Supplementary Table 2. Changes in Gut Microbiome of Gout Patients before and after ULT Confirmed Using Quantitative PCR

Bacteria_Bacteriodeles_Bacteriodeles_Prevoletaliceaes_Bacteriodeles_Bacter	Taxonomy		by Absolute values	by Proportion
Bacteria : Bacteriocides : Bac		Patient	1 2 4 5 6 7 9 11 13	1 2 4 5 6 7 9 11 13
Bacteria, Eacterodeles, Bacterodeles, Bacterodeles, Bacterodes, Bacterodes	Bacteria;;;Bacteroidetes;;Bacteroidia;;Bacteroidales;;Prevotellaceae;;Prevotella;EU459805_s	EU459805_s	+ + 0 + - + +	+ + 0 + - +
Bacteria; Firmicules: Negativocules; Veillorellacea; Delister Dulister succinatiphika Dialater succinatiphika Dialater succinatiphika Dialater succinatiphika Dialater succinatiphika Dialater succinatiphika Dialaters succination Dialaters succi	Bacteria;;;Bacteroidetes;;Bacteroidia;;Bacteroidales;;Prevotellaceae;;Prevotella uc	Prevotella uc	- + + - + - + -	- + + + -
Bacteria;:Firmicutes;:Costridials;:Lachrospiraceae;:Firevolellaceae;:Prevolellaceae;:Fire	Bacteria;;;Bacteroidetes;;Bacteroidia;;Bacteroidales;;Bacteroidaceae;;Bacteroides;Bacteroides uc	Bacteroides uc	+ - + + - + - + -	+ - + + - + - + -
Bacteria;:Firmicutes;:Costridials;:Lachrospiraceae;:Firevolellaceae;:Prevolellaceae;:Fire				
Bacteria; Firmicutes; Costridiales; Lachrospiraceae; Cestrodiales; Bacterodiales; Bacterodiale	Bacteria;;;Firmicutes;;Negativicutes;;Veillonellales;;Veillonellaceae;;Dialister;Dialister succinatiphilus	Dialister succinatiphilus	+ + 0 + 0 0 0	+ + 0 + 0 0 0
Bacteria_Bacteroidates_Bacteroidates_Prevotellaceae_U_S		GL872355 s	- + 0 0 + 0 +	- + 0 0 - 0 +
Bacteria; Bacteroidaes; Bacteroidaes; Bacteroidaeseae, Bacteria; Bac		EU462041 s	+ - 0 0 0 + - + 0	+ - 0 0 0 + - + 0
Bacteria; Bacterioides; Bacterioides; Bacterioides Bacte	Bacteria;;;Bacteroidetes;;Bacteroidia;;Bacteroidales;;Prevotellaceae;;Prevotellaceae uc;Prevotellaceae uc s	Prevotellaceae uc s	- + + + +	- + + -
Bacteria; Bacterioidie: Bacterioidie: Bacterioidie: Bacterioidie: Bacterioidie: Bacterioidie: Bacterioidie: Bacterio: Firmicutes: Vellorellaeses: Vell	Bacteria;;;Bacteroidetes;;Bacteroidia;;Bacteroidales;;Bacteroidaceae;;Bacteroidaceae uc;Bacteroidaceae		+ + + + - + - + -	+ + + + - + - + -
Bacteria; Bacterioidie: Bacterioidie: Bacterioidie: Bacterioidie: Bacterioidie: Bacterioidie: Bacterioidie: Bacterio: Firmicutes: Vellorellaeses: Vell				
Bacteria; Firmicutes; Velionellaees; Velionellaee	Bacteria;;;Firmicutes;;Clostridia;;Clostridiales;;Ruminococcaceae;;AB185816 g;EF405071 s	EF405071 s	0 + - + 0 + + + 0	0 + - + 0 + + + 0
Bacteria;:Firmicutes;:Costridiales;:Lachnospiraceae;:Agathobacter up	Bacteria;;;Bacteroidetes;;Bacteroidia;;Bacteroidales;;S24-7 f;;DQ824928 g;DQ824928 s	DQ824928 s	0 0 + 0 0 0 + 0 0	0 0 - 0 0 0 + 0 0
Bacteria;; Frmicutes; Colstridiales; Lachrospiraceae; Agathobacter v. Agatho		Dialister_uc	+ + 0 + + 0 0	+ + 0 - + 0 0
Bacteria;; Firmicutes; Colstridiales; Ruminococcus g2 uc		Agathobacter_uc	0 - 0 + 0 0 + 0 0	0 - 0 + 0 0 + 0 0
Bacteria;;Firmicutes:;Clostridiales; Lachnospiraceae; Murimonas;PAC000196.s				+ + 0 + 0 0 0
Bacteria;;:Firmicutes;:Clostridia;:Clostridiales;:Lachnospiraceae;:Murimonas;PAC000196 s			0 + + - + +	+
Bacteria;:Firmicutes;:Clostridiale;:Clostridiales;:Ruminococcaeaeae;:Butyriciococus;FL510897 s				
Bacteria;;:Firmicutes;:Clostridia;:Clostridiae;;:Lentonspiraceae;:Clostridium_g24_UC_s_s_s_s_s_s_s_s_s_s_s_s_s_s_s_s_s_s_	Bacteria;;;Firmicutes;;Clostridia;;Clostridiales;;Lachnospiraceae;;Murimonas;PAC000196 s	PAC000196 s	0 - + + 0 0 0 + 0	0 - + + 0 0 0 - 0
Bacteria;;:Firmicutes;:Clostridia;:Clostridiae;;:Lentonspiraceae;:Clostridium_g24_UC_s_s_s_s_s_s_s_s_s_s_s_s_s_s_s_s_s_s_				
Bacteria;;:Firmicutes;:Destridia;:Ostridiales;:Racterioidales uc; Bacteroidales uc s			0 0 0 0 + 0 - + +	0 0 0 0 + 0 - + +
Bacteria;::Bacteroidales uc.; Bacteroidales uc.; Bacteroidales uc. s Bacteria;:Bacteroidales uc. s Bacteria;:Firmicutes;:Clostridia;:Clostridia;:Ruminococcaceae;:AB009176 g.v AB009176 g.v AB0				
Bacteria;;;Firmicutes;;Clostridiales;;Ruminococaceaea;;AB009176 g. uc AB009176 g. uc Coloratic AB009176 g. uc AB009170 s AB			+ + +	+ +
Bacteria;;;Firmicutes;;Clostridiales;;Lactohaspiraceae;Elsenbergiella;DQ905770 s Bacteria;;Firmicutes;;Clostridiales;Lactohaspiraceae;Elsenbergiella;DQ905770 s Bacteria;;Firmicutes;;Bacteroidiales;Clostridi			0 0 0 0 0 + 0 0 0	0 0 0 0 0 + 0 0 0
Bacteria;;; Firmicutes;; Clostridia;; Clostridiaes;; Lachnospiraceae;; Elsenbergiella; DQ905770_s			- 0 + + 0 + - 0 0	- 0 + + 0 + - 0 0
Bacteria;; Bacteroidia; Bacteroidiae;; Dacteroidiae;; Leuconostocaceae uc. Leuconostocaceae uc. S. D. O.		DQ905770 s	0 + + + 0 + + 0 0	0 + + + 0 + + 0 0
Bacteria;;;Firmicutes;;Bacilli;;Lactobacillales;;Lachnospiraceae;;Bautia;FJ880520 s FJ880520		Butyricimonas virosa	0 - + + 0 0 + + 0	0 - + + 0 0 + + 0
Bacteria;;;Firmicutes;;Clostridia];;Lactobacillales;;Lactonostocaceae_uc_s	Bacteria;;;Firmicutes;;Clostridia;;Clostridiales;;Christensenellaceae;;Christensenella;Christensenella uc	Christensenella uc	+ 0 + - 0 + - 0 0	+ 0 + - 0 + - 0 0
Bacteria;;;Firmicutes;;Clostridia]es;;Lacthospiraceae;;Agathobacter;FJ680757 s FJ680757 s	Bacteria;;;Firmicutes;;Bacilli;;Lactobacillales;;Leuconostocaceae;;Leuconostocaceae uc;Leuconostocaceae uc s	Leuconostocaceae uc s	0 0 0 + 0 + +	0 0 0 + 0 + +
Bacteria;;;Firmicutes;;Clostridia]es;;Lactobacillaceae;;Lactobacillus g12;HQ770262 s HQ770262 s Lactobacillaceae;;Lactobacillaceae;;Lactobacillus casei group Lactobacillus casei group H	Bacteria;;;Firmicutes;;Clostridia;;Clostridiales;;Lachnospiraceae;;Blautia;FJ880520 s	FJ880520 s	0 + 0 0 + 0 0 + 0	0 + 0 0 - 0 0 - 0
Bacteria;;;Firmicutes;;Bacilli;;Lactobacillaes;;Lactobacillus,Lactobacillus casei group		FJ680757 s	0 - 0 0 0 0 + 0 0	0 - 0 0 0 0 + 0 0
Bacteria;;;Firmicutes;;Bacilli;;Lactobacillaes;;Lactobacillus;Lactobac	Bacteria;;;Firmicutes;;Clostridia;;Clostridiales;;Lachnospiraceae;;Clostridium g12;HQ770262 s	HQ770262 s	0 - 0 0 0 0 0 + 0	0 - 0 0 0 0 0 + 0
Bacteria;;;Firmicutes;;Clostridiales;;Lachnospiraceae;;JPZU_g_UC JPZU_g_UC		Lactobacillus casei group	+ + 0 0 0 0 + + +	+ + 0 0 0 0 + + +
Bacteria;;;Proteobacteria;;Betaproteobacteria;;Burkholderiales;;Burkholderiacea;;Paraburkholderia;Paraburkho	Bacteria;;;Firmicutes;;Negativicutes;;Selenomonadales;;Selenomonadaceae;;Mitsuokella;Mitsuokella jalaludinii	Mitsuokella jalaludinii	+ - 0 0 0 0 0 0	0 0 0 0 0 0 0
Bacteria;;;Firmicutes;;Clostridiai;;Clostridiales;;Lachnospiraceae;;Coprococcus g2;EU776475 s EU776475 s	Bacteria;;;Firmicutes;;Clostridia;;Clostridiales;;Lachnospiraceae;;JPZU g;JPZU g uc	JPZU g uc	0 0 0 0 0 0 - + 0	0 0 0 0 0 0 - + 0
Bacteria;;;;Proteobacteria;;Alphaproteobacteria;;Alctinobacteria;;Alctinobacteria;;Alctinobacteria;;Alctinobacteria;;Alctinobacteria;;Alctinobacteria;;Alctinobacteria;;Clostridiales;;Bacteroidales;;Alctinomyces;Actinomyces		Paraburkholderia kururiensis	0 0 - 0 0 0 0 + +	0 0 - 0 0 0 0 + +
Bacteria;;;Proteobacteria;;Alphaproteobacteria;;Rhizobialeas;;Bradyrhizobiaceae;;Bradyrhizobiaceae;ucs Bradyrhizobiaceae ucs Bradyrhizobiaceae u	Bacteria;;;Firmicutes;;Clostridia;;Clostridiales;;Lachnospiraceae;;Coprococcus g2;EU776475 s	EU776475 s	0 - 0 + - 0 - + 0	0 - 0 + - 0 - + 0
Bacteria;;;Proteobacteria;;Alphaproteobacteria;;Rhizobialeas;;Bradyrhizobiaceae;;Bradyrhizobiaceae;ucs Bradyrhizobiaceae ucs Bradyrhizobiaceae u	Bacteria;;;Bacteroidetes;;Bacteroidia;;Bacteroidales;;Bacteroidaceae;;Bacteroides;HQ816544 s	HQ816544 s	0 0 0 0 0 0 0 0	
Bacteria;;;Firmicutes;;Clostridia;;Clostridiales;;Eubacteriaceae;;Anaerofustis uc - 0 - 0 0 + 0 0 0 - 0 0 - 0 0 0 0	Bacteria;;;Proteobacteria;;Alphaproteobacteria;;Rhizobiales;;Bradyrhizobiaceae;;Bradyrhizobiaceae uc;Bradyrhizobiaceae uc s	Bradyrhizobiaceae uc s	0 + 0 -	0 + 0 -
Bacteria;;;Proteobacteria;;Alphaproteobacteria;;Rhodospirillaceae_uc_s Rhodospirillaceae_uc_s + 0 - 0 0 0 - 0 - 0 - 0 0 0 0 - 0 - 0	Bacteria;;;Actinobacteria;;Actinobacteria c;;Actinomycetales;;Actinomycetaceae;;Actinomyces;Actinomyces viscosus group	Actinomyces viscosus group	+ 0 0 0 0 0 0 + 0	+ 0 0 0 0 0 0 - 0
Bacteria;;;Proteobacteria;;Alphaproteobacteria;;Alphaproteobacteria;;Proteobacteria;;Alphaproteobacteria;;Bradyrhizobium_uc Bradyrhizobium_uc - 0 0 - 0 0 - 0 0 - 0 0 - 0 0 - 0 0 - 0 0 - 0 0 - 0 0 - 0 0 - 0 0 - 0 0 - 0 0 - 0 0 - 0 0 - 0 0 - 0 0 - 0 0 - 0 0 0 - 0 0 0 - 0 0 0 - 0 0 0 - 0 0 0 - 0 0 0 - 0 0 0 - 0 0 0 - 0 0 0 - 0 0 0 - 0 0 0 0 - 0 0 0 0 - 0 0 0 0 - 0 0 0 0 - 0			- 0 - 0 0 + 0 0 0	
Bacteria;;;Proteobacteria;;Alphaproteobacteria;;Alphaproteobacteria;;Alphaproteobacteria;;Alphaproteobacteria;;Alphaproteobacteria;;Alphaproteobacteria;;Bradyrhizobium_uc	Bacteria;;;Proteobacteria;;Alphaproteobacteria;;Rhodospirillales;;Rhodospirillaceae_uc;Rhodospirillaceae uc s	Rhodospirillaceae_uc_s	+ 0 - 0 0 0 - 0 -	+ 0 - 0 0 0 - 0 -
Bacteria;;;Proteobacteria;;Betaproteobacteria;;Burkholderiales;;Ralstonia_f;;Ralstonia_f;;Ralstonia_f;			- 0 0 - 0 0 - 0 -	- 0 0 - 0 0 - 0 -
			+ 0 - 0 0 - 0 0	+ 0 - + 0 - 0 0 0
	Bacteria;;;Proteobacteria;;Betaproteobacteria;;Burkholderiales_uc_g;Burkholderiales_uc_g;Burkholderiales_uc_s	Burkholderiales_uc_s	- 0 0 0 + + + 0 -	- 0 0 0 + - + 0 -
Bacteria;;;Firmicutes;;Clostridiai;Clostridiales;;Natronincola f uc;Natronincola f u		Natronincola_f_uc_s	0 0 0 0 + + 0 + +	
Bacteria;;;Planctomycetias;;Planctomycet				

ULT, uric acid-lowering therapy; PCR, polymerase chain reaction.

0, no detection before/after ULT; +, more detection after ULT; -, less detection after ULT. Consistent "+" results (0 is ignored) is marked in green, and "-" is marked in scarlet. The proportion of Bradyrhizobium_uc was significantly higher in acute gout patients who recently experienced an acute gout attack and were never subjected to ULT and the proprotion consistently decreased after ULT.