

A: MRO

OTU29 OTU26 OTU60 OTU69

OTU36 OTU42 OTU111 OTU77

OTU43 OTU85 OTU30 OTU37 OTU33 OTU94 OTU98 OTU89 OTU105

OTU41 OTU58 OTU62 OTU99

OTU45 OTU79 OTU18 OTU32 OTU55 OTU106

OTU60_Prevotella	Prevotella oralis
OTU42_Prevotella	Prevotella shahii
OTU111_Methanomassiliicoccus	Methanomassiliicoccus luminyensis
OTU99_Elusimicrobium	Elusimicrobium minutum
OTU79_Neisseriaceae_unclassified	Snodgrassella alvi
OTU55_Sphaerochaeta	Sphaerochaeta pleomorpha
OTU33_Bacteroidetes_unclassified	Porphyromonas pogonae
OTU94_Clostridiales_unclassified	Christensenella minuta
OTU89_Bacteroidetes_unclassified	Schleiferia thermophila

B: MRC

OTU59, OTU68, OTU38, OTU2, OTU6, OTU37, OTU73, OTU23, OTU16, OTU8, OTU97, OTU47, OTU21, OTU20, OTU63, OTU17, OTU12, OTU14, OTU19, OTU10, OTU49, OTU29, OTU78, OTU84, OTU50, OTU56, OTU25, OTU92, OTU65, OTU1, OTU27, OTU57, OTU7, OTU28, OTU40, OTU53, OTU52.

OTU2_Prevotella	Prevotella brevis
OTU6_Prevotella	Prevotella oralis
OTU16_Prevotella	Prevotella ruminicola
OTU3_Prevotella	Prevotella copri
OTU14_Prevotella	Prevotella histicola

C: MCA

This MCA plot displays the distribution of OTUs across different samples. The OTUs are grouped into several distinct clusters, each highlighted by a different color. The clusters are: a green cluster (top left) containing OTU22, OTU10, OTU3, OTU40, OTU12, OTU8, and OTU46; a purple cluster (top center) containing OTU34, OTU88, OTU67, OTU104, OTU72, OTU28, and OTU35; a cyan cluster (top right) containing OTU76, OTU38, OTU44, OTU61, OTU66, OTU51, OTU108, OTU17, and OTU25; a blue cluster (center) containing OTU54 and OTU17; a red cluster (bottom right) containing OTU15, OTU9, and OTU2; a pink cluster (bottom center) containing OTU87, OTU27, and OTU100; a light green cluster (bottom left) containing OTU83, OTU71, OTU81, OTU74, OTU23, OTU48, OTU18, OTU70, OTU80, and OTU31; and a yellow cluster (bottom right) containing OTU7, OTU64, OTU13, and OTU6. The OTUs are connected by lines, indicating their relationships within and between clusters.

OTU104_Prevotella	Prevotella ruminicola
OTU11_Fibrobacter	Fibrobacter succinogenes
OTU2_Prevotella	Prevotella brevis
OTU6_Prevotella	Prevotella oralis
OTU13_Prevotella	Prevotella brevis
OTU87_Butyrvibrio	Butyrvibrio hungatei
OTU74_Treponema	Treponema bryantii
OTU83_Bacteroidales_unclassified	Prevotellamassilia timonensis
OTU3_Prevotella	Prevotella copri
OTU15_Prevotellaceae_unclassified	Metaprevotella massiliensis
OTU31_Fibrobacter	Fibrobacter succinogenes