Gut Microbiota Clinical Association Summary*

COMMENSAL BACTERIA	IBS	INFLAMMATION	IMMUNE MODULATION	METABOLIC DISORDERS	AUTISM	DIVERSITY ASSOCIATION
Bacteroidetes Phylum						
Bacteroides-Prevotella Group	↓	↓↑	↓	↓↑		LD
B. vulgatus	↓		↓↑	↓	↑	LD
Barnesiella spp.			↓			
Odoribacter spp.		↓				
Prevotella spp.		↑	↑	↑	↓	LD
Firmicutes Phylum						
Anaerotruncus colihominis				↓		HD
Butyrivibrio crossotus				↓		HD
Clostridium spp.		↓↑			↑	LD
Coprococcus eutactus	↓				↓	HD
Faecalibacterium prausnitzii		↓↑		↓		HD
Lactobacillus spp.	↓↑			↑		HD
Pseudoflavonifractor spp.						HD
Roseburia spp.	↓	↓	↓	↓		HD
Ruminococcus spp.	↓↑	↑			↑	LD
Veillonella spp.	↓↑				↓	HD
Actinobacteria Phylum						
Bifidobacterium spp.	↓	↓	↓	↓↑	↓	HD
B. longum				↑		HD
Collinsella aerofaciens	↓	↑		↑		
Proteobacteria Phylum						
Desulfovibrio piger	↑	↑		↓	↑	
Escherichia coli	↑	↑		↓↑		
Oxalobacter formigenes				↓		
Euryarchaeota Phylum						
Methanobrevibacter smithii	↓↑	↓↑		↓↑		HD
Fusobacteria Phylum						
Fusobacterium spp.		↑	↑	↑		
Verrucomicrobia Phylum						
Akkermansia muciniphila		↓		↓	↓	HD

**** The literature-based clinical associations in this chart are not intended to indicate diagnostic patterns.***

Key

↓ = *Low*

↑ = *High*

LD = Robust levels of this organism associated with Low Diversity of gut bacteria

HD = Robust levels of this organism associated with High Diversity of gut bacteria

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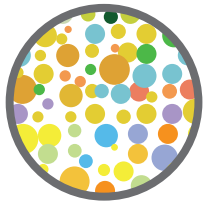

IBS

Bacteroidetes Phylum	
Bacteroides-Prevotella Group	L
B. vulgatus	L
Firmicutes Phylum	
Coprococcus eutactus	L
Lactobacillus spp.	L/H
Roseburia spp.	L
Ruminococcus spp.	L/H
Veillonella spp.	L/H
Actinobacteria Phylum	
Bifidobacterium spp.	L
Collinsella aerofaciens	L
Proteobacteria Phylum	
Desulfovibrio piger	H
Escherichia coli	H
Euryarchaeota Phylum	
Methanobrevibacter smithii	L/H

Inflammation

Bacteroidetes Phylum	
Bacteroides-Prevotella Group	L/H
Odoribacter spp.	L
Prevotella spp.	H
Firmicutes Phylum	
Clostridium spp.	L/H
Faecalibacterium prausnitzii	L/H
Roseburia spp.	L
Ruminococcus spp.	H
Actinobacteria Phylum	
Bifidobacterium spp.	L
Collinsella aerofaciens	H
Proteobacteria Phylum	
Desulfovibrio piger	H
Escherichia coli	H
Euryarchaeota Phylum	
Methanobrevibacter smithii	L/H
Fusobacteria Phylum	
Fusobacterium spp.	H
Verrucomicrobia Phylum	
Akkermansia muciniphila	L

Immune Modulation

Bacteroidetes Phylum	
Bacteroides-Prevotella Group	L
B. vulgatus	L/H
Barnesiella spp.	L
Prevotella spp.	H
Firmicutes Phylum	
Roseburia spp.	L
Actinobacteria Phylum	
Bifidobacterium spp.	L
Fusobacteria Phylum	
Fusobacterium spp.	H

Metabolic Disorders

Bacteroidetes Phylum	
Bacteroides-Prevotella Group	L/H
B. vulgatus	L
Prevotella spp.	H
Firmicutes Phylum	
Anaerotruncus colihominis	L
Butyrivibrio crossotus	L
Faecalibacterium prausnitzii	L
Lactobacillus spp.	H
Roseburia spp.	L
Actinobacteria Phylum	
Bifidobacterium spp.	L/H
B. longum	H
Collinsella aerofaciens	H
Proteobacteria Phylum	
Desulfovibrio piger	L
Escherichia coli	L/H
Oxalobacter formigenes	L
Euryarchaeota Phylum	
Methanobrevibacter smithii	L/H
Fusobacteria Phylum	
Fusobacterium spp.	H
Verrucomicrobia Phylum	
Akkermansia muciniphila	L

Autism

Bacteroidetes Phylum	
B. vulgatus	H
Prevotella spp.	L
Firmicutes Phylum	
Clostridium spp.	H
Coprococcus eutactus	L
Ruminococcus spp.	H
Veillonella spp.	L
Actinobacteria Phylum	
Bifidobacterium spp.	L
Proteobacteria Phylum	
Desulfovibrio piger	H
Verrucomicrobia Phylum	
Akkermansia muciniphila	L

Diversity Association

Bacteroidetes Phylum	
Bacteroides-Prevotella Group	LD
B. vulgatus	LD
Prevotella spp.	LD
Firmicutes Phylum	
Anaerotruncus colihominis	HD
Butyrivibrio crossotus	HD
Clostridium spp.	LD
Coprococcus eutactus	HD
Faecalibacterium prausnitzii	HD
Lactobacillus spp.	HD
Pseudoflavonifractor spp.	HD
Roseburia spp.	HD
Ruminococcus spp.	LD
Veillonella spp.	HD
Actinobacteria Phylum	
Bifidobacterium spp.	HD
B. longum	HD
Euryarchaeota Phylum	
Methanobrevibacter smithii	HD
Verrucomicrobia Phylum	
Akkermansia muciniphila	HD

Key

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