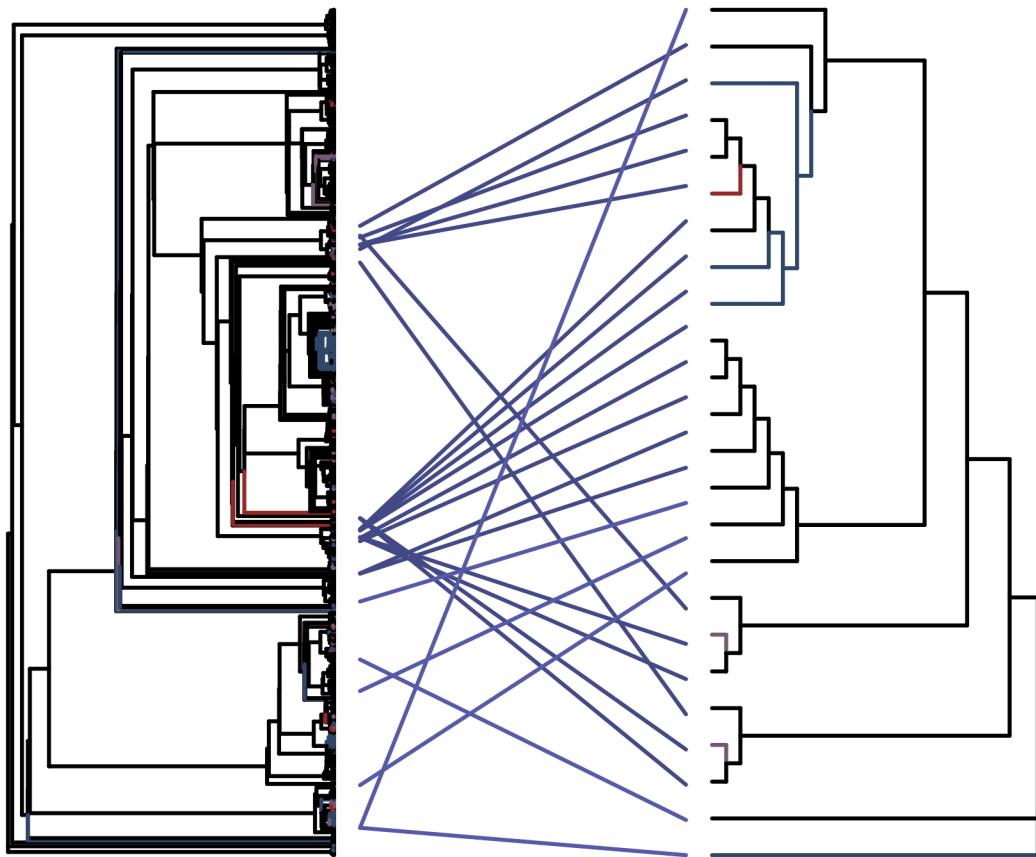
K. pneumoniae

ST counts

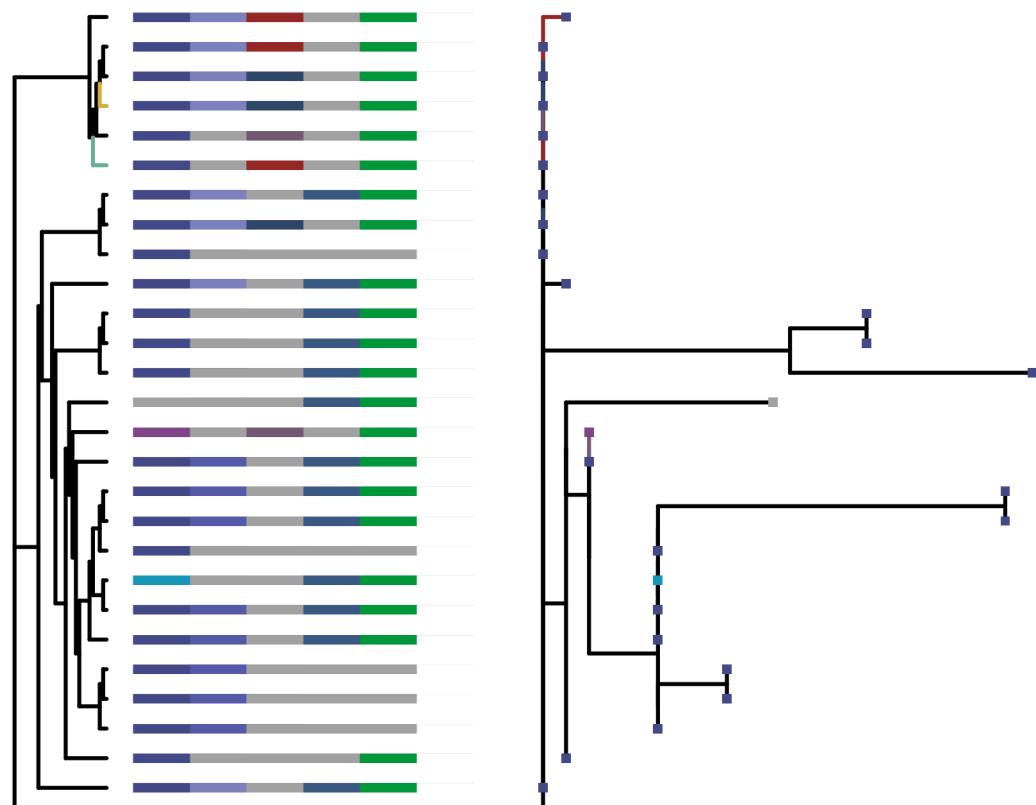


- K. pneumoniae
- Klebsiella sp.
- E. cloacae
- Citrobacter sp.
- E. coli
- Other
- K. pneumoniae ST307
- K. pneumoniae CG258
- E. cloacae ST114
- E. cloacae ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-

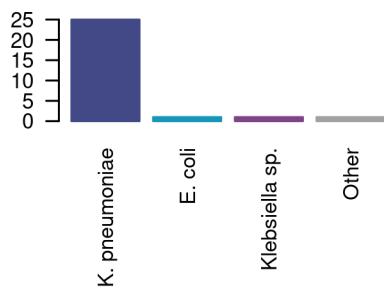




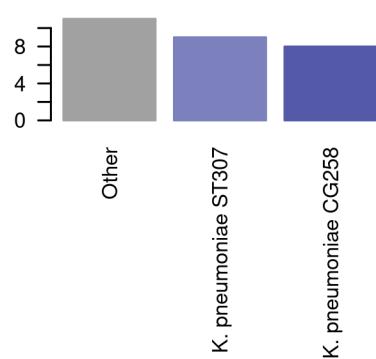
Gene cluster 40 concatenated gene tree



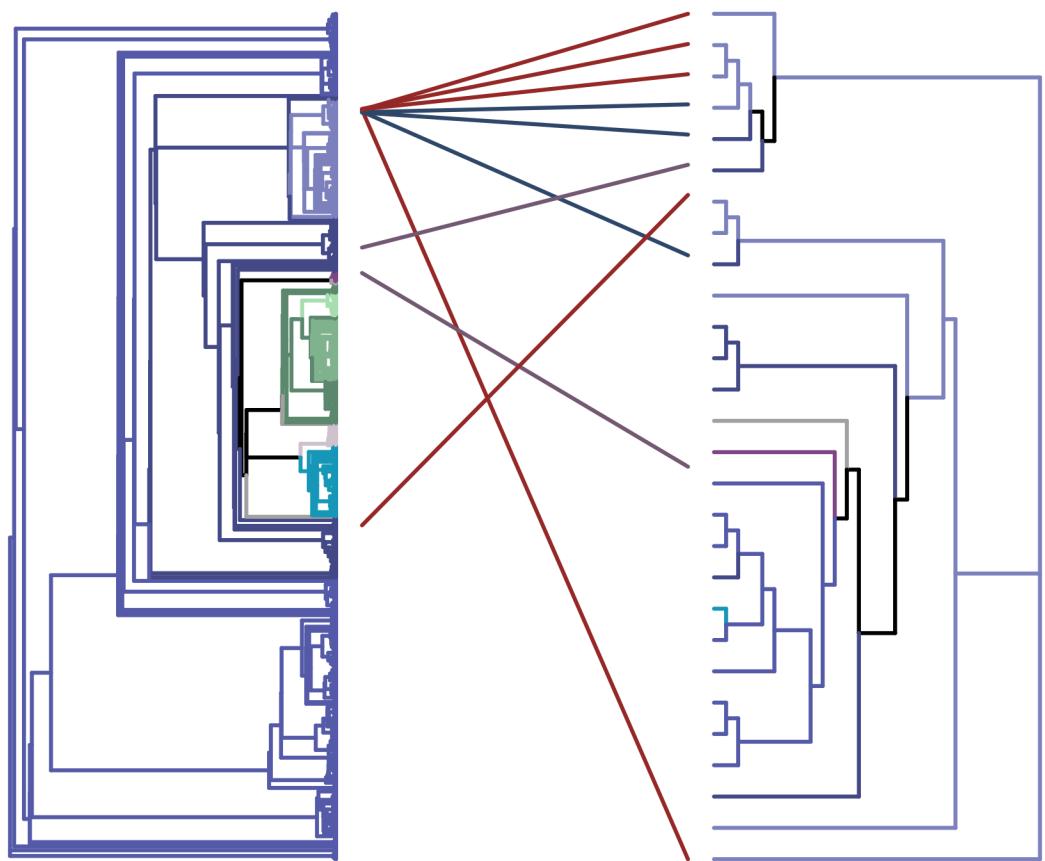
species counts

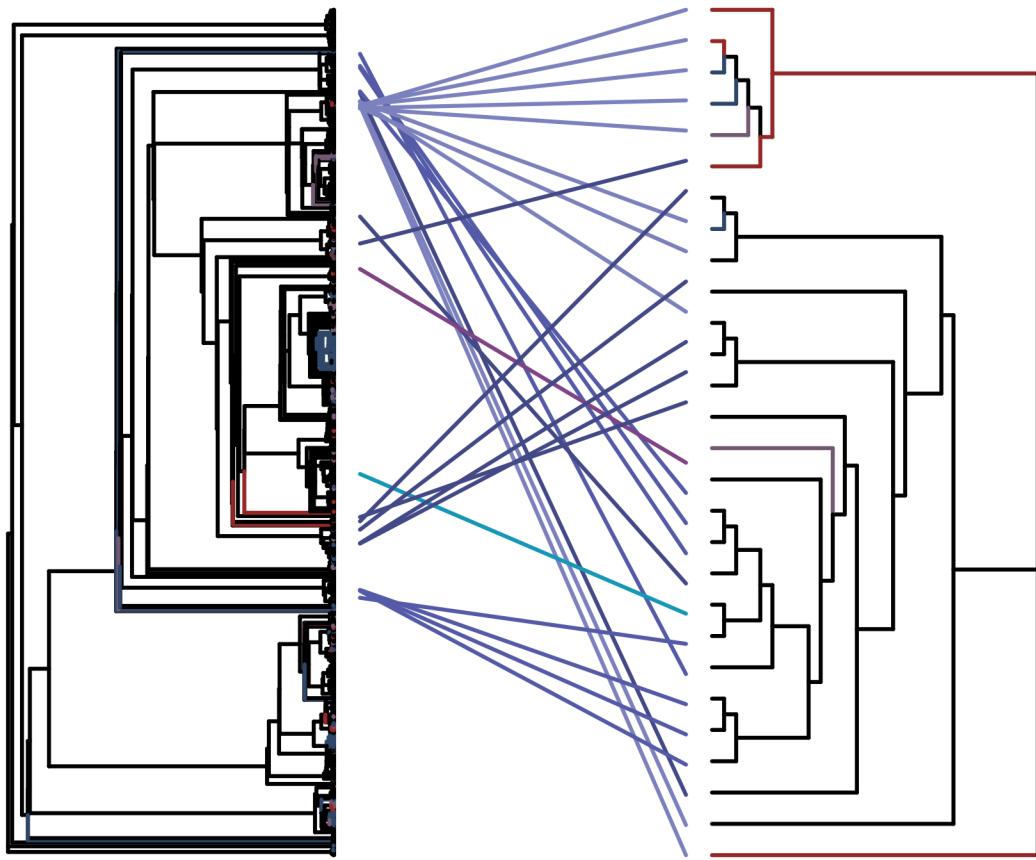


ST counts

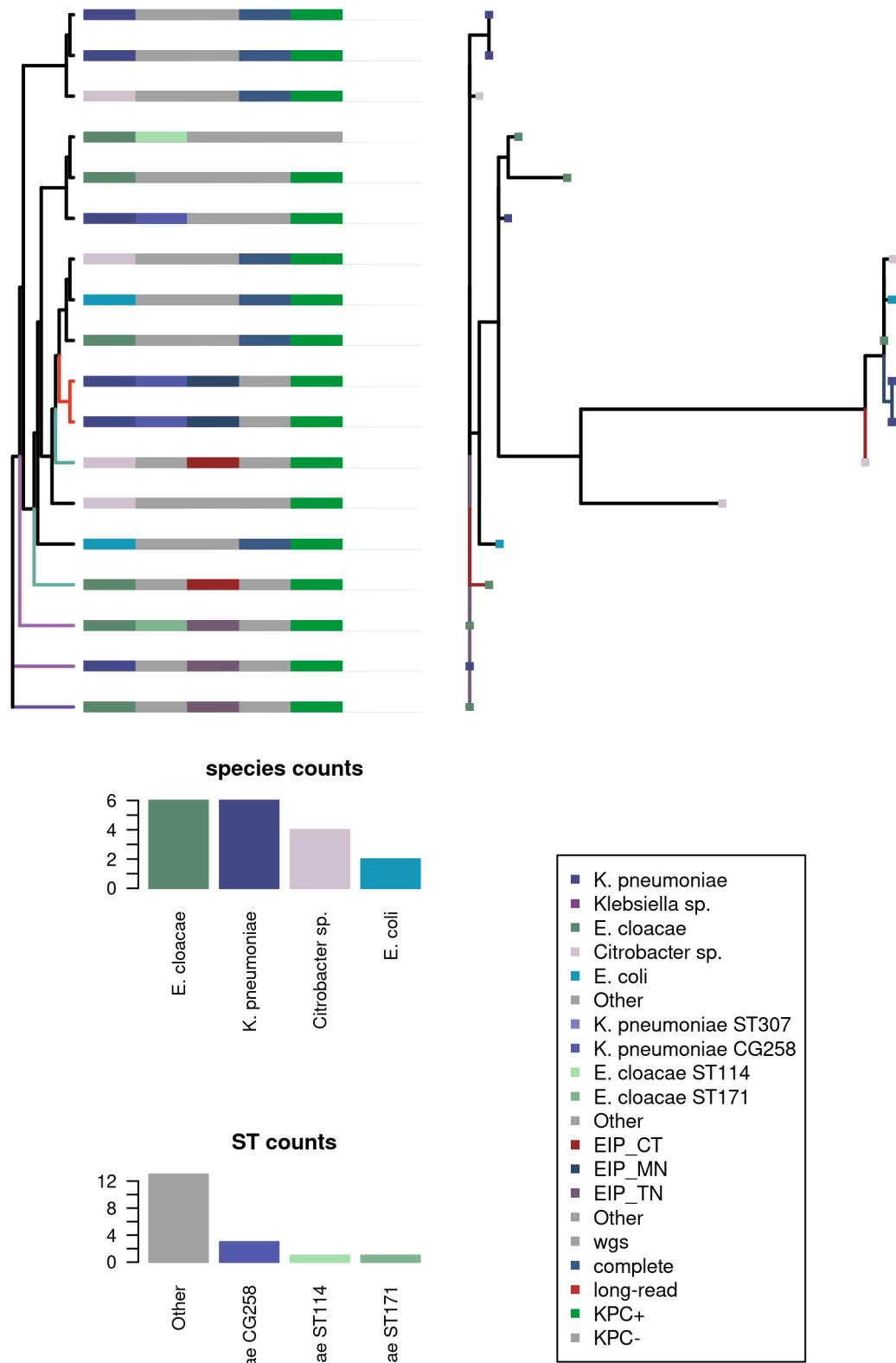


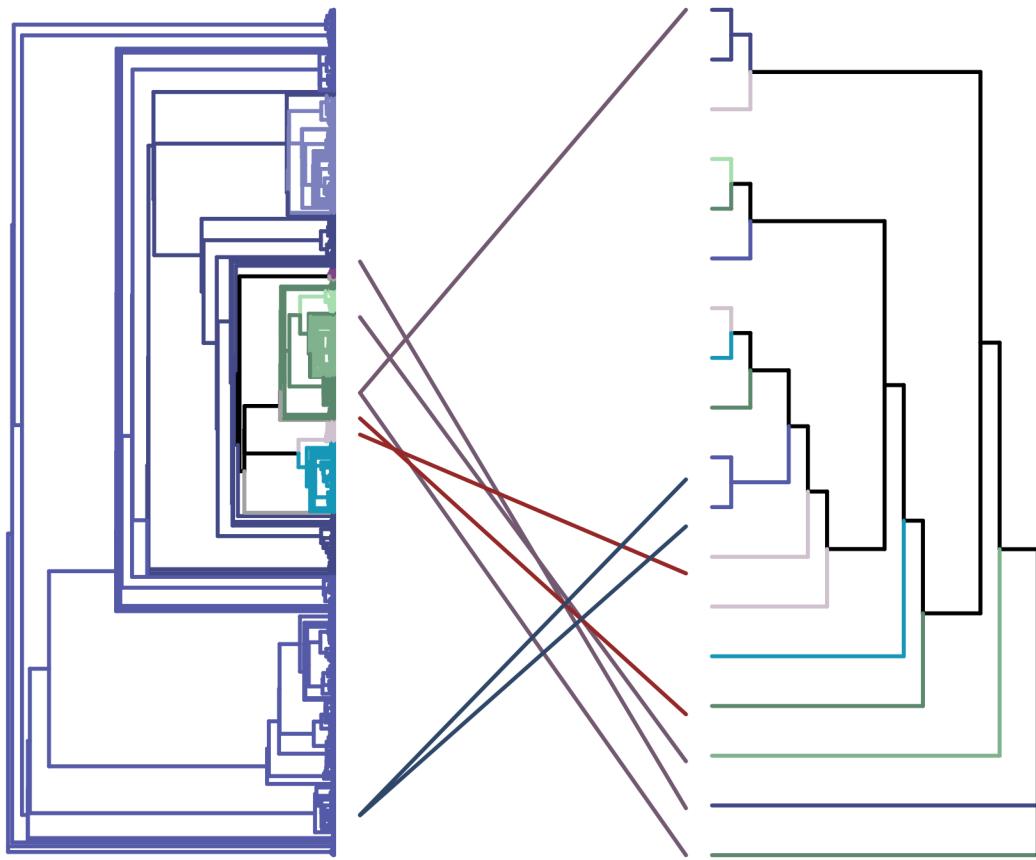
- K. pneumoniae
- Klebsiella sp.
- E. cloacae
- Citrobacter sp.
- E. coli
- Other
- K. pneumoniae ST307
- K. pneumoniae CG258
- E. cloacae ST114
- E. cloacae ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-

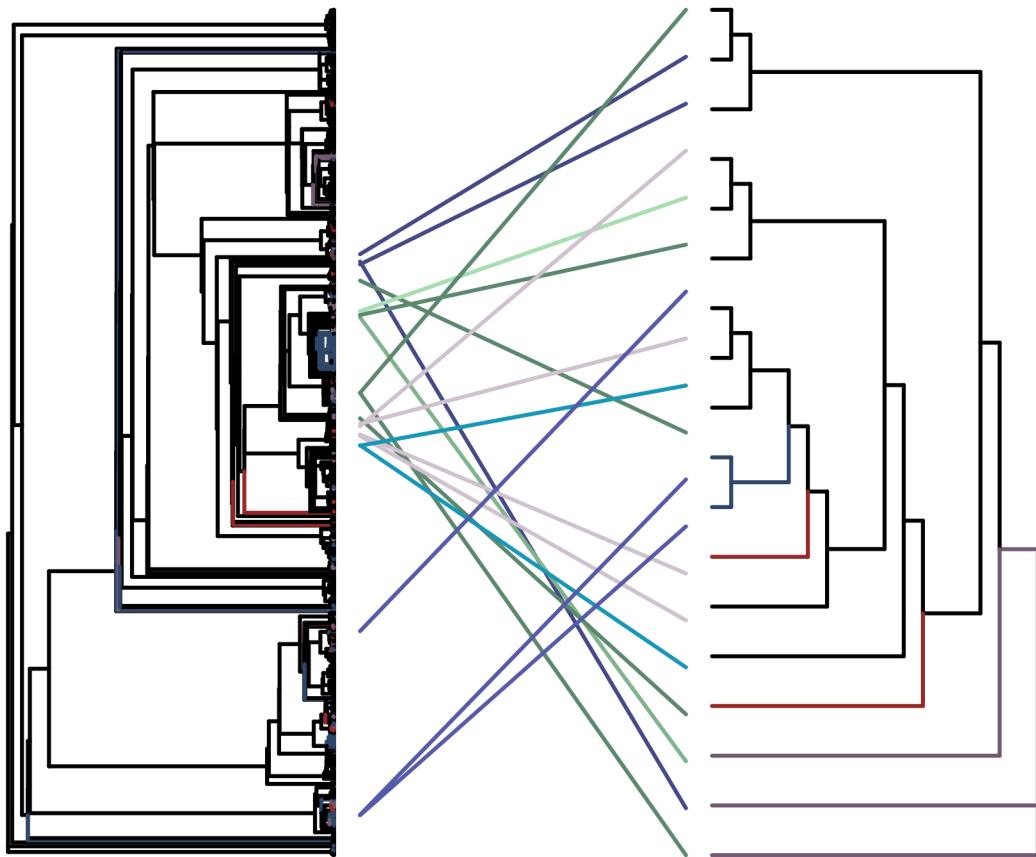




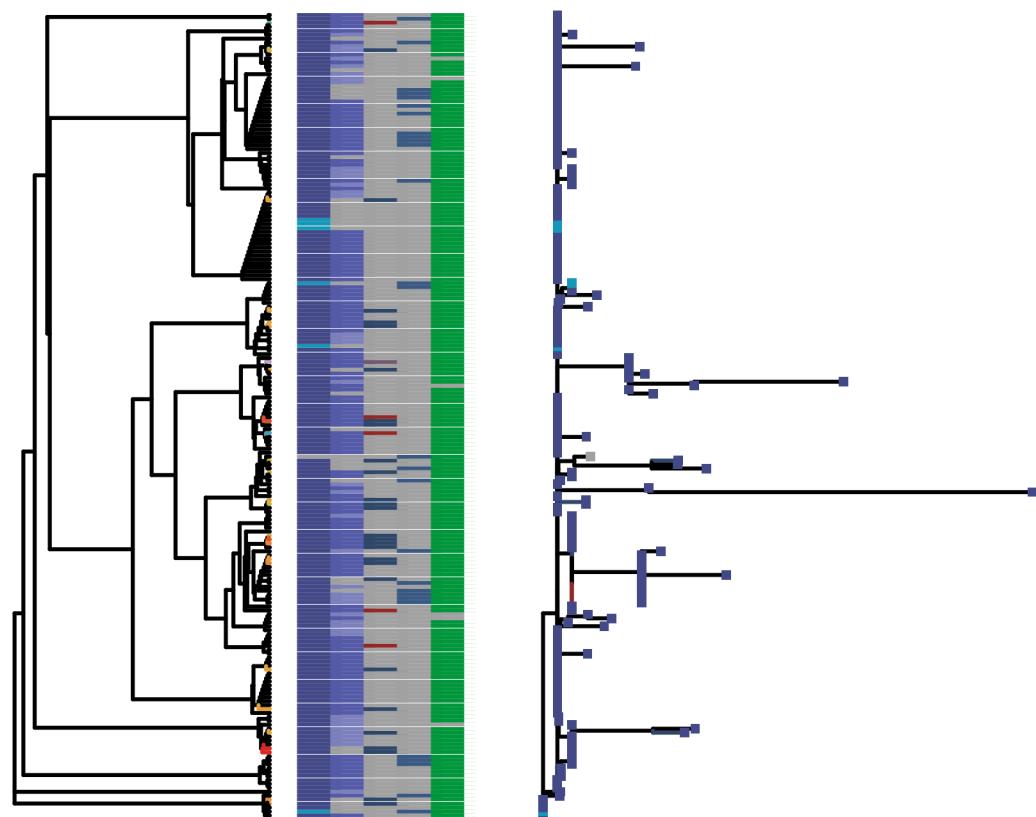
Gene cluster 41 concatenated gene tree



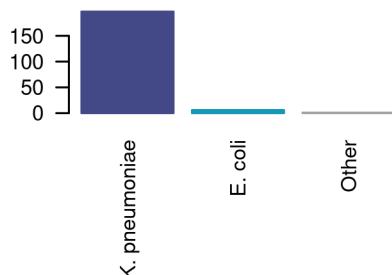




Gene cluster 42 concatenated gene tree

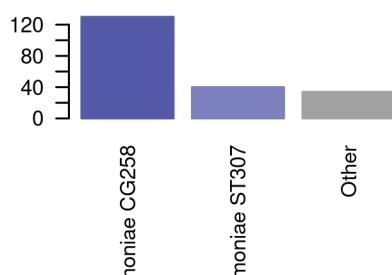


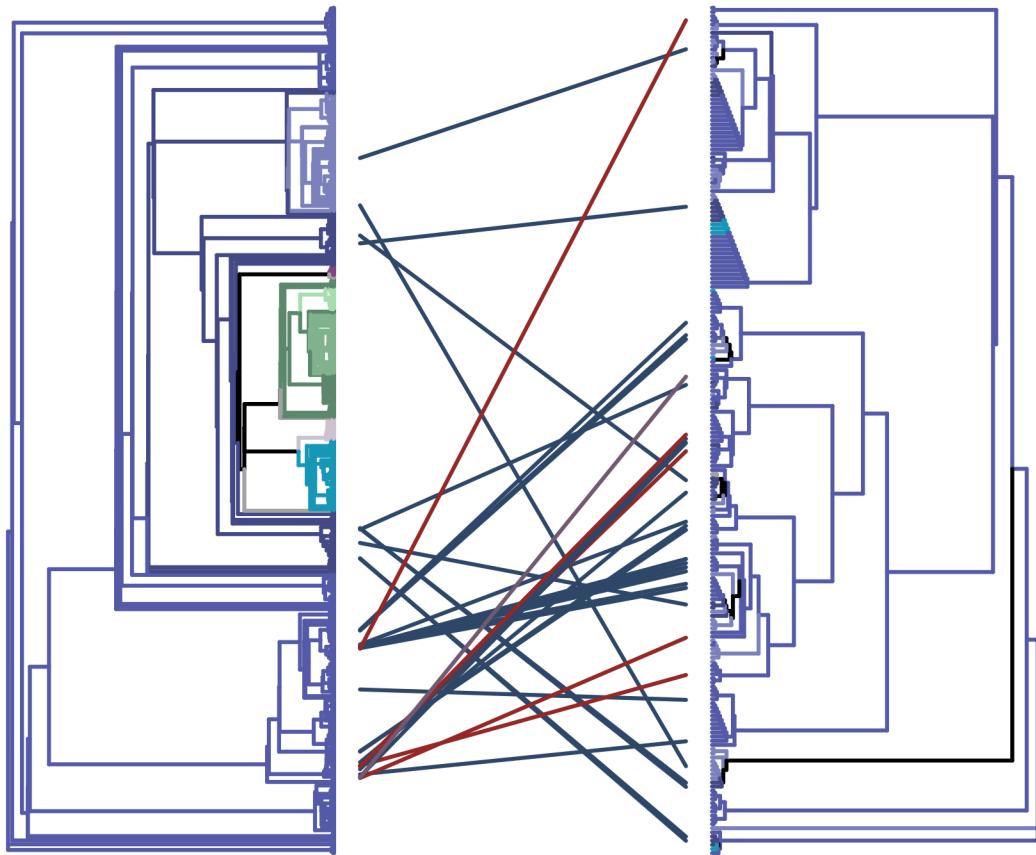
species counts

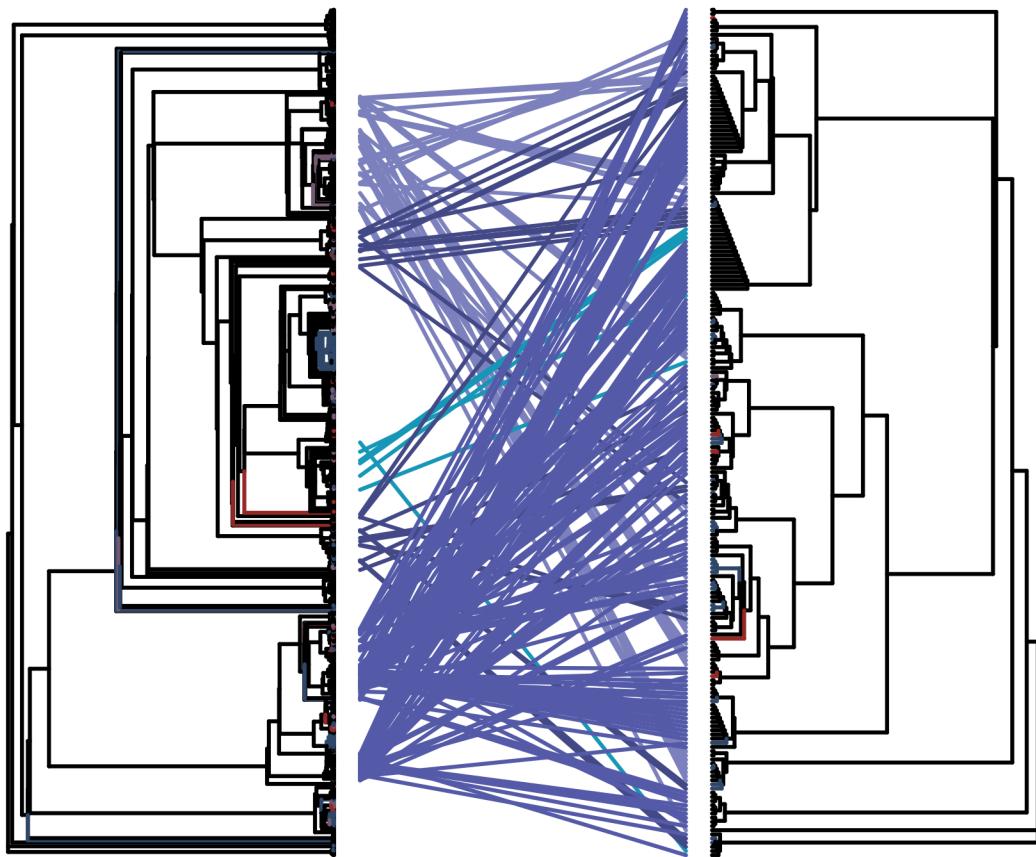


- K. pneumoniae
- Klebsiella sp.
- E. cloacae
- Citrobacter sp.
- E. coli
- Other
- K. pneumoniae ST307
- K. pneumoniae CG258
- E. cloacae ST114
- E. cloacae ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-

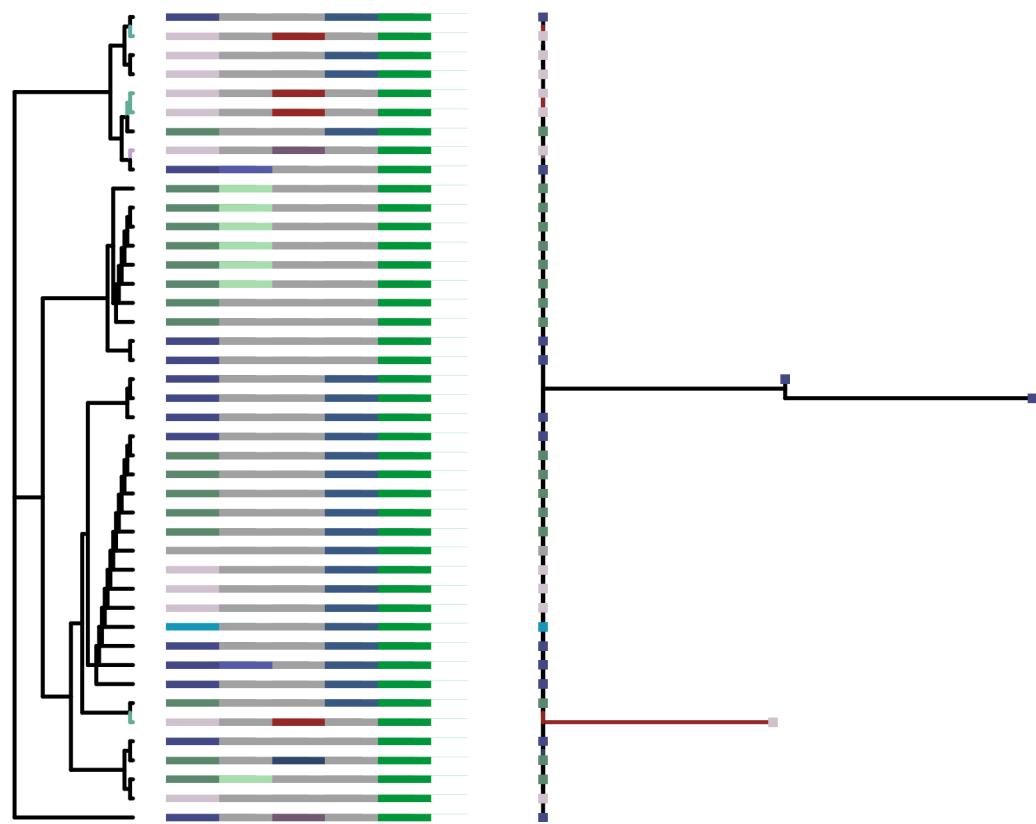
ST counts



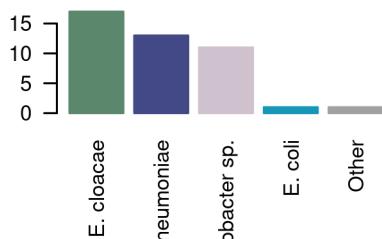




Gene cluster 43 concatenated gene tree

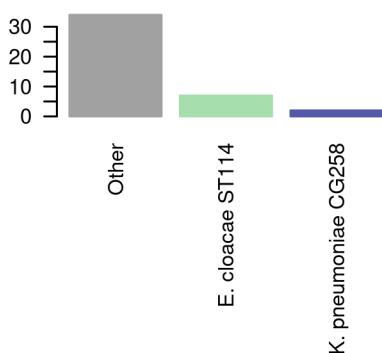


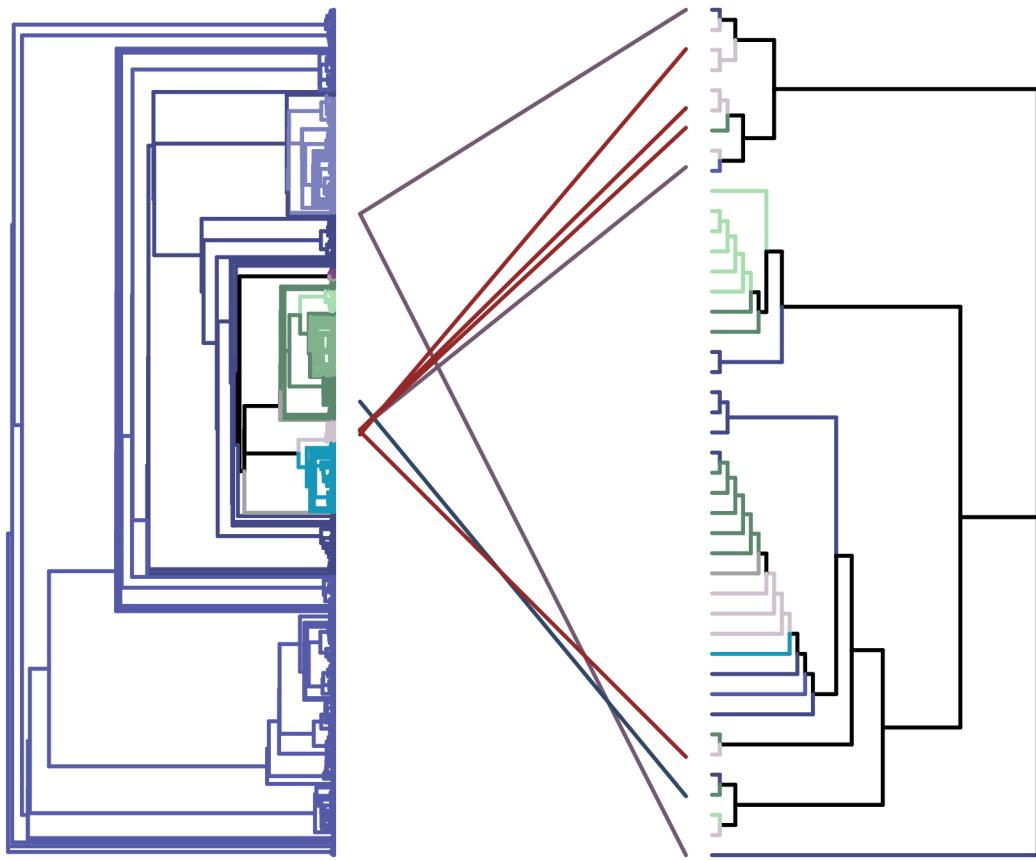
species counts

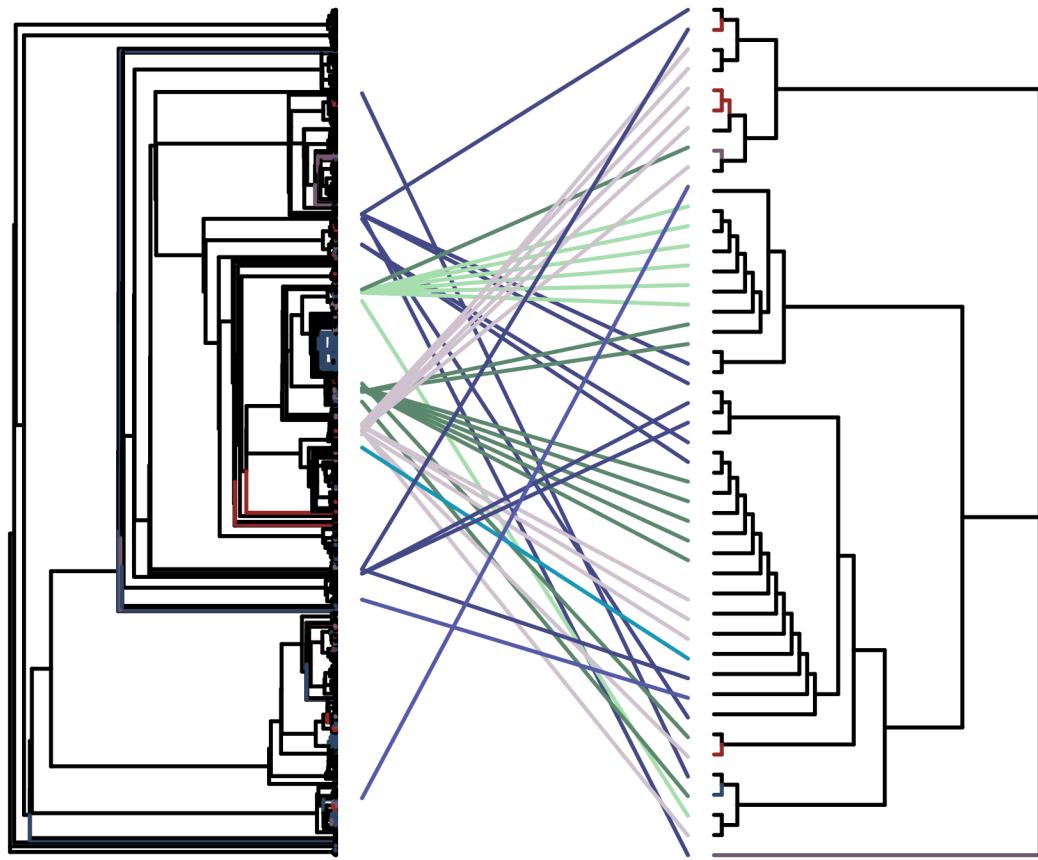


- K. pneumoniae
- Klebsiella sp.
- E. cloacae
- Citrobacter sp.
- E. coli
- Other
- K. pneumoniae ST307
- K. pneumoniae CG258
- E. cloacae ST114
- E. cloacae ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-

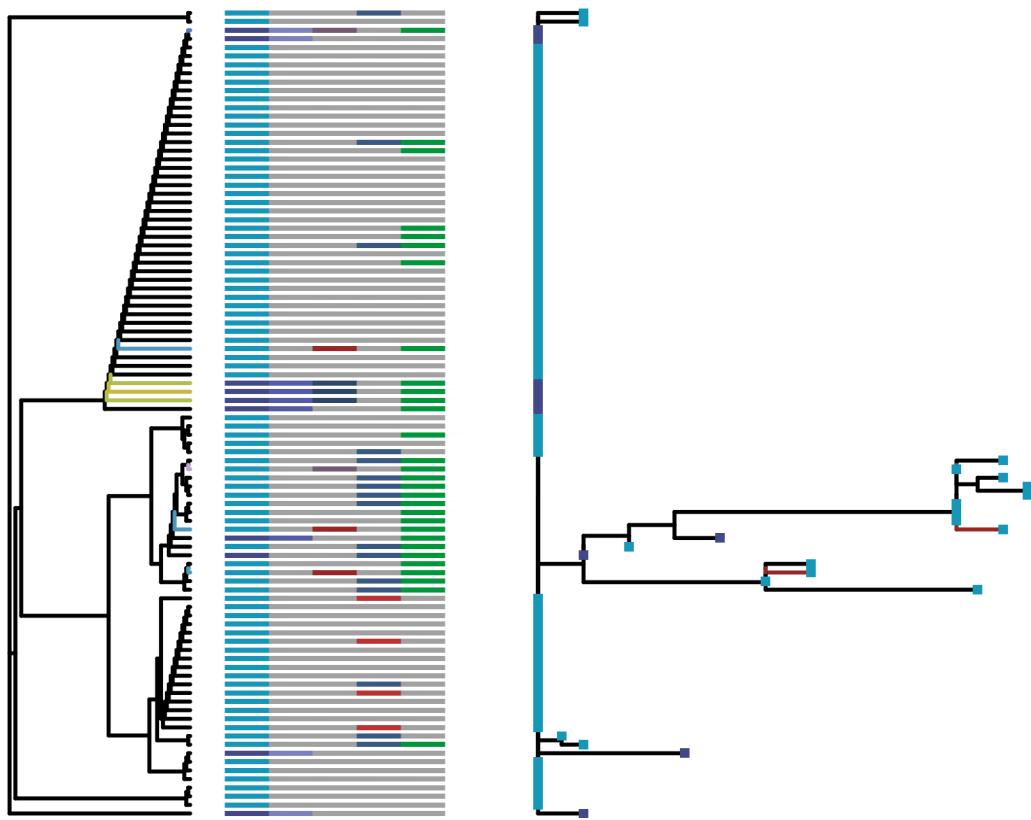
ST counts



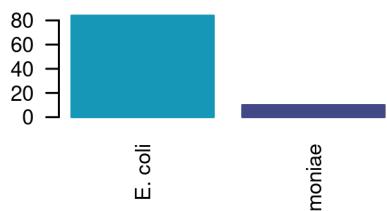




Gene cluster 44 concatenated gene tree

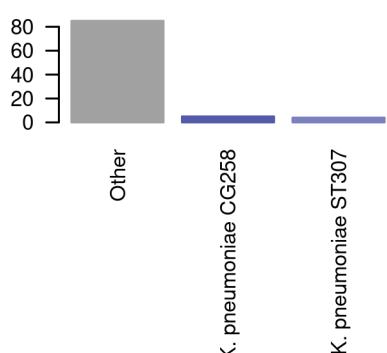


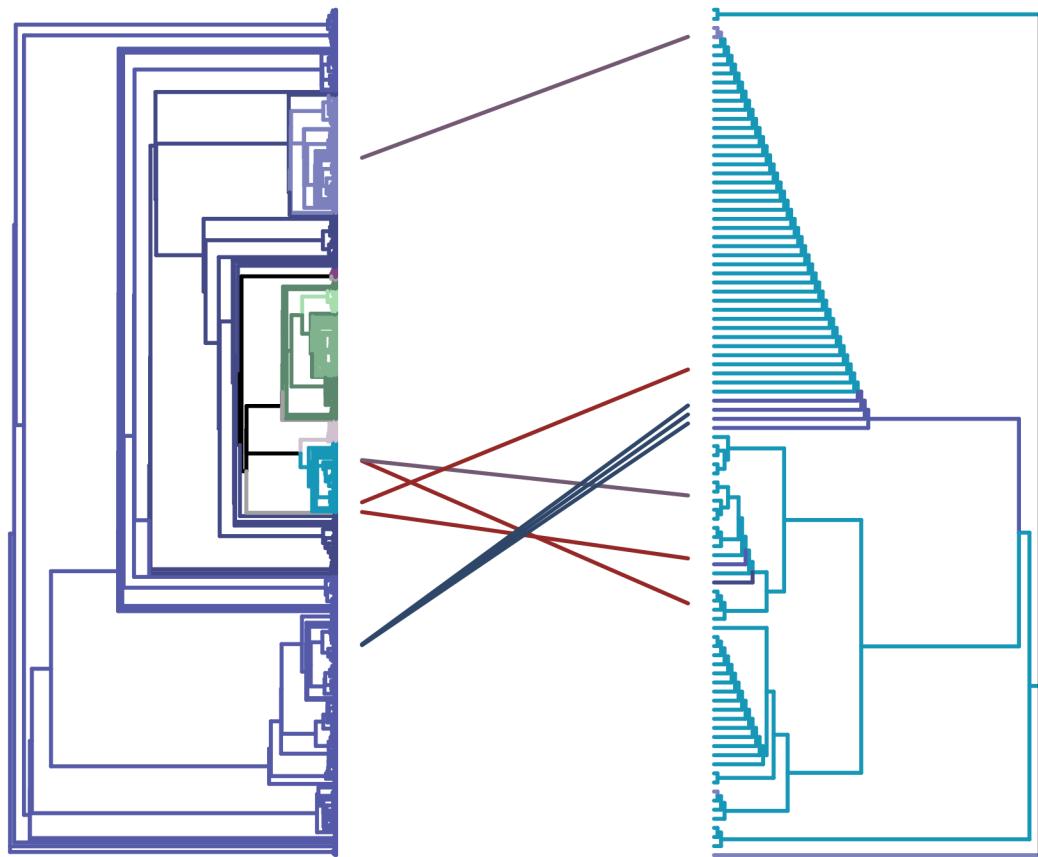
species counts

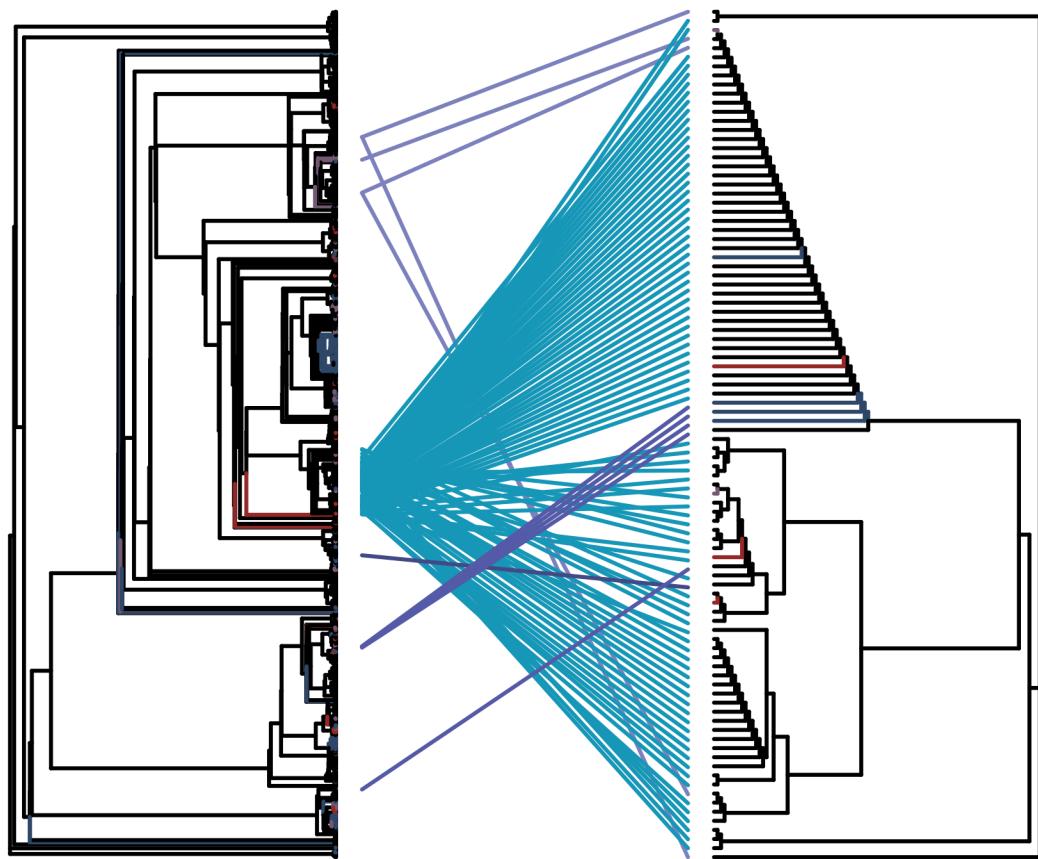


- K. pneumoniae
- Klebsiella sp.
- E. cloacae
- Citrobacter sp.
- E. coli
- Other
- K. pneumoniae ST307
- K. pneumoniae CG258
- E. cloacae ST114
- E. cloacae ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-

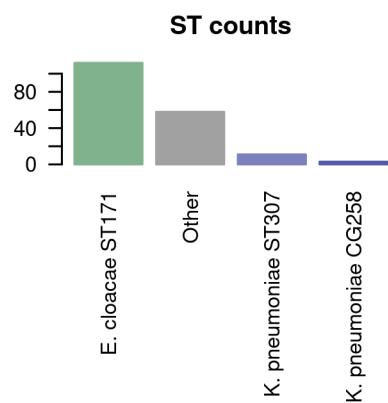
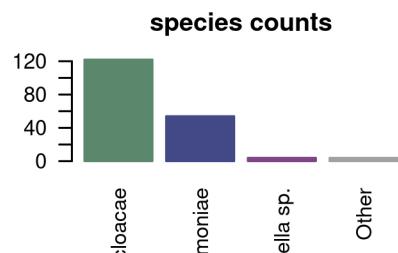
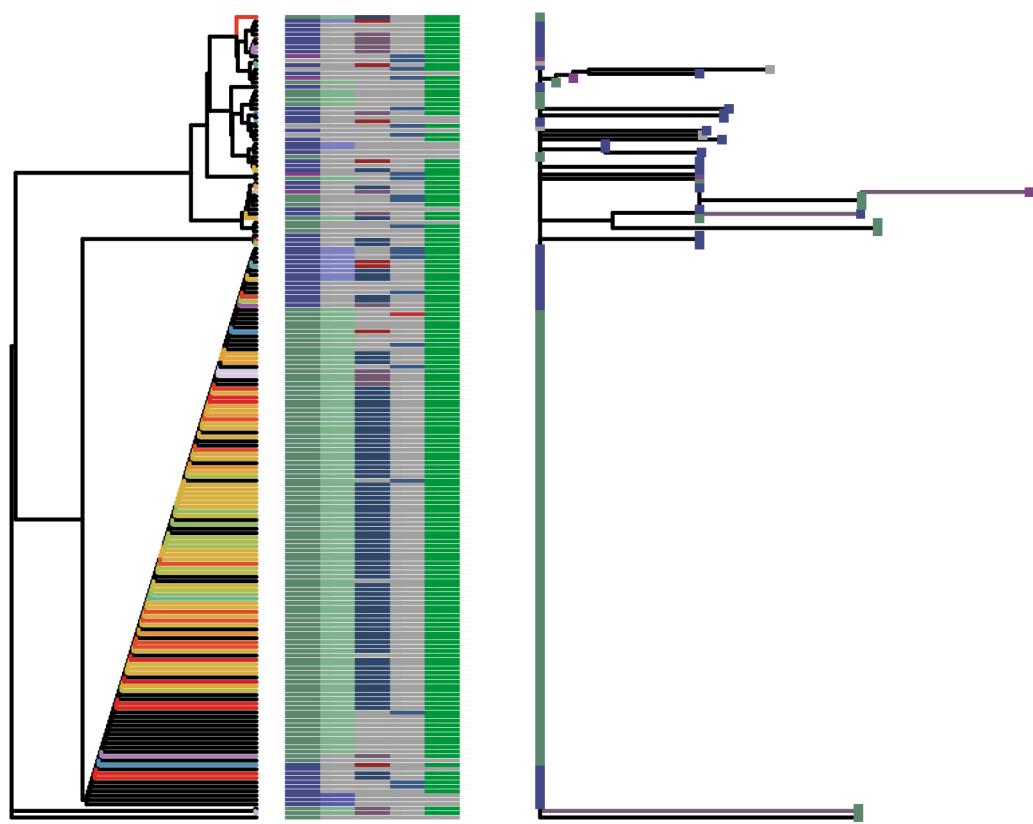
ST counts



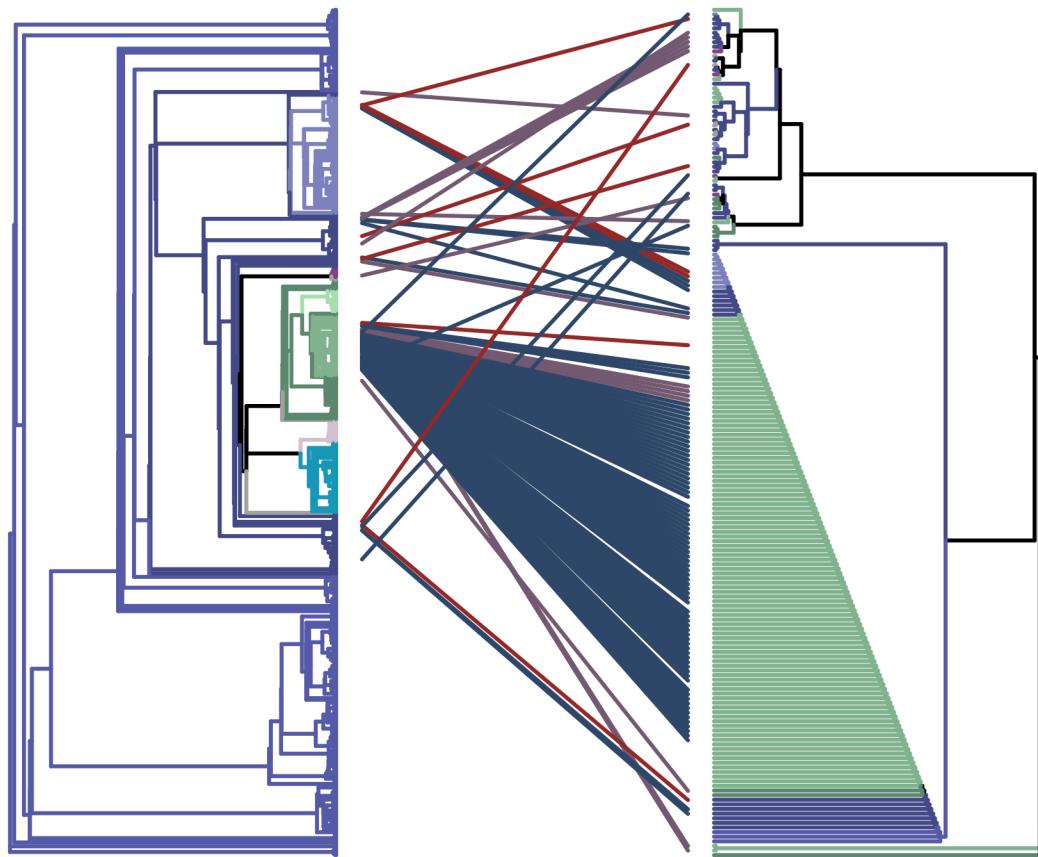


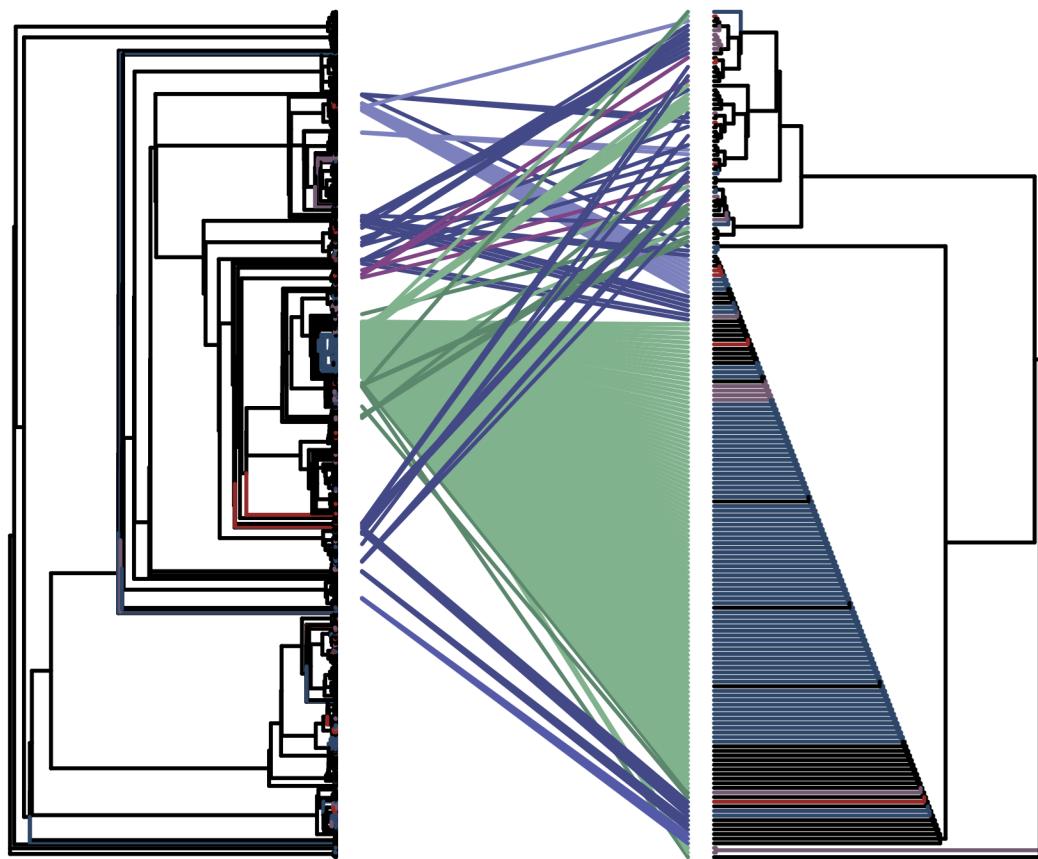


Gene cluster 45 concatenated gene tree

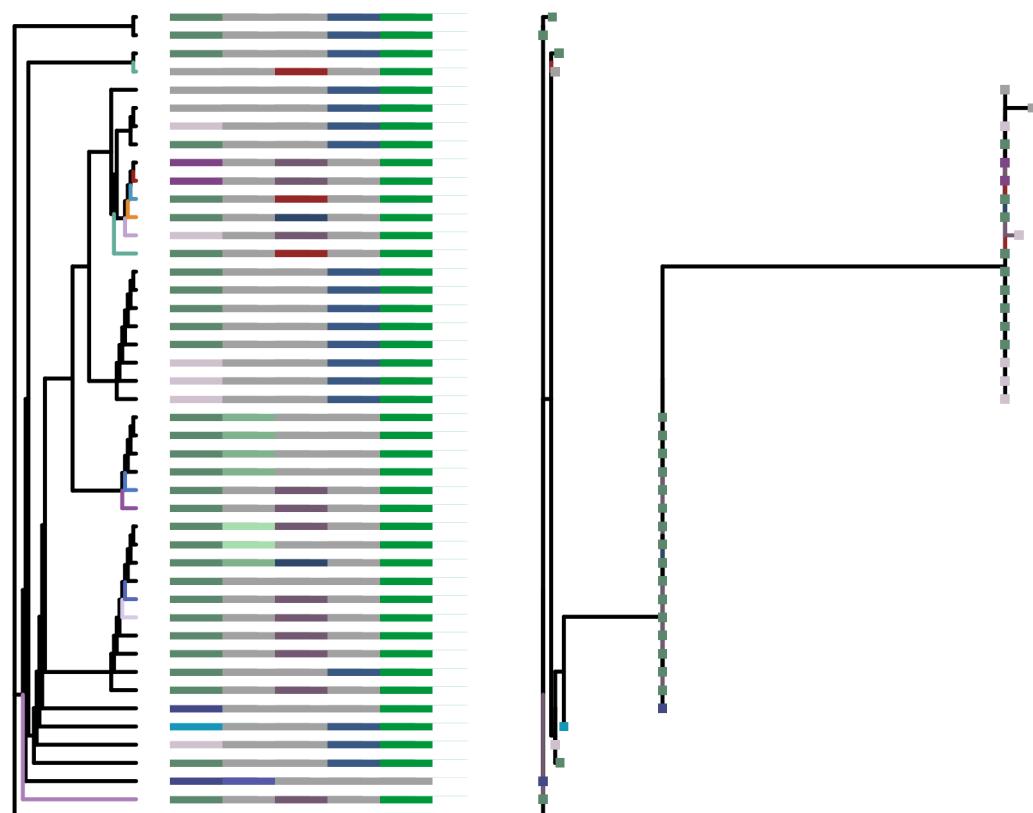


- K. pneumoniae
- Klebsiella sp.
- E. cloacae
- Citrobacter sp.
- E. coli
- Other
- K. pneumoniae ST307
- K. pneumoniae CG258
- E. cloacae ST114
- E. cloacae ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-

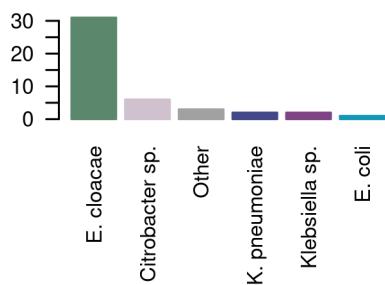




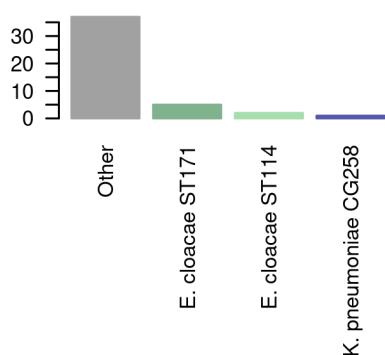
Gene cluster 46 concatenated gene tree



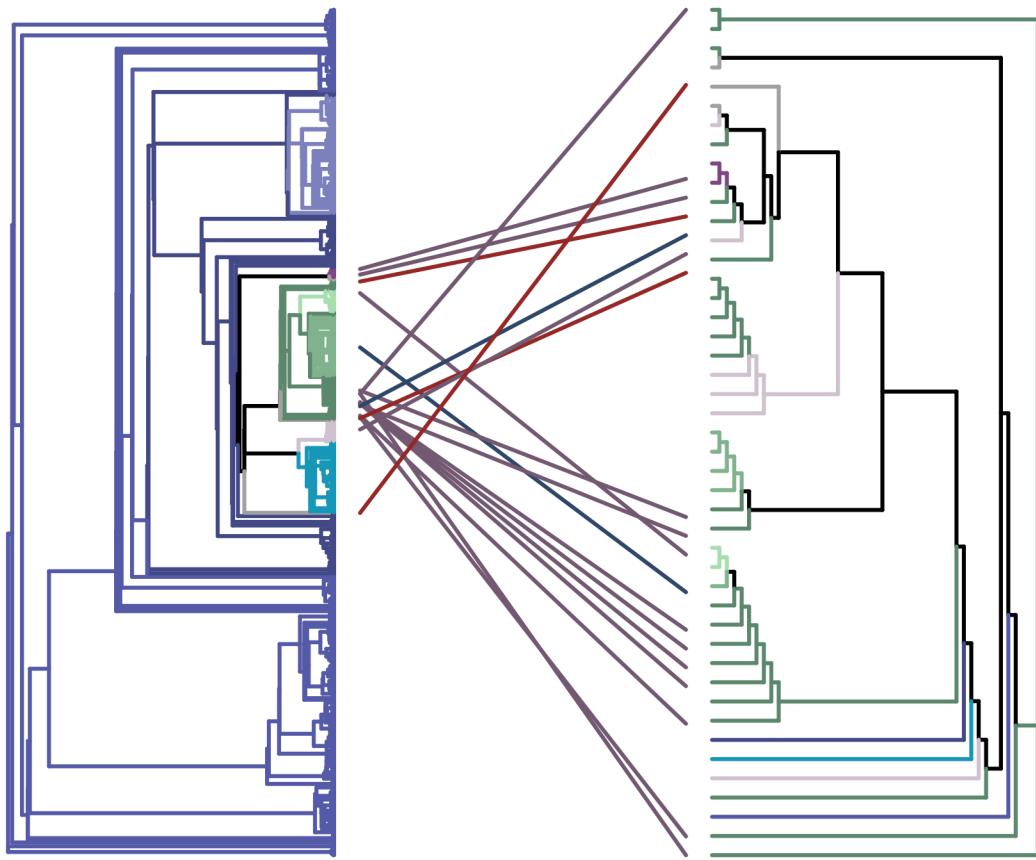
species counts

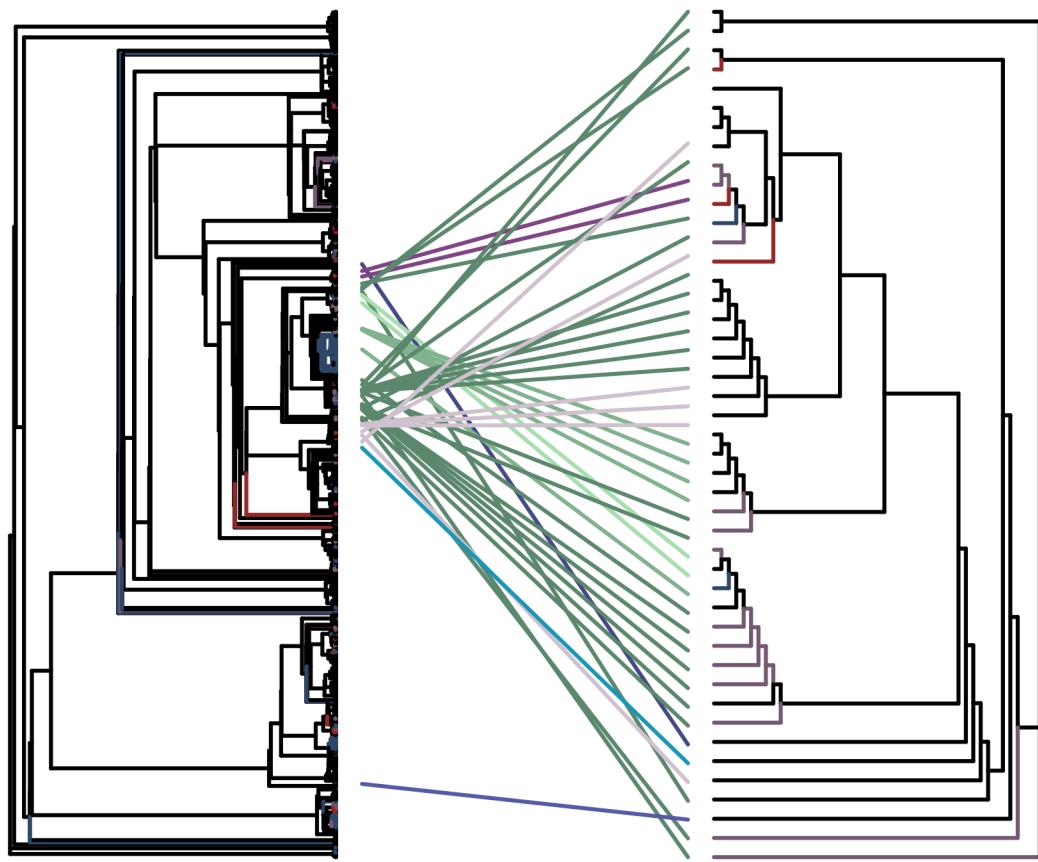


ST counts

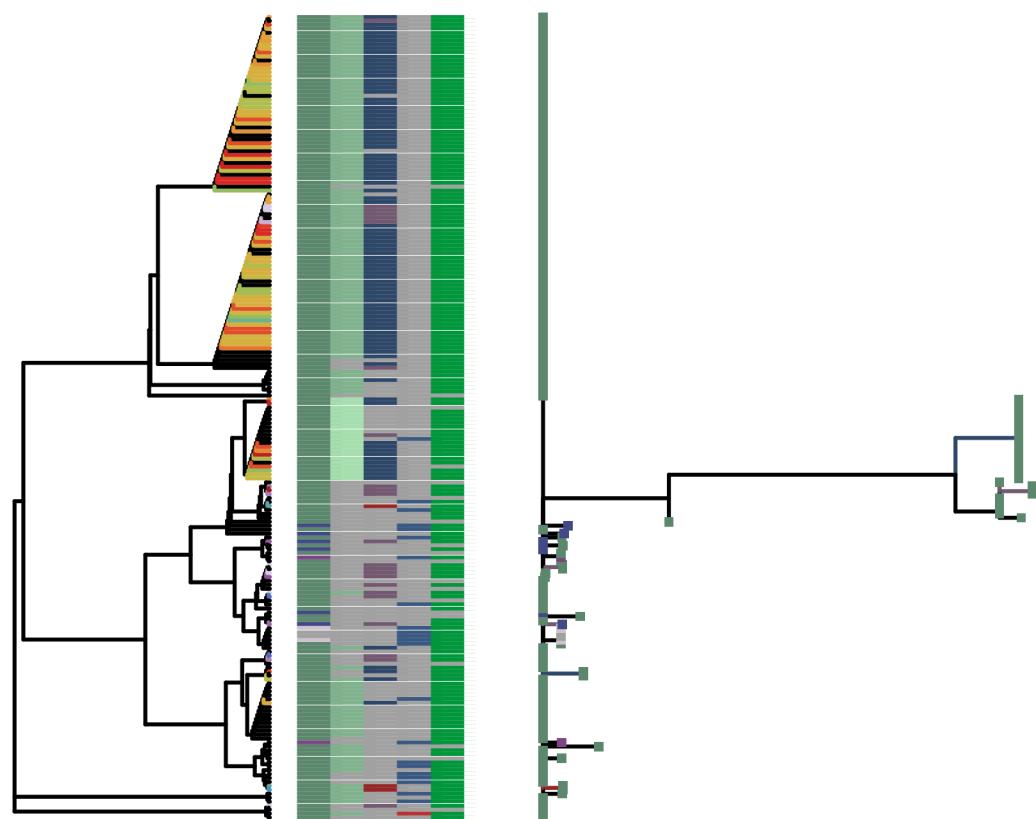


- *K. pneumoniae*
- *Klebsiella* sp.
- *E. cloacae*
- *Citrobacter* sp.
- *E. coli*
- Other
- *K. pneumoniae* ST307
- *K. pneumoniae* CG258
- *E. cloacae* ST114
- *E. cloacae* ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-

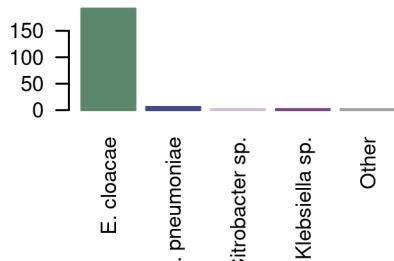




Gene cluster 47 concatenated gene tree

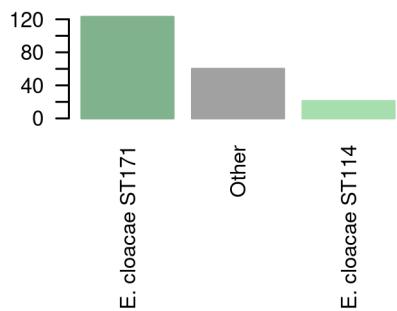


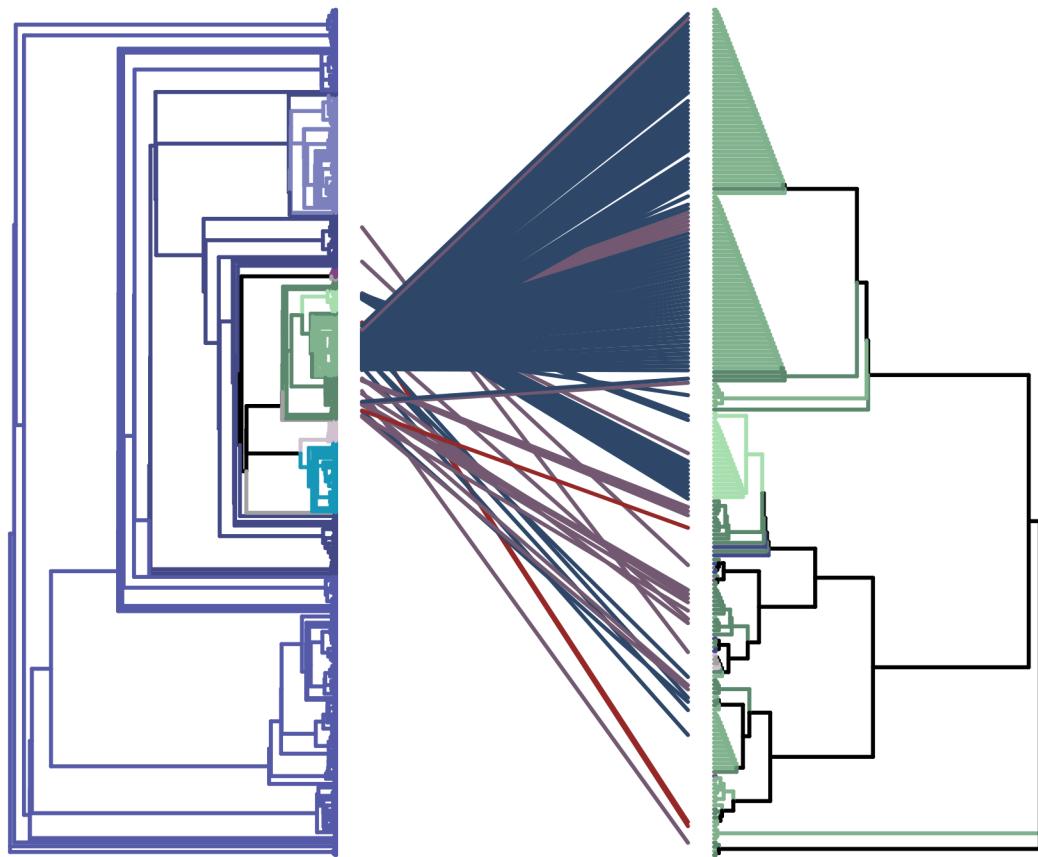
species counts

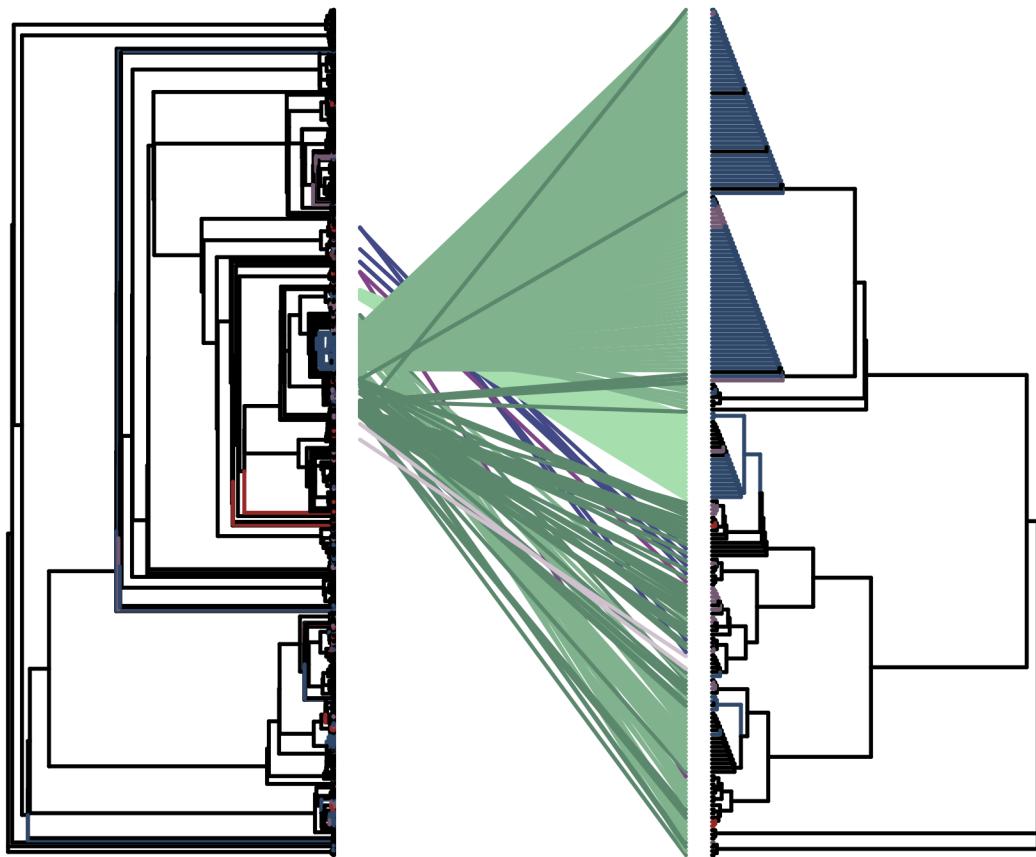


- K. pneumoniae
- Klebsiella sp.
- E. cloacae
- Citrobacter sp.
- E. coli
- Other
- K. pneumoniae ST307
- K. pneumoniae CG258
- E. cloacae ST114
- E. cloacae ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-

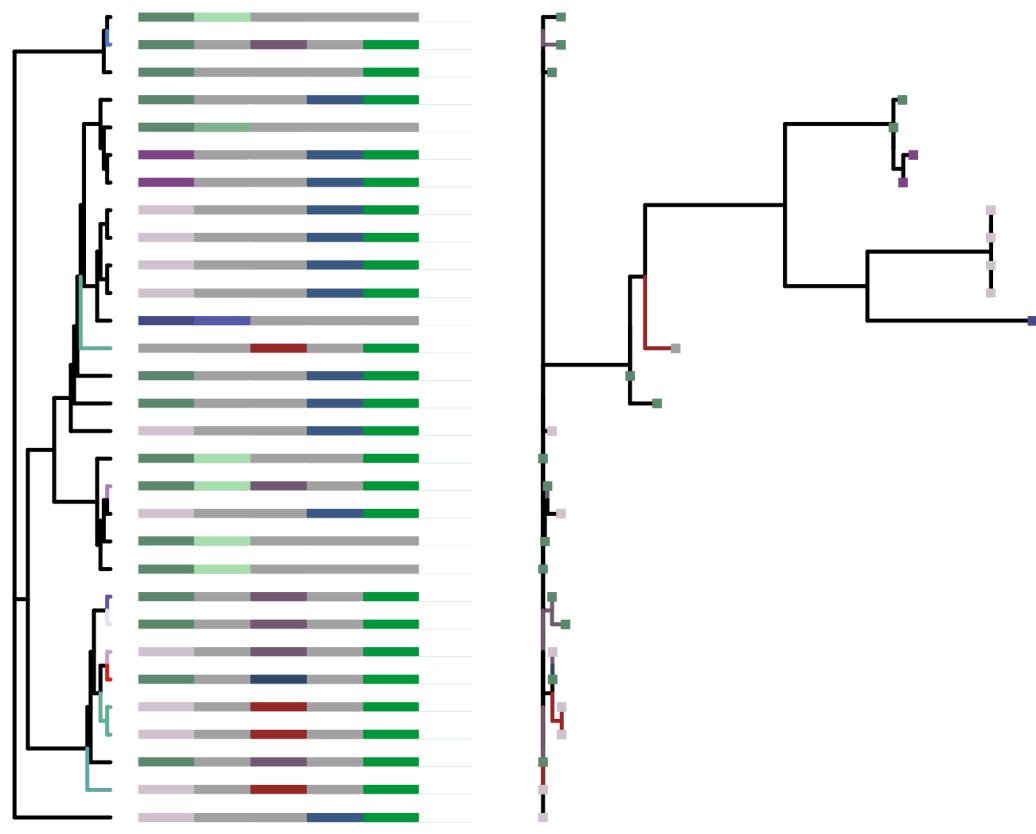
ST counts



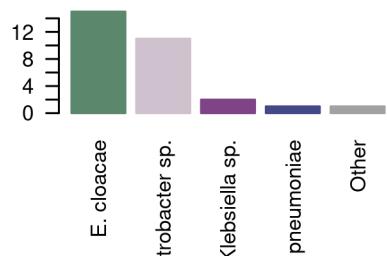




Gene cluster 48 concatenated gene tree

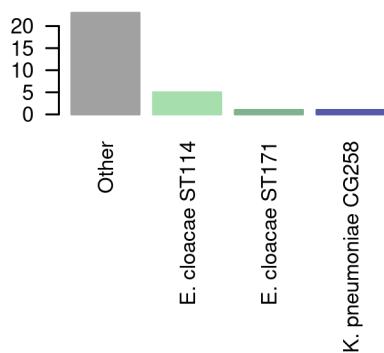


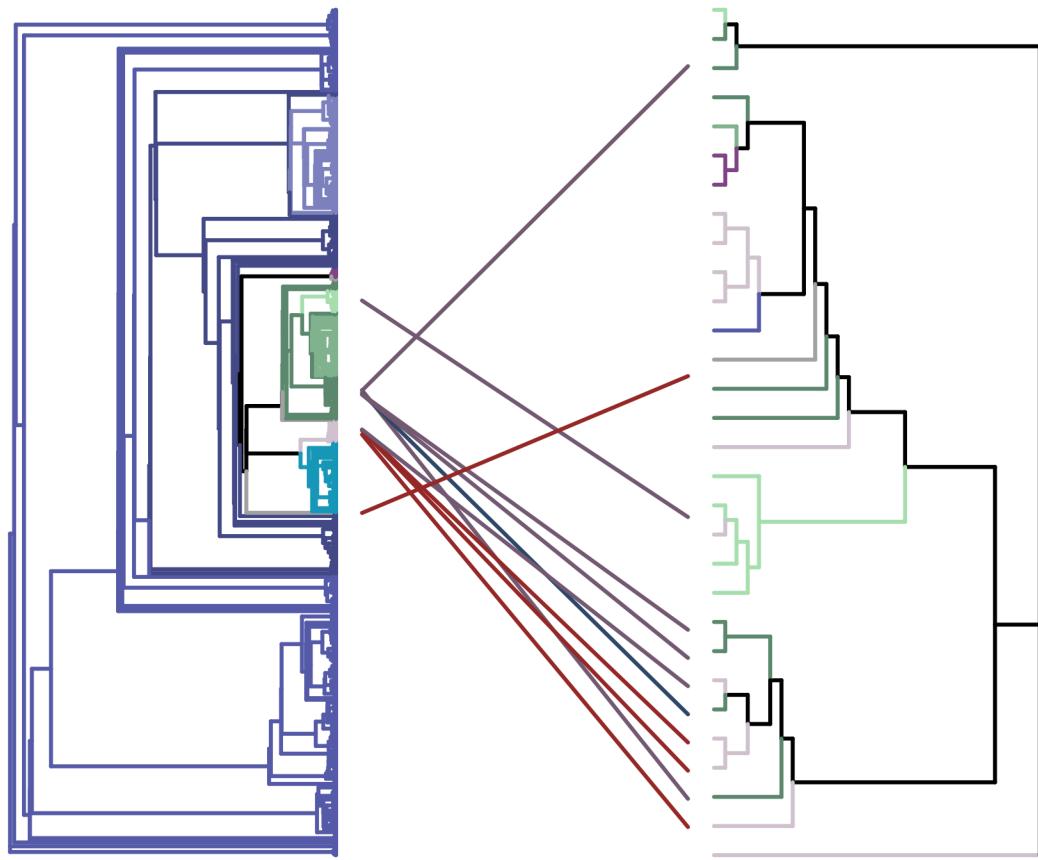
species counts

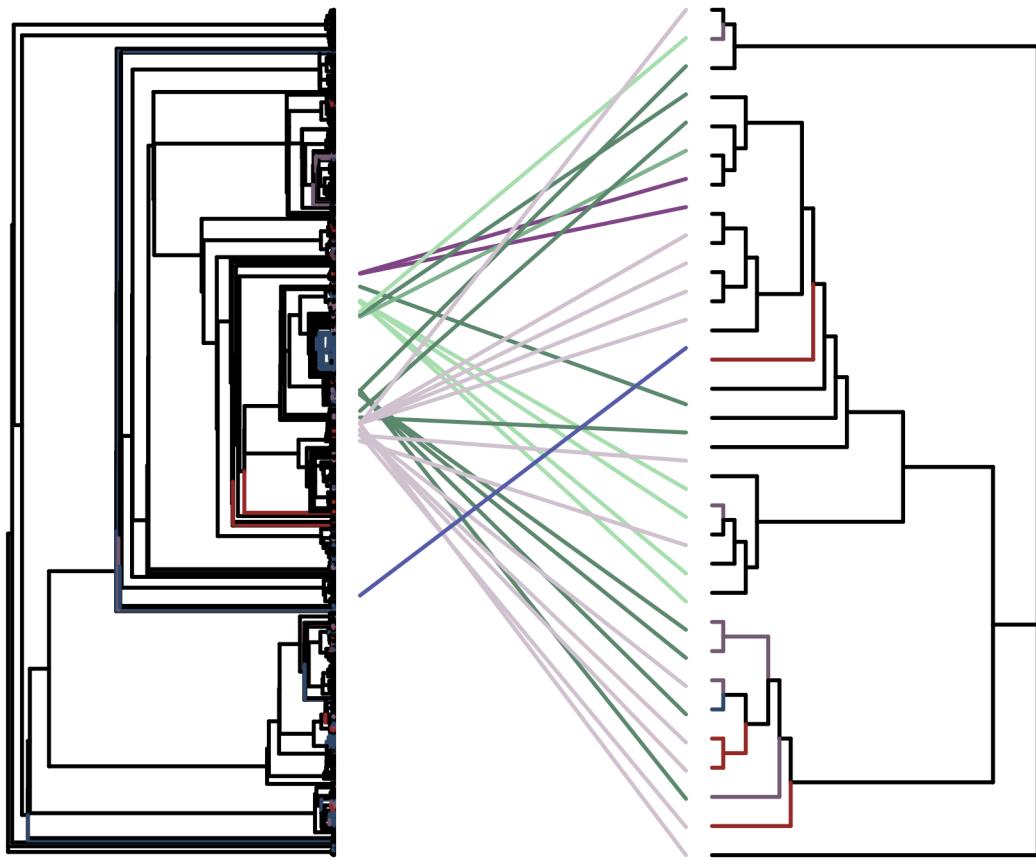


- K. pneumoniae
- Klebsiella sp.
- E. cloacae
- Citrobacter sp.
- E. coli
- Other
- K. pneumoniae ST307
- K. pneumoniae CG258
- E. cloacae ST114
- E. cloacae ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- wgs
- complete
- long-read
- KPC+
- KPC-

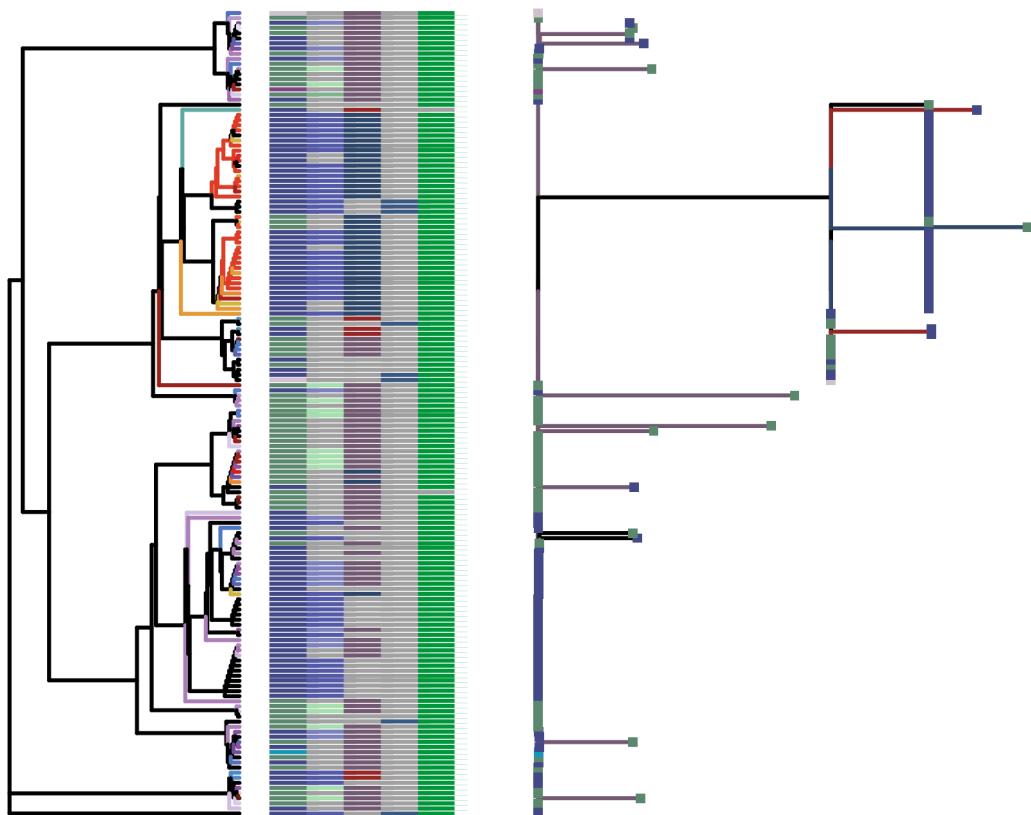
ST counts



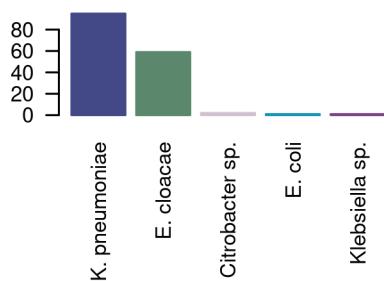




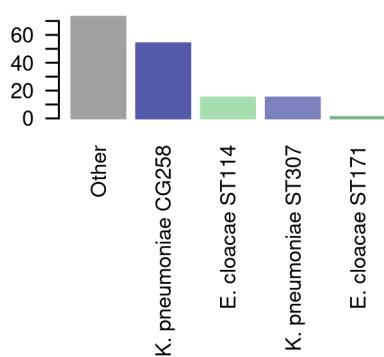
Gene cluster 49 concatenated gene tree



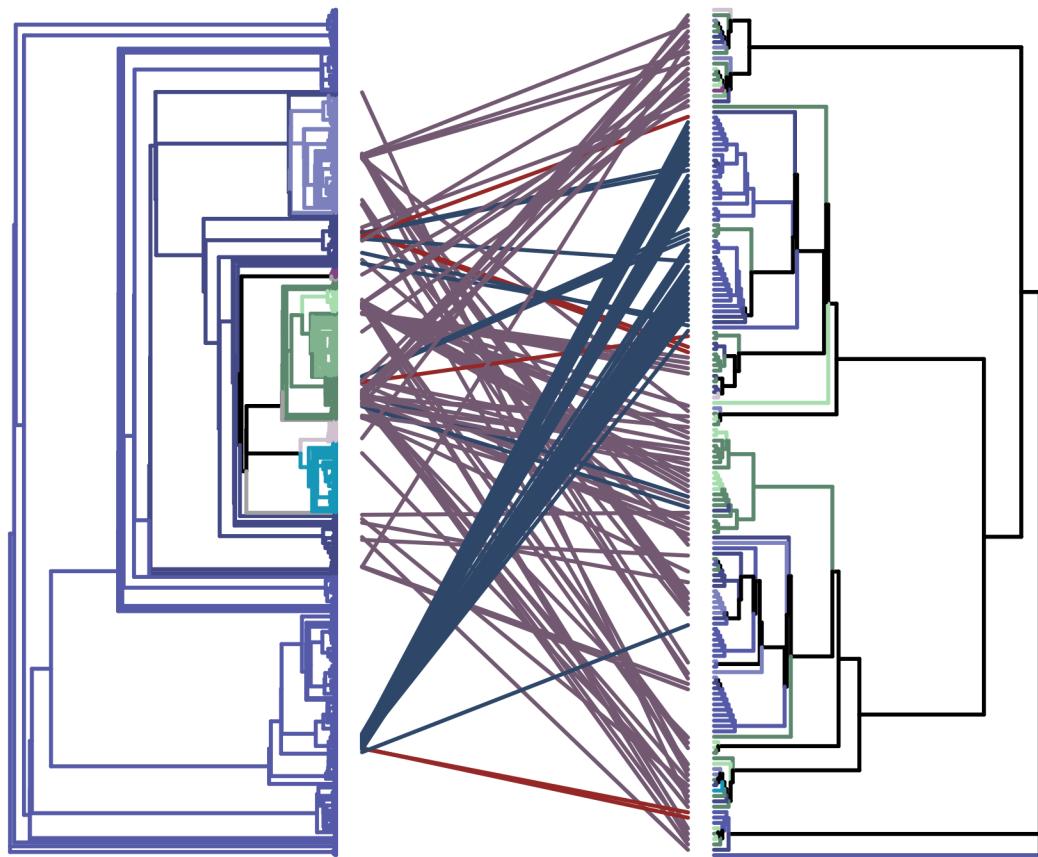
species counts

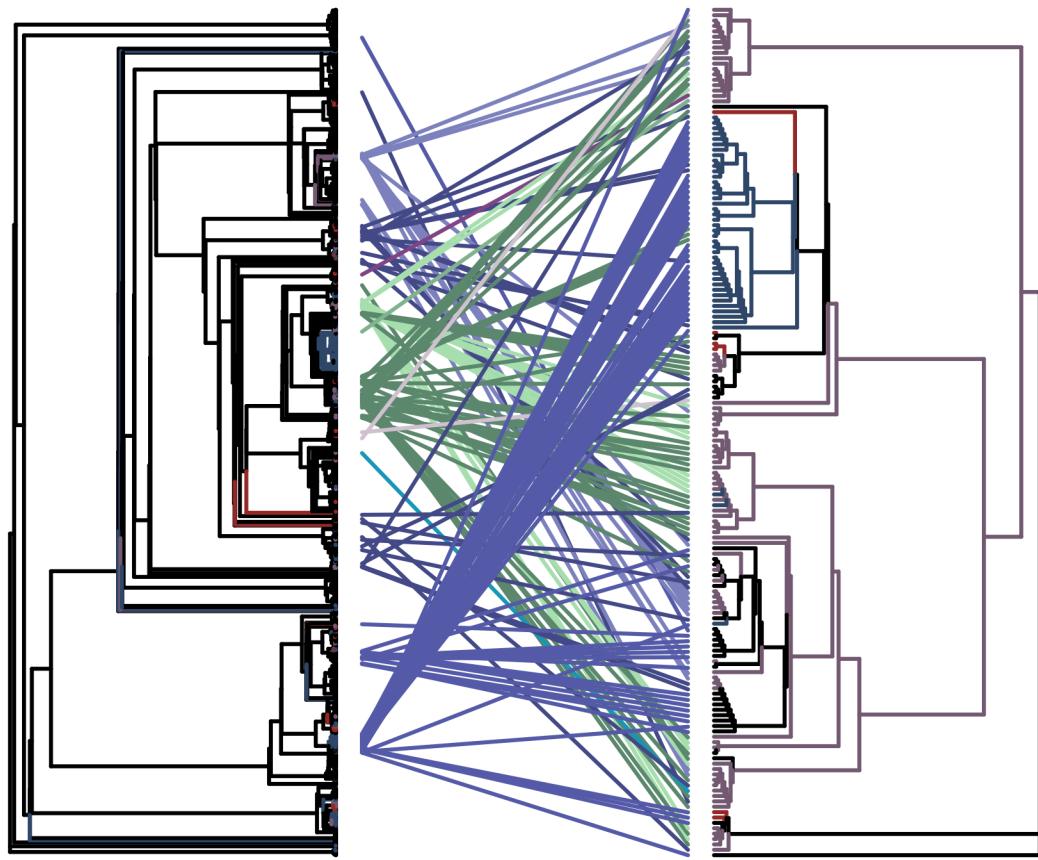


ST counts

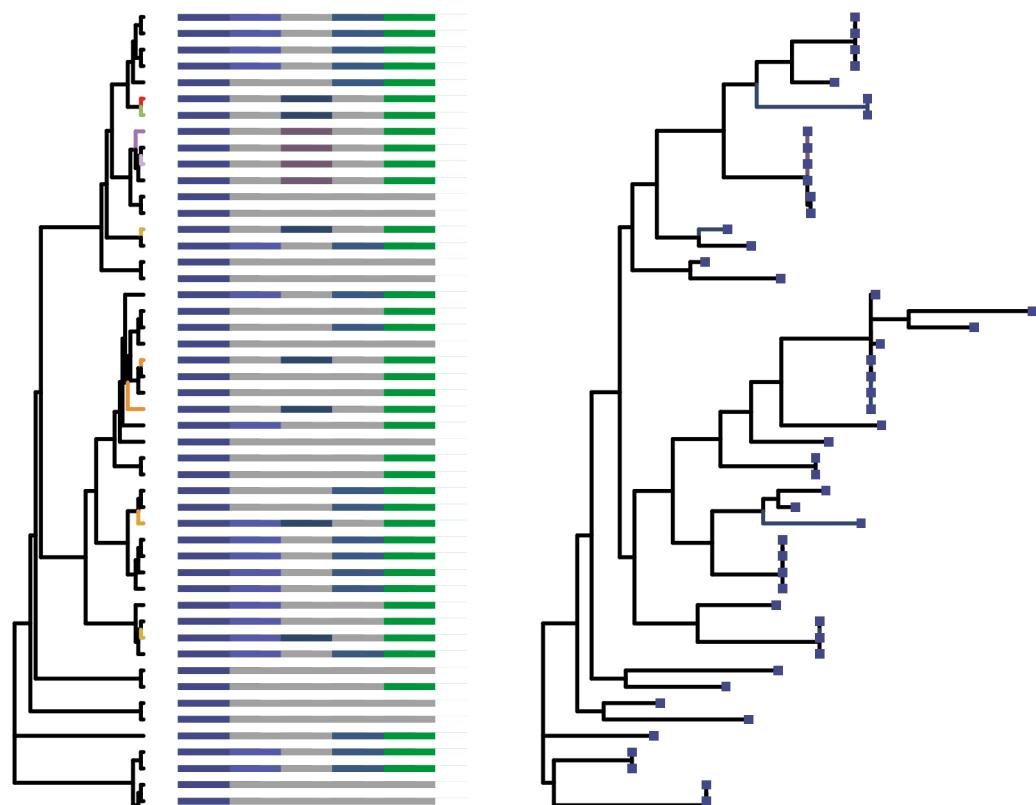


- K. pneumoniae
- Klebsiella sp.
- E. cloacae
- Citrobacter sp.
- E. coli
- Other
- K. pneumoniae ST307
- K. pneumoniae CG258
- E. cloacae ST114
- E. cloacae ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-





Gene cluster 50 concatenated gene tree

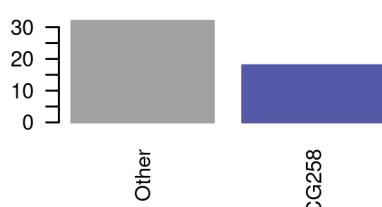


species counts



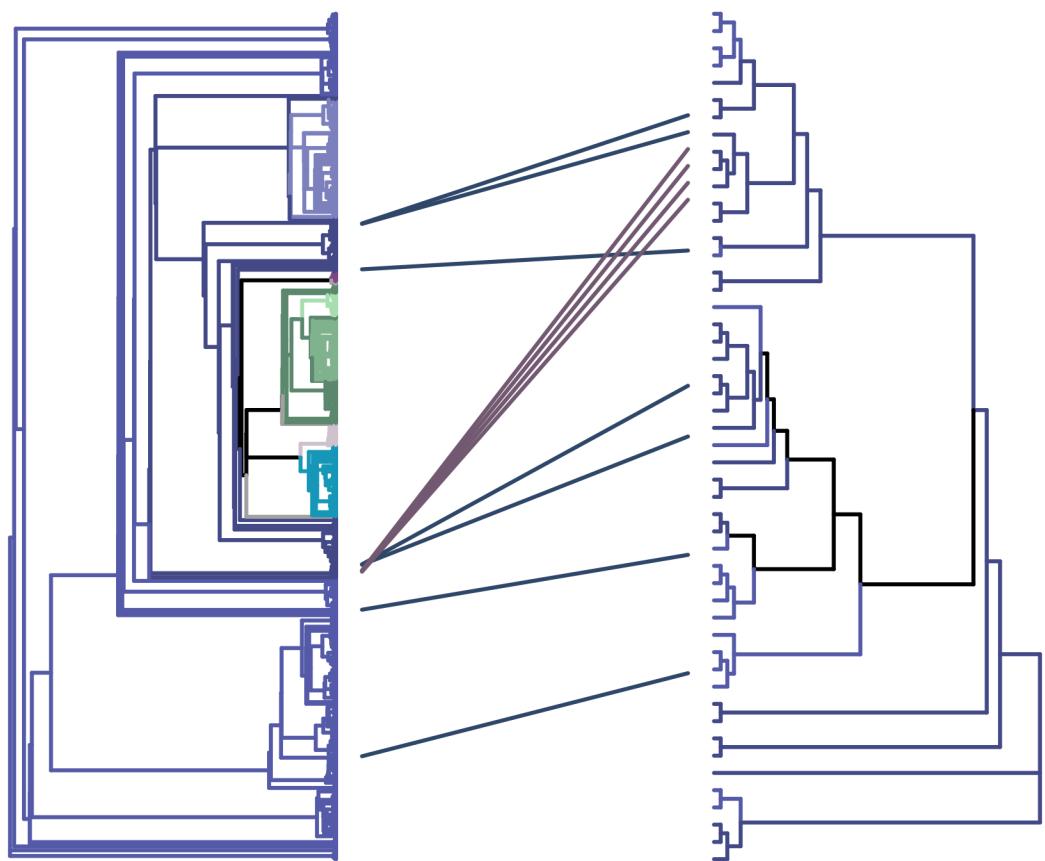
K. pneumoniae

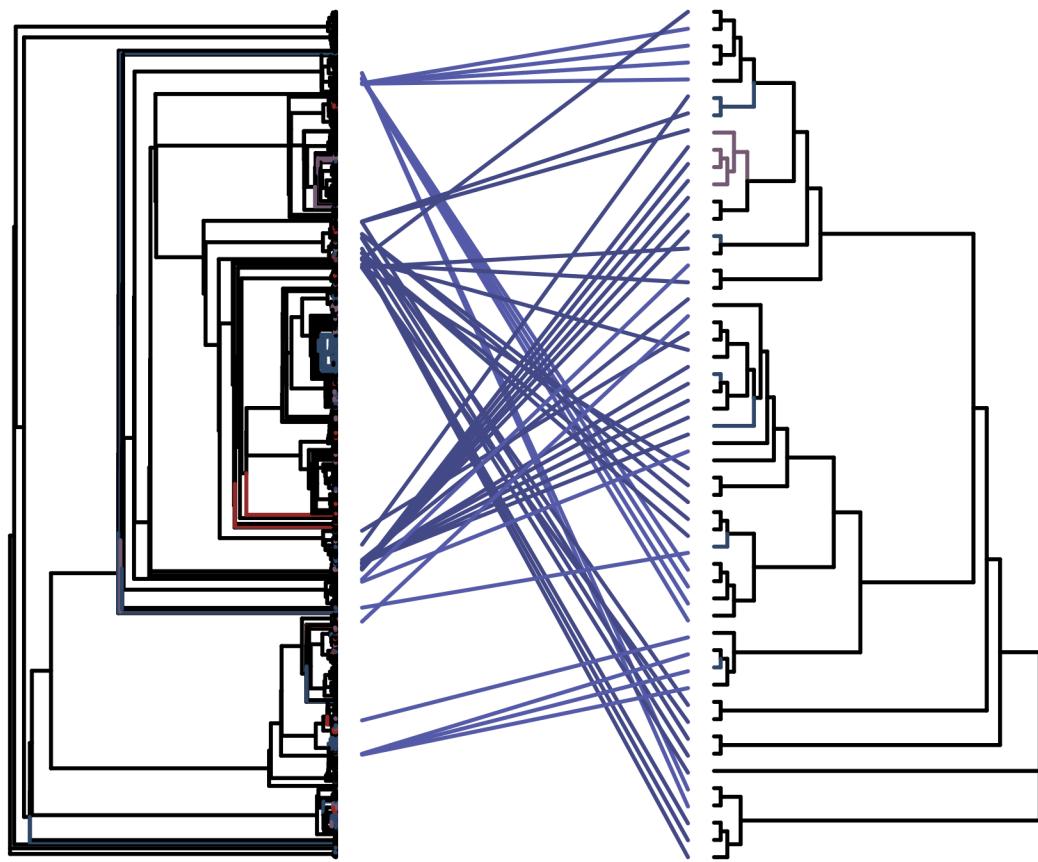
ST counts



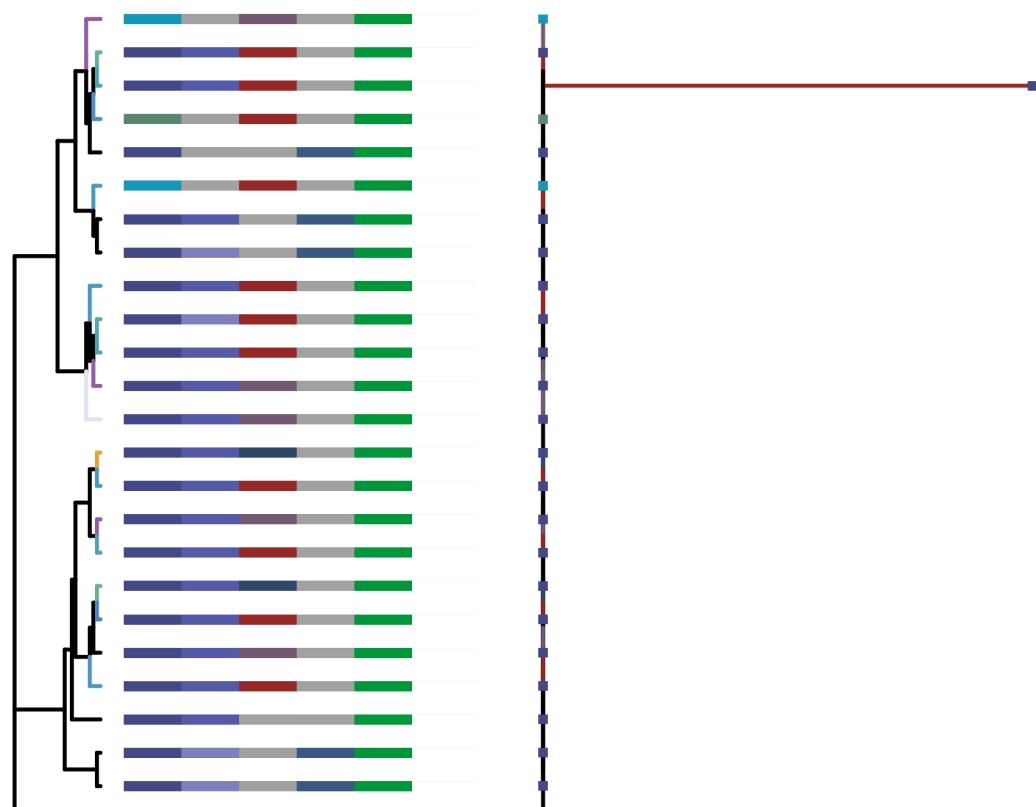
K. pneumoniae CG258

- K. pneumoniae
- Klebsiella sp.
- E. cloacae
- Citrobacter sp.
- E. coli
- Other
- K. pneumoniae ST307
- K. pneumoniae CG258
- E. cloacae ST114
- E. cloacae ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-

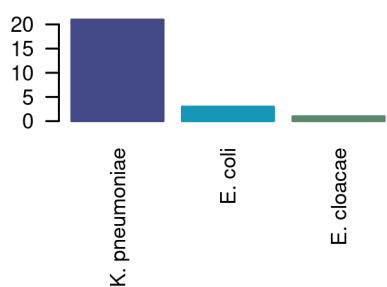




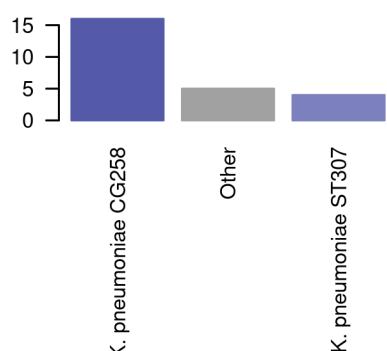
Gene cluster 51 concatenated gene tree



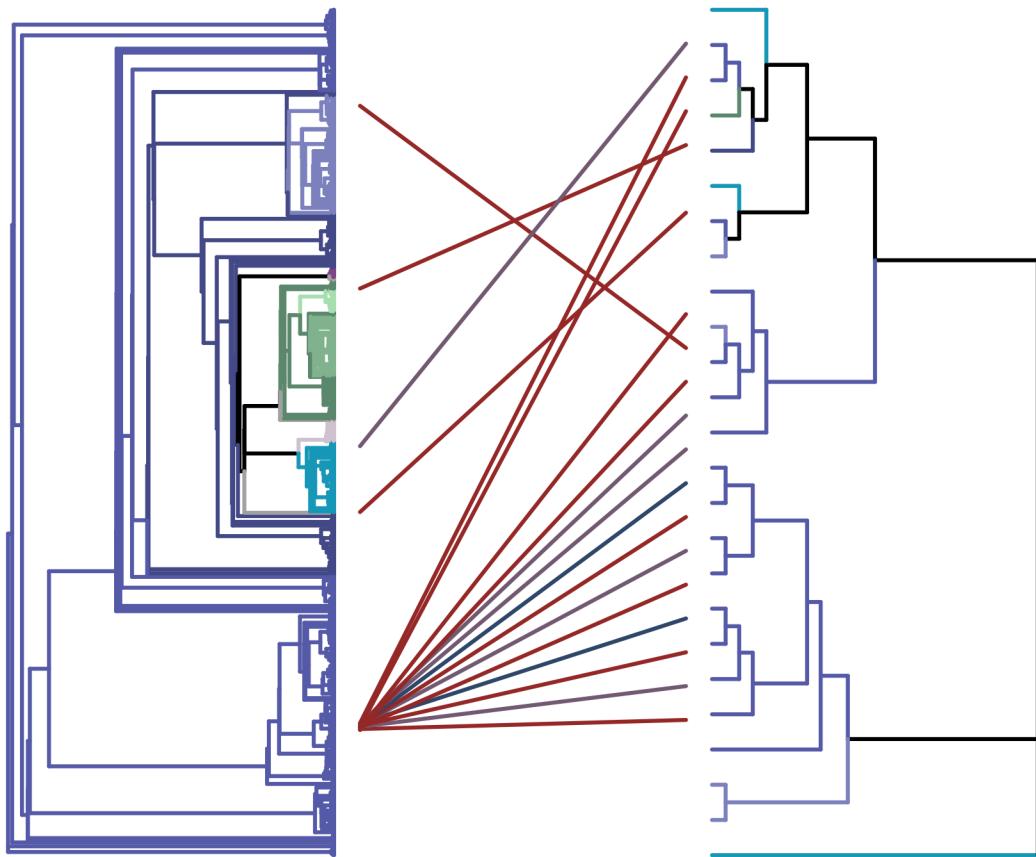
species counts

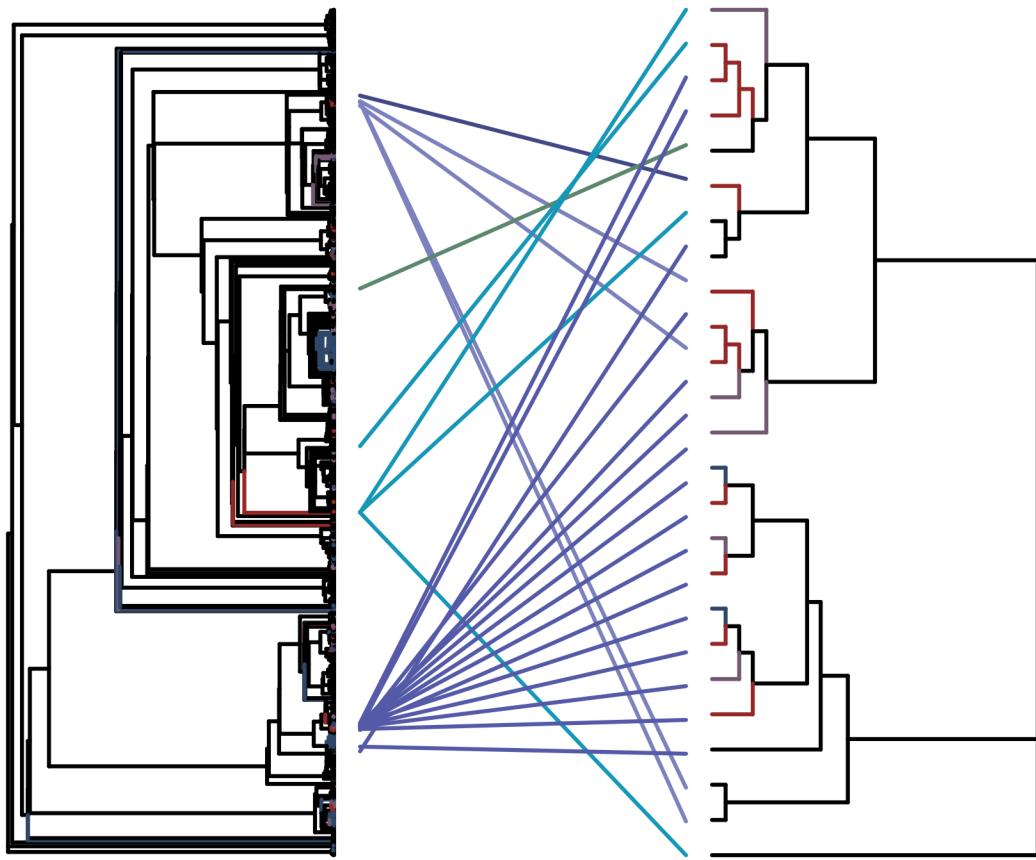


ST counts

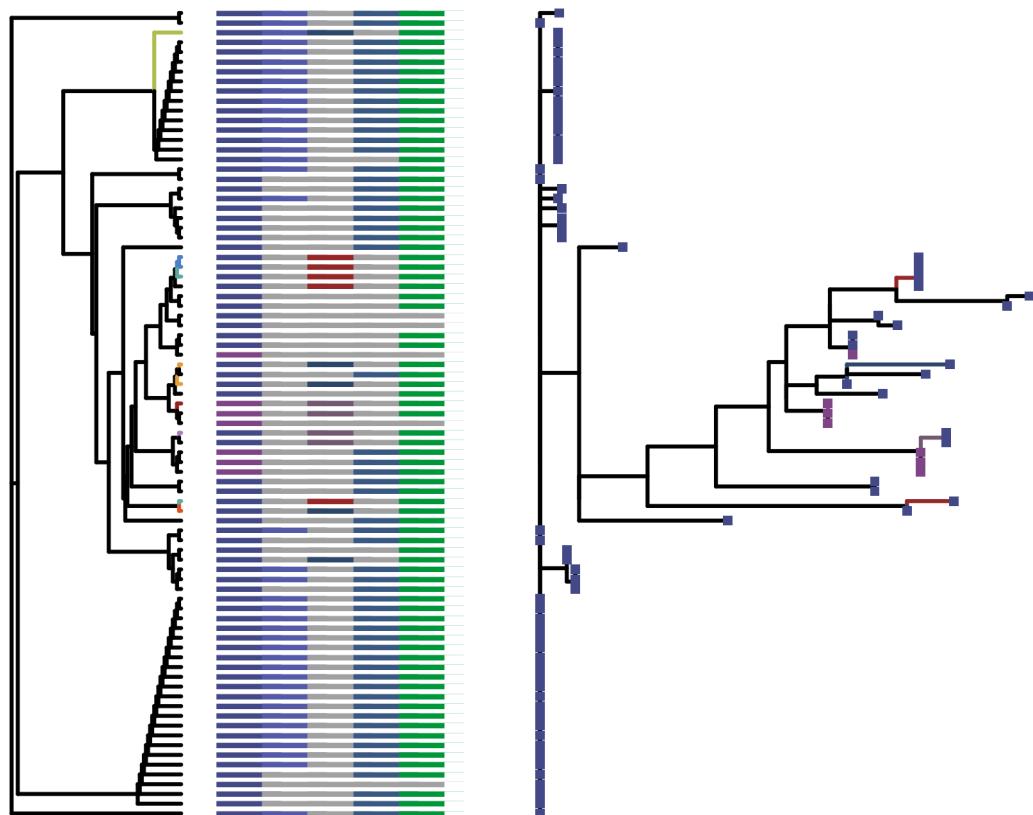


- K. pneumoniae
- Klebsiella sp.
- E. cloacae
- Citrobacter sp.
- E. coli
- Other
- K. pneumoniae ST307
- K. pneumoniae CG258
- E. cloacae ST114
- E. cloacae ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-

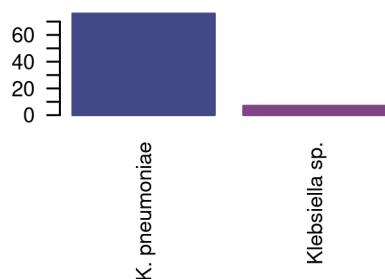




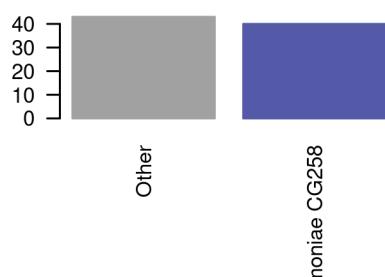
Gene cluster 52 concatenated gene tree



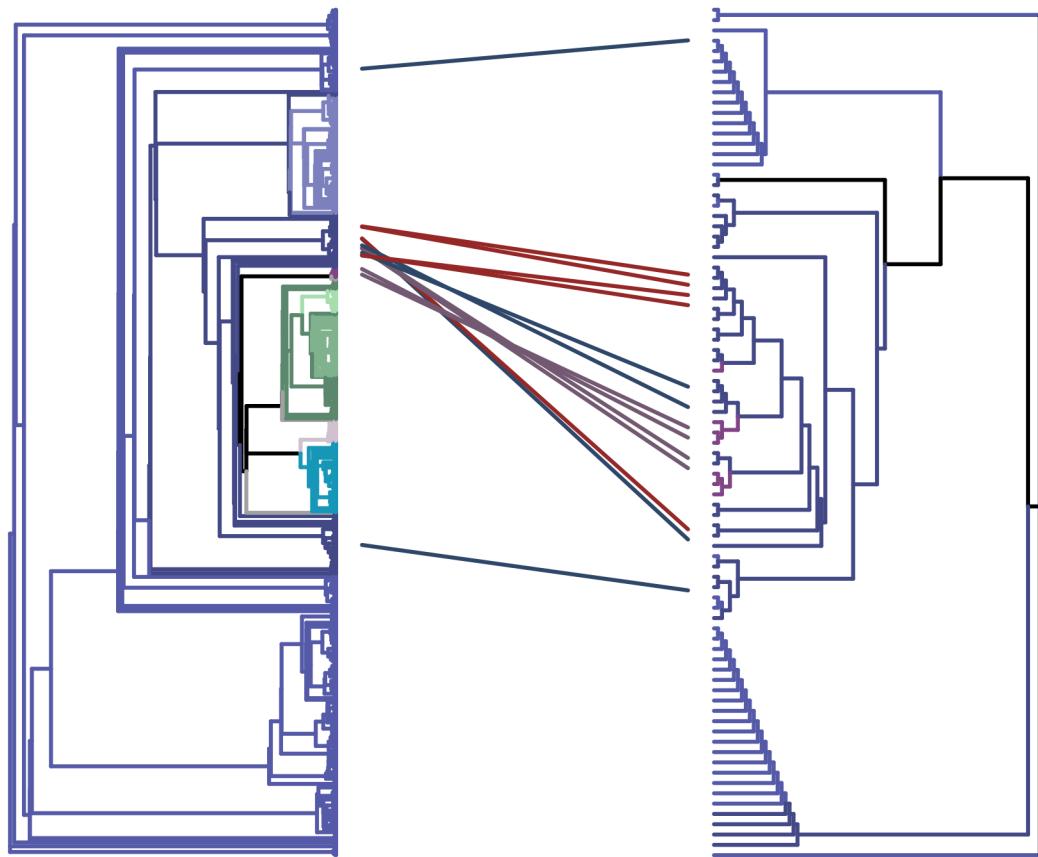
species counts

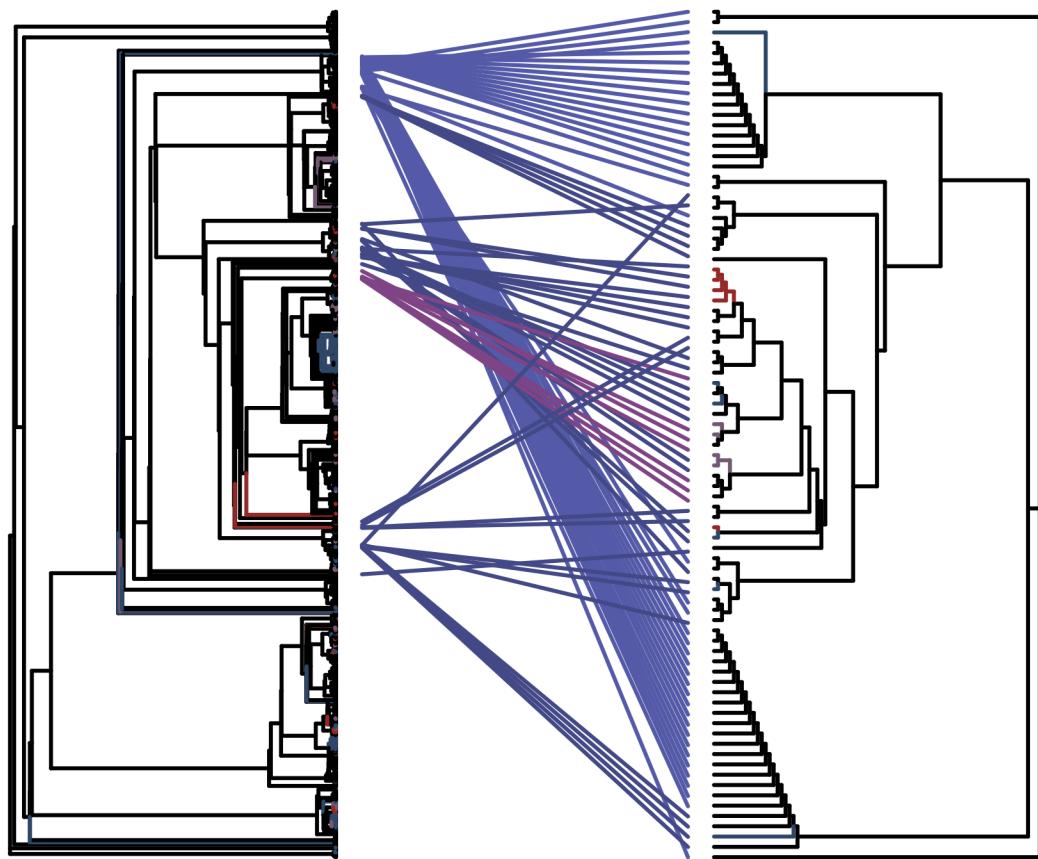


ST counts

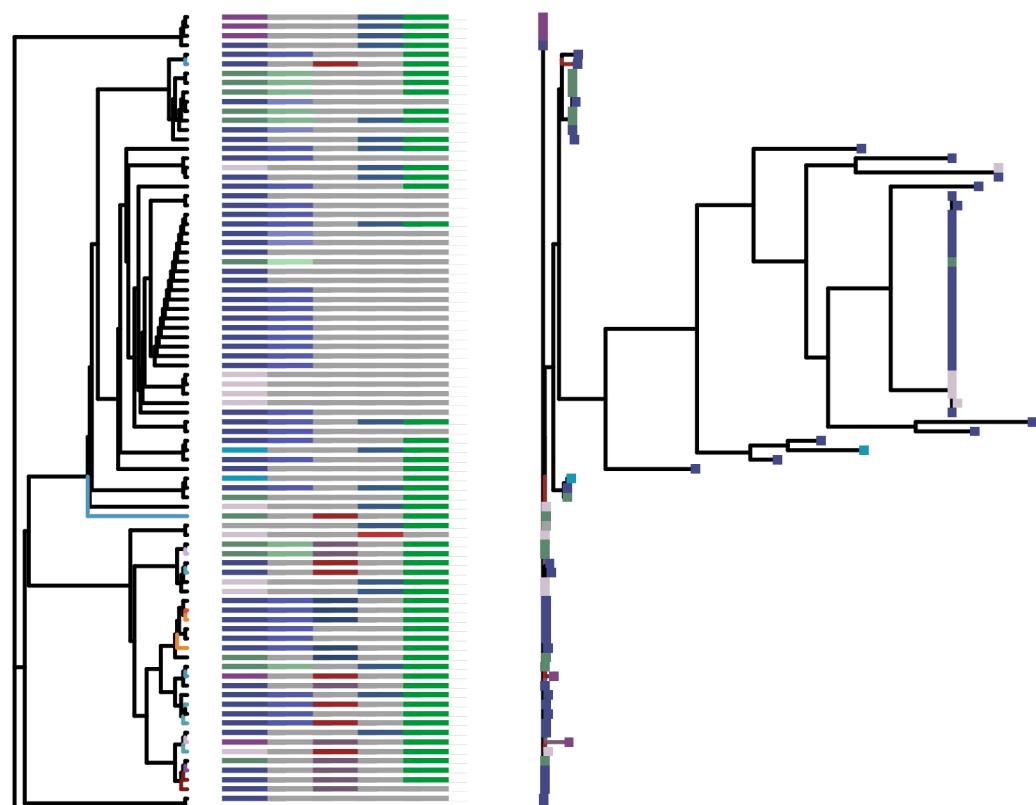


- K. pneumoniae
- Klebsiella sp.
- E. cloacae
- Citrobacter sp.
- E. coli
- Other
- K. pneumoniae ST307
- K. pneumoniae CG258
- E. cloacae ST114
- E. cloacae ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-

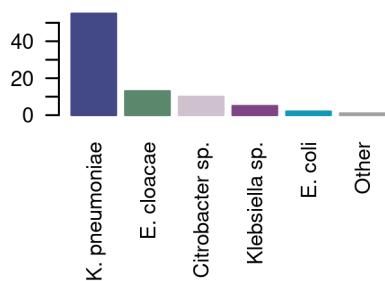




Gene cluster 53 concatenated gene tree

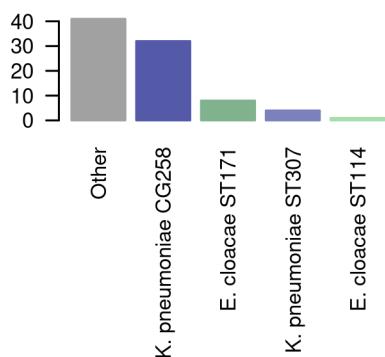


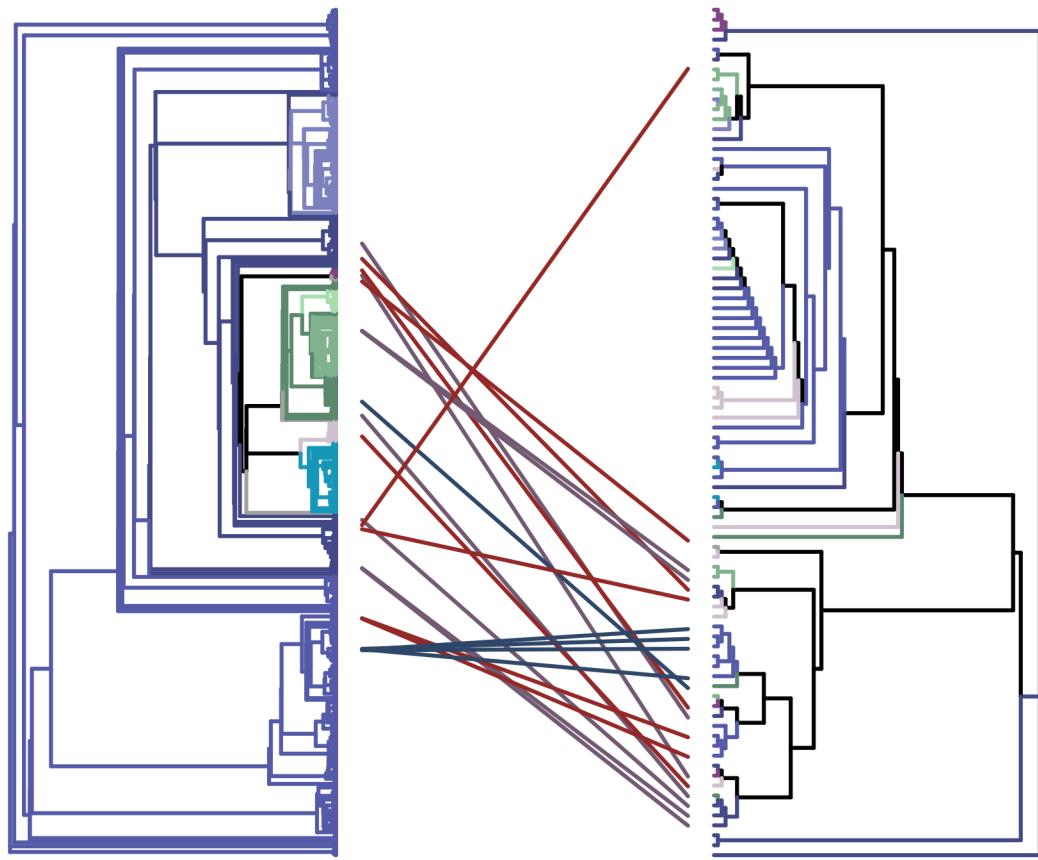
species counts

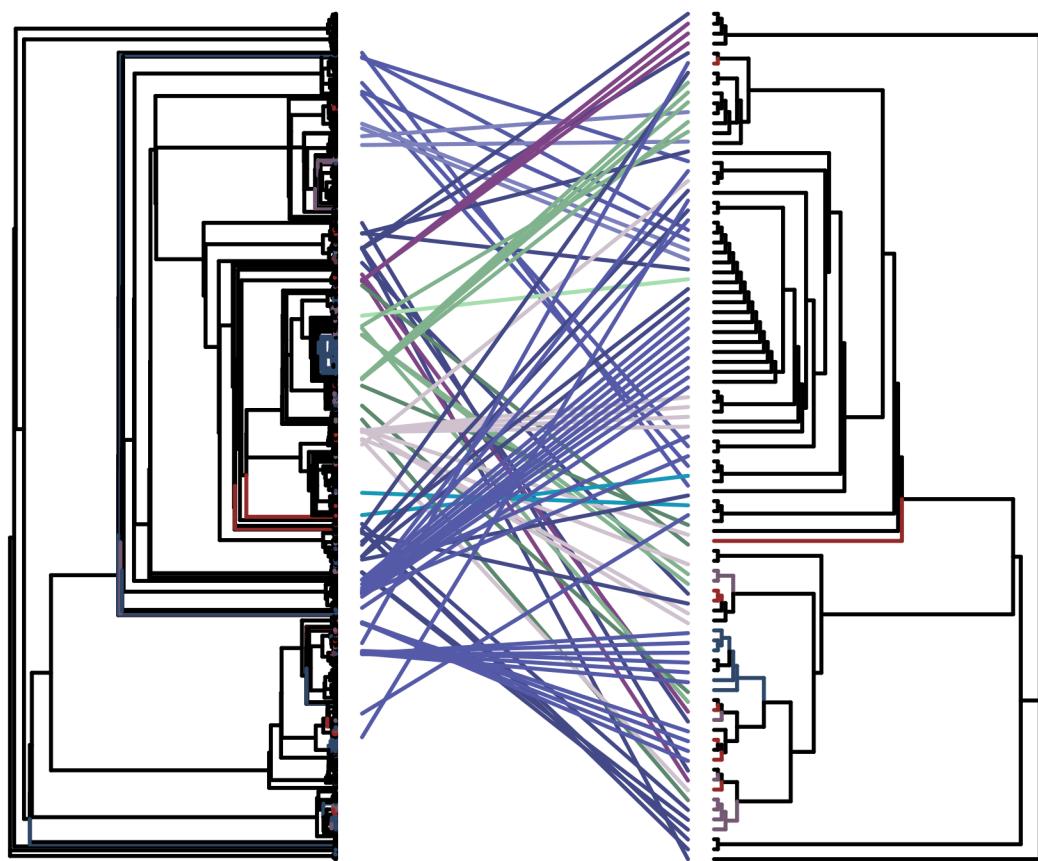


- *K. pneumoniae*
- *Klebsiella* sp.
- *E. cloacae*
- *Citrobacter* sp.
- *E. coli*
- Other
- *K. pneumoniae* ST307
- *K. pneumoniae* CG258
- *E. cloacae* ST114
- *E. cloacae* ST171
- *K. pneumoniae* ST307
- Other
- *EIP*_CT
- *EIP*_MN
- *EIP*_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-

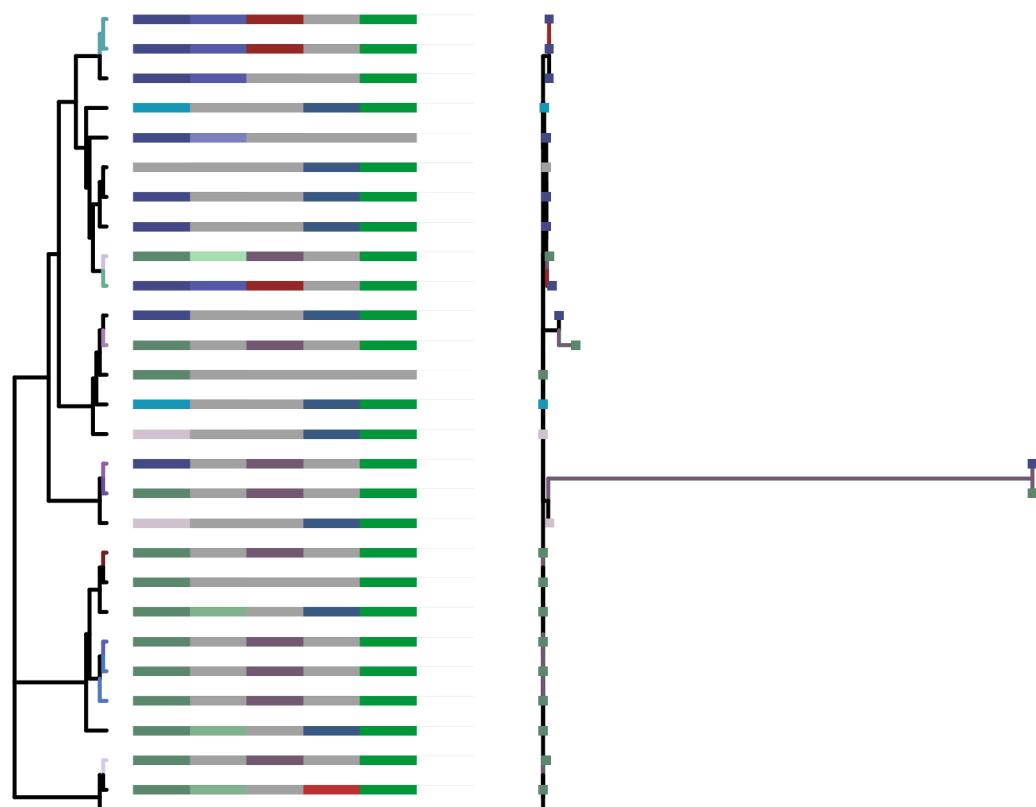
ST counts



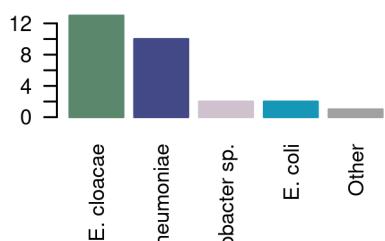




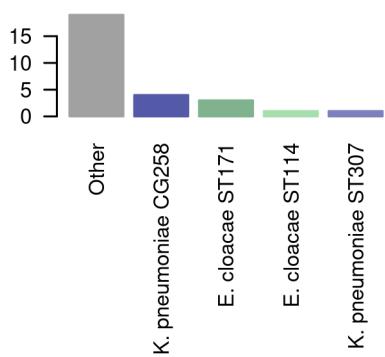
Gene cluster 54 concatenated gene tree



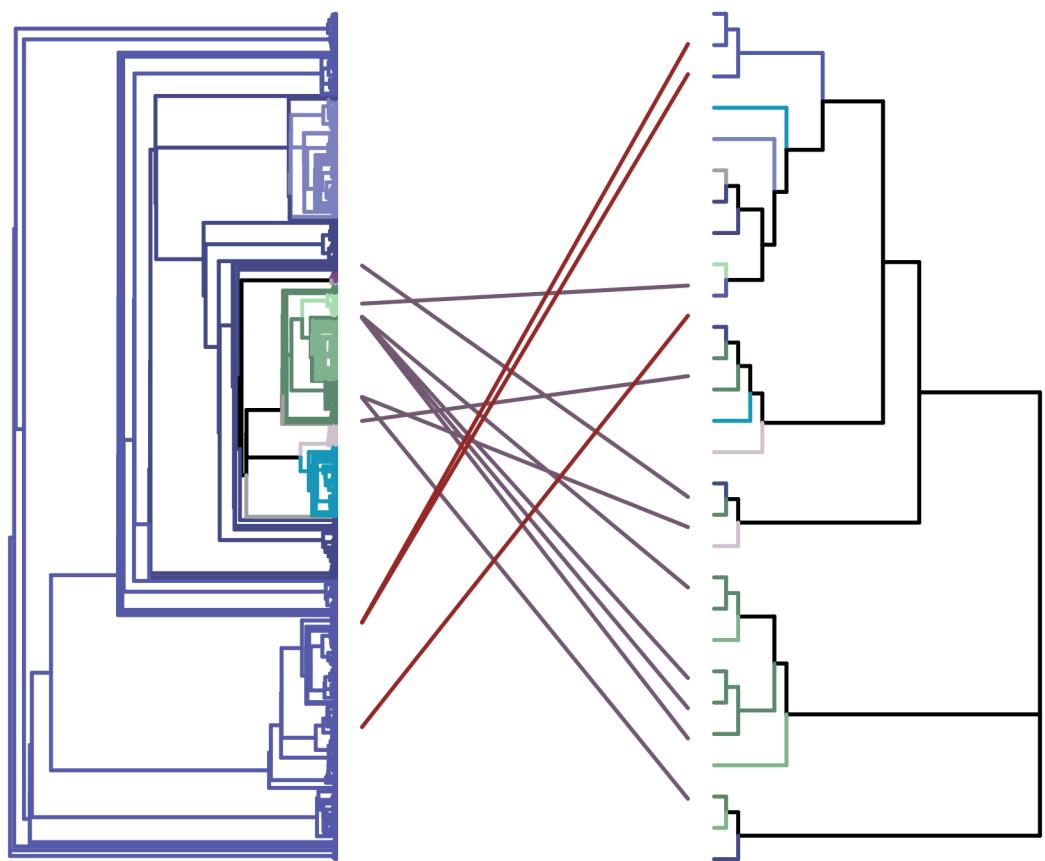
species counts

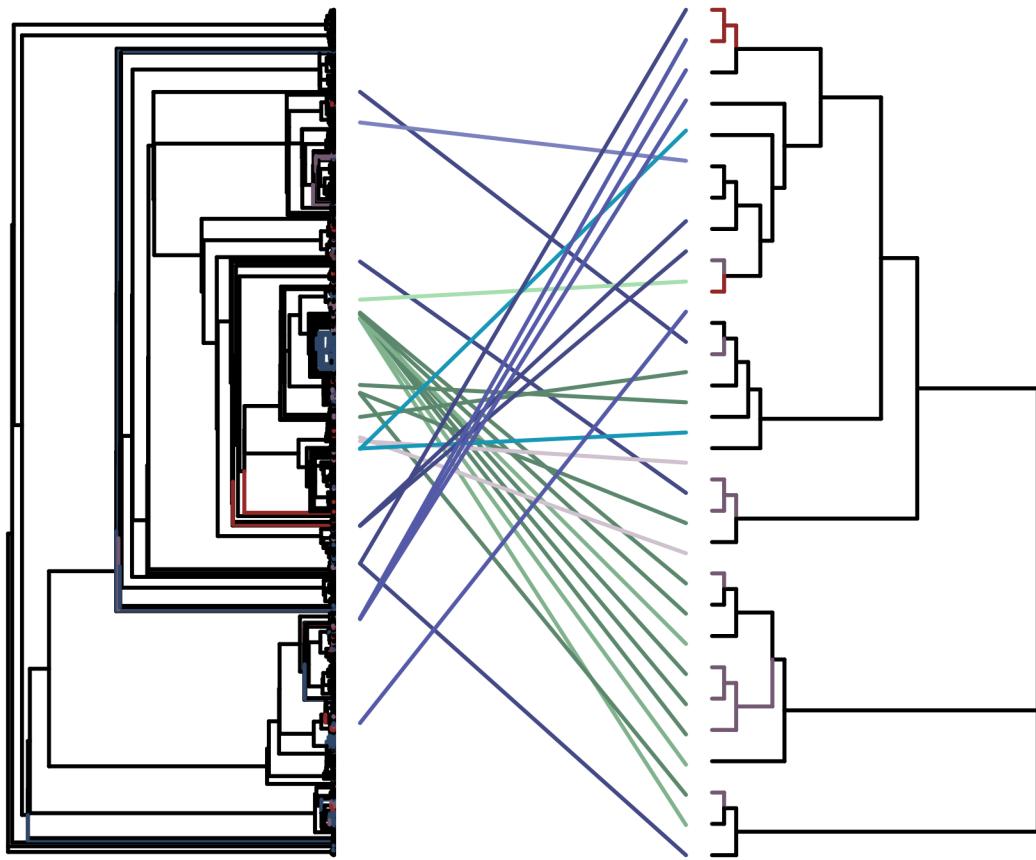


ST counts

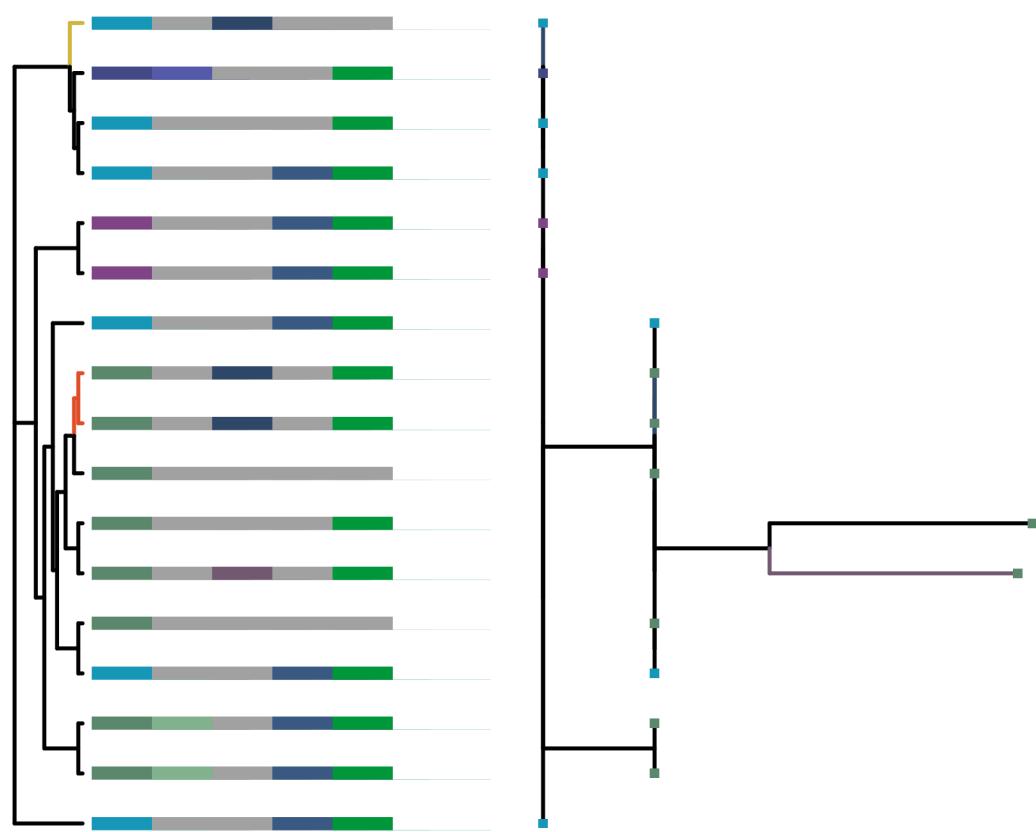


- K. pneumoniae
- Klebsiella sp.
- E. cloacae
- Citrobacter sp.
- E. coli
- Other
- K. pneumoniae ST307
- K. pneumoniae CG258
- E. cloacae ST114
- E. cloacae ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- wgs
- complete
- long-read
- KPC+
- KPC-

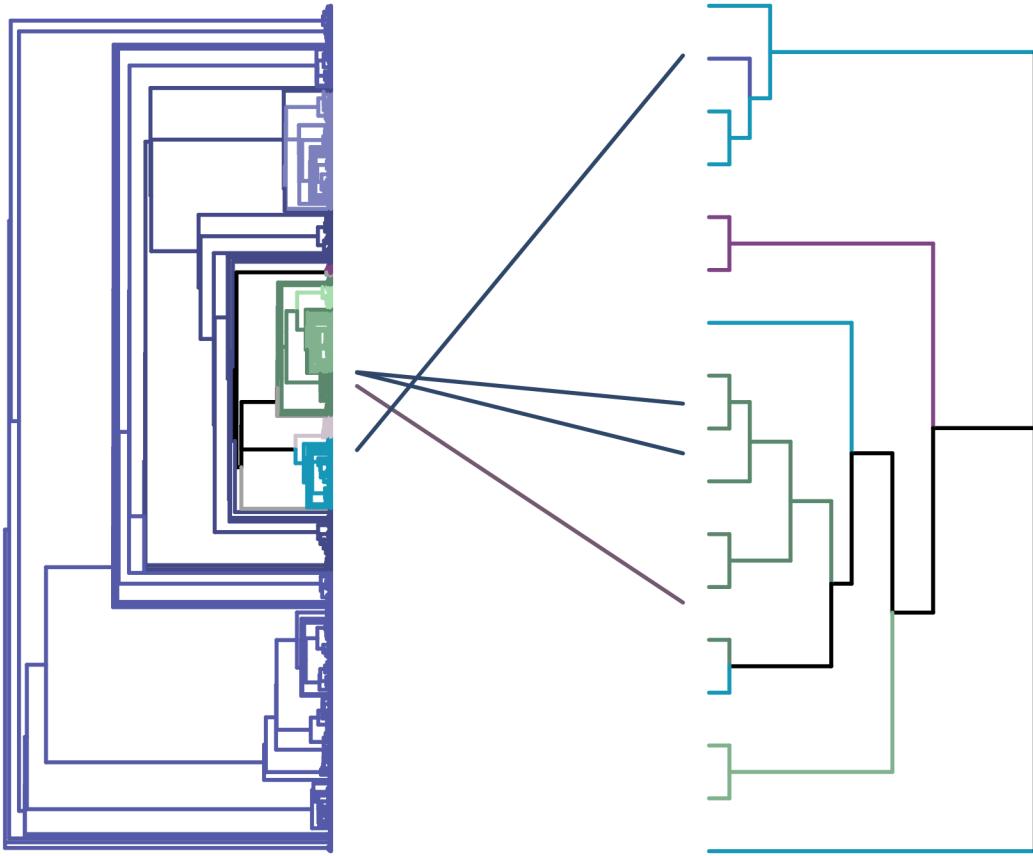


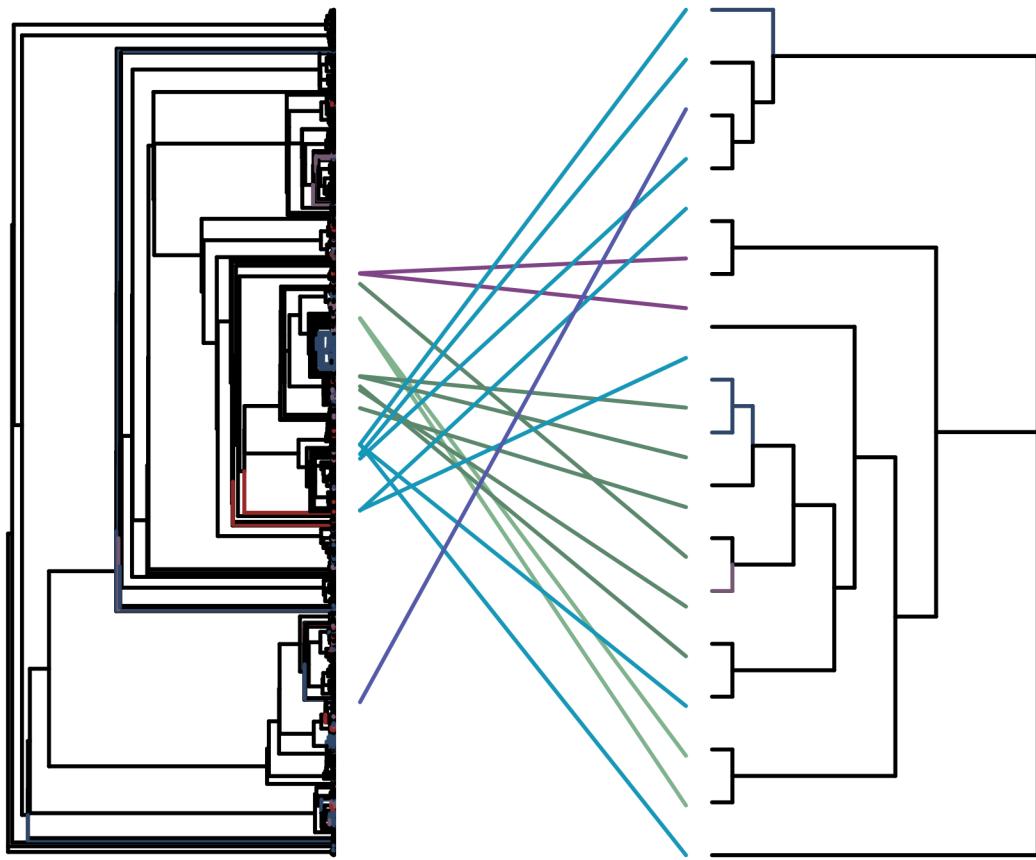


Gene cluster 55 concatenated gene tree

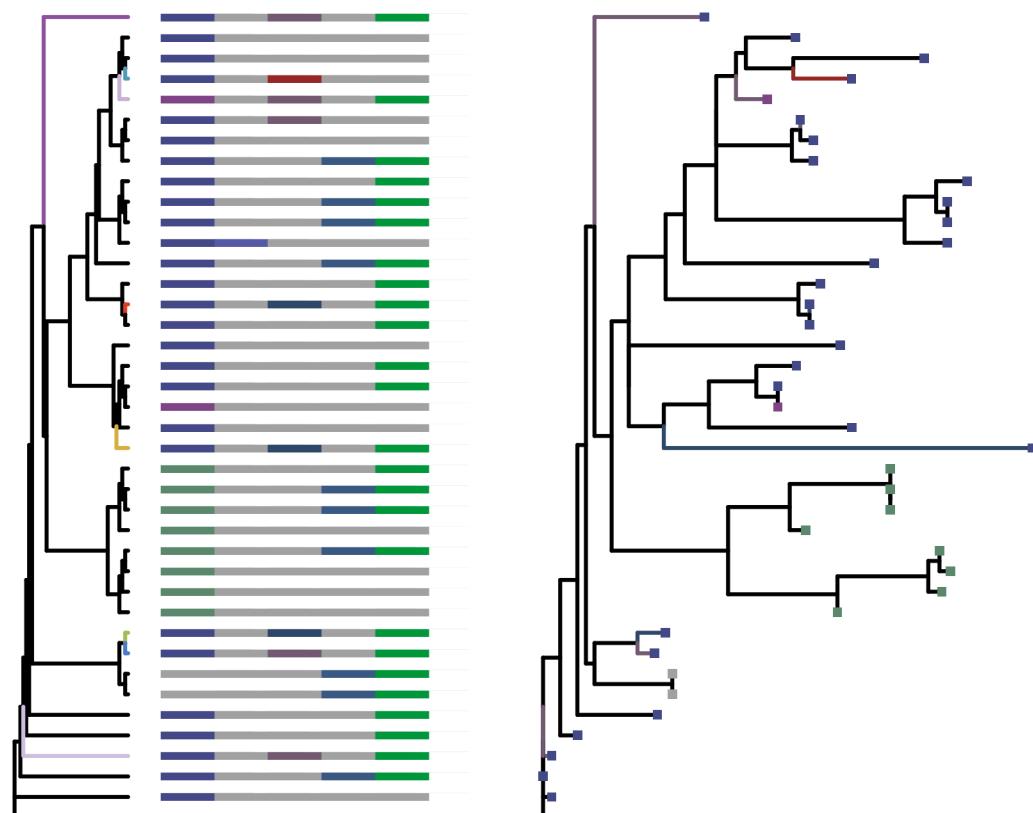


- K. pneumoniae
- Klebsiella sp.
- E. cloacae
- Citrobacter sp.
- E. coli
- Other
- K. pneumoniae ST307
- K. pneumoniae CG258
- E. cloacae ST114
- E. cloacae ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-

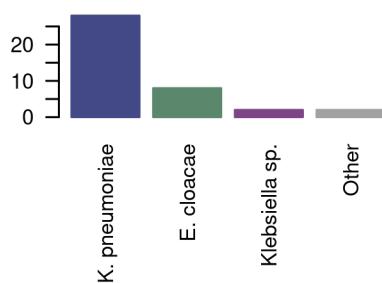




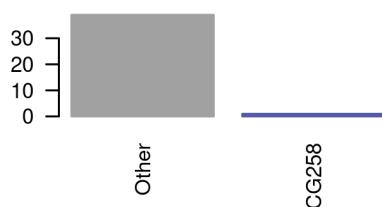
Gene cluster 56 concatenated gene tree



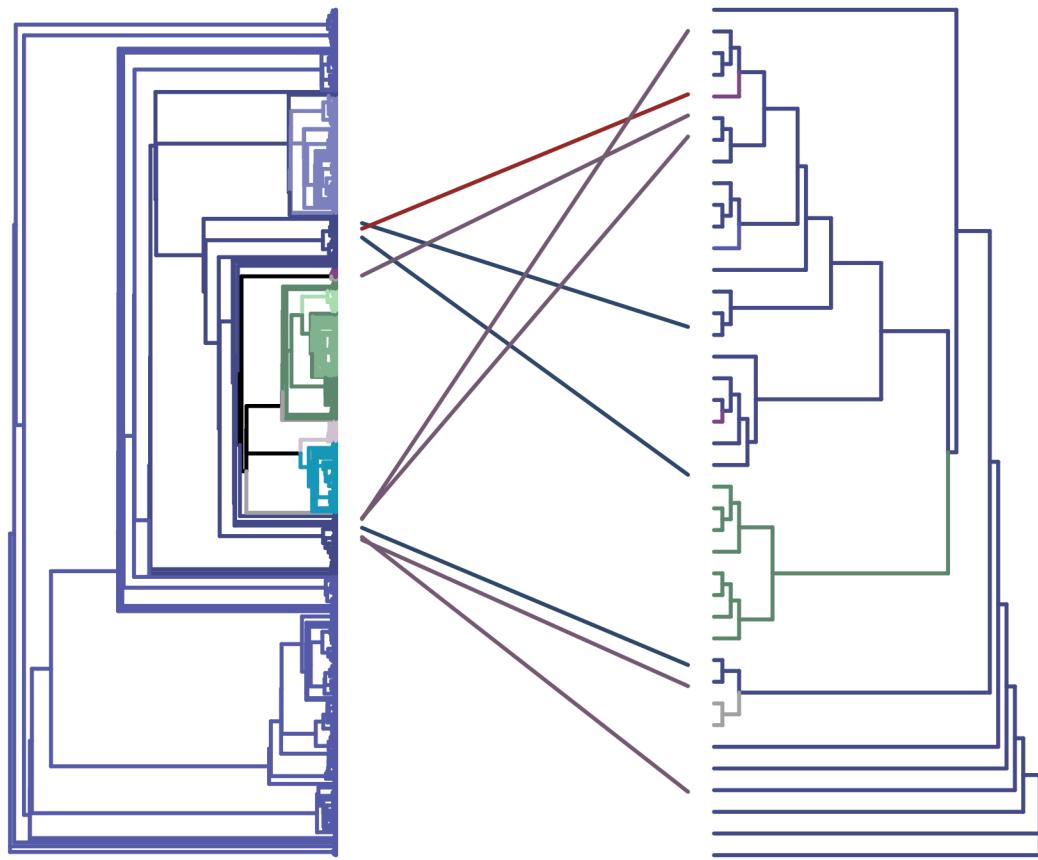
species counts

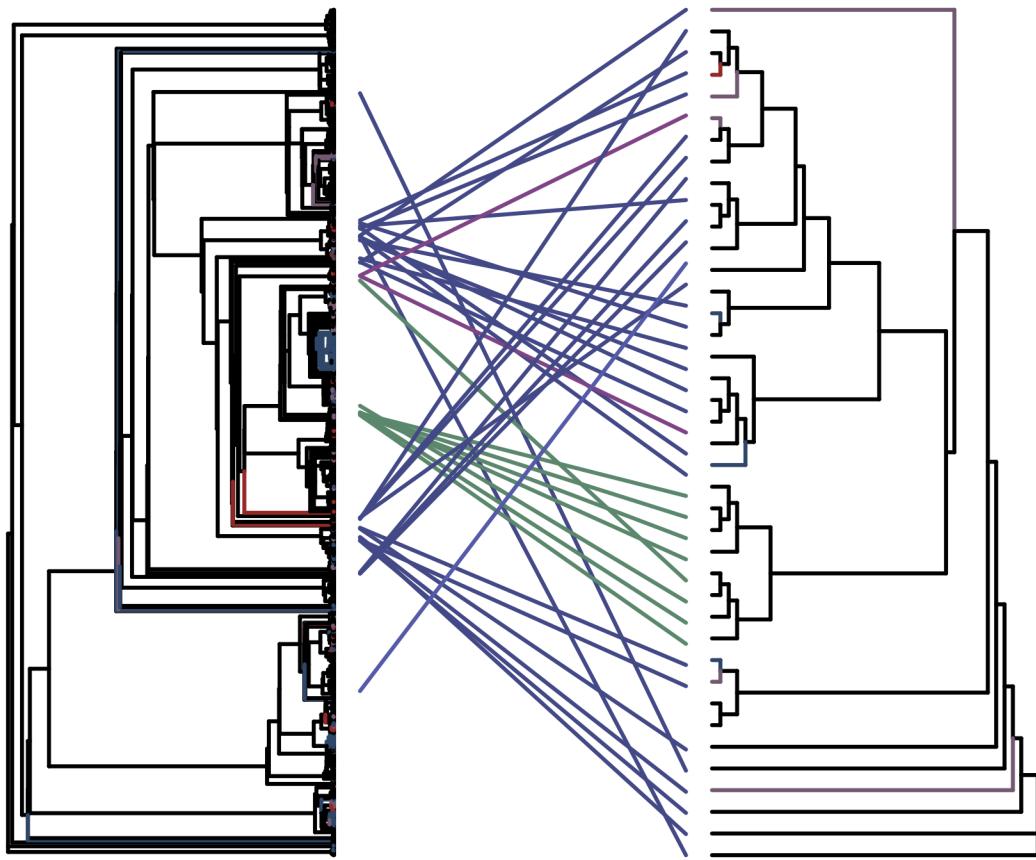


ST counts

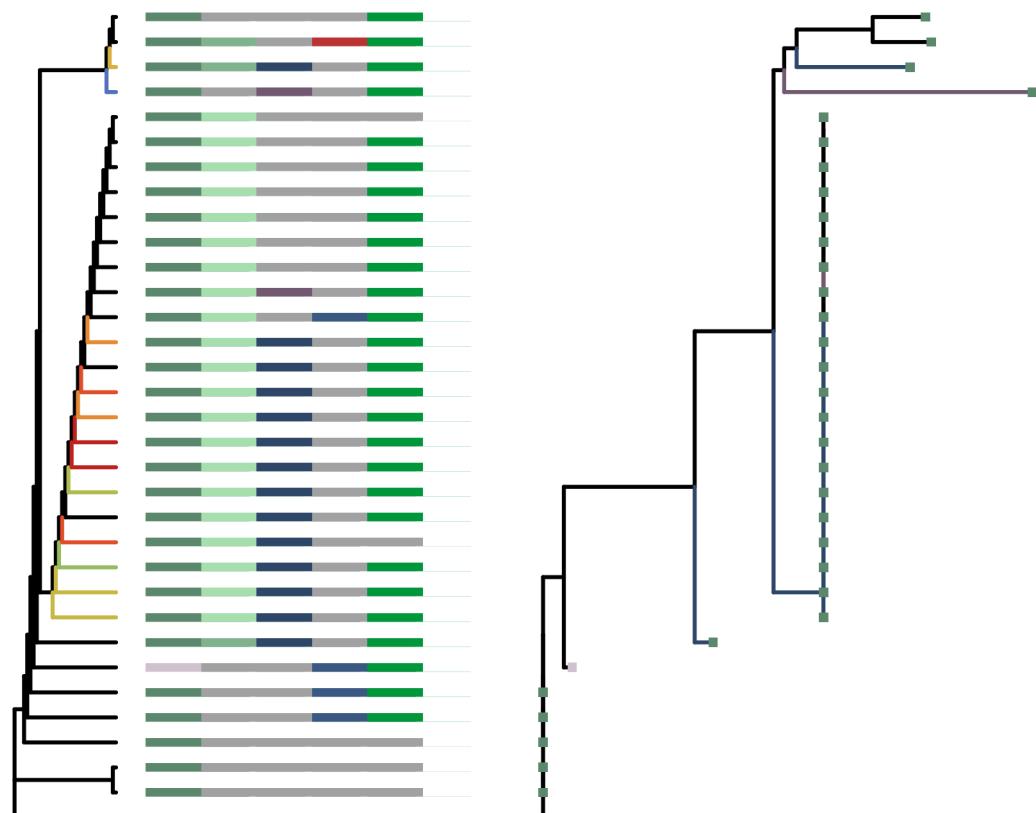


- K. pneumoniae
- Klebsiella sp.
- E. cloacae
- Citrobacter sp.
- E. coli
- Other
- K. pneumoniae ST307
- K. pneumoniae CG258
- E. cloacae ST114
- E. cloacae ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-

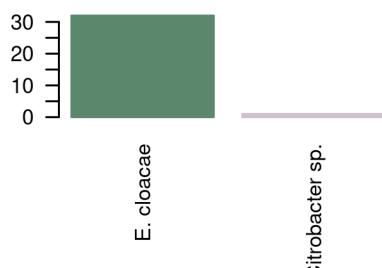




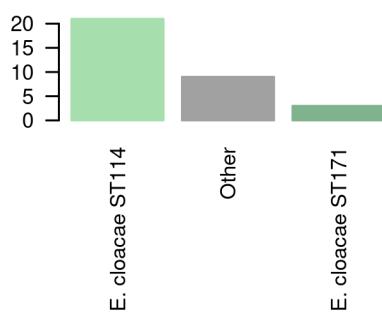
Gene cluster 57 concatenated gene tree



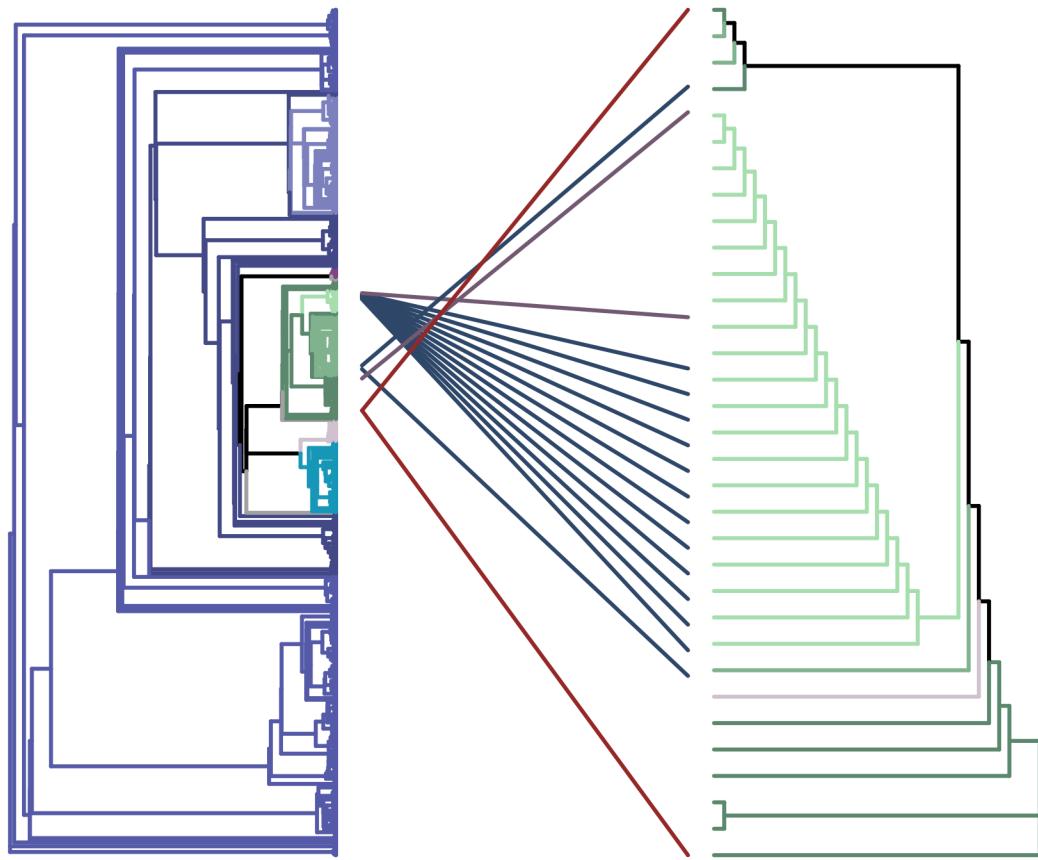
species counts

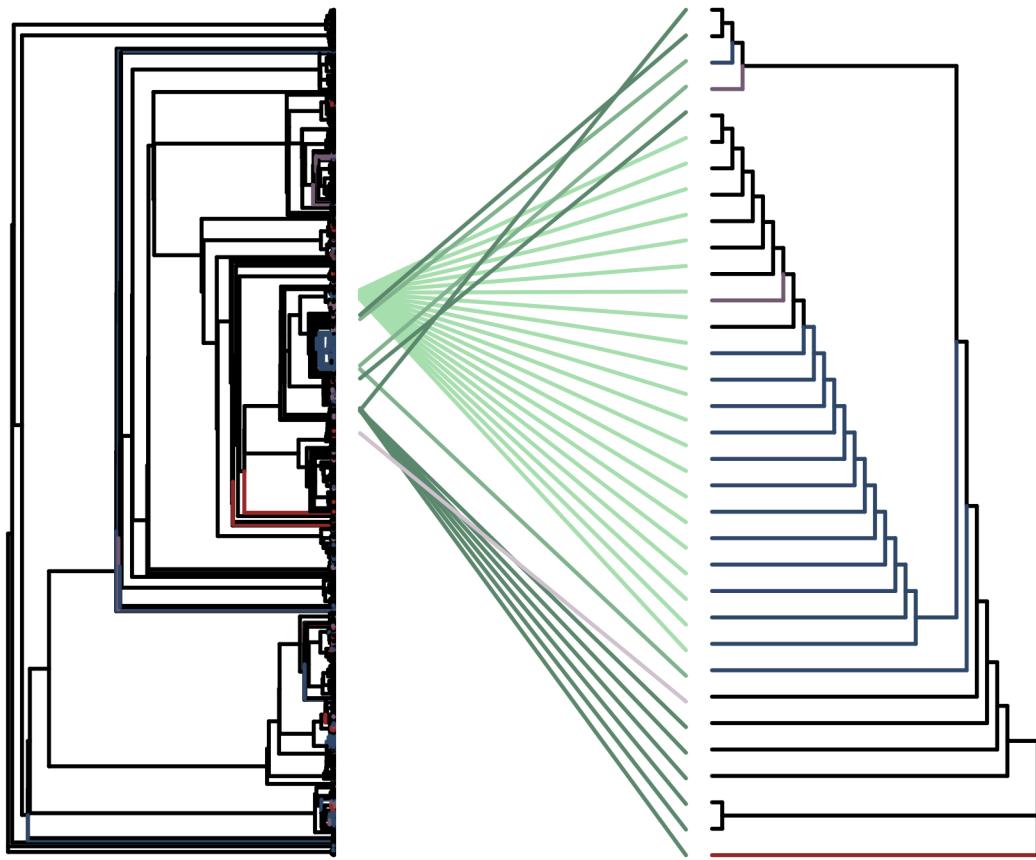


ST counts

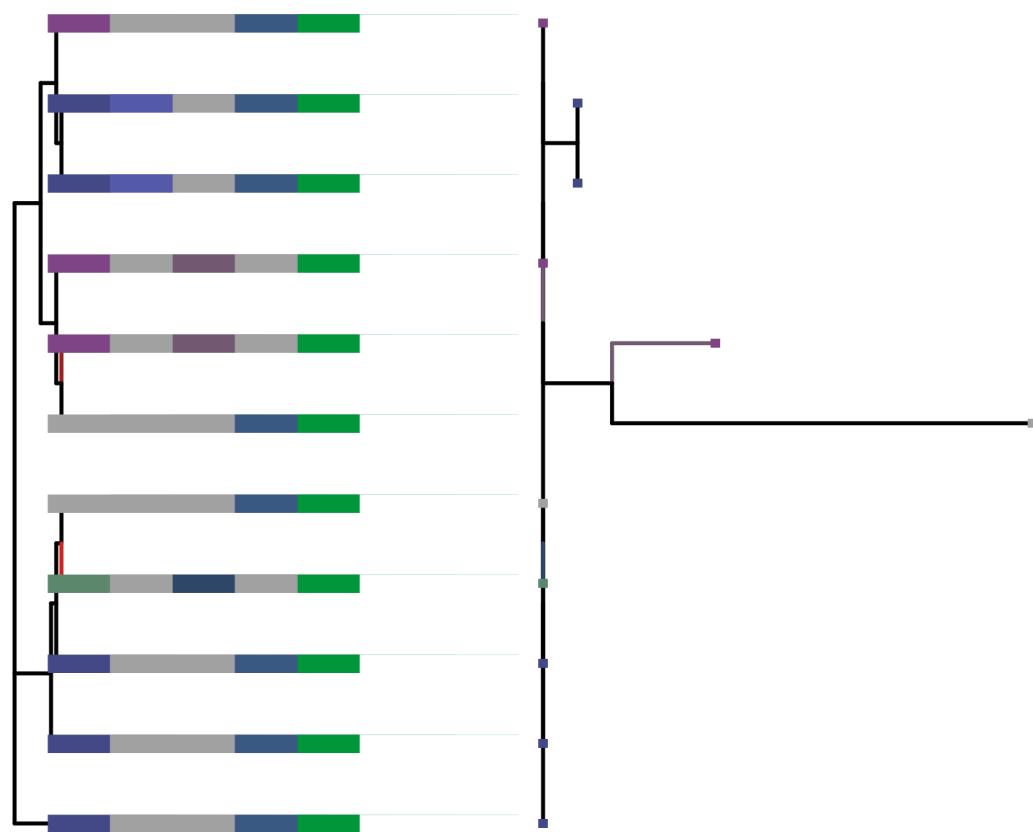


- K. pneumoniae
- Klebsiella sp.
- E. cloacae
- Citrobacter sp.
- E. coli
- Other
- K. pneumoniae ST307
- K. pneumoniae CG258
- E. cloacae ST114
- E. cloacae ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- wgs
- complete
- long-read
- KPC+
- KPC-

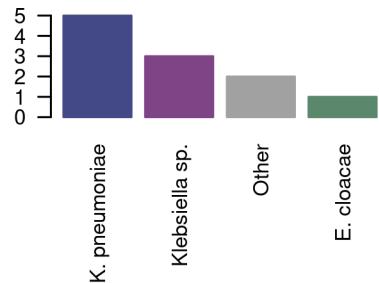




Gene cluster 58 concatenated gene tree

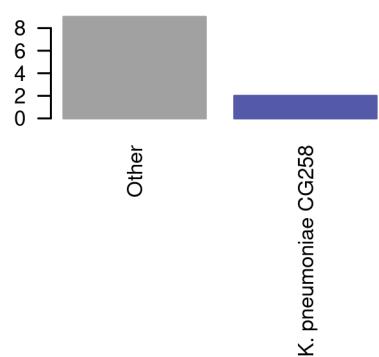


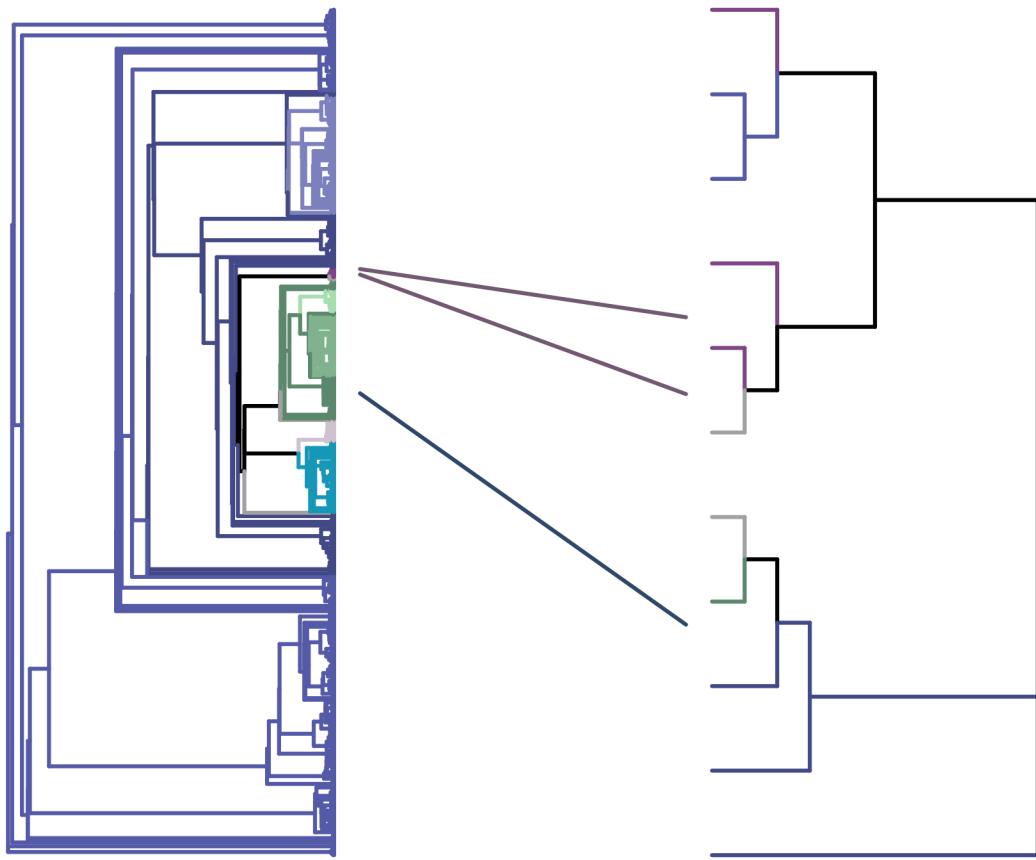
species counts

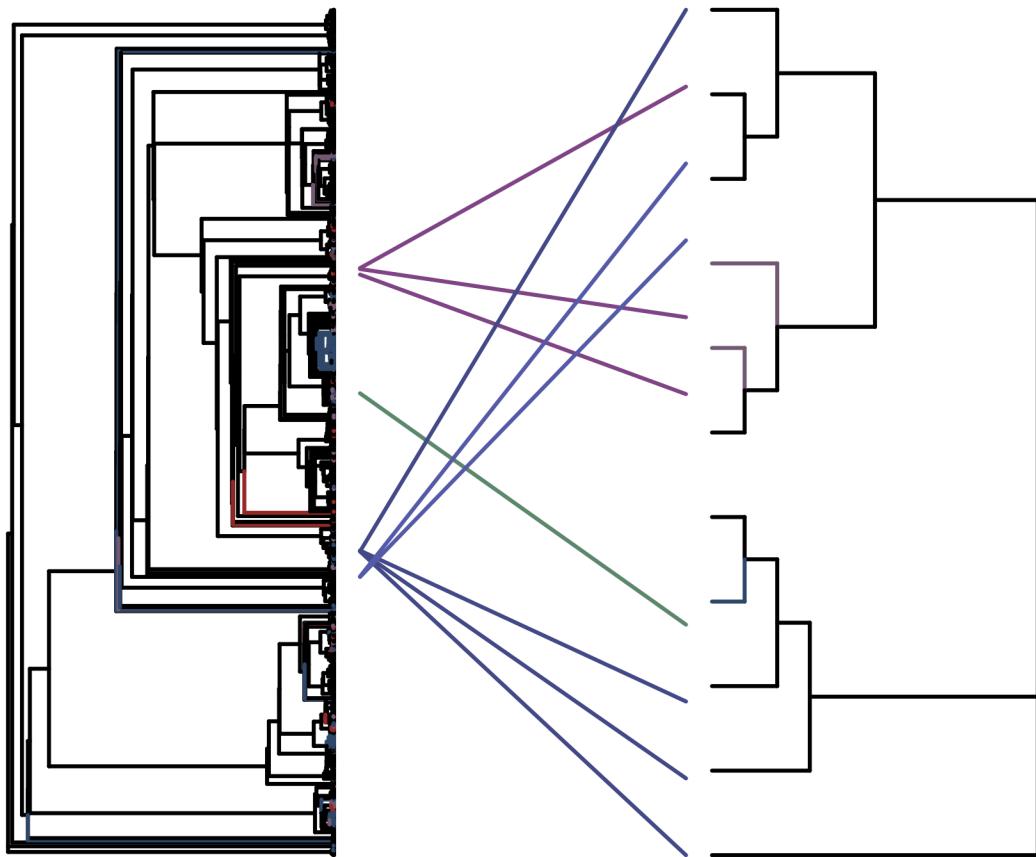


- K. pneumoniae
- Klebsiella sp.
- E. cloacae
- Citrobacter sp.
- E. coli
- Other
- K. pneumoniae ST307
- K. pneumoniae CG258
- E. cloacae ST114
- E. cloacae ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-

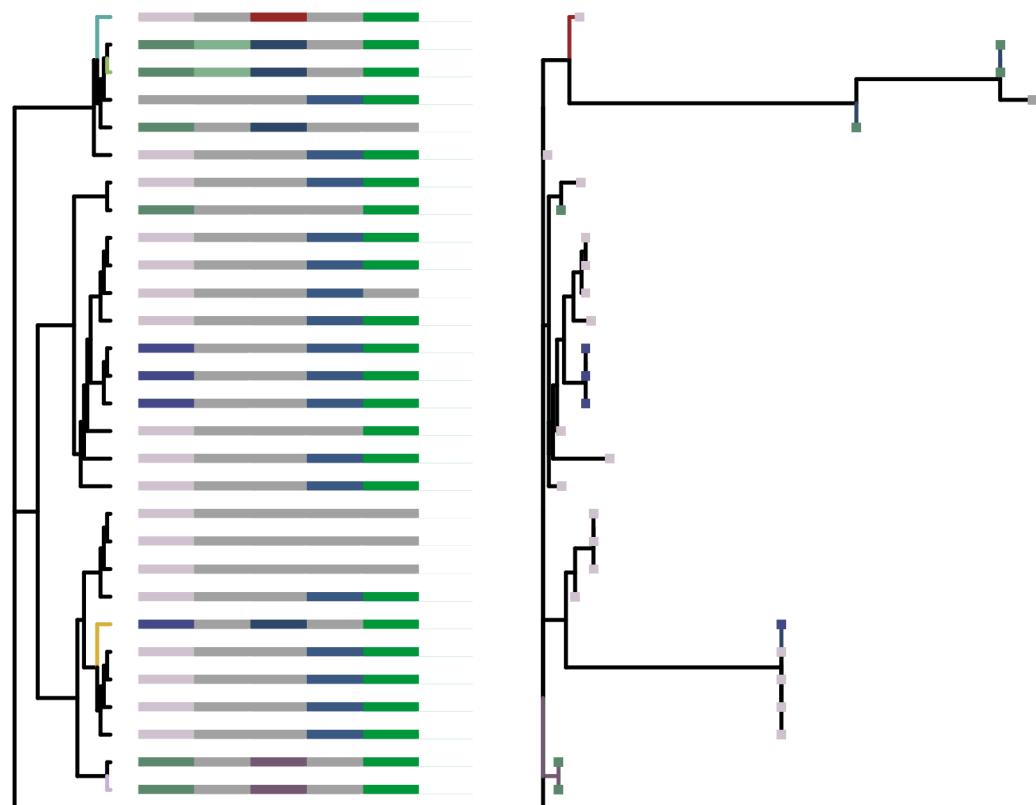
ST counts



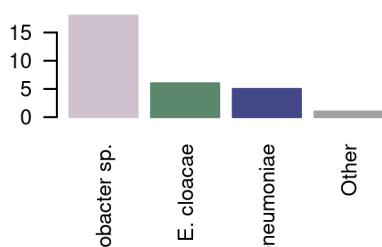




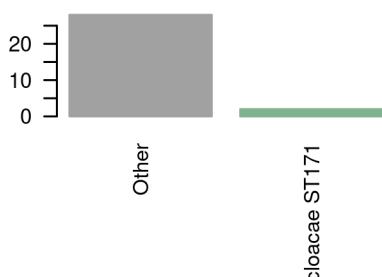
Gene cluster 59 concatenated gene tree



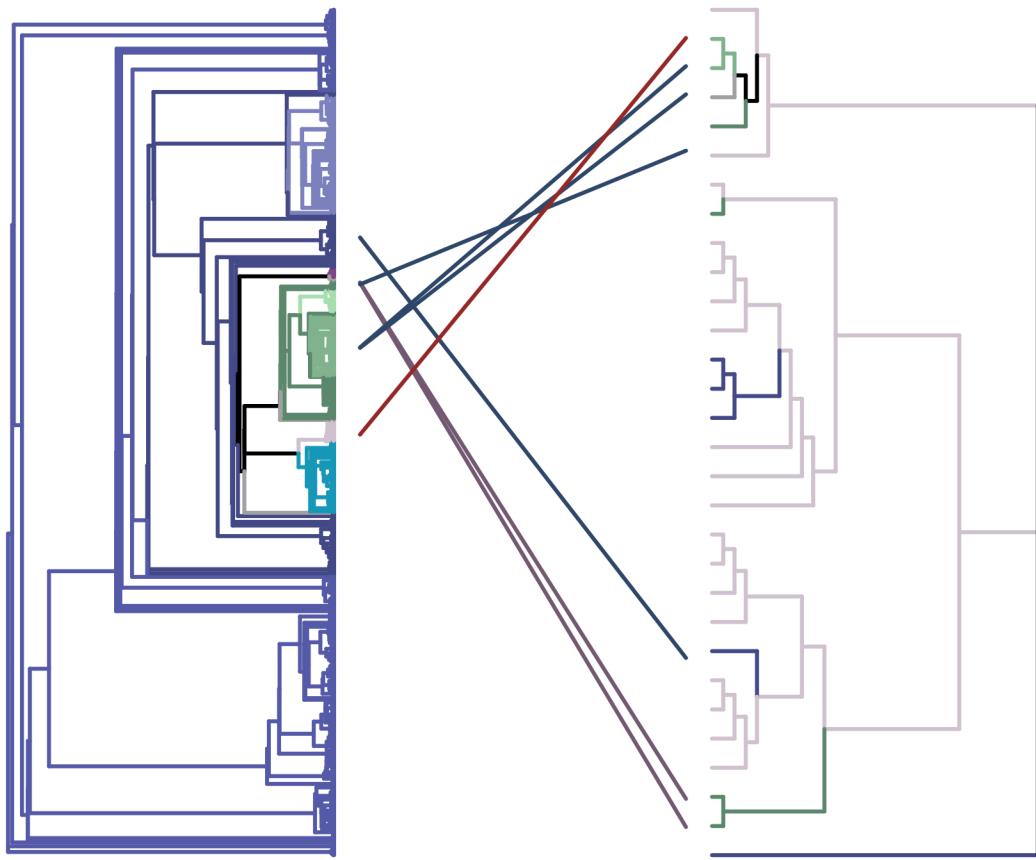
species counts

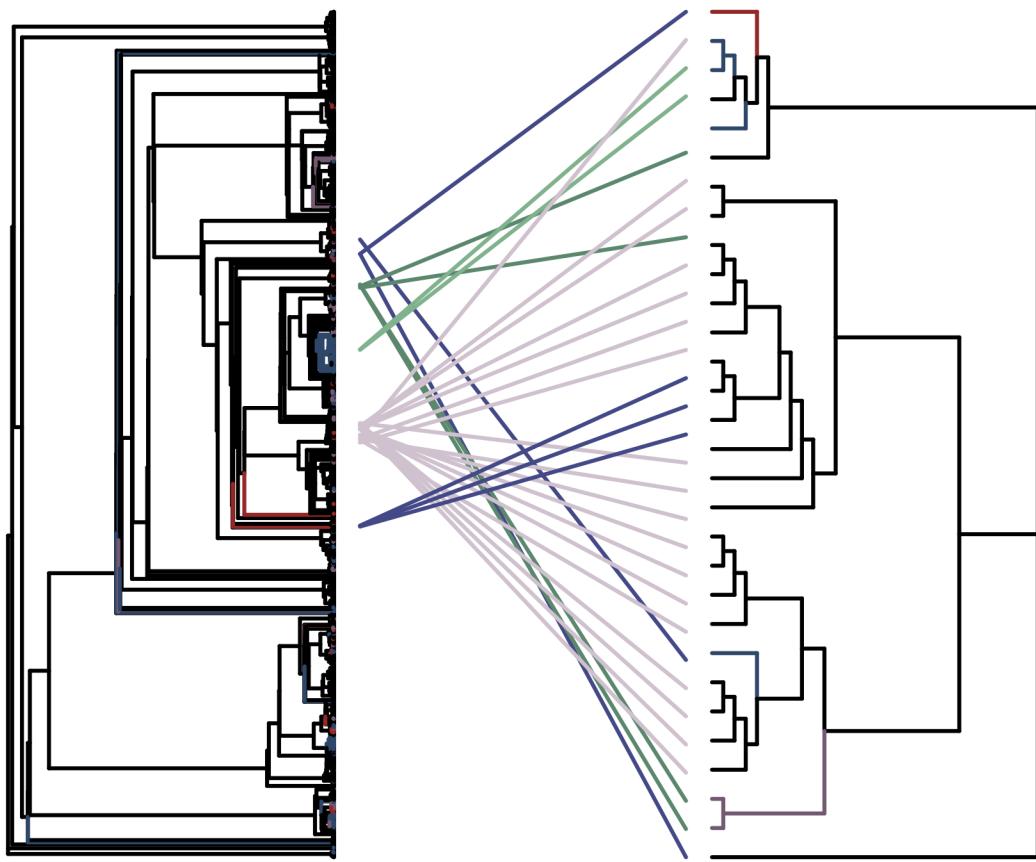


ST counts

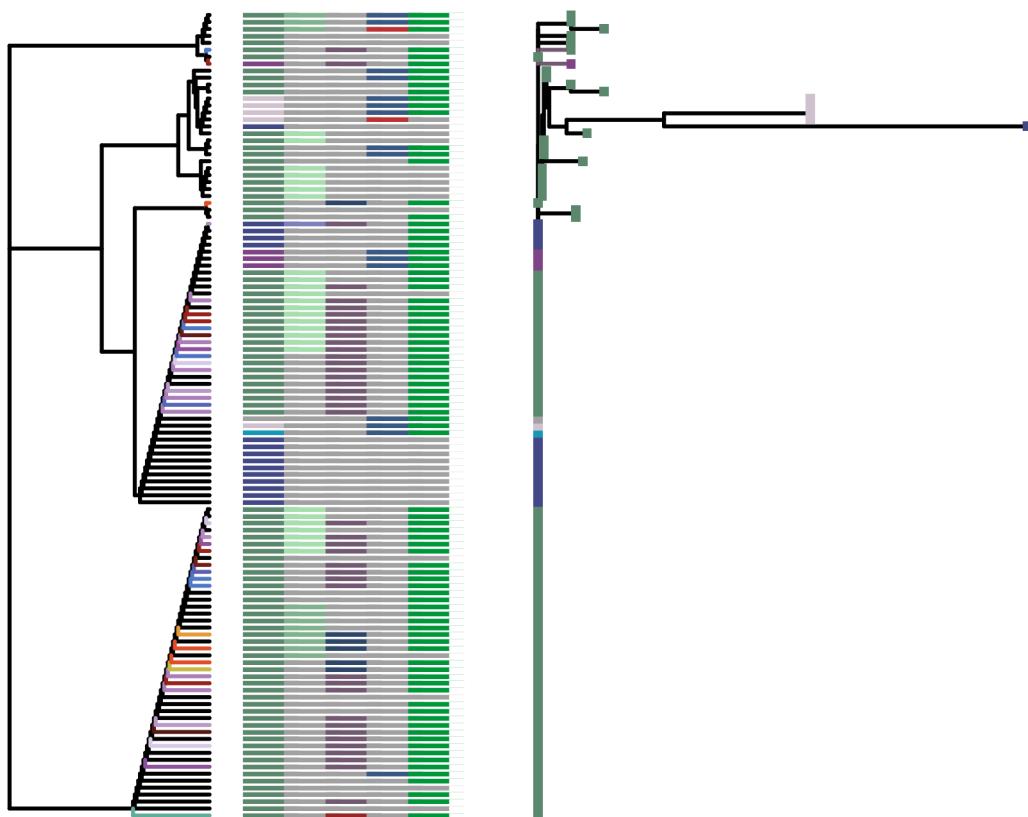


- K. pneumoniae
- Klebsiella sp.
- E. cloacae
- Citrobacter sp.
- E. coli
- Other
- K. pneumoniae ST307
- K. pneumoniae CG258
- E. cloacae ST114
- E. cloacae ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-

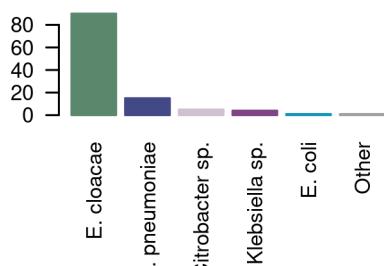




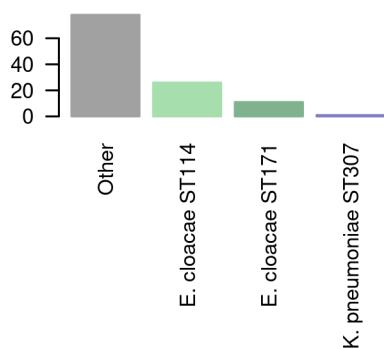
Gene cluster 60 concatenated gene tree



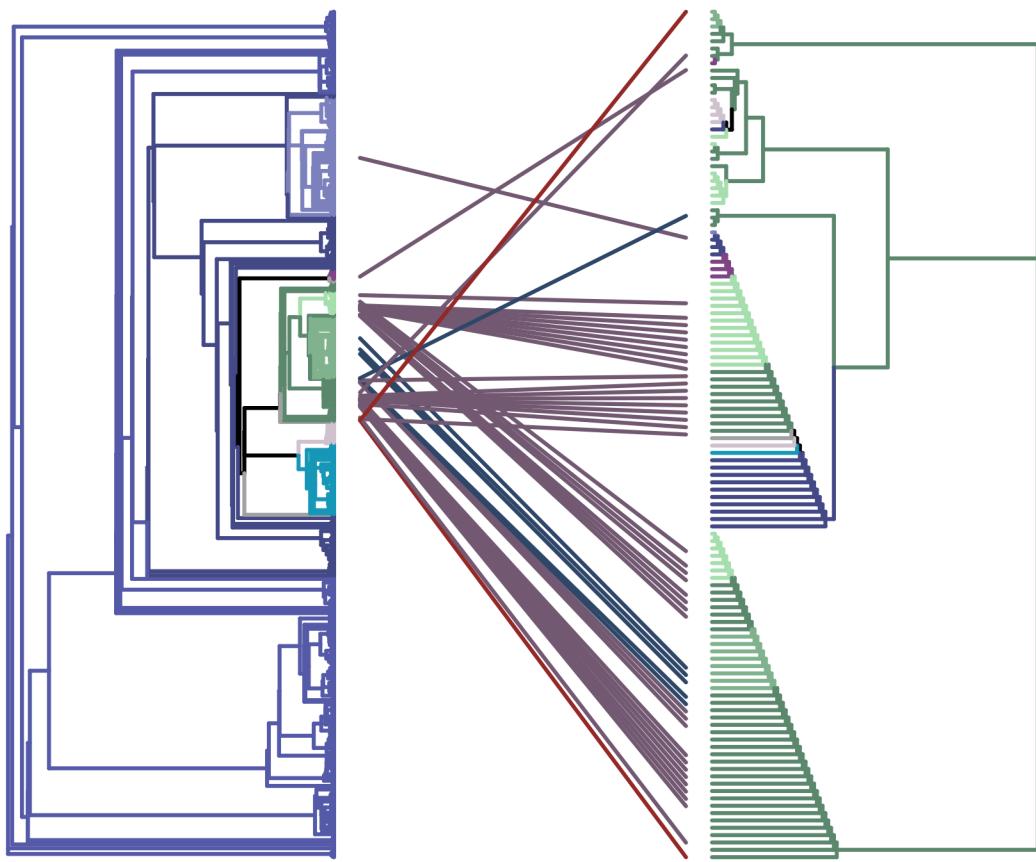
species counts

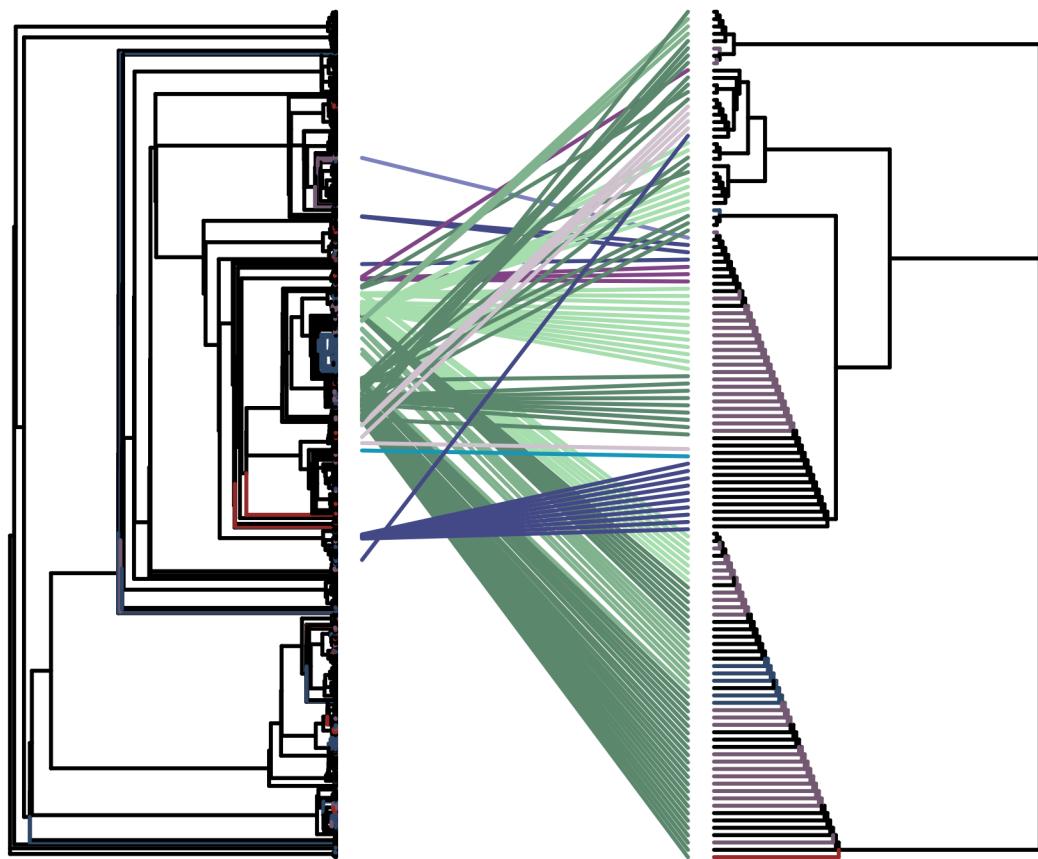


ST counts

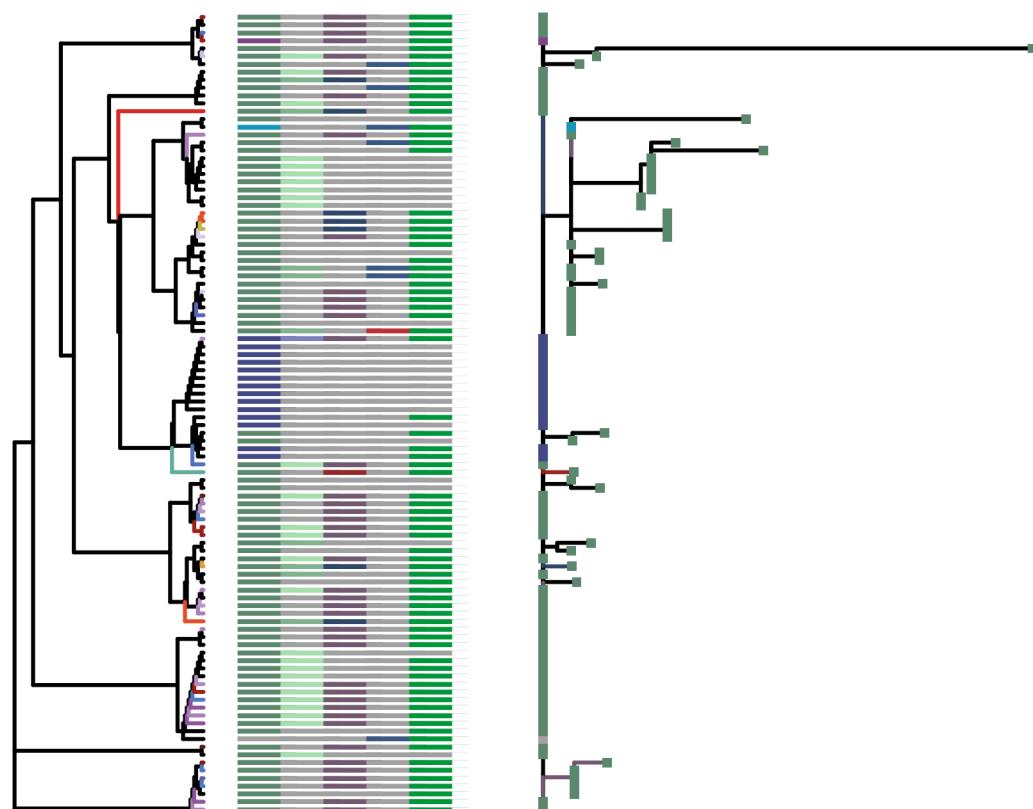


- K. pneumoniae
- Klebsiella sp.
- E. cloacae
- Citrobacter sp.
- E. coli
- Other
- K. pneumoniae ST307
- K. pneumoniae CG258
- E. cloacae ST114
- E. cloacae ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-

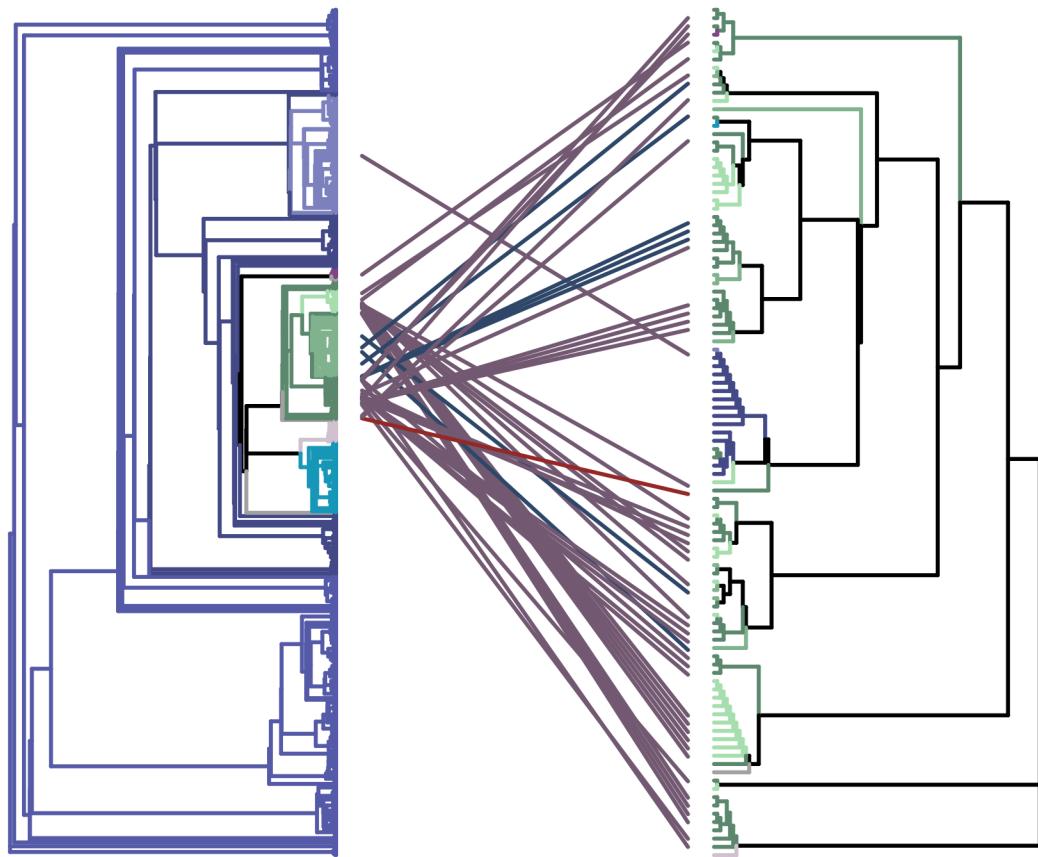


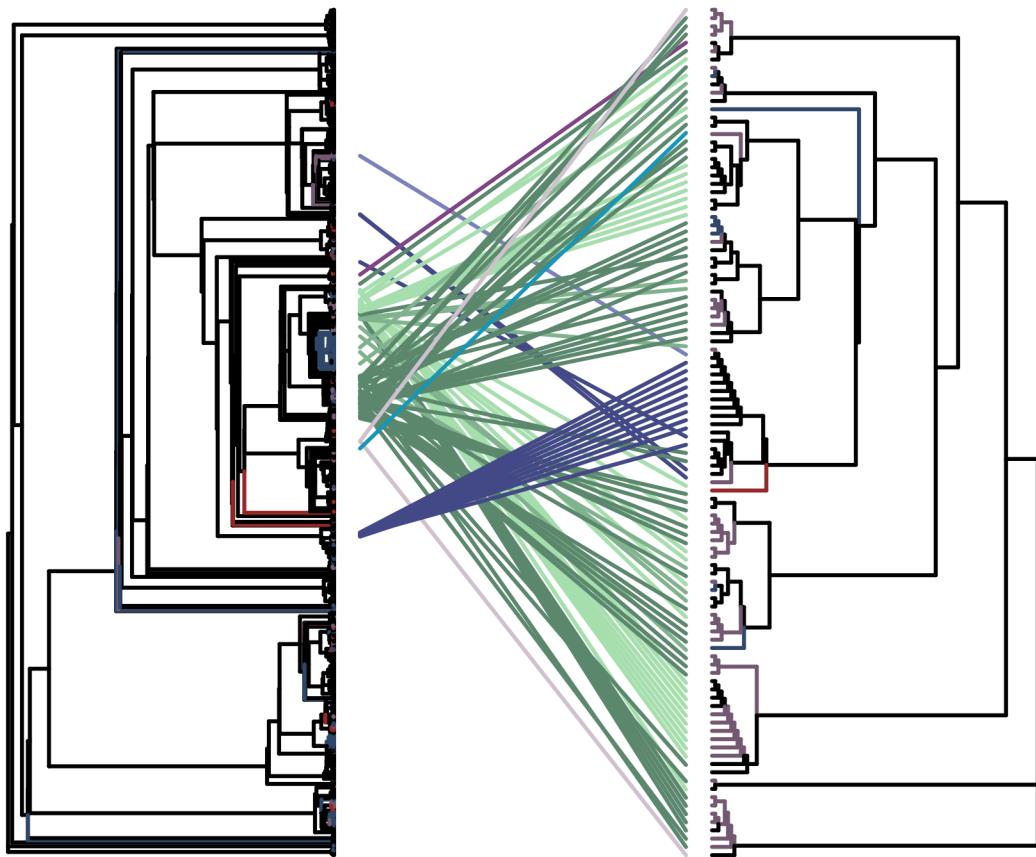


Gene cluster 61 concatenated gene tree

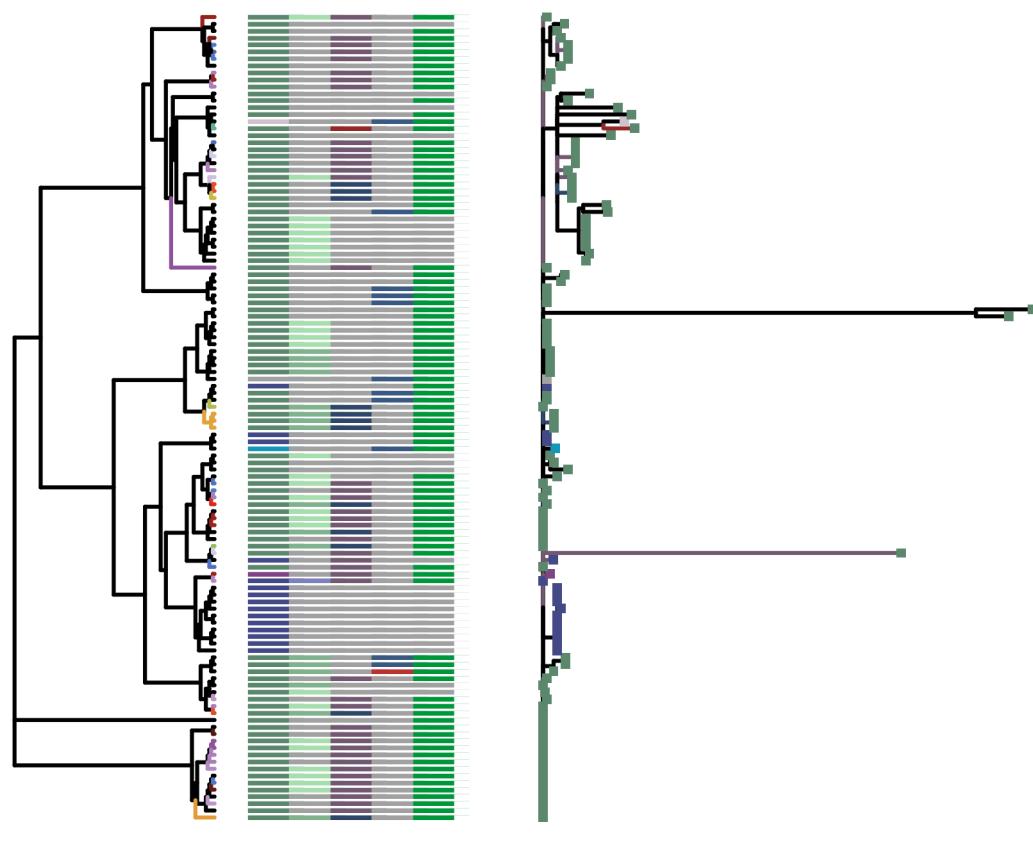


- K. pneumoniae
- Klebsiella sp.
- E. cloacae
- Citrobacter sp.
- E. coli
- Other
- K. pneumoniae ST307
- K. pneumoniae CG258
- E. cloacae ST114
- E. cloacae ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-

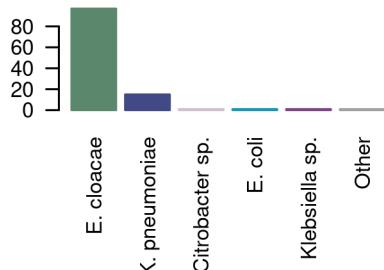




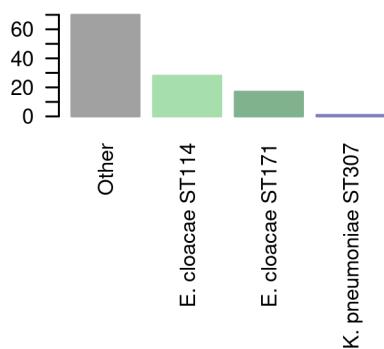
Gene cluster 62 concatenated gene tree



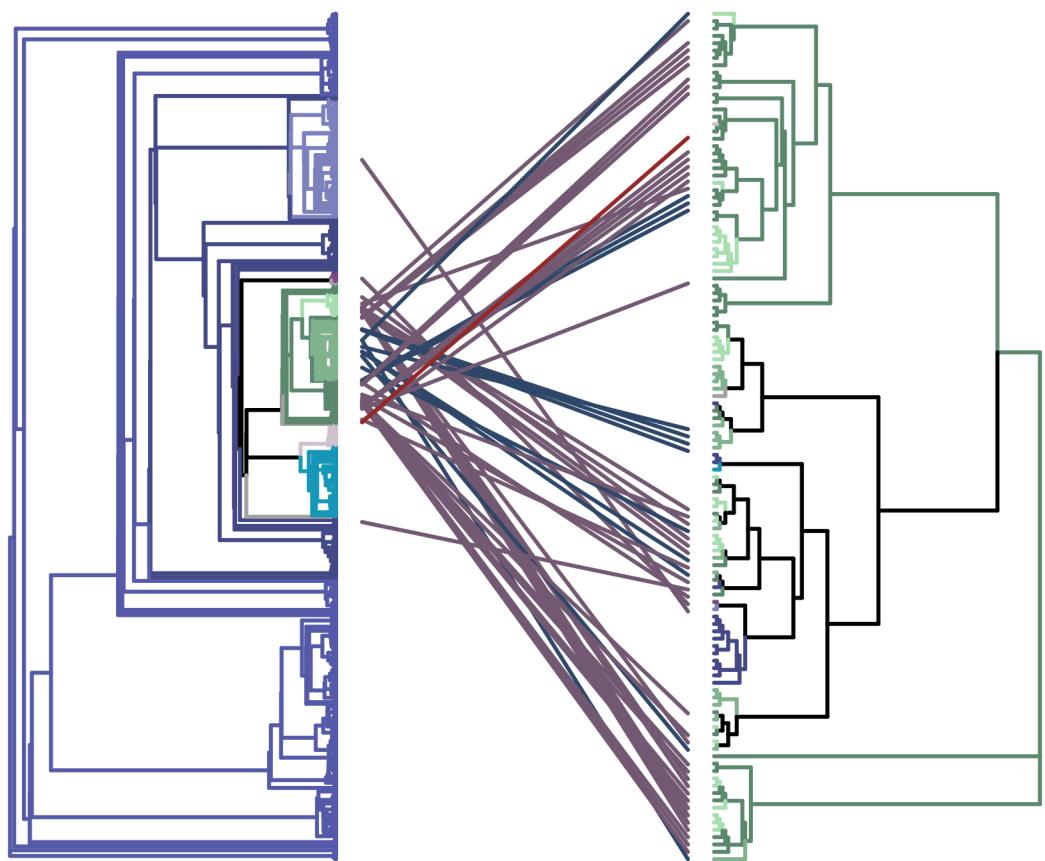
species counts

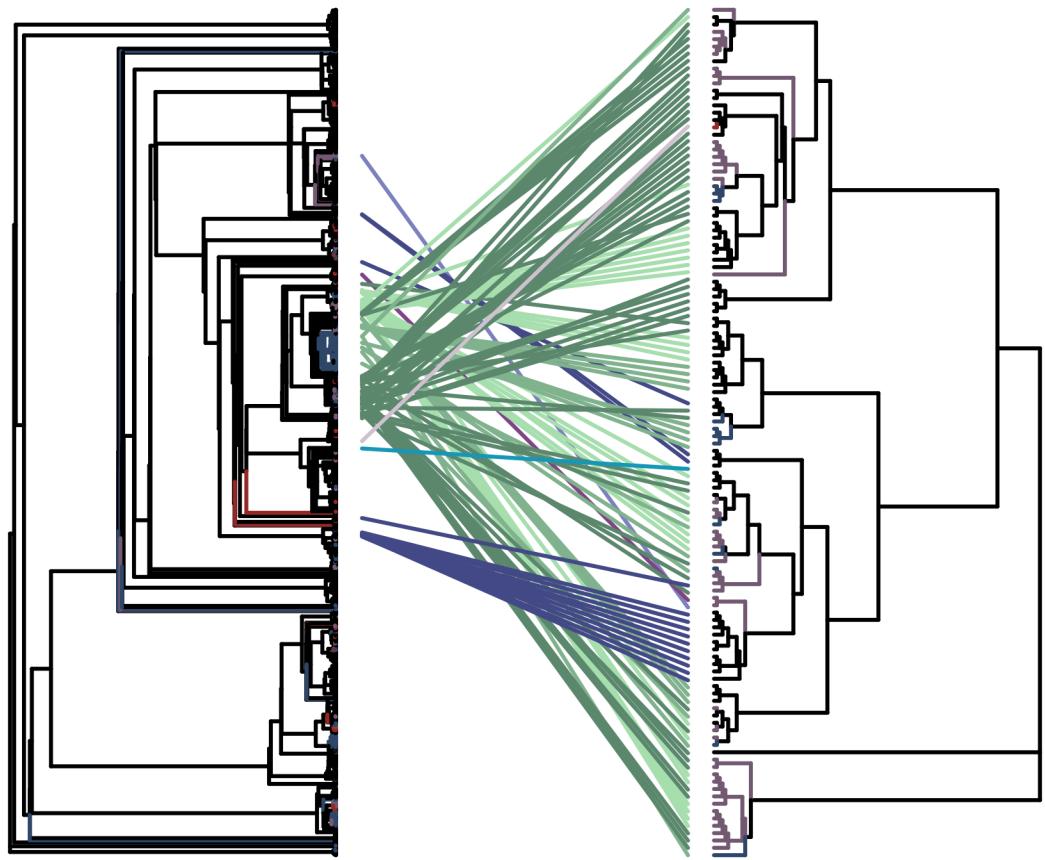


ST counts

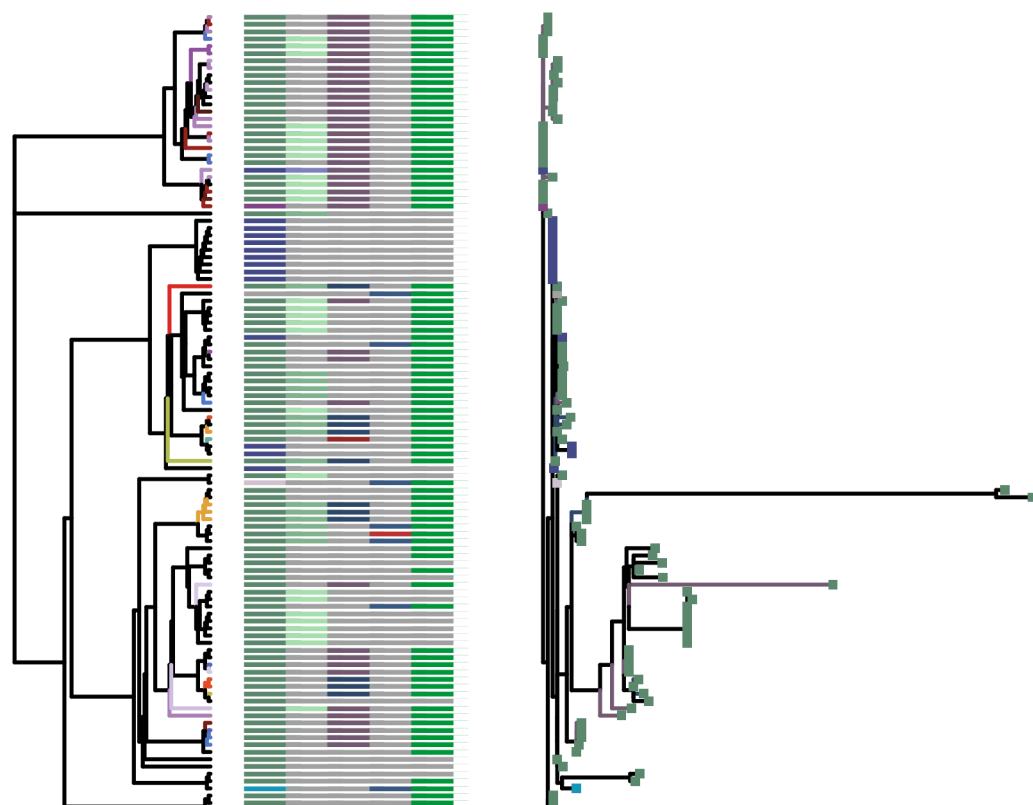


- K. pneumoniae
- Klebsiella sp.
- E. cloacae
- Citrobacter sp.
- E. coli
- Other
- K. pneumoniae ST307
- K. pneumoniae CG258
- E. cloacae ST114
- E. cloacae ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-

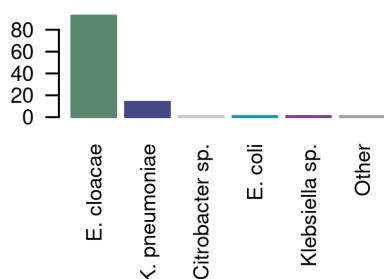




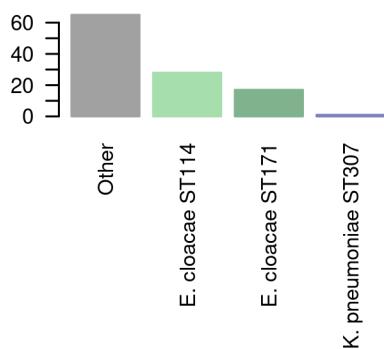
Gene cluster 63 concatenated gene tree



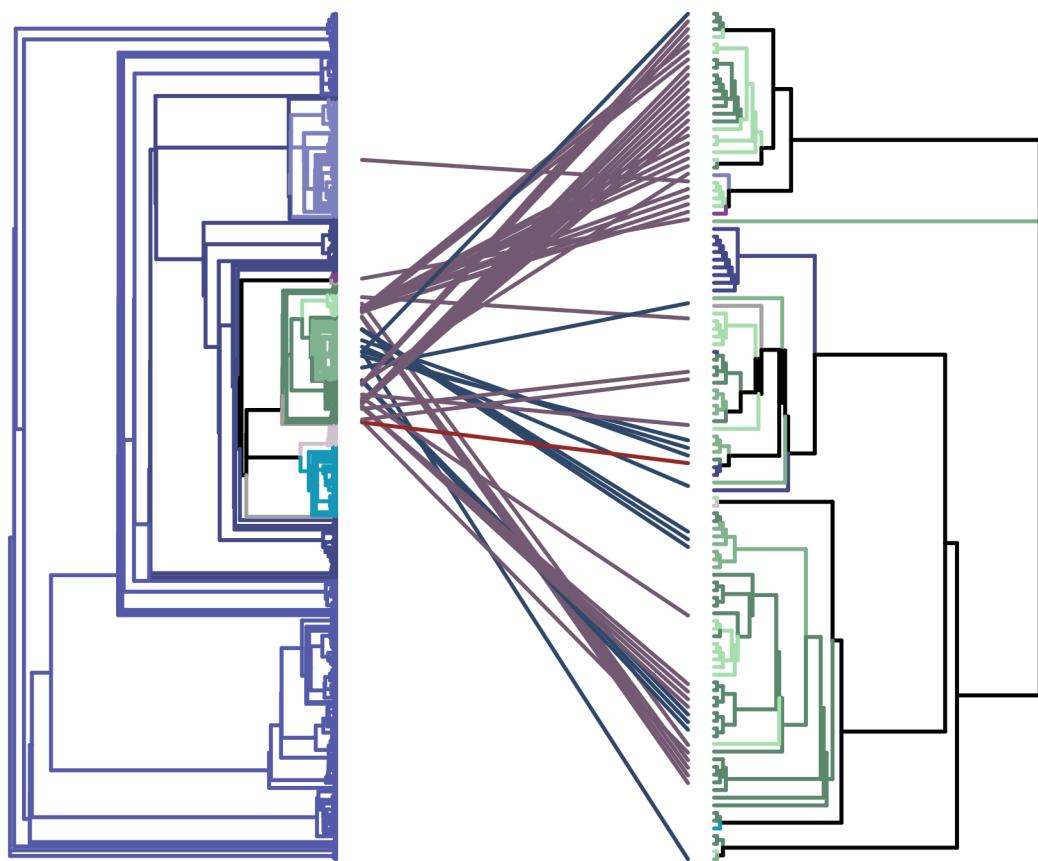
species counts

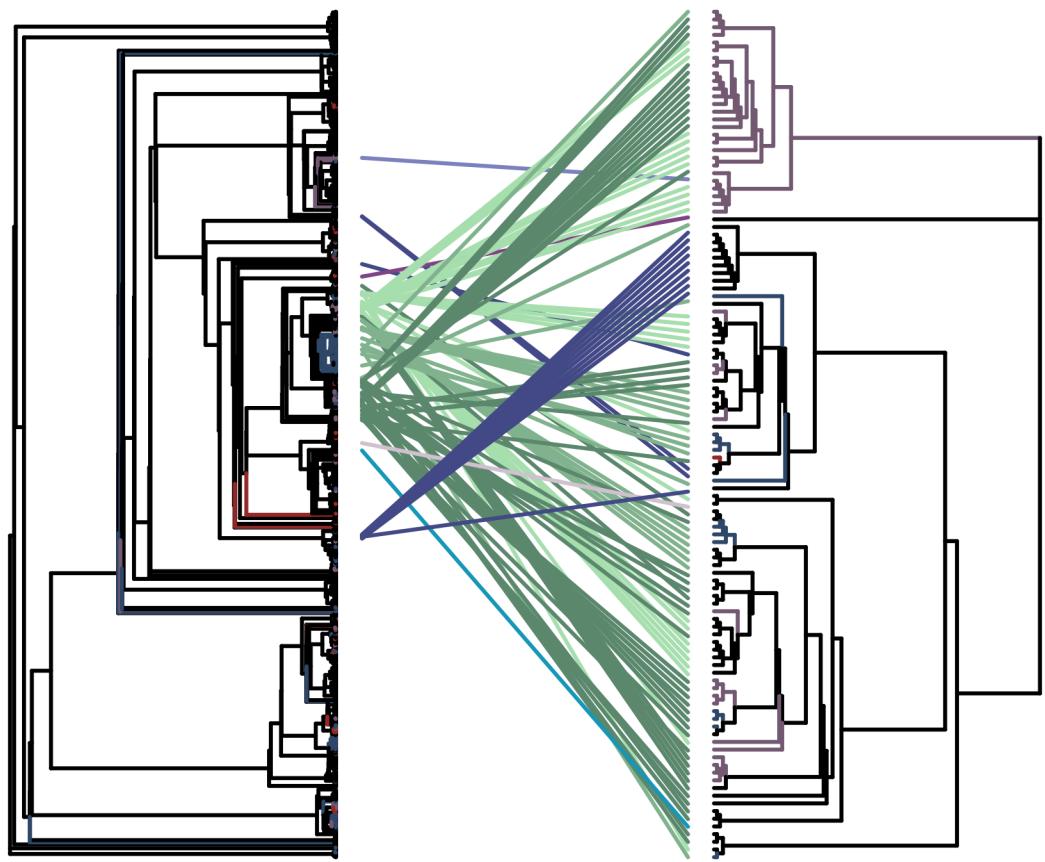


ST counts

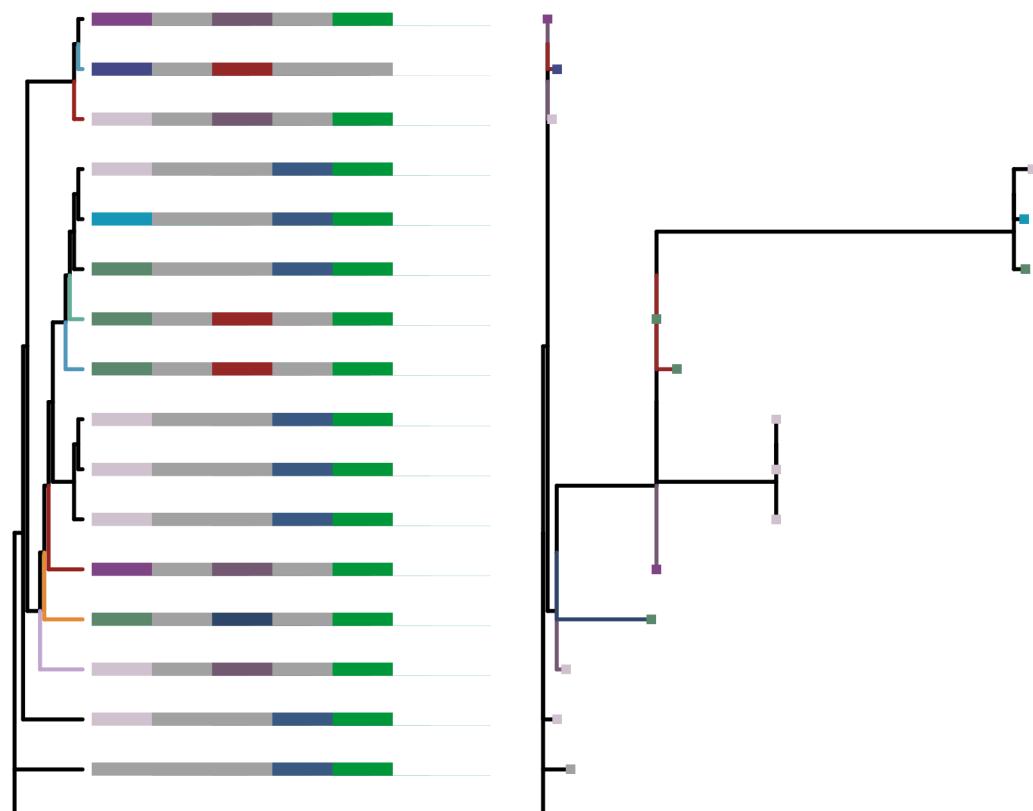


- K. pneumoniae
- Klebsiella sp.
- E. cloacae
- Citrobacter sp.
- E. coli
- Other
- K. pneumoniae ST307
- K. pneumoniae CG258
- E. cloacae ST114
- E. cloacae ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-

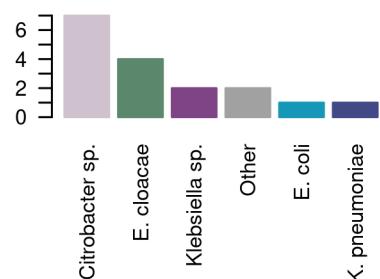




Gene cluster 64 concatenated gene tree



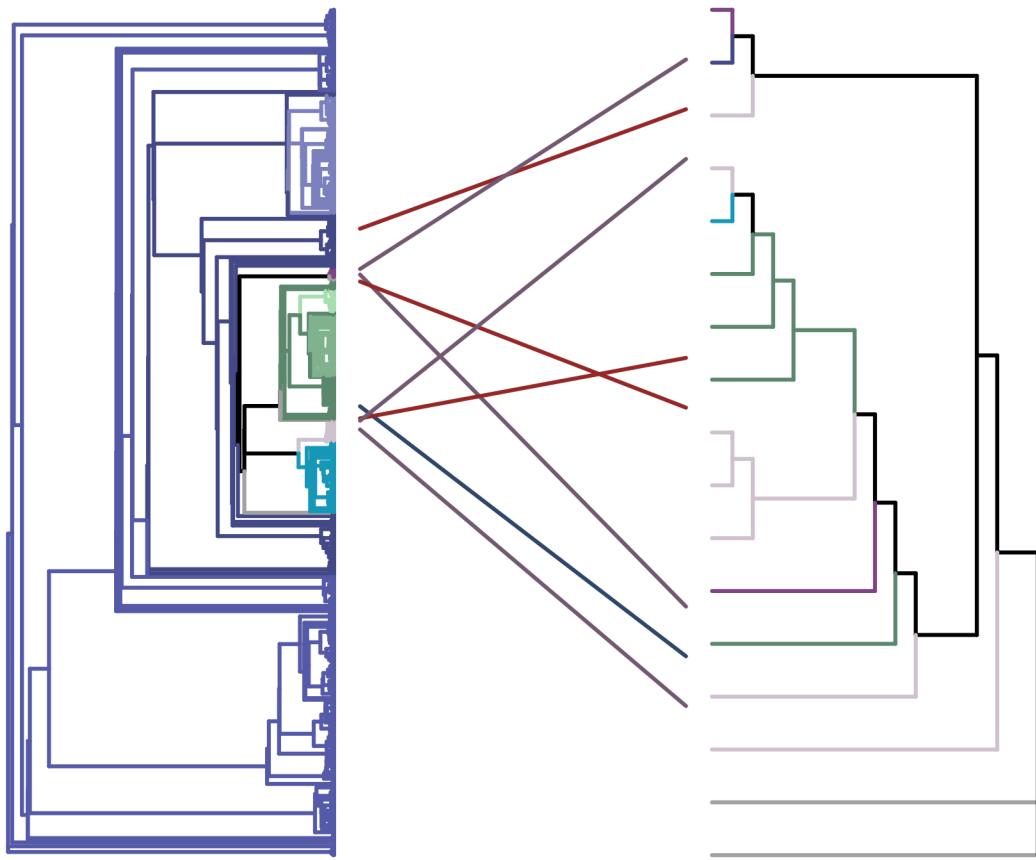
species counts

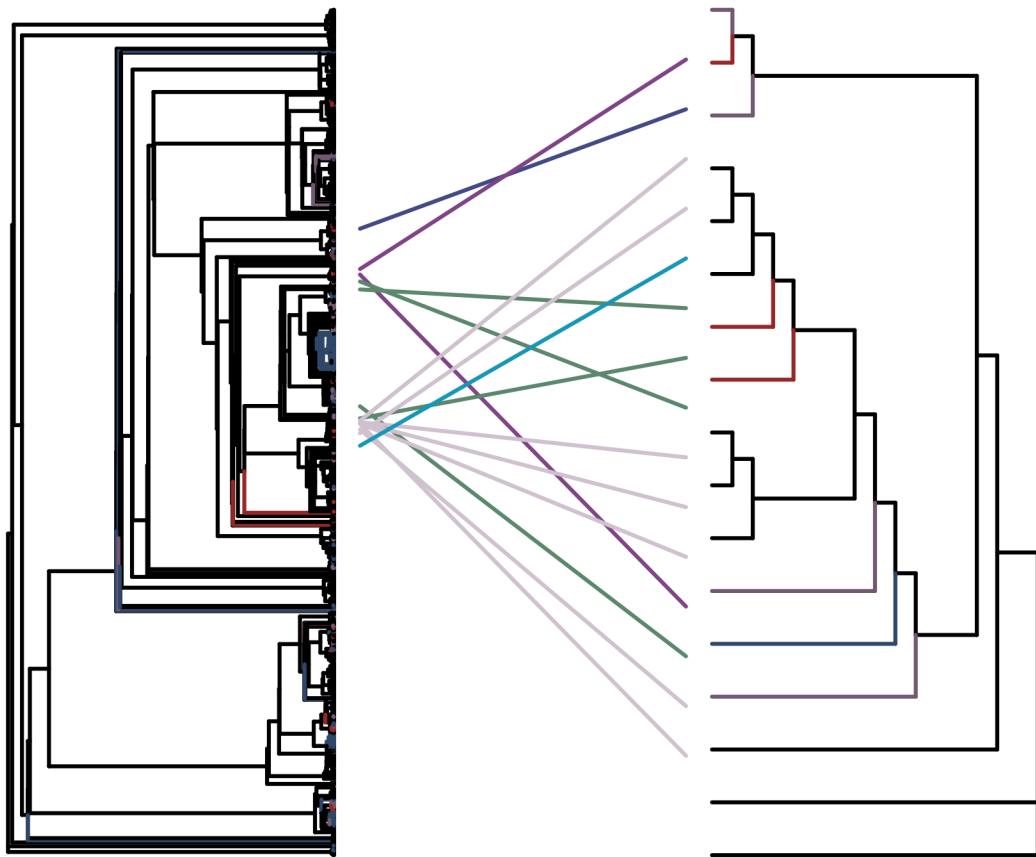


ST counts

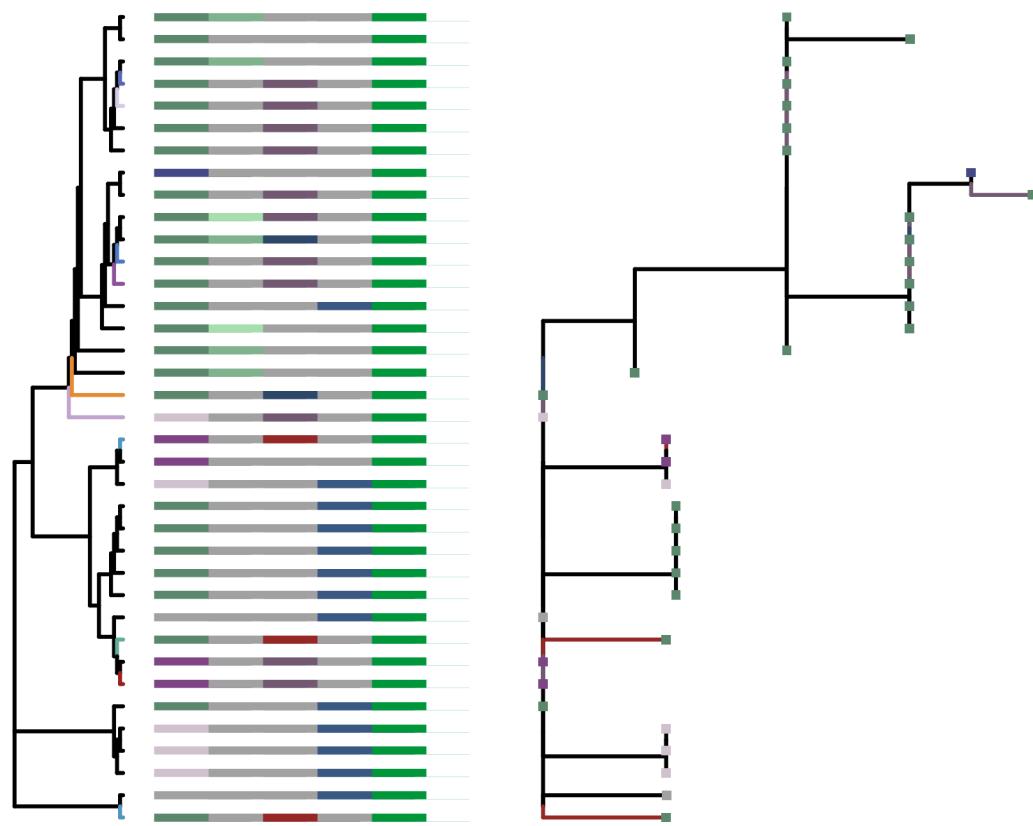


- K. pneumoniae
- Klebsiella sp.
- E. cloacae
- Citrobacter sp.
- E. coli
- Other
- K. pneumoniae ST307
- K. pneumoniae CG258
- E. cloacae ST114
- E. cloacae ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-

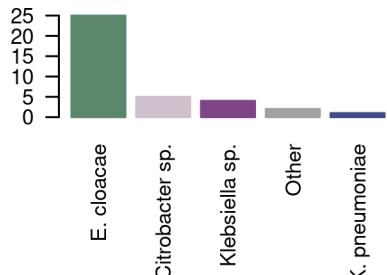




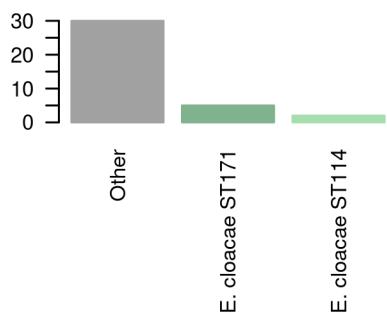
Gene cluster 65 concatenated gene tree



species counts



ST counts



- K. pneumoniae
- Klebsiella sp.
- E. cloacae
- Citrobacter sp.
- E. coli
- Other
- K. pneumoniae ST307
- K. pneumoniae CG258
- E. cloacae ST114
- E. cloacae ST171
- Other
- EIP_CT
- EIP_MN
- EIP_TN
- Other
- wgs
- complete
- long-read
- KPC+
- KPC-

