

## Microbiome Information for: Bipolar Disorder

### 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 *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

A Microbiome Analysis Company

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## Bacteria being reported because of atypical values.

These bacteria were reported atypical in studies of Bipolar Disorder

*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
Actinomycetia	class	High	1760	Enterococcus	genus	Low	1350
Bacteroidia	class	High	200643	Erysipelothrix	genus	Low	1647
Epsilonproteobacteria	class	High	29547	Escherichia	genus	High	561
Campylobacteraceae	family	High	72294	Faecalibacterium	genus	Low	216851
Christensenellaceae	family	Low	990719	Flavonifractor	genus	High	946234
Corynebacteriaceae	family	High	1653	Gemmiger	genus	Low	204475
Enterococcaceae	family	Low	81852	Halomonas	genus	High	2745
Marinifilaceae	family	High	1573805	Klebsiella	genus	High	570
Propionibacteriaceae	family	Low	31957	Megamonas	genus	Low	158846
Sphingobacteriaceae	family	Low	84566	Oscillibacter	genus	High	459786
Acidovorax	genus	Low	12916	Parabacteroides	genus	High	375288
Alistipes	genus	High	239759	Parasutterella	genus	Low	577310
Anaerovibrio	genus	Low	82373	Prevotella	genus	High	838
Bacteroides	genus	High	816	Propionibacterium	genus	Low	1743
Bilophila	genus	High	35832	Pseudomonas	genus	Low	286
Butyricoccus	genus	High	580596	Roseburia	genus	Low	841
Butyricimonas	genus	High	574697	Shigella	genus	High	620
Campylobacter	genus	High	194	Sphingobacterium	genus	Low	28453
Chryseobacterium	genus	Low	59732	Succinivibrio	genus	Low	83770
Coprococcus	genus	Low	33042	Tsukamurella	genus	High	2060
Dialister	genus	High	39948	Veillonella	genus	Low	29465
Eggerthella	genus	Low	84111	Weissella	genus	High	46255
				Faecalibacterium prausnitzii	species	High	853

## 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.

apple	non-starch polysaccharides
arabinogalactan (prebiotic) 21 gram/day	pectin
berberine 1.5 gram/day	quercetin 2 gram/day
Bile Acid Sequestrant	Slippery Elm
Bofutsushosan	stevia 800 mg/day
fasting	triphalala 9000 mg/day
fat	vegetarians
glycyrrhizic acid (licorice) 32 gram/day	vitamin d 50000 UI/day
Human milk oligosaccharides (prebiotic, Holigos, Stachyose) 2 gram/day	xylan (prebiotic)

## 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.

bacillus subtilis (probiotics)	partial sleep deprivation
bifidobacterium animalis lactis (probiotics)	pediococcus acidilactic (probiotic)
Bismuth Salts	raffinose(sugar beet)
brown rice	resveratrol (grape seed/polyphenols/red wine)
buckwheat	saccharomyces cerevisiae (probiotics)
Burdock Root	Shen Ling Bai Zhu San
clostridium butyricum (probiotics),Miya,Miyarisan	sodium butyrate
galla chinensis (herb)	sucralose
garlic (allium sativum)	tannic acid
grape polyphenols	Vitamin B-12
inulin (prebiotic)	vitamin B3,niacin
lactobacillus casei (probiotics)	Vitamin E
lactobacillus kefir (NOT KEFIR)	walnuts
lactobacillus paracasei (probiotics)	wheat
lactobacillus reuteri (probiotics)	whey
lactobacillus rhamnosus gg (probiotics)	whole-grain barley

## Sample of Literature Used

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Asthma  
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Autism  
Autoimmune Disease  
Barrett esophagus cancer  
Bipolar Disorder  
Brain Trauma  
Carcinoma  
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Cerebral Palsy  
Chronic Fatigue Syndrome  
Chronic Kidney Disease  
Chronic Lyme  
Chronic Obstructive Pulmonary Disease (COPD)  
Chronic Urticaria (Hives)  
Coagulation / Micro clot triggering bacteria  
Colorectal Cancer  
Constipation  
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COVID-19  
Crohn's Disease  
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Depression  
Dermatomyositis  
Eczema  
Endometriosis  
Eosinophilic Esophagitis  
Epilepsy  
Fibromyalgia  
Functional constipation / chronic idiopathic constipation  
gallstone disease (gsd)  
Gastroesophageal reflux disease (Gerd) including Barrett's esophagus  
Generalized anxiety disorder  
Gout  
Graves' disease  
Hashimoto's thyroiditis  
Hidradenitis Suppurativa  
Histamine Issues From Ubiome  
Histamine Issues, Mast Cell Issue, DAO Insufficiency  
hypercholesterolemia (High Cholesterol)  
hyperglycemia  
Hyperlipidemia (High Blood Fats)

hypersomnia  
hypertension (High Blood Pressure)  
Hypoxia  
IgA nephropathy (IgAN)  
Inflammatory Bowel Disease  
Insomnia  
Intelligence  
Irritable Bowel Syndrome  
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Long COVID  
Lung Cancer  
ME/CFS with IBS  
ME/CFS without IBS  
Menopause  
Metabolic Syndrome  
Mood Disorders  
Multiple Sclerosis  
Multiple system atrophy (MSA)  
Neuropathy (all types)  
neuropsychiatric disorders (PANDAS, PANS)  
Nonalcoholic Fatty Liver Disease (nafld) Nonalcoholic  
NonCeliac Gluten Sensitivity  
Obesity  
obsessive-compulsive disorder  
Osteoarthritis  
Osteoporosis  
Parkinson's Disease  
Postural orthostatic tachycardia syndrome  
Premenstrual dysphoric disorder  
Psoriasis  
rheumatoid arthritis (RA),Spondyloarthritis (SpA)  
Rosacea  
Schizophrenia  
Sjögren syndrome  
Sleep Apnea  
Small Intestinal Bacterial Overgrowth (SIBO)  
Stress / posttraumatic stress disorder  
Systemic Lupus Erythematosus  
Tic Disorder  
Tourette syndrome  
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Type 2 Diabetes  
Ulcerative colitis  
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