

Microbiome Information for: Autism

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/>)

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

[Our Facebook Discussion Page](#)

Bacteria being reported because of atypical values.

These bacteria were reported atypical in studies of Autism

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
Alphaproteobacteria	class	High	28211	Moryella	genus	Low	437755
Bacilli	class	High	91061	Odoribacter	genus	High	283168
Bacteroidia	class	High	200643	Oscillospira	genus	High	119852
Clostridia	class	High	186801	Paraprevotella	genus	Low	577309
Deinococci	class	Low	188787	Parasutterella	genus	Low	577310
Fusobacteriia	class	Low	203490	Peptostreptococcus	genus	High	1257
Holophagae	class	Low	533205	Phascolarctobacterium	genus	High	33024
Mollicutes	class	Low	31969	Phyllobacterium	genus	High	28100
Negativicutes	class	Low	909932	Prevotella	genus	Low	838
Terriglobia	class	High	204432	Pseudomonas	genus	Low	286
Acidaminococcaceae	family	Low	909930	Ralstonia	genus	High	48736
Alcaligenaceae	family	High	506	Romboutsia	genus	Low	1501226
Bacteroidaceae	family	High	815	Roseburia	genus	Low	841
Bifidobacteriaceae	family	Low	31953	Rothia	genus	High	508215
Eggerthellaceae	family	Low	1643826	Ruminiclostridium	genus	High	1508657
Enterobacteriaceae	family	High	543	Ruminococcus	genus	High	1263
Erysipelotrichaceae	family	High	128827	Saccharomyces	genus	High	4930
Eubacteriaceae	family	High	186806	Sarcina	genus	High	1266
Lachnospiraceae	family	Low	186803	Shigella	genus	Low	620
Lactobacillaceae	family	High	33958	Staphylococcus	genus	High	1279
Methylobacteriaceae	family	High	119045	Streptococcus	genus	Low	1301
Moraxellaceae	family	High	468	Sutterella	genus	High	40544
Oscillospiraceae	family	High	216572	Tannerella	genus	Low	195950
Pasteurellaceae	family	High	712	Turidibacter	genus	High	191303
Peptostreptococcaceae	family	High	186804	Tyzzerella	genus	Low	1506577
Prevotellaceae	family	High	171552	Veillonella	genus	Low	29465
Rikenellaceae	family	High	171550	Weissella	genus	Low	46255
Ruminococcaceae	family	Low	541000	Lachnospiraceae incertae sedis	no rank	High	2840493
Sutterellaceae	family	High	995019	Bacteroidales	order	Low	171549
Veillonellaceae	family	Low	31977	Bifidobacteriales	order	Low	85004
Acinetobacter	genus	High	469	Eubacteriales	order	High	186802
Actinobacillus	genus	High	713	Selenomonadales	order	Low	909929
Actinomyces	genus	High	1654	Victivallales	order	High	278082
Aggregatibacter	genus	High	416916	[Clostridium] leptum	species	Low	1535
Akkermansia	genus	Low	239934	[Eubacterium] siraeum	species	Low	39492
Amphibacillus	genus	High	29331	[Ruminococcus] lactaris	species	Low	46228
Anaerococcus	genus	High	165779	[Ruminococcus] torques	species	High	33039
Anaerotruncus	genus	Low	244127	Acinetobacter johnsonii	species	High	40214
Aspergillus	genus	High	5052	Acinetobacter rhizosphaerae	species	High	243922
Bacillus	genus	High	1386	Adlercreutzia equolifaciens	species	High	446660
Bacillus	genus	High	55087	Agathobacter rectalis	species	Low	39491

Bacteria Name	Rank	Shift	Taxonomy ID	Bacteria Name	Rank	Shift	Taxonomy ID
Bacteroides	genus	High	816	Akkermansia muciniphila	species	Low	239935
Barnesiella	genus	High	397864	Alistipes putredinis	species	Low	28117
Bifidobacterium	genus	Low	1678	Anaerostipes caccae	species	High	105841
Bilophila	genus	Low	35832	Bacteroides sp.	species	Low	29523
Blautia	genus	Low	572511	Bifidobacterium adolescentis	species	Low	1680
Borrelia	genus	High	138	Bifidobacterium breve	species	High	1685
Burkholderia	genus	High	32008	Bifidobacterium catenulatum	species	High	1686
Butyricicoccus	genus	Low	580596	Bifidobacterium longum	species	Low	216816
Butyricimonas	genus	High	574697	Blautia obeum	species	High	40520
Caloramator	genus	High	44258	Butyricicoccus pullicaecorum	species	Low	501571
Candida	genus	High	5475	Campylobacter jejuni	species	Low	197
Candida	genus	High	1535326	Candida albicans	species	High	5476
Catenibacterium	genus	High	135858	Chloracidobacterium thermophilum	species	Low	458033
Cetobacterium	genus	High	180162	Clostridiales bacterium	species	High	1898207
Chlamydia	genus	High	810	Clostridioides difficile	species	High	1496
Chloracidobacterium	genus	Low	458032	Clostridium botulinum	species	High	1491
Chryseobacterium	genus	High	59732	Clostridium perfringens	species	High	1502
Clostridium	genus	High	1485	Coralimargarita akajimensis	species	Low	395922
Collinsella	genus	High	102106	Desulfovibrio intestinalis	species	High	58621
Coprobacter	genus	High	1348911	Desulfovibrio piger	species	High	901
Coprococcus	genus	Low	33042	Dialister invisus	species	Low	218538
Corynebacterium	genus	High	1716	Eggerthella lenta	species	High	84112
Desulfovibrio	genus	High	872	Enterobacter cloacae	species	Low	550
Devosia	genus	Low	46913	Enterocloster bolteae	species	High	208479
Dialister	genus	Low	39948	Enterocloster clostridioformis	species	High	1531
Dorea	genus	High	189330	Enterococcus faecalis	species	Low	1351
Eggerthella	genus	High	84111	Enterococcus gallinarum	species	Low	1353
Eisenbergiella	genus	Low	1432051	Escherichia coli	species	Low	562
Enhydrobacter	genus	High	212791	Faecalibacterium prausnitzii	species	Low	853
Enterobacter	genus	High	547	Haemophilus parainfluenzae	species	Low	729
Enterococcus	genus	Low	1350	Hathewayia histolytica	species	High	1498
Escherichia	genus	Low	561	Intestinibacter bartlettii	species	High	261299
Eubacterium	genus	Low	1730	Klebsiella pneumoniae	species	High	573
Ezakiella	genus	Low	1582879	Lachnospira eligens	species	Low	39485
Faecalibacterium	genus	High	216851	Lactacaseibacillus rhamnosus	species	Low	47715
Faecalibaculum	genus	Low	1729679	Lactiplantibacillus plantarum	species	Low	1590
Filifactor	genus	High	44259	Limosilactobacillus reuteri	species	Low	1598
Flavonifractor	genus	Low	946234	Mediterraneibacter gnavus	species	High	33038
Fusobacterium	genus	High	848	Mycoplasmoides pneumoniae	species	High	2104
Haemophilus	genus	Low	724	Parabacteroides distasonis	species	Low	823
Holdemanella	genus	High	1573535	Phocaeicola vulgatus	species	High	821
Intestinibacter	genus	High	1505657	Porphyromonas gingivalis	species	High	837
Klebsiella	genus	High	570	Prevotella sp.	species	Low	59823
Lachnoclostridium	genus	High	1506553	Proteus mirabilis	species	Low	584
Lachnospira	genus	Low	28050	Romboutsia ilealis	species	High	1115758
Lactobacillus	genus	High	1578	Ruminiclostridium cellulolyticum	species	High	1521
Leptotrichia	genus	High	32067				

Bacteria Name	Rank	Shift	Taxonomy ID	Bacteria Name	Rank	Shift	Taxonomy ID
Megamonas	genus	High	158846	Solobacterium moorei	species	High	102148
Megasphaera	genus	High	906	Spirochaeta thermophila	species	Low	154
Moraxella	genus	High	475	Streptococcus pyogenes	species	High	1314
				Yersinia enterocolitica	species	High	630

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.

Ethyl alcohol {Grain alcohol}	high-fat diets
Ferrum {Iron Supplements} 400 mg/day	High-protein diet {Atkins low-carbohydrate diet}
high red meat	vegetarians

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}
dietary fiber
Fiber, total dietary
fruit

Human milk oligosaccharides (prebiotic, Holigos, Stachyose)
Lactobacillus plantarum {L. plantarum}
oligosaccharides {oligosaccharides}
Slow digestible carbohydrates. {Low Glycemic}
synthetic disaccharide derivative of lactose {Lactulose}

Sample of Literature Used

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Authors Salyers AA,West SE,Vercellotti JR,Wilkins TD

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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
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