

Microbiome Information for: Intelligence

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 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

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

892 Lake Samish Rd, Bellingham WA 98229
Email: Research@MicrobiomePrescription.com

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Bacteria being reported because of atypical values.

These bacteria were reported atypical in studies of Intelligence

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
Burkholderiaceae	family High	119060	Oscillibacter	genus Low	459786
Coriobacteriaceae	family Low	84107	Oscillospira	genus High	119852
Corynebacteriaceae	family High	1653	Oxalobacter	genus Low	846
Lachnospiraceae	family High	186803	Prevotella	genus Low	838
Oscillospiraceae	family High	216572	Subdoligranulum	genus Low	292632
Porphyromonadaceae	family Low	171551	Sutterella	genus Low	40544
Prevotellaceae	family Low	171552	Bacteroides uniformis	species High	820
Borrelia	genus Low	138	Escherichia coli	species High	562
Catenibacterium	genus Low	135858	Faecalibacterium prausnitzii	species Low	853
Clostridium	genus High	1485	Haemophilus influenzae	species Low	727
Coprococcus	genus High	33042	Ruminococcus callidus	species High	40519
Dialister	genus Low	39948	Segatella copri	species Low	165179
Fusicatenibacter	genus High	1407607	Streptococcus thermophilus	species High	1308
			Veillonella dispar	species High	39778

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.

(2->1)-beta-D-fructofuranan {Inulin}	32 gram/day	High-protein diet {Atkins low-carbohydrate diet}
2-(3,4-Dihydroxyphenyl)-3,7-dihydroxychromen-4-one {Fisetin}	20 mg/day	Hordeum vulgare {Barley} 60 gram/day
2H-1?6,2-benzothiazol-1,1,3-trione {Saccharin}	450 mg/day	Limosilactobacillus reuteri {L Reuteri} 22 BCFU/day
Amylum {Starch}		nicotinic acid {Vitamin B-3} 3000 mg/day
Avena sativa x Hordeum vulgare {barley,oat}		pectin {pectin}
bifidobacterium longum {B.Longum }	10 BCFU/day	Quercetin-3-O-rutinoside {Rutin} 60 mg/day
cholic,taurocholic ,chenodeoxycholic,glycocholic acids {Bile supplements}		resistant starch
Cichorium intybus {Chicory}	1800 mg/day	Sodium Chloride {Salt}
D-ribofuranoside {Ribose}	10 gram/day	Under cookded animal protein {Rare meat}
eicosapentaenoic acid (EPA),docosahexaenoic acid (DHA) {Fish Oil}	4 gram/day	vegetable
Ferrum {Iron Supplements}	400 mg/day	Vsl#3 {Visibiome}
high red meat		wheat
high-fat diets		whole-grain diet

Retail Probiotics

Over 260 retail probiotics were evaluated with the following deemed beneficial with no known adverse risks.

Bromatech (IT) / Rotanelle plus
Swiss BioEnergetics / Full Spectrum Probiotic Defence
SuperSmart / Oral Health
Bioflora(MX) / Woman
Ombre / Metabolic Booster
Bromatech (IT) / Serobiome
blackmores (au) / probiotics+ immune defence
optibac / for women
jarrow formulas / fem-dophilus®
nature's way (au) / restore probiotic 30 billion 30s
SuperSmart / H. Pylori Fight
BioGaia / BioGaia Osfortis
naturopathica (au)/ gastrohealth probiotic daily care
blackmore (au) / probiotics+ daily health
Bulk Probiotics / L Reuteri Probiotic Powder
PrecisionBiotics / Immune
Maple Life Science™ / Lactobacillus reuteri
Genesis Bifidobacterium Complex BB Probiotic
spain (es) / gum periobalance
cytoplan(uk) /dentavital bifidophilus
CustomProbiotics.com / B. Longum Probiotic Powder
naturopathica (au) / gastrohealth women's probiotic with cranberry
jarrow formulas / jarro-dophilus mood
blackmore (au) / probiotics+ bowel support
CustomProbiotics.com / L. Reuteri Probiotic Powder
Probiotic Sticks
PharmExtracta (IT) / Gliadines buccal stickpacks
RepHresh /Pro-B Probiotic Supplement for Women
Sanogermina / AB-Kolicare
Maple Life Science™ / Bifidobacterium longum
blackmores (au) / probiotics + adults daily (90 capsules)
Metabolics / Bifidobacterium Longum Powder
Bulk Probiotics / B. Longum Probiotic Powder
nature's way (au) / restore probiotic daily health 90s
Botica Alternativa / Lactobacilos Reuteri
Seeking Health / Probiota Bifidobacterium
align / align
jarrow formulas / fem dophilus
jarrow formulas / bifidus balance® + fos
JGL / Lactogyn
Align® Extra Strength
HLH BIOPHARMA(DE) / LACTOBACT ® AAD
naturopathica (au) / gastrohealth probiotic adults 50+
Schwabe Pharma Italia / MegaStress
Bromatech (IT) / Psicobrain
spain (es) / aquilea intimus
PrecisionBiotics / Zenflore
PharmExtracta / Bowell
Ombre / Restore
spain (es) / gastrus
jamieson (can) / probiotic 10 bcfu
Bromatech (IT) / Lautoselle
Align / Align® Chewables
custom probiotics / d-lactate free probiotics powder

naturopathica (au) / gastrohealth fibrepro
blackmore (au) / probiotics+ eczema relief
Schwabe Pharma Italia / EnteroDophilus
Microbiome Labs / MEGA Genesis
bravo europe / starter and complex
optibac / for every day
spain (es) / reuteri gotas
Bromatech (IT) / Bifiselle
BioGaia / BioGaia Products
custom probiotics / five strain bifidobacteria
blackmore (au) / probiotics+ womens flora balance
SuperSmart / Lactobacillus reuteri
Microbiome Plus+™ Gastrointestinal
Microbiome Labs / ZENBIOME Dual
canada (ca) / calmbiotic
klaire labs / ther-biotic factor 4
InnovixLabs / Mood Probiotic
PoolPharma (IT) / ProbioTKMIO
spain (es) / casenbiotic
CVSHealth / Daily Probiotic

Note: Some of these are only available regionally – search the web for sources.

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}	meropenem
3,4-dihydroxyphenyllactic acid {Rosmarinic acid}	Metha family {Mint}
amikacin	Nigella sativa {black cumin}
amoxicillin [CFS]	norfloxacin
Avena sativa {Oats}	Ocimum basilicum {Basil}
azithromycin,[CFS]	Ocimum gratissimum {Clove basil}
bacillus subtilis natto {B.natto}	ofloxacin
Camellia Linnaeus {camellia}	oligosaccharides {oligosaccharides}
Cannabis sativa {Marijuana}	origanum vulgare {oregano}
cefotaxime sodium salt (antibiotic)	Phaseolus vulgaris {Boston bean}
ceftazidime	piperacillin-tazobactam
Cinnamomum zeylanicum {Ceylon Cinnamon}	polyphenols
ciprofloxacin [CFS]	Propolis {Bee glue}
Citrus limon {Lemon}	Punica granatum {pomegranate}
clindamycin [CFS]	red wine
cranberry bean flour	resveratrol-pterostilbene {grapes, blueberries}
D(-)-Fructose {Fruit sugar}	resveratrol-pterostilbene x Quercetin {quercetin x resveratrol}
eugenol {Eugenic acid}	Riboflavin {Vitamin B2}
Fiber, total dietary	rifaximin
fruit	rosmarinus officinalis {rosemary}
gatifloxacin (antibiotic)	Salvia officinalis {Sage}
gentamicin	Silver nanoparticles {Colloidal silver}
green tea	Slow digestible carbohydrates. {Low Glycemic}
imipenem	β (1:24)-linked D-glucosamine and N-acetyl-D-glucosamine {Chitosan}
Lacticaseibacillus casei {L. casei}	Sulforaphane {Dark Greens}
Lactobacillus gasseri {L.gasseri}	syzygium aromaticum {clove}
Lactobacillus plantarum {L. plantarum}	Thymus vulgaris {thyme}
Lavandula angustifolia {lavender}	trimethoprim
linezolid (antibiotic)	vancomycin (antibiotic)[CFS]
	Zingiber officinale Roscoe {ginger}

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

cdk15 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-Hactic 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