

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

Akkermansia muciniphila MGBC155903 (GCA\_948532345.1)  
Akkermansia muciniphila MGBC160004 (GCA\_948524765.1)  
Akkermansia muciniphila MGBC149963 (GCA\_948534495.1)  
Akkermansia muciniphila MGBC155976 (GCA\_948540275.1)  
Akkermansia muciniphila MGBC155005 (GCA\_948541815.1)  
Akkermansia muciniphila MGBC147832 (GCA\_948542395.1)  
Akkermansia muciniphila MGBC150999 (GCA\_948554725.1)  
Akkermansia muciniphila MGBC157853 (GCA\_948565745.1)  
Akkermansia muciniphila MGBC152925 (GCA\_948576885.1)  
Akkermansia muciniphila MGBC157813 (GCA\_948579615.1)  
Akkermansia muciniphila MGBC148018 (GCA\_948582405.1)  
Akkermansia muciniphila MGBC147871 (GCA\_948583365.1)  
Akkermansia muciniphila MGBC157004 (GCA\_948589225.1)  
Akkermansia muciniphila MGBC145888 (GCA\_948595525.1)  
Akkermansia muciniphila MGBC144083 (GCA\_948653715.1)  
Akkermansia muciniphila MGBC159249 (GCA\_948663455.1)  
Akkermansia muciniphila MGBC158042 (GCA\_948668525.1)  
Akkermansia muciniphila MGBC155079 (GCA\_948674375.1)  
Akkermansia muciniphila MGBC156381 (GCA\_948689335.1)  
Akkermansia muciniphila MGBC148111 (GCA\_948691775.1)

0.0010 0.0008 0.0006 0.0004 0.0002 0.0000