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

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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'**

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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
Alphaproteobacteria	*class*	High	*28211*
Bacilli	*class*	High	*91061*
Bacteroidia	*class*	High	*200643*
Clostridia	*class*	High	*186801*
Deinococci	*class*	Low	*188787*
Fusobacteriia	*class*	Low	*203490*
Holophagae	*class*	Low	*533205*
Mollicutes	*class*	Low	*31969*
Negativicutes	*class*	Low	*909932*
Terriglobia	*class*	High	*204432*
Acidaminococcaceae	*family*	Low	*909930*
Alcaligenaceae	*family*	High	*506*
Bacteroidaceae	*family*	High	*815*
Bifidobacteriaceae	*family*	Low	*31953*
Eggerthellaceae	*family*	Low	*1643826*
Enterobacteriaceae	*family*	High	*543*
Erysipelotrichaceae	*family*	High	*128827*
Eubacteriaceae	*family*	High	*186806*
Lachnospiraceae	*family*	Low	*186803*
Lactobacillaceae	*family*	High	*33958*
Methylobacteriaceae	*family*	High	*119045*
Moraxellaceae	*family*	High	*468*
Oscillospiraceae	*family*	High	*216572*
Pasteurellaceae	*family*	High	*712*
Rikenellaceae	*family*	High	*171550*
Sutterellaceae	*family*	High	*995019*
Veillonellaceae	*family*	Low	*31977*
Acinetobacter	*genus*	High	*469*
Actinobacillus	*genus*	High	*713*
Actinomyces	*genus*	High	*1654*
Aggregatibacter	*genus*	High	*416916*
Akkermansia	*genus*	Low	*239934*
Alistipes	*genus*	Low	*239759*
Amphibacillus	*genus*	High	*29331*
Anaerococcus	*genus*	High	*165779*
Anaerostipes	*genus*	Low	*207244*
Anaerotruncus	*genus*	Low	*244127*
Aspergillus	*genus*	High	*5052*
Bacillus	*genus*	High	*1386*
Bacillus	*genus*	High	*55087*
Bacteroides	*genus*	High	*816*
Leptotrichia	*genus*	High	*32067*
Megamonas	*genus*	High	*158846*
Megasphaera	*genus*	High	*906*
Moryella	*genus*	Low	*437755*
Odoribacter	*genus*	High	*283168*
Oscillospira	*genus*	High	*119852*
Paraprevotella	*genus*	Low	*577309*
Parasutterella	*genus*	Low	*577310*
Peptostreptococcus	*genus*	High	*1257*
Phascolarctobacterium	*genus*	High	*33024*
Phyllobacterium	*genus*	High	*28100*
Prevotella	*genus*	Low	*838*
Pseudomonas	*genus*	Low	*286*
Ralstonia	*genus*	High	*48736*
Romboutsia	*genus*	Low	*1501226*
Rothia	*genus*	High	*508215*
Ruminiclostridium	*genus*	High	*1508657*
Ruminococcus	*genus*	High	*1263*
Saccharomyces	*genus*	High	*4930*
Sarcina	*genus*	High	*1266*
Staphylococcus	*genus*	High	*1279*
Streptococcus	*genus*	Low	*1301*
Sutterella	*genus*	High	*40544*
Tannerella	*genus*	Low	*195950*
Turicibacter	*genus*	High	*191303*
Tyzzerella	*genus*	Low	*1506577*
Veillonella	*genus*	Low	*29465*
Weissella	*genus*	Low	*46255*
Lachnospiraceae incertae sedis	*no rank*	High	*2840493*
Bacteroidales	*order*	Low	*171549*
Bifidobacteriales	*order*	Low	*85004*
Eubacteriales	*order*	High	*186802*
Selenomonadales	*order*	Low	*909929*
Victivallales	*order*	High	*278082*
[Clostridium] leptum	*species*	Low	*1535*
[Eubacterium] siraeum	*species*	Low	*39492*
[Ruminococcus] lactaris	*species*	Low	*46228*
[Ruminococcus] torques	*species*	High	*33039*
Acinetobacter johnsonii	*species*	High	*40214*
Acinetobacter rhizosphaerae	*species*	High	*243922*

Bacteria Name	Rank	Shift	Taxonomy ID
Barnesiella	*genus*	High	*397864*
Bifidobacterium	*genus*	Low	*1678*
Bilophila	*genus*	Low	*35832*
Blautia	*genus*	Low	*572511*
Borrelia	*genus*	High	*138*
Burkholderia	*genus*	High	*32008*
Butyricicoccus	*genus*	Low	*580596*
Butyricimonas	*genus*	High	*574697*
Caloramator	*genus*	High	*44258*
Candida	*genus*	High	*5475*
Candida	*genus*	High	*1535326*
Catenibacterium	*genus*	High	*135858*
Cetobacterium	*genus*	High	*180162*
Chlamydia	*genus*	High	*810*
Chloracidobacterium	*genus*	Low	*458032*
Chryseobacterium	*genus*	High	*59732*
Clostridium	*genus*	High	*1485*
Collinsella	*genus*	High	*102106*
Coprobacter	*genus*	High	*1348911*
Coprococcus	*genus*	Low	*33042*
Corynebacterium	*genus*	High	*1716*
Desulfovibrio	*genus*	High	*872*
Devosia	*genus*	Low	*46913*
Dialister	*genus*	Low	*39948*
Dorea	*genus*	High	*189330*
Eggerthella	*genus*	High	*84111*
Eisenbergiella	*genus*	Low	*1432051*
Enhydrobacter	*genus*	High	*212791*
Enterobacter	*genus*	High	*547*
Enterococcus	*genus*	Low	*1350*
Escherichia	*genus*	Low	*561*
Eubacterium	*genus*	Low	*1730*
Ezakiella	*genus*	Low	*1582879*
Faecalibacterium	*genus*	High	*216851*
Faecalibaculum	*genus*	Low	*1729679*
Filifactor	*genus*	High	*44259*
Flavonifractor	*genus*	Low	*946234*
Fusobacterium	*genus*	High	*848*
Haemophilus	*genus*	Low	*724*
Holdemanella	*genus*	High	*1573535*
Intestinibacter	*genus*	High	*1505657*
Klebsiella	*genus*	High	*570*
Lachnoclostridium	*genus*	High	*1506553*
Lachnospira	*genus*	Low	*28050*
Lactobacillus	*genus*	High	*1578*

Bacteria Name	Rank	Shift	Taxonomy ID
Adlercreutzia equolifaciens	*species*	High	*446660*
Agathobacter rectalis	*species*	Low	*39491*
Akkermansia muciniphila	*species*	Low	*239935*
Alistipes putredinis	*species*	Low	*28117*
Anaerostipes caccae	*species*	High	*105841*
Bacteroides sp.	*species*	Low	*29523*
Bifidobacterium adolescentis	*species*	Low	*1680*
Bifidobacterium longum	*species*	Low	*216816*
Butyricicoccus pullicaecorum	*species*	Low	*501571*
Campylobacter jejuni	*species*	Low	*197*
Candida albicans	*species*	High	*5476*
Chloracidobacterium thermophilum	*species*	Low	*458033*
Clostridioides difficile	*species*	High	*1496*
Clostridium botulinum	*species*	High	*1491*
Clostridium perfringens	*species*	High	*1502*
Coraliomargarita akajimensis	*species*	Low	*395922*
Desulfovibrio intestinalis	*species*	High	*58621*
Desulfovibrio piger	*species*	High	*901*
Dialister invisus	*species*	Low	*218538*
Eggerthella lenta	*species*	High	*84112*
Enterobacter cloacae	*species*	Low	*550*
Enterocloster bolteae	*species*	High	*208479*
Enterocloster clostridioformis	*species*	High	*1531*
Enterococcus faecalis	*species*	Low	*1351*
Enterococcus gallinarum	*species*	Low	*1353*
Escherichia coli	*species*	Low	*562*
Faecalibacterium prausnitzii	*species*	Low	*853*
Haemophilus parainfluenzae	*species*	Low	*729*
Hathewaya histolytica	*species*	High	*1498*
Intestinibacter bartlettii	*species*	High	*261299*
Klebsiella pneumoniae	*species*	High	*573*
Lachnospira eligens	*species*	Low	*39485*
Lacticaseibacillus rhamnosus	*species*	Low	*47715*
Lactiplantibacillus plantarum	*species*	Low	*1590*
Limosilactobacillus reuteri	*species*	Low	*1598*
Mediterraneibacter gnavus	*species*	High	*33038*
Mycoplasmoides pneumoniae	*species*	High	*2104*
Parabacteroides distasonis	*species*	Low	*823*
Phocaeicola vulgatus	*species*	High	*821*
Prevotella sp.	*species*	Low	*59823*
Proteus mirabilis	*species*	Low	*584*
Romboutsia ilealis	*species*	High	*1115758*
Ruminiclostridium cellulolyticum	*species*	High	*1521*
Spirochaeta thermophila	*species*	Low	*154*
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}
Ferrum {Iron Supplements} 400 mg/day
high red meat
high-fat diets
High-protein diet {Atkins low-carbohydrate diet}
vegetarians

Substance to Consider Reducing or Eliminating

These are the most signigicant 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
Lactobacillus plantarum {L. plantarum}
oligosaccharides {oligosaccharides}
Slow digestible carbohydrates. {Low Glycemic}
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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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
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