

Microbiome Information for: Mood Disorders

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

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

892 Lake Samish Rd, Bellingham WA 98229

Email: Research@MicrobiomePrescription.com

[Our Facebook Discussion Page](#)

Bacteria being reported because of atypical values.

These bacteria were reported atypical in studies of Mood Disorders

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
				Mogibacterium	genus	High	86331
Actinomycetes	class	High	1760	Morganella	genus	High	90690
Bacteroidia	class	High	200643	Morganella	genus	High	108061
Betaproteobacteria	class	High	28216	Morganella	genus	High	581
Deferribacteres	class	Low	68337	Murimonas	genus	Low	1774128
Deltaproteobacteria	class	High	28221	Odoribacter	genus	High	283168
Elusimicrobia	class	Low	641853	Olsenella	genus	High	133925
Gammaproteobacteria	class	High	1236	Oscillibacter	genus	High	459786
Mollicutes	class	Low	31969	Oscillospira	genus	High	119852
Spirochaetia	class	Low	203692	Parabacteroides	genus	High	375288
Terriglobia	class	Low	204432	Paraprevotella	genus	High	577309
Acidaminococcaceae	family	High	909930	Parvimonas	genus	High	543311
Akkermansiaceae	family	High	1647988	Peptostreptococcus	genus	High	1257
Alcaligenaceae	family	Low	506	Porphyromonas	genus	High	836
Bacteroidaceae	family	High	815	Prevotella	genus	Low	838
Bifidobacteriaceae	family	High	31953	Propionibacterium	genus	Low	1743
Campylobacteraceae	family	High	72294	Pseudomonas	genus	Low	286
Chitinophagaceae	family	Low	563835	Pyramidobacter	genus	Low	638847
Christensenellaceae	family	Low	990719	Roseburia	genus	Low	841
Clostridiales Family XI. Incertae Sedis	family	High	543310	Rothia	genus	High	32207
Corynebacteriaceae	family	High	1653	Rothia	genus	High	508215
Enterobacteriaceae	family	High	543	Ruminococcus	genus	Low	1263
Enterococcaceae	family	Low	81852	Saccharomyces	genus	High	4930
Erysipelotrichaceae	family	High	128827	Shigella	genus	High	620
Eubacteriaceae	family	High	186806	Slackia	genus	High	84108
Eubacteriales Family IV. Incertae Sedis	family	High	1689151	Solobacterium	genus	High	123375
Fusobacteriaceae	family	High	203492	Sphaerochaeta	genus	High	399320
Lachnospiraceae	family	Low	186803	Sphingobacterium	genus	Low	28453
Leuconostocaceae	family	Low	81850	Streptococcus	genus	High	1301
Marinifilaceae	family	High	1573805	Subdoligranulum	genus	High	292632
Muribaculaceae	family	Low	2005473	Succinivibrio	genus	High	83770
Nocardiaceae	family	High	85025	Sutterella	genus	Low	40544
Oscillospiraceae	family	Low	216572	Tsukamurella	genus	High	2060
Peptostreptococcaceae	family	High	186804	Turidibacter	genus	High	191303
Porphyromonadaceae	family	High	171551	Veillonella	genus	Low	29465
Prevotellaceae	family	Low	171552	Weissella	genus	High	46255
Propionibacteriaceae	family	Low	31957	Actinomycetales	order	High	2037
Rhodocyclaceae	family	Low	75787	Bacteroidales	order	High	171549
Rhodospirillaceae	family	High	41295	Bifidobacteriales	order	Low	85004
Rikenellaceae	family	Low	171550	Burkholderiales	order	High	80840
				Eggerthellales	order	High	1643822

Bacteria Name	Rank	Shift	Taxonomy ID	Bacteria Name	Rank	Shift	Taxonomy ID
Ruminococcaceae	family	Low	541000	Eubacteriales	order	High	186802
Sphingobacteriaceae	family	Low	84566	Rhodocyclales	order	Low	206389
Sphingomonadaceae	family	High	41297	Sphingomonadales	order	High	204457
Streptococcaceae	family	High	1300	[Clostridium] symbiosum	species	High	1512
Streptomycetaceae	family	High	2062	[Eubacterium] siraeum	species	High	39492
Sutterellaceae	family	Low	995019	Acidaminococcus fermentans	species	High	905
Veillonellaceae	family	Low	31977	Acidaminococcus intestini	species	Low	187327
Acidovorax	genus	Low	12916	Agathobacter rectalis	species	Low	39491
Actinomyces	genus	High	1654	Akkermansia muciniphila	species	High	239935
Adlercreutzia	genus	Low	447020	Alkaliphilus oremlandii	species	High	461876
Agathobacter	genus	Low	1766253	Alkaliphilus peptidifermentans	species	High	426129
Aggregatibacter	genus	High	416916	Anaerobutyricum hallii	species	High	39488
Alistipes	genus	High	239759	Anaerotignum propionicum	species	High	28446
Anaerococcus	genus	High	165779	Bacteroides caccae	species	High	47678
Anaerofilum	genus	High	52784	Bacteroides caecigallinarum	species	High	1411144
Anaerofustis	genus	High	264995	Bacteroides fragilis	species	High	817
Anaerostipes	genus	High	207244	Bacteroides helcogenes	species	Low	290053
Anaerotruncus	genus	High	244127	Bacteroides uniformis	species	High	820
Anaerovibrio	genus	Low	82373	Bifidobacterium adolescentis	species	High	1680
Apiotrichum	genus	High	105983	Bifidobacterium bifidum	species	High	1681
Asaccharobacter	genus	High	553372	Bifidobacterium breve	species	Low	1685
Aspergillus	genus	Low	5052	Bifidobacterium pseudolongum	species	High	1694
Atopobium	genus	High	1380	Butyrivibrio crossotus	species	High	45851
Bacteroides	genus	High	816	Campylobacter jejuni	species	High	197
Bilophila	genus	High	35832	Clostridium butyricum	species	Low	1492
Blautia	genus	Low	572511	Clostridium perfringens	species	High	1502
Bulleidia	genus	High	118747	Collinsella aerofaciens	species	Low	74426
Butyricimonas	genus	High	574697	Coprococcus comes	species	Low	410072
Campylobacter	genus	High	194	Cronobacter sakazakii	species	High	28141
Candidatus Epulonipiscium	genus	High	2383	Cronobacter turicensis	species	High	413502
Candidatus Saccharimonas	genus	Low	1331051	Desulforamulus ruminis	species	High	1564
Chryseobacterium	genus	Low	59732	Desulfovibrio piger	species	Low	901
Clostridium	genus	Low	1485	Eggerthella lenta	species	High	84112
Collinsella	genus	High	102106	Enterocloster bolteae	species	High	208479
Comamonas	genus	High	283	Enterococcus faecium	species	High	1352
Coprococcus	genus	Low	33042	Escherichia sp.	species	High	1884818
Coriobacterium	genus	High	33870	Eubacterium coprostanoligenes	species	Low	290054
Corynebacterium	genus	High	1716	Eubacterium ruminantium	species	High	42322
Deinococcus	genus	High	1298	Faecalibacterium prausnitzii	species	High	853
Desulfitobacterium	genus	High	36853	Francisella tularensis	species	Low	263
Desulfovibrio	genus	High	872	Gabonia massiliensis	species	Low	1686296
Dialister	genus	Low	39948	Hungatella hathewayi	species	High	154046
Eggerthella	genus	High	84111	Lacrimispora indolis	species	High	69825
Enterobacter	genus	Low	547	Lactacaseibacillus rhamnosus	species	Low	47715
Enterococcus	genus	Low	1350	Lactiplantibacillus pentosus	species	Low	1589
Erysipelothrix	genus	Low	1647	Lactobacillus crispatus	species	High	47770
				Lactobacillus gasseri	species	High	1596

Bacteria Name	Rank Shift	Taxonomy ID	Bacteria Name	Rank Shift	Taxonomy ID
			Lactobacillus helveticus	species Low	1587
Escherichia	genus High	561	Lactobacillus intestinalis	species High	151781
Eubacterium	genus High	1730	Lancefieldella parvula	species High	1382
Faecalibacterium	genus Low	216851	Limosilactobacillus reuteri	species High	1598
Flavonifractor	genus High	946234	Megasphaera elsdenii	species High	907
Fusicatenibacter	genus High	1407607	Mycolicibacterium neoaurum	species High	1795
Fusobacterium	genus High	848	Nitratidesulfovibrio vulgaris	species High	881
Gelria	genus High	189326	Paenibacillus polymyxa	species High	1406
Gemella	genus High	1378	Parabacteroides distasonis	species High	823
Gemmiger	genus Low	204475	Parabacteroides merdae	species Low	46503
Haemophilus	genus Low	724	Parasporobacterium paucivorans	species High	115544
Halomonas	genus High	2745	Phocaeicola plebeius	species High	310297
Heliobacterium	genus High	2697	Ruminococcus callidus	species Low	40519
Holdemania	genus High	61170	Schnuerera ultunensis	species High	45497
Howardella	genus Low	404402	Streptococcus gallolyticus	species High	315405
Hungatella	genus High	1649459	Streptococcus infantarius	species Low	102684
Intestinibacter	genus High	1505657	Streptococcus parasanguinis	species High	1318
Klebsiella	genus High	570	Streptococcus urinalis	species Low	149016
Lachnospirillum	genus High	1506553	Streptococcus vestibularis	species High	1343
Lachnospira	genus High	28050	Syntrophomonas wolfei	species High	863
Lactobacillus	genus High	1578	Veillonella parvula	species High	29466
Lactonifractor	genus High	420345	Coriobacterineae	suborder High	255727
Lutispora	genus Low	667112			
Megamonas	genus Low	158846			
Megasphaera	genus High	906			
Methanobrevibacter	genus High	2172			

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.

5,6-dihydro-9,10-dimethoxybenzo[g]-1,3-benzodioxolo[5,6-

a]quinolizinium {Berberine} 1.5 gram/day

2H-1,6,2-benzothiazol-1,1,3-trione {Saccharin} 450 mg/day

Abstention from eating {Fasting}

dietary fiber

Ethyl alcohol {Grain alcohol}

Fiber, total dietary

fruit

fruit/legume fibre

Ginkgo biloba {Ginkgo} 240 mg/day

high red meat

High-protein diet {Atkins low-carbohydrate diet}

Human milk oligosaccharides (prebiotic, Holigos, Stachyose) 2

gram/day

Hydrastis canadensis {Goldenseal}

ketogenic diet

laminaria digitata {Oarweed}

Malus domestica {apple}

oligosaccharides {oligosaccharides}

pectin {pectin}

proton-pump inhibitors (prescription) 60 mg/day

Slow digestible carbohydrates. {Low Glycemic}

Sulforaphane {Dark Greens}

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-(3,4-Dihydroxyphenyl)-5,7-dihydroxy-4H-chromen-4-one
{Luteolin}
2-Methyl-5-(1-methylethyl)phenol {Carvacrol}
allium sativum {garlic}
amikacin
amoxicillin [CFS]
Arthrospira platensis {Spirulina}
Azadirachta indica {Neem}
bacillus
bacillus subtilis {B.Subtilis }
bacillus,lactobacillus,streptococcus,saccharomyces probiotic
benzylpenicillin sodium (antibiotic)
bifidobacterium
bifidobacterium infantis {B. infantis}
bifidobacterium longum {B.Longum }
Capsicum annuum {Peppers} {Cayenne Pepper, Hot Pepper}
chloramphenicol
Cichorium intybus {Chicory}
ciprofloxacin [CFS]
clindamycin [CFS]
Clostridium butyricum MIYAIRI 588 {Miyarisan}
Diferuloylmethane {Curcumin}
enterococcus faecium {E. faecium}
Escherichia coli Nissle 1917 {Mutaflor}
eugenol {Eugenic acid}
gentamicin
gliadin, glutenin etc {Gluten}
Hericium erinaceus {Lion's Mane Mushroom }
Heyndrickxia coagulans {B. coagulans}
imipenem
Lactocaseibacillus casei {L. casei}
Lactocaseibacillus paracasei {L.paracasei}
Lactobacillus plantarum {L. plantarum}

lactobacillus rhamnosus gg
lactobacillus rhamnosus gg,bifidobacterium animalis lactis
,lactobacillus paracasei {cvs maximum strength probiotic}
Limosilactobacillus reuteri {L. Reuteri}
linezolid (antibiotic)
Linum usitatissimum {Flaxseed}
long-term, moderate-intensity exercise {exercise}
low protein diet
meropenem
metronidazole [CFS]
Mixture of Vitamin B? {B Vitamins}
Moringa Oleifera
ofloxacin
origanum vulgare {oregano}
pediococcus acidilactic {RBB9 PEDIOCOCCUS ACIDILACTI}
piperacillin-tazobactam
Plantago {Psyllium}
Propolis {Bee glue}
Prunus dulcis {Almonds}
Punica granatum {pomegranate}
Riboflavin {Vitamin B2}
Saccharomyces cerevisiae var boulardii {S. boulardii}
Secale cereale {Rye}
Shen Ling Bai Zhu San {参苓白术散}
soy
Taraxacum officinale {Dandelion}
terpenophenolics {cannabinoids}
tetracycline
Theobroma cacao {Cacao}
Thymus vulgaris {thyme}
walnuts
yogurt
Zingiber officinale Roscoe {ginger}

Sample of Literature Used

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

Changes of gut microbiota reflect the severity of major depressive disorder: a cross sectional study.

Translational psychiatry , Volume: 13 Issue: 1 2023 Apr 28

Authors Hu X,Li Y,Wu J,Zhang H,Huang Y,Tan X,Wen L,Zhou X,Xie P,Olasunkanmi OI,Zhou J,Sun Z,Liu M,Zhang G,Yang J,Zheng P,Xie P

Leveraging the microbiome to understand clinical heterogeneity in depression: findings from the T-RAD study.

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Gut Microbiota in Anxiety and Depression: Unveiling the Relationships and Management Options.

Pharmaceuticals (Basel, Switzerland) , Volume: 16 Issue: 4 2023 Apr 9

Authors Kumar A,Pramanik J,Goyal N,Chauhan D,Sivamaruthi BS,Prajapati BG,Chaiyasut C

Adverse childhood experiences and reoccurrence of illness impact the gut microbiome, which affects suicidal behaviors and the phenome of major depression: towards enterotypic-phenotypes.

Acta neuropsychiatrica , 2023 Apr 13

Authors Maes M,Vasupanrajit A,Jirakran K,Klomkliw P,Chanchaem P,Tunvirachaisakul C,Plaimas K,Suratanee A,Payungporn S

Dysbiosis of the Gut Microbiota and Kynurenine (Kyn) Pathway Activity as Potential Biomarkers in Patients with Major Depressive Disorder.

Nutrients , Volume: 15 Issue: 7 2023 Apr 3

Authors Lin P,Li D,Shi Y,Li Q,Guo X,Dong K,Chen Q,Lou X,Li Z,Li P,Jin W,Chen S,Sun Y,Sun J,Cheng X

Altered gut bacterial-fungal interkingdom networks in children and adolescents with depression.

Journal of affective disorders , Volume: 332 2023 Jul 1

Authors Hao SR,Zhang Z,Zhou YY,Zhang X,Sun WJ,Yang Z,Zhao JH,Jiang HY

Bifidobacterium breve Bif11 supplementation improves depression-related neurobehavioural and neuroinflammatory changes in the mouse.

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Physiology & behavior , Volume: 258 2023 Jan 1

Authors Sun Y,Zhu H,Cheng R,Tang Z,Zhang M

Changes in fecal microbiota composition and the cytokine expression profile in school-aged children with depression: A case-control study.

Frontiers in immunology , Volume: 13 2022

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A Pilot Study of the Gut Microbiota Associated With Depressive Symptoms and Sleep Disturbance Among Chinese and Korean Immigrants in the United States.

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Neuropsychiatric disease and treatment , Volume: 18 2022

Authors Cai LF,Wang SB,Hou CL,Li ZB,Liao YJ,Jia FJ

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Bacteroides species differentially modulate depression-like behavior via gut-brain metabolic signaling.

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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
cdkl5 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
liver fibrosis
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