Rooted Forests That Avoid Sets of Permutations

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An unordered rooted labeled forest avoids the pattern $\pi \in S_n$ if the sequence obtained from the labels along the path from the root to any vertex does not contain a subsequence that is in the same relative order as $\pi$. We enumerate several classes of forests that avoid certain sets of permutations, including the set of unimodal forests, via bijections with set partitions with certain properties.