

## Microbiome Information for: Crohn's Disease

### For non-prescribing Medical professionals Review

The suggestions below are based on an Expert System (Artificial Intelligence) modelled after the MYCIN Expert System produced at Stanford University School of Medicine in 1972. The system uses over 1,800,000 facts with backward chaining to sources of information. The typical sources are studies published on the US National Library of Medicine.

Many recent studies has found that symptoms and symptom severity has strong associations to the microbiome for many conditions. Correcting the microbiome dysfunction is beleived to reduce the severity of symptoms. In some cases, this correction may cause symptoms to disappear.

These are *a priori suggestions* that are predicted to independently reduce microbiome dysfunction. Suggestions should *only be done after a review* by a medical professional factoring in patient's conditions, allergies and other issues.

**This report may be freely shared by a patient to their medical professionals**

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Best practise for making microbiome adjustments is to obtain the individuals microbiome. The following are the best microbiome to use with this expert system model. The suggestions below are intended as temporary suggestions until a test result in received.

In the USA

Ombre (<https://www.ombrelab.com/>)

Thome (<https://www.thome.com/products/dp/gut-health-test>)

Worldwide: BiomeSight (<https://biomesight.com>) - Discount Code 'MICRO'

### Analysis Provided by Microbiome Prescription

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## Bacteria being reported because of atypical values.

These bacteria were reported atypical in studies of Crohn's Disease

*Nota Bena:* Many studies are done with a small sample size or mixtures of condition subsets which can greatly diminish the ability to detect bacteria shifts.

Bacteria Name	Rank	Shift	Taxonomy ID	Bacteria Name	Rank	Shift	Taxonomy ID
Clostridia	class	Low	186801	Mycobacterium	genus	High	1763
Halobacteria	class	High	183963	Mycoplasma	genus	High	2093
Sordariomycetes	class	Low	147550	Olsenella	genus	Low	133925
Thermoplasmata	class	High	183967	Paenibacillus	genus	Low	44249
Thermoprotei	class	High	183924	Papillibacter	genus	High	100175
Aerococcaceae	family	High	186827	Parasutterella	genus	Low	577310
Bifidobacteriaceae	family	Low	31953	Parvimonas	genus	High	543311
Enterobacteriaceae	family	High	543	Penicillium	genus	Low	5073
Lachnospiraceae	family	Low	186803	Peptostreptococcus	genus	High	1257
Prevotellaceae	family	High	171552	Phascolarctobacterium	genus	Low	33024
Ruminococcaceae	family	Low	541000	Picrophilus	genus	High	46631
Abiotrophia	genus	Low	46123	Polynucleobacter	genus	High	44013
Acetobacter	genus	Low	434	Porphyromonas	genus	Low	836
Acidaminococcus	genus	Low	904	Prevotella	genus	Low	838
Acinetobacter	genus	High	469	Proteus	genus	High	583
Actinobacillus	genus	High	713	Proteus	genus	High	210425
Actinomyces	genus	High	1654	Romboutsia	genus	Low	1501226
Adlercreutzia	genus	High	447020	Roseburia	genus	Low	841
Alistipes	genus	High	239759	Ruminococcus	genus	Low	1263
Anaerofustis	genus	Low	264995	Saccharomyces	genus	High	4930
Anaerostipes	genus	Low	207244	Salmonella	genus	High	590
Anaerotruncus	genus	High	244127	Sellimonas	genus	High	1769710
Aspergillus	genus	Low	5052	Shigella	genus	High	620
Atopobium	genus	High	1380	Slackia	genus	Low	84108
Bacteroides	genus	Low	816	Solobacterium	genus	High	123375
Barnesiella	genus	High	397864	Staphylococcus	genus	High	1279
Bilophila	genus	High	35832	Streptococcus	genus	High	1301
Blautia	genus	Low	572511	Succinatimonas	genus	High	674963
Burkholderia	genus	High	32008	Sutterella	genus	Low	40544
Butyrivibrio	genus	Low	830	Thermoanaerobacter	genus	High	1754
Candida	genus	High	1535326	Treponema	genus	Low	157
Candidatus Soleaferrea	genus	High	1470353	Turidibacter	genus	Low	191303
Catenibacterium	genus	Low	135858	Tyzzereella	genus	High	1506577
Cedrovirus	genus	Low	186532	Veillonella	genus	High	29465
Cetobacterium	genus	High	180162	Vibrio	genus	High	662
Clonostachys	genus	High	110564	Bacteroidales	order	High	171549
Clostridium	genus	High	1485	Enterobacterales	order	High	91347
Colidextribacter	genus	Low	1980681	Eubacterales	order	Low	186802
Collinsella	genus	Low	102106	Lactobacillales	order	High	186826
Coprococcus	genus	Low	33042	Verrucomicrobiales	order	High	48461
				[Clostridium] leptum	species	Low	1535

Bacteria Name	Rank	Shift	Taxonomy ID	Bacteria Name	Rank	Shift	Taxonomy ID
Corynebacterium	genus	Low	1716	Agathobacter rectalis	species	Low	39491
Defluviitalea	genus	Low	1185408	Aggregatibacter	species	High	714
Dehalobacterium	genus	Low	51514	actinomycetemcomitans	species	Low	239935
Desulfovibrio	genus	Low	872	Akkermansia muciniphila	species	Low	328814
Dialister	genus	High	39948	Alistipes shahii	species	Low	39488
Dielma	genus	High	1472649	Anaerobutyricum hallii	species	High	246787
Dorea	genus	Low	189330	Bacteroides cellulosilyticus	species	High	817
Eggerthella	genus	High	84111	Bacteroides fragilis	species	Low	2778071
Eisenbergiella	genus	High	1432051	Bacteroides sp	species	High	820
Enterobacter	genus	High	547	Bacteroides uniformis	species	Low	1532
Enterococcus	genus	High	1350	Blautia coccoides	species	High	871665
Escherichia	genus	High	561	Blautia faecis	species	High	5476
Eubacterium	genus	Low	1730	Candida albicans	species	High	1352
Facklamia	genus	Low	66831	Enterococcus faecium	species	High	562
Faecalibacterium	genus	Low	216851	Escherichia coli	species	Low	853
Filifactor	genus	High	44259	Faecalibacterium prausnitzii	species	High	290055
Fusicatenibacter	genus	Low	1407607	Faecalicatena fissicatena	species	Low	263
Fusobacterium	genus	High	848	Francisella tularensis	species	High	851
Gemmiger	genus	Low	204475	Fusobacterium nucleatum	species	High	28134
Gordonibacter	genus	High	644652	Hoylella oralis	species	High	139208
Haemophilus	genus	High	724	Isoptericola variabilis	species	High	573
Hafnia	genus	High	568	Klebsiella pneumoniae	species	Low	39485
Halococcus	genus	High	2249	Lachnospira eligens	species	Low	181675
Holdemanella	genus	Low	1573535	Limosilactobacillus coleohominis	species	High	1613
Hungatella	genus	High	1649459	Limosilactobacillus fermentum	species	High	76775
Isoptericola	genus	High	254250	Malassezia restricta	species	High	33038
Jonquetella	genus	High	428711	Mediterraneibacter gnavus	species	High	823
Lachnodostridium	genus	High	1506553	Parabacteroides distasonis	species	High	821
Lachnospira	genus	Low	28050	Phocaeicola vulgatus	species	High	837
Lactobacillus	genus	High	1578	Porphyromonas gingivalis	species	High	28131
Lactococcus	genus	Low	1357	Prevotella intermedia	species	Low	182210
Leuconostoc	genus	High	1243	Pseudodesulfovibrio aespoeensis	species	High	360807
Marvinbryantia	genus	Low	248744	Roseburia inulinivorans	species	Low	2049040
Methanobrevibacter	genus	Low	2172	Roseburia sp.	species	High	4932
Methanosphaera	genus	High	2316	Saccharomyces cerevisiae	species	Low	615
Mogibacterium	genus	High	86331	Serratia marcescens	species	High	623
Monoglobus	genus	Low	2039302	Shigella flexneri	species	High	28112
				Tannerella forsythia	species	High	

## Substance to Consider Adding or Taking

These are the most significant substances that are likely to improve the microbiome dysfunction. Dosages are based on the dosages used in clinical studies. For more information see: <https://microbiomeprescription.com/library/dosages>. These are provided as examples only

Colors indicates the type of substance: i.e. probiotics and prebiotics, herbs and spices, etc. There is no further meaning to them.

2-Amino-4-(methylthio)butanoic acid {Methionine} 5 gram/day

Ceratonia siliqua {carob}

D-ribofuranoside {Ribose} 10 gram/day

Escherichia coli cryodesiccata {colinfant probiotics}

Escherichia coli:DSM 16441-16448 {symbioflor-2}

Ethyl alcohol {Grain alcohol}

Fermented Brassica oleracea {Sauerkraut}

Ferrum {Iron Supplements} 400 mg/day

high red meat

raffinose {sugar beet}

Sleep apnea {partial sleep deprivation}

Sucralose {Splenda} 340 mg/day

Tobacco consumption {Smoking}

Under cooked animal protein {Rare meat}

## **Retail Probiotics**

Over 260 retail probiotics were evaluated with the following deemed beneficial with no known adverse risks.

symbiopharm / symbioflo 2

**Note:** Some of these are only available regionally – search the web for sources.

## Substance to Consider Reducing or Eliminating

These are the most significant substances have been identified as probably contributing to the microbiome dysfunction.

In some cases blood work may show low levels of some vitamins, etc. listed below. This may be due to *greedy* bacteria reported at a high level above. Viewing bacteria data on the Kyoto Encyclopedia of Genes and Genomes (<https://www.kegg.jp/>) may provide better insight on the course of action to take.

5,6-dihydro-9,10-dimethoxybenzo[g]-1,3-benzodioxolo[5,6-a]quinolizinium {Berberine}  
 (2->1)-beta-D-fructofuranan {Inulin}  
 2-Methyl-5-(1-methylethyl)phenol {Carvacrol}  
 3,3',4',5,7-pentahydroxyflavone {Quercetin}  
 allium sativum {garlic}  
 bacillus  
 bacillus subtilis {B.Subtilis }  
 bacillus,lactobacillus,streptococcus,saccharomyces probiotic  
 bifidobacterium bifidum {B. bifidum}  
 bifidobacterium longum {B.Longum }  
 Cinnamomum zeylanicum {Ceylon Cinnamon}  
 Clostridium butyricum MIYAIRI 588 {Miyarisan}  
 Curcuma longa {Turmeric}  
 D-(-)-Fructose {Fruit sugar}  
 Diferuloylmethane {Curcumin}  
 enterococcus faecium {E. faecium}  
 fruit  
 fruit/legume fibre  
 green tea

Lactacaseibacillus casei {L. casei}  
 Lactacaseibacillus paracasei {L.paracasei}  
 Lactacaseibacillus rhamnosus {l. rhamnosus}  
 lactobacillus acidophilus {L. acidophilus}  
 Lactobacillus plantarum {L. plantarum}  
 Lavandula angustifolia {lavender}  
 Limosilactobacillus reuteri {L. Reuteri}  
 Metha family {Mint}  
 Moringa Oleifera  
 Ocimum gratissimum {Clove basil}  
 origanum vulgare {oregano}  
 pectin {pectin}  
 Probiotic Mixture 2 {Vetafarm Probiotic}  
 Propolis {Bee glue}  
 rosmarinus officinalis {rosemary}  
 Saccharomyces cerevisiae var boulardii {S. boulardii}  
 β-(1?4)-linked D-glucosamine and N-acetyl-D-glucosamine  
 {Chitosan}  
 Thymus vulgaris {thyme}  
 yogurt  
 Zingiber officinale Roscoe {ginger}

## Sample of Literature Used

The following are the most significant of the studies used to generate these suggestions.

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Functional constipation / chronic idiopathic constipation  
gallstone disease (gsd)  
Gastroesophageal reflux disease (Gerd) including Barrett's esophagus  
Generalized anxiety disorder  
giant cell arteritis  
Glioblastoma  
Gout  
Graves' disease  
Gulf War Syndrome  
Halitosis  
Hashimoto's thyroiditis  
Heart Failure  
hemorrhagic stroke  
Hemorrhoidal disease, Hemorrhoids, Piles  
Hidradenitis Suppurativa  
High Histamine/low DAO  
hypercholesterolemia (High Cholesterol)  
hyperglycemia  
Hyperlipidemia (High Blood Fats)  
hypersomnia  
hypertension (High Blood Pressure)  
Hypothyroidism  
Hypoxia  
IgA nephropathy (IgAN)  
Inflammatory Bowel Disease  
Insomnia  
Intelligence  
Intracranial aneurysms  
Irritable Bowel Syndrome  
ischemic stroke  
Juvenile idiopathic arthritis  
Liver Cirrhosis  
Long COVID  
Low bone mineral density  
Lung Cancer  
Lymphoma  
Mast Cell Issues / mastitis  
ME/CFS with IBS  
ME/CFS without IBS  
membranous nephropathy  
Menopause  
Metabolic Syndrome  
Mood Disorders  
multiple chemical sensitivity [MCS]  
Multiple Sclerosis  
Multiple system atrophy (MSA)  
myasthenia gravis  
neuropathic pain  
Neuropathy (all types)  
neuropsychiatric disorders (PANDAS, PANS)  
Nonalcoholic Fatty Liver Disease (nafld) Nonalcoholic  
NonCeliac Gluten Sensitivity  
Obesity

obsessive-compulsive disorder  
Osteoarthritis  
Osteoporosis  
pancreatic cancer  
Parkinson's Disease  
Peanut Allergy  
Polycystic ovary syndrome  
Postural orthostatic tachycardia syndrome  
Premenstrual dysphoric disorder  
primary biliary cholangitis  
Primary sclerosing cholangitis  
Psoriasis  
rheumatoid arthritis (RA), Spondyloarthritis (SpA)  
Rosacea  
Schizophrenia  
scoliosis  
sensorineural hearing loss  
Sjögren syndrome  
Sleep Apnea  
Slow gastric motility / Gastroparesis  
Small Intestinal Bacterial Overgrowth (SIBO)  
Stress / posttraumatic stress disorder  
Systemic Lupus Erythematosus  
Tic Disorder  
Tourette syndrome  
Type 1 Diabetes  
Type 2 Diabetes  
Ulcerative colitis  
Unhealthy Ageing  
Vitiligo