

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

Akkermansia muciniphila MGBC116594 (GCA\_948475005.1)  
Akkermansia muciniphila MGBC108208 (GCA\_948474195.1)  
Akkermansia muciniphila MGBC116470 (GCA\_948475665.1)  
Akkermansia muciniphila MGBC116631 (GCA\_948480205.1)  
Akkermansia muciniphila MGBC116525 (GCA\_948480465.1)  
Akkermansia muciniphila MGBC116579 (GCA\_948481595.1)  
Akkermansia muciniphila MGBC108302 (GCA\_948487095.1)  
Akkermansia muciniphila MGBC101158 (GCA\_948488095.1)  
Akkermansia muciniphila MGBC116610 (GCA\_948494635.1)  
Akkermansia muciniphila MGBC116506 (GCA\_948495385.1)  
Akkermansia muciniphila MGBC116492 (GCA\_948522645.1)  
Akkermansia muciniphila MGBC108274 (GCA\_948527435.1)  
Akkermansia muciniphila MGBC116498 (GCA\_948543845.1)  
Akkermansia muciniphila MGBC116515 (GCA\_948545865.1)  
Akkermansia muciniphila MGBC106200 (GCA\_948550865.1)  
Akkermansia muciniphila MGBC116454 (GCA\_948558575.1)  
Akkermansia muciniphila MGBC108235 (GCA\_948562165.1)  
Akkermansia muciniphila MGBC116560 (GCA\_948582145.1)  
**Akkermansia muciniphila extra-ERR982803.12\_1677760285 (GCA\_949441375.1)**  
Akkermansia muciniphila 17\_110627.36\_1677753043 (GCA\_949402615.1)

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