

## Dendrogram of cgMLST analysis (based on 216 loci)

Akkermansia muciniphila extra-SRR7691165.24\_1677801325 (GCA\_949500085.1)  
Akkermansia muciniphila extra-SRR7691166.9\_1677801333 (GCA\_949497875.1)  
Akkermansia muciniphila MGBC112598 (GCA\_948631515.1)  
Akkermansia muciniphila MGBC112461 (GCA\_948591605.1)  
Akkermansia muciniphila MGBC112623 (GCA\_948659805.1)  
Akkermansia muciniphila MGBC112642 (GCA\_948748905.1)  
Akkermansia muciniphila MGBC112800 (GCA\_948762655.1)  
Akkermansia muciniphila MGBC112932 (GCA\_948830465.1)  
Akkermansia muciniphila MGBC112953 (GCA\_948855395.1)  
Akkermansia muciniphila MGBC113083 (GCA\_948902585.1)  
Akkermansia muciniphila MGBC113100 (GCA\_948955375.1)  
Akkermansia muciniphila MGBC113046 (GCA\_948972695.1)  
Akkermansia muciniphila MGBC113037 (GCA\_948999795.1)  
Akkermansia muciniphila extra-SRR7691161.46\_1677801274 (GCA\_949438745.1)  
Akkermansia muciniphila extra-SRR7691155.1\_1677801160 (GCA\_949487865.1)  
Akkermansia muciniphila extra-SRR7691154.9\_1677801152 (GCA\_949500325.1)  
Akkermansia muciniphila extra-SRR7691170.29\_1677801391 (GCA\_949521265.1)  
Akkermansia muciniphila extra-SRR7691156.35\_1677801200 (GCA\_949422985.1)  
Akkermansia muciniphila MGBC112667 (GCA\_948623265.1)  
**Akkermansia muciniphila MGBC112775 (GCA\_948616505.1)**

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