

## Microbiome Information for: Autism

### 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 have found that symptoms and symptom severity has strong associations to the microbiome for many conditions. Correcting the microbiome dysfunction is believed 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 is 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

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## Bacteria being reported because of atypical values.

These bacteria were reported atypical in studies of Autism

**Nota Benia:** 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	Leptotrichia	genus	High	32067
Bacilli	class	High	91061	Megamonas	genus	High	158846
Bacteroidia	class	High	200643	Megasphaera	genus	High	906
Clostridia	class	High	186801	Moryella	genus	Low	437755
Deinococci	class	Low	188787	Odoribacter	genus	High	283168
Fusobacteria	class	Low	203490	Oscillospira	genus	High	119852
Holophagae	class	Low	533205	Paraprevotella	genus	Low	577309
Mollicutes	class	Low	31969	Parasutterella	genus	Low	577310
Negativicutes	class	Low	909932	Peptostreptococcus	genus	High	1257
Terriglobia	class	High	204432	Phascolarctobacterium	genus	High	33024
Acidaminococcaceae	family	Low	909930	Phyllobacterium	genus	High	28100
Alcaligenaceae	family	High	506	Prevotella	genus	Low	838
Bacteroidaceae	family	High	815	Pseudomonas	genus	Low	286
Bifidobacteriaceae	family	Low	31953	Ralstonia	genus	High	48736
Eggerthellaceae	family	Low	1643826	Romboutsia	genus	Low	1501226
Enterobacteriaceae	family	High	543	Rothia	genus	High	508215
Erysipelotrichaceae	family	High	128827	Ruminiclostridium	genus	High	1508657
Eubacteriaceae	family	High	186806	Ruminococcus	genus	High	1263
Lachnospiraceae	family	Low	186803	Saccharomyces	genus	High	4930
Lactobacillaceae	family	High	33958	Sarcina	genus	High	1266
Methylobacteriaceae	family	High	119045	Staphylococcus	genus	High	1279
Moraxellaceae	family	High	468	Streptococcus	genus	Low	1301
Oscillospiraceae	family	High	216572	Sutterella	genus	High	40544
Pasteurellaceae	family	High	712	Tannerella	genus	Low	195950
Rikenellaceae	family	High	171550	Turicibacter	genus	High	191303
Sutterellaceae	family	High	995019	Tyzzerella	genus	Low	1506577
Veillonellaceae	family	Low	31977	Veillonella	genus	Low	29465
Acinetobacter	genus	High	469	Weissella	genus	Low	46255
Actinobacillus	genus	High	713	Lachnospiraceae incertae sedis	no rank	High	2840493
Actinomyces	genus	High	1654	Bacteroidales	order	Low	171549
Aggregatibacter	genus	High	416916	Bifidobacteriales	order	Low	85004
Akkermansia	genus	Low	239934	Eubacteriales	order	High	186802
Alistipes	genus	Low	239759	Selenomonadales	order	Low	909929
Amphibacillus	genus	High	29331	Victivallales	order	High	278082
Anaerococcus	genus	High	165779	[Clostridium] leptum	species	Low	1535
Anaerostipes	genus	Low	207244	[Eubacterium] siraicum	species	Low	39492
Anaerotruncus	genus	Low	244127	[Ruminococcus] lactaris	species	Low	46228
Aspergillus	genus	High	5052	[Ruminococcus] torques	species	High	33039
Bacillus	genus	High	1386	Acinetobacter johnsonii	species	High	40214
Bacillus	genus	High	55087	Acinetobacter rhizosphaerae	species	High	243922
Bacteroides	genus	High	816				

Bacteria Name	Rank	Shift	Taxonomy ID	Bacteria Name	Rank	Shift	Taxonomy ID
Barnesiella	genus	High	397864	Adlercreutzia equolifaciens	species	High	446660
Bifidobacterium	genus	Low	1678	Agathobacter rectalis	species	Low	39491
Bilophila	genus	Low	35832	Akkermansia muciniphila	species	Low	239935
Blautia	genus	Low	572511	Alistipes putredinis	species	Low	28117
Borrelia	genus	High	138	Anaerostipes caccae	species	High	105841
Burkholderia	genus	High	32008	Bacteroides sp.	species	Low	29523
Butyricicoccus	genus	Low	580596	Bifidobacterium adolescentis	species	Low	1680
Butyricimonas	genus	High	574697	Bifidobacterium longum	species	Low	216816
Caloramator	genus	High	44258	Butyricoccus pullicaeorum	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	Clostridioides difficile	species	High	1496
Chlamydia	genus	High	810	Clostridium botulinum	species	High	1491
Chloracidobacterium	genus	Low	458032	Clostridium perfringens	species	High	1502
Chryseobacterium	genus	High	59732	Coraliomargarita akajimensis	species	Low	395922
Clostridium	genus	High	1485	Desulfovibrio intestinalis	species	High	58621
Collinsella	genus	High	102106	Desulfovibrio piger	species	High	901
Coprobacter	genus	High	1348911	Dialister invisus	species	Low	218538
Coprococcus	genus	Low	33042	Eggerthella lenta	species	High	84112
Corynebacterium	genus	High	1716	Enterobacter cloacae	species	Low	550
Desulfovibrio	genus	High	872	Enterocloster bolteae	species	High	208479
Devosia	genus	Low	46913	Enterocloster clostridioformis	species	High	1531
Dialister	genus	Low	39948	Enterococcus faecalis	species	Low	1351
Dorea	genus	High	189330	Enterococcus gallinarum	species	Low	1353
Eggerthella	genus	High	84111	Escherichia coli	species	Low	562
Eisenbergiella	genus	Low	1432051	Faecalibacterium prausnitzii	species	Low	853
Enhydrobacter	genus	High	212791	Haemophilus parainfluenzae	species	Low	729
Enterobacter	genus	High	547	Hathewaya histolytica	species	High	1498
Enterococcus	genus	Low	1350	Intestinibacter bartlettii	species	High	261299
Escherichia	genus	Low	561	Klebsiella pneumoniae	species	High	573
Eubacterium	genus	Low	1730	Lachnospira eligens	species	Low	39485
Ezakiella	genus	Low	1582879	Lacticaseibacillus rhamnosus	species	Low	47715
Faecalibacterium	genus	High	216851	Lactiplantibacillus plantarum	species	Low	1590
Faecalibaculum	genus	Low	1729679	Limosilactobacillus reuteri	species	Low	1598
Filifactor	genus	High	44259	Mediterraneibacter ghavus	species	High	33038
Flavonifractor	genus	Low	946234	Mycoplasmodies pneumoniae	species	High	2104
Fusobacterium	genus	High	848	Parabacteroides distasonis	species	Low	823
Haemophilus	genus	Low	724	Phocaeicola vulgatus	species	High	821
Holdemanella	genus	High	1573535	Prevotella sp.	species	Low	59823
Intestinibacter	genus	High	1505657	Proteus mirabilis	species	Low	584
Klebsiella	genus	High	570	Romboutsia ilealis	species	High	1115758
Lachnoclostridium	genus	High	1506553	Ruminiclostridium cellulolyticum	species	High	1521
Lachnospira	genus	Low	28050	Spirochaeta thermophila	species	Low	154
Lactobacillus	genus	High	1578	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.

Ethyl alcohol {Grain alcohol}

high red meat

Ferrum {Iron Supplements} 400 mg/day

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}  
fruit

Lactobacillus plantarum {L. plantarum}  
oligosaccharides {oligosaccharides}  
synthetic disaccharide derivative of lactose {Lactulose}

## Sample of Literature Used

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

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Addison's Disease (hypocortisolism)

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Age-Related Macular Degeneration and Glaucoma

Allergic Rhinitis (Hay Fever)

Allergies

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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  
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**