

Figure 1 displays the 16 possible topologies for a rooted tree with 8 tips, categorized by the number of internal nodes (1 to 8) and the number of tips (4 to 8). The topologies are labeled 1 through 16, corresponding to the numbers 1 through 16 in the figure. The tips are labeled with numbers 1 through 8, and the internal nodes are labeled with letters A through G. The topologies are arranged in two rows of eight. The first row shows topologies 1 through 8, and the second row shows topologies 9 through 16. The tips are labeled with numbers 1 through 8, and the internal nodes are labeled with letters A through G. The topologies are arranged in two rows of eight. The first row shows topologies 1 through 8, and the second row shows topologies 9 through 16. The tips are labeled with numbers 1 through 8, and the internal nodes are labeled with letters A through G.