

## 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 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/>)

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

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

### Analysis Provided by Microbiome Prescription

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[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       |
| Butyrivicoccus         | genus  | Low   | 580596      | Thermoanaerobacter    | genus   | High  | 1754        |
| Butyrivibrio           | genus  | Low   | 830         | Treponema             | genus   | Low   | 157         |
| Candida                | genus  | High  | 1535326     | Turidibacter          | genus   | Low   | 191303      |
| Candidatus Soleaferrea | genus  | High  | 1470353     | Tyzzerella            | 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        | Eubacterales          | 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 | 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.

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

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}

Ferum {Iron Supplements} 400 mg/day

High glycemic diet {High-sugar diet (HSD)}

high red meat

high-fat diets

High-protein diet {Atkins low-carbohydrate diet}

ketogenic diet

macrolide ( )

Nitrogen Oxide x Particulate Matter {Urban air pollutant}

proton-pump inhibitors (prescription) 60 mg/day

raffinose {sugar beet}

Sleep apnea {partial sleep deprivation}

Sodium Fluoride {Toothpaste fluoride}

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}  
 amikacin  
 amoxicillin [CFS]  
 ampicillin [CFS]  
 bacillus  
 bacillus subtilis {B.Subtilis }  
 bacillus,lactobacillus,streptococcus,saccharomyces probiotic  
 bifidobacterium bifidum {B. bifidum}  
 bifidobacterium longum {B.Longum }  
 ceftazidime  
 Cinnamomum zeylanicum {Ceylon Cinnamon}  
 ciprofloxacin [CFS]  
 Clostridium butyricum MIYAIRI 588 {Miyarisan}  
 Curcuma longa {Turmeric}  
 D-(-)-Fructose {Fruit sugar}  
 dietary fiber  
 Diferuloylmethane {Curcumin}  
 enterococcus faecium {E. faecium}  
 Fiber, total dietary  
 fruit  
 fruit/legume fibre  
 gentamicin

green tea  
 imipenem  
 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}  
 meropenem  
 Metha family {Mint}  
 Moringa Oleifera  
 Ocimum gratissimum {Clove basil}  
 organum vulgare {oregano}  
 pectin {pectin}  
 piperacillin-tazobactam  
 Probiotic Mixture 2 {Vetafarm Probiotic}  
 Propolis {Bee glue}  
 rosmarinus officinalis {rosemary}  
 Saccharomyces cerevisiae var boulardii {S. boulardii}  
 Slow digestible carbohydrates. {Low Glycemic}  
 β-(1?4)-linked D-glucosamine and N-acetyl-D-glucosamine {Chitosan}  
 Thymus vulgaris {thyme}  
 trimethoprim  
 whole-grain diet  
 yogurt  
 Zingiber officinale Roscoe {ginger}

## Sample of Literature Used

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

[Integrating traditional omics and machine learning approaches to identify microbial biomarkers and therapeutic targets in pediatric inflammatory bowel disease.](#)

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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

cdkl5 deficiency disorder

Celiac Disease

Cerebral Palsy

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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  
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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  
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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  
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Postural orthostatic tachycardia syndrome  
Premenstrual dysphoric disorder  
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Primary sclerosing cholangitis  
Psoriasis  
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