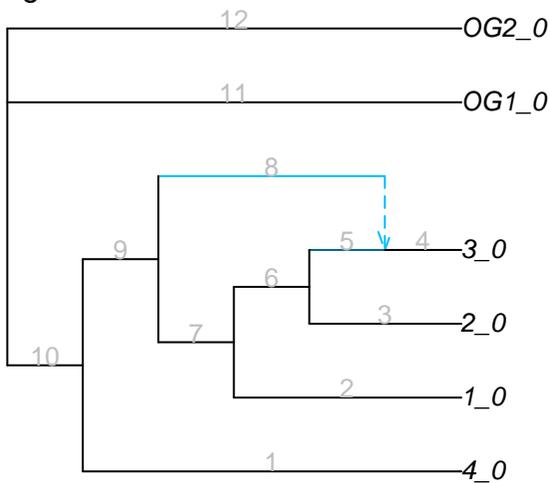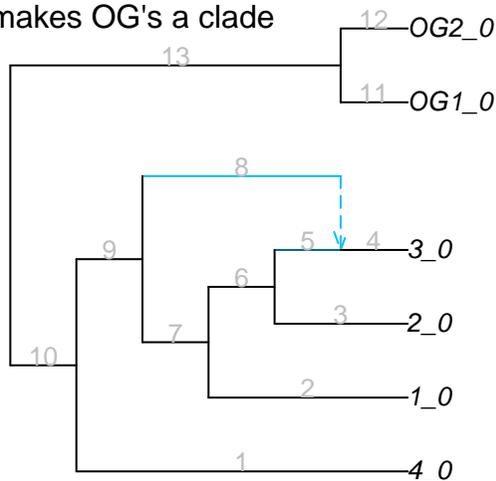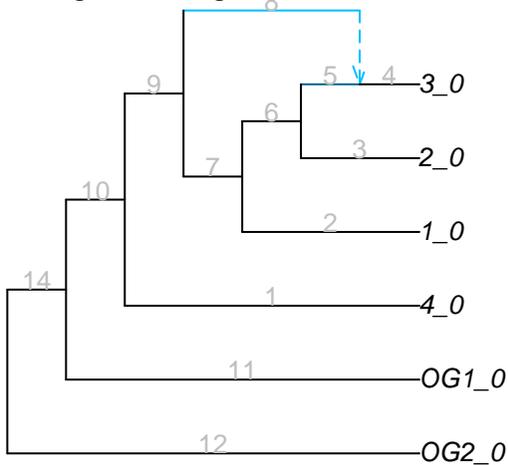original network

rooted on edge 10:
makes OG's a clade

rooted at OG2:
making OG's a 'grade'

rooted on edge 9:
bring tip 4 sister to OG's