

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

Akkermansia muciniphila YL44 (GCA\_002201495.1)  
Akkermansia muciniphila YL44 (GCA\_001688765.2)  
Akkermansia muciniphila YL44 (GCA\_016697425.1)  
Akkermansia muciniphila MG2\_JASPER.fasta (GCA\_900185025.1)  
Akkermansia muciniphila MGBC143834 (GCA\_948525965.1)  
Akkermansia muciniphila MGBC142739 (GCA\_948578135.1)  
Akkermansia muciniphila MGBC143764 (GCA\_948580335.1)  
Akkermansia muciniphila MGBC142917 (GCA\_948620435.1)  
Akkermansia muciniphila MGBC143013 (GCA\_948688625.1)  
Akkermansia muciniphila MGBC111787 (GCA\_948704765.1)  
**Akkermansia muciniphila MGBC142992 (GCA\_948715725.1)**  
Akkermansia muciniphila MGBC143114 (GCA\_948765985.1)  
Akkermansia muciniphila MGBC143087 (GCA\_948772045.1)  
Akkermansia muciniphila MGBC111830 (GCA\_948791215.1)  
Akkermansia muciniphila MGBC143176 (GCA\_948810415.1)  
Akkermansia muciniphila MGBC143185 (GCA\_948827045.1)  
Akkermansia muciniphila MGBC143278 (GCA\_948865505.1)  
Akkermansia muciniphila MGBC143210 (GCA\_948869315.1)  
Akkermansia muciniphila MGBC140643 (GCA\_948992115.1)  
Akkermansia muciniphila MGBC143669 (GCA\_949037405.1)

-0.0010      -0.0005      0.0000