

Microbiome Information for: Parkinson's Disease

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 Parkinson's Disease

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
Actinomycetes	class	Low	1760	Proteus	genus	High	210425
Bacteroidia	class	Low	200643	Pseudobutyrvibrio	genus	Low	46205
Akkermansiaceae	family	High	1647988	Ralstonia	genus	High	48736
Barnesiellaceae	family	High	2005519	Roseburia	genus	Low	841
Bifidobacteriaceae	family	High	31953	Ruminiclostridium	genus	Low	1508657
Carnobacteriaceae	family	High	186828	Ruminococcus	genus	Low	1263
Christensenellaceae	family	High	990719	Sellimonas	genus	High	1769710
Coriobacteriaceae	family	High	84107	Senegalimassilia	genus	High	1473205
Desulfovibrionaceae	family	High	194924	Serratia	genus	Low	613
Enterobacteriaceae	family	High	543	Shigella	genus	High	620
Enterococcaceae	family	High	81852	Sphingomonas	genus	High	13687
Erysipelotrichaceae	family	Low	128827	Sporobacter	genus	High	44748
Flavobacteriaceae	family	High	49546	Staphylococcus	genus	High	1279
Helicobacteraceae	family	Low	72293	Streptococcus	genus	High	1301
Lachnospiraceae	family	Low	186803	Turicibacter	genus	High	191303
Lactobacillaceae	family	High	33958	Veillonella	genus	Low	29465
Moraxellaceae	family	High	468	Victivallis	genus	High	172900
Nitrobacteraceae	family	High	41294	Coriobacteriales	order	Low	84999
Oscillospiraceae	family	High	216572	Marinilabiliales	order	High	1970189
Pasteurellaceae	family	Low	712	[Clostridium] leptum	species	Low	1535
Porphyromonadaceae	family	High	171551	[Ruminococcus] torques	species	High	33039
Prevotellaceae	family	Low	171552	Actinomyces oris	species	High	544580
Rikenellaceae	family	High	171550	Agathobacter rectalis	species	Low	39491
Ruminococcaceae	family	High	541000	Akkermansia muciniphila	species	High	239935
Staphylococcaceae	family	High	90964	Alistipes communis	species	High	2585118
Streptococcaceae	family	High	1300	Alistipes ihumii	species	High	1470347
Sutterellaceae	family	High	995019	Alistipes shahii	species	High	328814
Synergistaceae	family	High	649777	Anaerostipes hadrus	species	Low	649756
Tissierellaceae	family	High	1737406	Bacteroides fragilis	species	High	817
Veillonellaceae	family	High	31977	Bifidobacterium bifidum	species	Low	1681
Verrucomicrobiaceae	family	High	203557	Bifidobacterium dentium	species	High	1689
Acidaminococcus	genus	High	904	Bifidobacterium longum	species	High	216816
Acinetobacter	genus	High	469	Blautia coccoides	species	Low	1532
Aerococcus	genus	High	1375	Blautia glucerasea	species	Low	536633
Agathobacter	genus	Low	1766253	Blautia obeum	species	High	40520
Akkermansia	genus	High	239934	Blautia producta	species	High	33035
Alistipes	genus	High	239759	Blautia wexlerae	species	Low	418240
Anaerobutyricum	genus	Low	2569097	Bordetella pertussis	species	High	520
Anaerostipes	genus	Low	207244	Christensenella minuta	species	High	626937
Anaerotruncus	genus	High	244127	Clostridioides difficile	species	High	1496
Aquabacterium	genus	High	92793	Clostridium sporogenes	species	High	1509

Bacteria Name	Rank	Shift	Taxonomy ID	Bacteria Name	Rank	Shift	Taxonomy ID
Aspergillus	genus	High	5052	Collinsella aerofaciens	species	High	74426
Bifidobacterium	genus	High	1678	Coprococcus eutactus	species	Low	33043
Bilophila	genus	High	35832	Dorea longicatena	species	High	88431
Blautia	genus	Low	572511	Enterobacter cloacae	species	High	550
Butyricimonas	genus	High	574697	Enterocloster asparagiformis	species	High	333367
Butyrivibrio	genus	High	830	Escherichia coli	species	High	562
Candida	genus	High	5475	Eubacterium xylanophilum	species	High	39497
Catabacter	genus	High	270497	Faecalibacterium prausnitzii	species	Low	853
Catenisphaera	genus	High	1774107	Gemmiger formicilis	species	High	745368
Christensenella	genus	High	990721	Gordonibacter pamelaee	species	High	471189
Cloacibacillus	genus	High	508459	Helicobacter pylori	species	High	210
Clostridium	genus	High	1485	Holdemanella biformis	species	High	1735
Coprococcus	genus	Low	33042	Holdemania filiformis	species	High	61171
Desulfovibrio	genus	High	872	Intestinimonas butyriciproducens	species	High	1297617
Dorea	genus	Low	189330	Intestinimonas sp.	species	High	1965293
Eggerthella	genus	High	84111	Klebsiella pneumoniae	species	High	573
Enterococcus	genus	High	1350	Klebsiella quasipneumoniae	species	High	1463165
Erysipelatoclostridium	genus	Low	1505663	Klebsiella variicola	species	High	244366
Escherichia	genus	High	561	Lacrimispora saccharolytica	species	Low	84030
Eubacterium	genus	Low	1730	Lactococcus garvieae	species	High	1363
Faecalibacterium	genus	Low	216851	Lancefieldella parvula	species	Low	1382
Flavonifractor	genus	High	946234	Ligilactobacillus salivarius	species	High	1624
Fusicatenibacter	genus	Low	1407607	Limosilactobacillus reuteri	species	Low	1598
Fusobacterium	genus	Low	848	Malassezia restricta	species	Low	76775
Granulicatella	genus	High	117563	Mediterraneibacter gnavus	species	Low	33038
Holdemania	genus	High	61170	Mesorhizobium loti	species	High	381
Hungatella	genus	High	1649459	Morganella morganii	species	Low	582
Intestinibacter	genus	High	1505657	Papillibacter cinnamivorans	species	High	100176
Intestinimonas	genus	High	1392389	Paraprevotella clara	species	High	454154
Klebsiella	genus	High	570	Porphyromonas asaccharolytica	species	High	28123
Lachnospira	genus	Low	28050	Porphyromonas gingivalis	species	High	837
Lactobacillus	genus	High	1578	Proteus mirabilis	species	High	584
Lactococcus	genus	Low	1357	Roseburia faecis	species	High	301302
Megamonas	genus	High	158846	Roseburia intestinalis	species	Low	166486
Megasphaera	genus	High	906	Ruminococcus callidus	species	Low	40519
Methanobrevibacter	genus	High	2172	Ruminococcus gauvreauii	species	Low	438033
Odoribacter	genus	High	283168	Saccharomyces cerevisiae	species	High	4932
Oscillospira	genus	High	119852	Salmonella enterica	species	High	28901
Parabacteroides	genus	High	375288	Segatella copri	species	Low	165179
Paraprevotella	genus	Low	577309	Sphingobacterium spiritivorum	species	High	258
Peptoclostridium	genus	High	1481960	Streptococcus anginosus	species	High	1328
Phascolarctobacterium	genus	High	33024	Streptococcus equinus	species	High	1335
Porphyromonas	genus	High	836	Streptococcus lutetiensis	species	High	150055
Prevotella	genus	Low	838	Streptococcus mutans	species	High	1309
Proteus	genus	High	583	Streptococcus salivarius	species	High	1304
				Thomasclavelia ramosa	species	Low	1547

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

Abstention from eating {Fasting}

Bifidobacterium animalis subsp. lactis {B. Lactis} 1 BCFU/day

Dendrobium officinale Kimura {Tiepishihu}

Epicatechin {Green tea polyphenol}

Fiber, total dietary

fructo-oligosaccharides 15 gram/day

fruit

fruit/legume fibre

Grape Polyphenols {Grape Flavonoids}

grapes

green tea

Human milk oligosaccharides (prebiotic, Holigos, Stachyose) 2

gram/day

ketogenic diet

Lactobacillus plantarum {L. plantarum} 60 BCFU/day

Lycium barbarum x Lycium chinense, {Goji Fruit, Juice}

metformin (prescription)

oligosaccharides {oligosaccharides}

polyphenols 3 gram/day

resveratrol-pterostilbene {grapes, blueberries} 2 gram/day

resveratrol-pterostilbene x Quercetin {quercetin x resveratrol}

Slow digestible carbohydrates. {Low Glycemic}

synthetic disaccharide derivative of lactose {Lactulose}

Retail Probiotics

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

ferring / vsl#3
 optibac / bifidobacteria & fibre
 jarrow formula / ideal bowel support® lp299v®
 jarrow formulas / bifidus balance® + fos
 Bio Schwartz / Advance Strength Probiotics (40 BCFU)
 blackmores (au) / probiotics+ immune defence
 HMF Metabolic
 naturopathica (au) / gastrohealth probiotic dairy free 20 bcfu
 quality health(au)/ fridge free probiotic 25b
 nature's way (au) / restore probiotic daily health 90s
 nature's way (au) / restore probiotic 30 billion 30s
 blackmores (au) / probiotics + adults daily (90 capsules)
 Immune Defense Daily Chewable Probiotic
 Nature's Lab Cardio
 Purica Probiotic Cardio
 Symprove™
 UltraFlora® Control
 UltraFlora® Immune Booster
 UltraFlora® Intensive Care
 Maple Life Science™ / Lactobacillus plantarum
 Maple Life Science™ / Bifidobacterium Animalis
 Bulk Probiotics / L. Plantarum Probiotic Powder
 blackmore (au) / probiotics+ bowel support
 blackmore (au) / probiotics+ eczema relief
 blackmore (au) / probiotics+ daily health
 CustomProbiotics.com / L. Plantarum Probiotic Powder
 HLH BIOPHARMA(DE) / LACTOBACT ® FORTE
 HLH BIOPHARMA(DE) / LACTOBACT ® LDL-CONTROL
 NaturalPharma / Profit Probiotics
 Nutrition Essentials / Probiotic (900 BCFU)
 Metabolics / Lactobacillus Plantarum Powder
 ImmuneBiotech Medical Sweden AB / GutMagnific®
 Bromatech (IT) / Adomelle
 Optibac Probiotics / Bifidobacterium lactis HN019
 Resbiotic / resB® Lung Support
 SuperSmart / Candalb
 SuperSmart / Lactobacillus Plantarum Postbiotic (Pasturized)
 ISCON Elegance/ Ochek Capsule 10
 Bromatech(IT) / FEMELLE
 Floradapt Cardio
 FloraVantage® Balance
 FloraVantage® Control
 HMF Forte
 HMF IBS Relief
 HMF Intensive
 naturopathica (au) / gastrohealth fibrepro
 custom probiotics / four strain lactobacilli
 custom probiotics / six strain probiotic powder
 up4 / women's
 biospec / probiotio-5
 zint nutrition / probiotic collagen +
 spain (es) / profaes4 viajeros
 spain (es) / ns defenbiotic kids
 spain (es) / profaes4 edad escolar

Activia®

genestra brands® hm

goodbelly drink

optibac / for every day max

optibac / for your cholesterol

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-aminoacetic acid {glycine}	pediococcus acidilactic {RBB9 PEDIOCOCCUS ACIDILACTI}
amoxicillin [CFS]	Pentahydroxypentane {Xylitol}
bifidobacterium longum {B.Longum }	Propolis {Bee glue}
Capsicum annuum {Peppers} {Cayenne Pepper, Hot Pepper}	Rheum × hybridum {Rhubarb}
Disodium fumarate {Fumaric acid disodium salt}	Saccharomyces cerevisiae var boulardii {S. boulardii}
Ferrum {Iron Supplements}	Salvia hispanica {Chia Seeds}
Heridium erinaceus {Lion's Mane Mushroom }	Sodium alginate
high-fat diets	Sus domesticus {Pork}
Humulus lupulus compound {Xanthohumol}	Theobroma cacao {Cacao}
Lactocaseibacillus casei {L. casei}	Thymus vulgaris {thyme}
lactobacillus rhamnosus gg	Traditional Mediterranean diet {Mediterranean diet}
low protein diet	walnuts
Moringa Oleifera	wheat

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
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