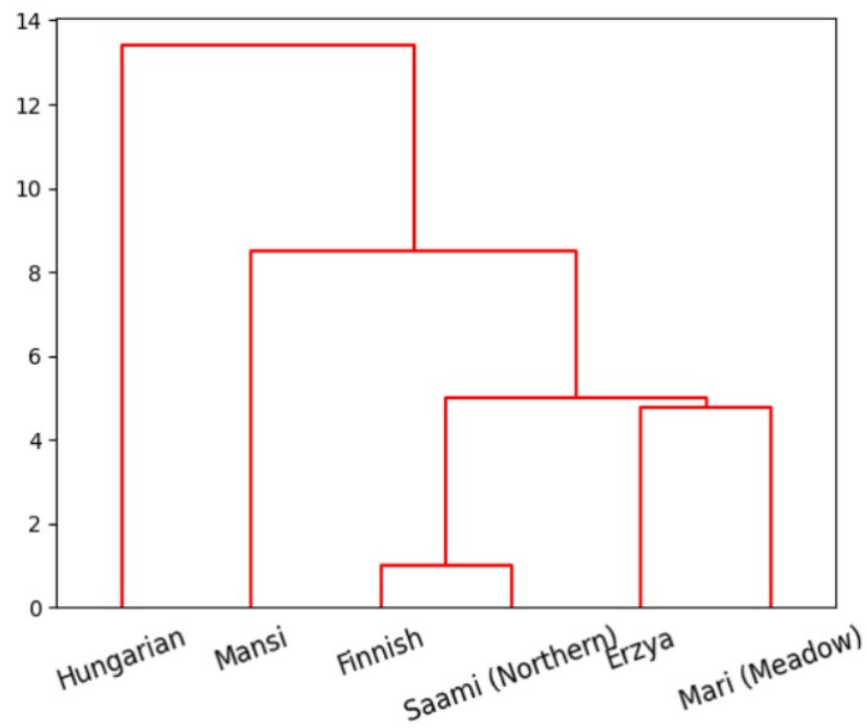


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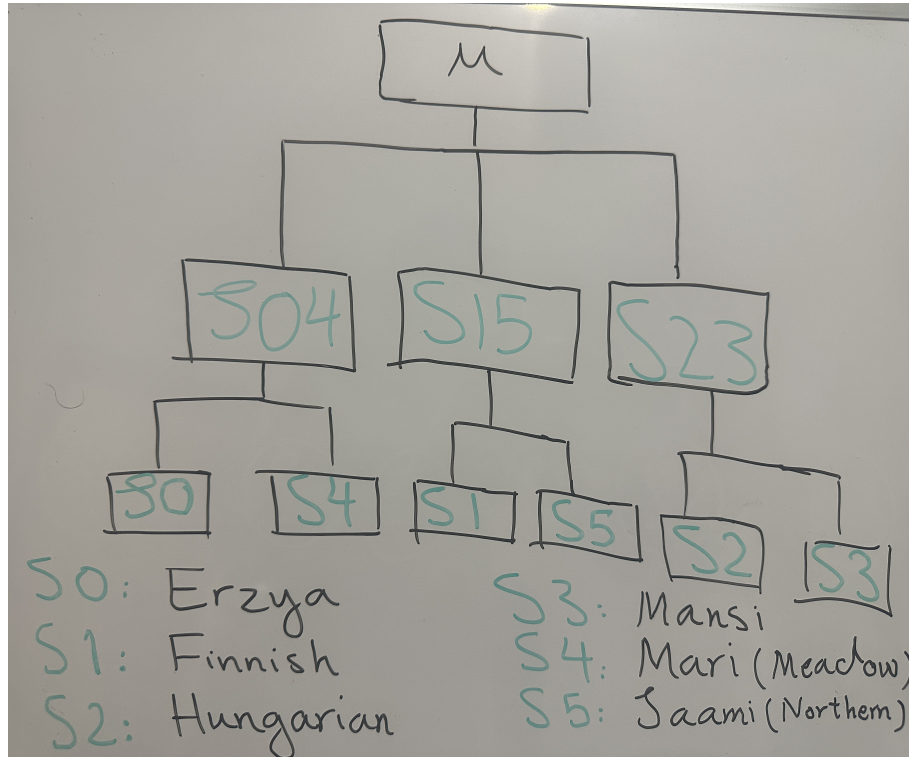
Ahmadreza Pourghodrat; Ashish Masih; Hasnat Aslam

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1 Question No 1: UPGMA tree



2 Question No 2: CMM tree



3 Question No 3: Detailed Explanation

Ans: The UPGMA provide the distance between different changes while CMM provides the information of mutation. The distance is useful matrix but it is less informative about more specifically changes and mutations. CMM is more detailed as compare to UPGMA because it is based on mutations information and better in dealing with long distance branches as compare to hamming distance (arithmetic mean) method.

4 Question No 4: Accuracy

CMM is more accurate as compare to UPGMA because it based on mutation matrix and common mutation is more reliable as compare to similarity for the evolutionary relationships and it is more detailed which explains the mutations other than common mutations.