

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

Akkermansia muciniphila MGBC146963 (GCA\_948552545.1)  
Akkermansia muciniphila MGBC148993 (GCA\_948496835.1)  
Akkermansia muciniphila MGBC146852 (GCA\_948564905.1)  
Akkermansia muciniphila MGBC146051 (GCA\_948684195.1)  
Akkermansia muciniphila MGBC159192 (GCA\_948690705.1)  
Akkermansia muciniphila MGBC155165 (GCA\_948698765.1)  
Akkermansia muciniphila MGBC146098 (GCA\_948711495.1)  
Akkermansia muciniphila MGBC158136 (GCA\_948713675.1)  
Akkermansia muciniphila MGBC149048 (GCA\_948719655.1)  
Akkermansia muciniphila MGBC159053 (GCA\_948735615.1)  
Akkermansia muciniphila MGBC144008 (GCA\_948738805.1)  
Akkermansia muciniphila MGBC144032 (GCA\_948752465.1)  
Akkermansia muciniphila MGBC149120 (GCA\_948763535.1)  
Akkermansia muciniphila MGBC159423 (GCA\_948819205.1)  
Akkermansia muciniphila MGBC150408 (GCA\_948819515.1)  
Akkermansia muciniphila MGBC157362 (GCA\_948825655.1)  
Akkermansia muciniphila MGBC157465 (GCA\_948845075.1)  
Akkermansia muciniphila MGBC155598 (GCA\_948887965.1)  
Akkermansia muciniphila MGBC147556 (GCA\_948948125.1)  
Akkermansia muciniphila MGBC144396 (GCA\_949019005.1)

0.0010 0.0008 0.0006 0.0004 0.0002 0.0000