

## Microbiome Information for: Celiac 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/>)

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

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

### Analysis Provided by Microbiome Prescription

A Microbiome Analysis Company

892 Lake Samish Rd, Bellingham WA 98229

Email: [Research@MicrobiomePrescription.com](mailto:Research@MicrobiomePrescription.com)

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## Bacteria being reported because of atypical values.

These bacteria were reported atypical in studies of Celiac 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 |
|------------------------|--------|-------|-------------|-----------------------------------|---------|-------|-------------|
| Bacteroidia            | class  | Low   | 200643      | Megamonas                         | genus   | Low   | 158846      |
| Fusobacteriia          | class  | Low   | 203490      | Megasphaera                       | genus   | High  | 906         |
| Christensenellaceae    | family | Low   | 990719      | Methanobrevibacter                | genus   | Low   | 2172        |
| Desulfovibrionaceae    | family | High  | 194924      | Neisseria                         | genus   | High  | 482         |
| Enterobacteriaceae     | family | High  | 543         | Parabacteroides                   | genus   | Low   | 375288      |
| Fusobacteriaceae       | family | Low   | 203492      | Parvimonas                        | genus   | Low   | 543311      |
| Oxalobacteraceae       | family | High  | 75682       | Romboutsia                        | genus   | High  | 1501226     |
| Peptostreptococcaceae  | family | High  | 186804      | Rothia                            | genus   | Low   | 32207       |
| Ruminococcaceae        | family | Low   | 541000      | Ruminiclostridium                 | genus   | Low   | 1508657     |
| Staphylococcaceae      | family | High  | 90964       | Ruminococcus                      | genus   | Low   | 1263        |
| Streptococcaceae       | family | Low   | 1300        | Senegalimassilia                  | genus   | Low   | 1473205     |
| Actinomyces            | genus  | Low   | 1654        | Slackia                           | genus   | Low   | 84108       |
| Akkermansia            | genus  | Low   | 239934      | Staphylococcus                    | genus   | High  | 1279        |
| Alistipes              | genus  | Low   | 239759      | Streptococcus                     | genus   | High  | 1301        |
| Allisonella            | genus  | High  | 209879      | Subdoligranulum                   | genus   | Low   | 292632      |
| Anaerostipes           | genus  | Low   | 207244      | Sutterella                        | genus   | High  | 40544       |
| Anaerotruncus          | genus  | Low   | 244127      | Actinomycetales                   | order   | High  | 2037        |
| Barnesiella            | genus  | Low   | 397864      | Campylobacteriales                | order   | Low   | 213849      |
| Bifidobacterium        | genus  | Low   | 1678        | Candidatus Gastranaerophilales    | order   | High  | 1906119     |
| Bilophila              | genus  | Low   | 35832       | Bacteroides acidifaciens          | species | High  | 85831       |
| Blautia                | genus  | Low   | 572511      | Bacteroides fragilis              | species | High  | 817         |
| Butyrivibrio           | genus  | Low   | 574697      | Bifidobacterium angulatum         | species | High  | 1683        |
| Candidatus Soleaferrea | genus  | High  | 1470353     | Bifidobacterium animalis          | species | Low   | 28025       |
| Catenibacterium        | genus  | High  | 135858      | Bifidobacterium bifidum           | species | High  | 1681        |
| Dialister              | genus  | Low   | 39948       | Bifidobacterium breve             | species | High  | 1685        |
| Dorea                  | genus  | Low   | 189330      | Bifidobacterium longum            | species | Low   | 216816      |
| Eisenbergiella         | genus  | Low   | 1432051     | Bifidobacterium pseudocatenulatum | species | Low   | 28026       |
| Enterococcus           | genus  | High  | 1350        | Candida albicans                  | species | High  | 5476        |
| Enterorhabdus          | genus  | Low   | 580024      | Clostridium celatum               | species | High  | 36834       |
| Erysipelatoclostridium | genus  | Low   | 1505663     | Escherichia coli                  | species | High  | 562         |
| Faecalibacterium       | genus  | Low   | 216851      | Eubacterium coprostanoligenes     | species | Low   | 290054      |
| Gemella                | genus  | Low   | 1378        | Helicobacter pylori               | species | High  | 210         |
| Gemmiger               | genus  | Low   | 204475      | Klebsiella oxytoca                | species | High  | 571         |
| Granulicatella         | genus  | Low   | 117563      | Phocaeicola vulgatus              | species | High  | 821         |
| Haemophilus            | genus  | High  | 724         | Roseburia intestinalis            | species | High  | 166486      |
| Helicobacter           | genus  | High  | 209         | Rothia mucilaginosa               | species | High  | 43675       |
| Lachnoclostridium      | genus  | High  | 1506553     | Saccharomyces cerevisiae          | species | High  | 4932        |
| Lachnospira            | genus  | Low   | 28050       | Staphylococcus epidermidis        | species | High  | 1282        |
|                        |        |       |             | Staphylococcus pasteurii          | species | High  | 45972       |

## 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.

Ethyl alcohol {Grain alcohol}

Ferrum {Iron Supplements} 400 mg/day

## 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.

(2->1)-beta-D-fructofuranan {Inulin}  
fruit  
fruit/legume fibre

Hordeum vulgare {Barley}  
Lactobacillus plantarum {L. plantarum}  
oligosaccharides {oligosaccharides}

## Sample of Literature Used

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

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Biofilm

Bipolar Disorder

Brain Trauma

Breast Cancer

Cancer (General)

Carcinoma

cdk15 deficiency disorder

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Chronic Kidney Disease  
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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  
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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  
pancreatic cancer  
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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  
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Small Intestinal Bacterial Overgrowth (SIBO)  
Stress / posttraumatic stress disorder  
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