

Microbiome Information for: Crohn's Disease

For 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 *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

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

A Microbiome Analysis Company

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Email: Research@MicrobiomePrescription.com

[Our Facebook Discussion Page](#)

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
Butyricoccus	genus	Low	580596	Thermoanaerobacter	genus	High	1754
Butyrivibrio	genus	Low	830	Treponema	genus	Low	157
Candida	genus	High	1535326	Turicibacter	genus	Low	191303
Candidatus Soleaferrea	genus	High	1470353	Tyzzereella	genus	High	1506577
Catenibacterium	genus	Low	135858	Veillonella	genus	High	29465
Ceduvovirus	genus	Low	186532	Vibrio	genus	High	662
Cetobacterium	genus	High	180162	Bacteroidales	order	High	171549
Clonostachys	genus	High	110564	Enterobacterales	order	High	91347
Clostridium	genus	High	1485	Eubacteriales	order	Low	186802
Colidextribacter	genus	Low	1980681	Lactobacillales	order	High	186826
Collinsella	genus	Low	102106	Verrucomicrobiales	order	High	48461
Coprococcus	genus	Low	33042	[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 High	714
Desulfovibrio	genus Low	872	Akkermansia muciniphila	species Low	239935
Dialister	genus High	39948	Alistipes shahii	species Low	328814
Dielma	genus High	1472649	Anaerobutyricum hallii	species Low	39488
Dorea	genus Low	189330	Bacteroides cellulolyticus	species High	246787
Eggerthella	genus High	84111	Bacteroides fragilis	species High	817
Eisenbergiella	genus High	1432051	Bacteroides sp	species Low	2778071
Enterobacter	genus High	547	Bacteroides uniformis	species High	820
Enterococcus	genus High	1350	Blautia coccoides	species Low	1532
Escherichia	genus High	561	Blautia faecis	species High	871665
Eubacterium	genus Low	1730	Candida albicans	species High	5476
Facklamia	genus Low	66831	Enterococcus faecium	species High	1352
Faecalibacterium	genus Low	216851	Escherichia coli	species High	562
Filifactor	genus High	44259	Faecalibacterium prausnitzii	species Low	853
Fusicatenibacter	genus Low	1407607	Faecalicatena fissicatena	species High	290055
Fusobacterium	genus High	848	Francisella tularensis	species Low	263
Gemmiger	genus Low	204475	Fusobacterium nucleatum	species High	851
Gordonibacter	genus High	644652	Hoylesella oralis	species High	28134
Haemophilus	genus High	724	Isoptericola variabilis	species High	139208
Hafnia	genus High	568	Klebsiella pneumoniae	species High	573
Halococcus	genus High	2249	Lachnospira eligens	species Low	39485
Holdemanella	genus Low	1573535	Limosilactobacillus coleohominis	species Low	181675
Hungatella	genus High	1649459	Limosilactobacillus fermentum	species High	1613
Isoptericola	genus High	254250	Malassezia restricta	species High	76775
Jonquetella	genus High	428711	Mediterraneibacter gnavus	species High	33038
Lachnodostridium	genus High	1506553	Parabacteroides distasonis	species High	823
Lachnospira	genus Low	28050	Phocaeicola vulgatus	species High	821
Lactobacillus	genus High	1578	Porphyromonas gingivalis	species High	837
Lactococcus	genus Low	1357	Prevotella intermedia	species High	28131
Leuconostoc	genus High	1243	Pseudodesulfovibrio aespoeensis	species Low	182210
Marvinbryantia	genus Low	248744	Roseburia inulinivorans	species High	360807
Methanobrevibacter	genus Low	2172	Roseburia sp.	species Low	2049040
Methanosphaera	genus High	2316	Saccharomyces cerevisiae	species High	4932
Mogibacterium	genus High	86331	Serratia marcescens	species Low	615
Monoglobus	genus Low	2039302	Shigella flexneri	species High	623
			Tannerella forsythia	species High	28112

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.

Antibiotics annotated with [CFS] have been used with various degree of success with Myalgic Encephalomyelitis, Chronic Fatigue Syndrome, Chronic Lyme, Chronic Q-Fever and Long COVID conditions. Rotation of antibiotics with 3 weeks off between courses is recommended.

2-Amino-4-(methylthio)butanoic acid {Methionine} 5 gram/day	ketogenic diet
Ceratonia siliqua {carob}	macrolide ()
D-ribofuranoside {Ribose} 10 gram/day	Nitrogen Oxide x Particulate Matter {Urban air pollutant}
Escherichia coli cryodesiccata {colinfant probiotics}	penicillin-moxalactam
Escherichia coli:DSM 16441-16448 {symbioflor-2}	proton-pump inhibitors (prescription) 60 mg/day
Ethyl alcohol {Grain alcohol}	Quercetin-3-O-rutinoside {Rutin} 60 mg/day
Ferum {Iron Supplements} 400 mg/day	raffinose {sugar beet}
High glycemic diet {High-sugar diet (HSD)}	Sleep apnea {partial sleep deprivation}
high red meat	Sodium Fluoride {Toothpaste fluoride}
high-fat diets	Sucralose {Splenda} 340 mg/day
High-protein diet {Atkins low-carbohydrate diet}	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}	Honey {Honey }
(2->1)-beta-D-fructofuranan {Inulin}	Hordeum vulgare {Barley}
2-Methyl-5-(1-methylethyl)phenol {Carvacrol}	imipenem
3,3',4',5,7-pentahydroxyflavone {Quercetin}	Lactocaseibacillus casei {L. casei}
allium sativum {garlic}	Lactocaseibacillus paracasei {L.paracasei}
amikacin	Lactocaseibacillus rhamnosus {l. rhamnosus}
amoxicillin [CFS]	lactobacillus acidophilus {L. acidophilus}
bacillus	Lactobacillus plantarum {L. plantarum}
bacillus subtilis {B.Subtilis }	lactobacillus rhamnosus gg,bifidobacterium animalis lactis
bacillus,lactobacillus,streptococcus,saccharomyces probiotic	,lactobacillus paracasei {cvs maximum strength probiotic}
bifidobacterium	Lavandula angustifolia {lavender}
bifidobacterium bifidum {B. bifidum}	Limosilactobacillus reuteri {L. Reuteri}
bifidobacterium longum {B.Longum }	Metha family {Mint}
Bovine Milk Products {Dairy}	Moringa Oleifera
Cinnamomum zeylanicum {Ceylon Cinnamon}	Ocimum gratissimum {Clove basil}
ciprofloxacin [CFS]	oligosaccharides {oligosaccharides}
Clostridium butyricum MIYAIRI 588 {Miyarisan}	origanum vulgare {oregano}
Curcuma longa {Turmeric}	pectin {pectin}
D-(-)-Fructose {Fruit sugar}	piperacillin-tazobactam
dietary fiber	Probiotic Mixture 1 {Japanese Vet Probiotic}
Diferuloylmethane {Curcumin}	Probiotic Mixture 2 {Vetafarm Probiotic}
eugenol {Eugenic acid}	Propolis {Bee glue}
Fiber, total dietary	rosmarinus officinalis {rosemary}
fruit	Saccharomyces cerevisiae var boulardii {S. boulardii}
fruit/legume fibre	Slow digestible carbohydrates. {Low Glycemic}
gentamicin	β -(1?4)-linked D-glucosamine and N-acetyl-D-glucosamine
green tea	{Chitosan}
High-fibre diet {Whole food diet}	Thymus vulgaris {thyme}
	whole-grain diet
	yogurt
	Zingiber officinale Roscoe {ginger}

Sample of Literature Used

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Authors E-Sun Technologies

Additional sources and private correspondance

Private Correspondance , Volume: 1 Issue: 2018

Effects of probiotic Enterococcus faecium NCIMB 11181 administration on swine fecal microbiota diversity and composition using barcoded pyrosequencing

Animal Feed Science and Technology , Volume: 201 2015 Mar

Authors Edward Alain B. Pajarillo, Dae-Kyung Kang, Chan-Soo Park, Hyeun Bum Kim, Marilen P Balolong

Curcumin consumption reduces gut microbial diversity among patients with colorectal adenomas

The FASEB Journal , Volume: 26 Issue: 1 2012 Apr 1

Authors April McLauchlin, Felix Araujo-Perez, Nikki McCoy, Kevin Smith, Bob Sandler, Gary Asher, Termitope Keku

[Research cited on Manufacture Website].

Research cited on Manufacture Website , Volume: 0 Issue: 0 2018 Jan

Authors Miyarisan Labs

Curated database of commensal, symbiotic and pathogenic microbiota

Generative Bioinformatics , Volume: Issue: 2014 Jun

Authors D'Adamo Peter

Additional APriori Analysis Available

Available at: <https://microbiomeprescription.com/Library/PubMed>

Abdominal Aortic Aneurysm
Acne
Addison's Disease (hypocortisolism)
ADHD
Age-Related Macular Degeneration and Glaucoma
Allergic Rhinitis (Hay Fever)
Allergies
Allergy to milk products
Alopecia (Hair Loss)
Alzheimer's disease
Amyotrophic lateral sclerosis (ALS) Motor Neuron
Ankylosing spondylitis
Anorexia Nervosa
Antiphospholipid syndrome (APS)
Asthma
Atherosclerosis
Atrial fibrillation
Autism
Autoimmune Disease
Barrett esophagus cancer
benign prostatic hyperplasia
Biofilm
Bipolar Disorder
Brain Trauma
Breast Cancer
Cancer (General)
Carcinoma
cdk15 deficiency disorder
Celiac Disease
Cerebral Palsy
Chronic Fatigue Syndrome
Chronic Kidney Disease
Chronic Lyme
Chronic Obstructive Pulmonary Disease (COPD)
Chronic Urticaria (Hives)
Coagulation / Micro clot triggering bacteria
Cognitive Function
Colorectal Cancer
Constipation
Coronary artery disease
COVID-19
Crohn's Disease
Cushing's Syndrome (hypercortisolism)
cystic fibrosis
d-lactic acidosis (one form of brain fog)
deep vein thrombosis
Denture Wearers Oral Shifts
Depression

Dermatomyositis
Eczema
Endometriosis
Eosinophilic Esophagitis
Epilepsy
erectile dysfunction
Fibromyalgia
Food Allergy
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