

## Microbiome Information for: Amyotrophic lateral sclerosis (ALS) Motor Neuron

### 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 *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/>)

Thome (<https://www.thome.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](mailto:Research@MicrobiomePrescription.com)

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## Bacteria being reported because of atypical values.

These bacteria were reported atypical in studies of Amyotrophic lateral sclerosis (ALS) Motor Neuron

*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
Bacteroidia	class	High	200643	Intestinimonas	genus	High	1392389
Hungateiclostridiaceae	family	High	2304686	Kineothrix	genus	High	2163168
Lachnospiraceae	family	Low	186803	Lactobacillus	genus	High	1578
Porphyromonadaceae	family	High	171551	Malassezia	genus	High	55193
Prevotellaceae	family	High	171552	Mannheimia	genus	High	75984
Ruminococcaceae	family	High	541000	Megamonas	genus	Low	158846
Streptococcaceae	family	High	1300	Odoribacter	genus	High	283168
Succinivibrionaceae	family	Low	83763	Oscillibacter	genus	High	459786
Veillonellaceae	family	Low	31977	Parasutterella	genus	Low	577310
Akkermansia	genus	High	239934	Peptostreptococcus	genus	Low	1257
Anaerostipes	genus	High	207244	Pseudoflavonifractor	genus	High	1017280
Anaerotruncus	genus	High	244127	Ruminiclostridium	genus	High	1508657
Bifidobacterium	genus	High	1678	Ruminococcus	genus	Low	1263
Butyrivibrio	genus	High	830	Shigella	genus	High	620
Candida	genus	High	5475	Sporobacter	genus	High	44748
Citrobacter	genus	High	544	Candidatus Gastranaerophilales	order	High	1906119
Coprococcus	genus	High	33042	Akkermansia muciniphila	species	High	239935
Cryptococcus	genus	High	5206	Bacteroides fragilis	species	High	817
Dorea	genus	High	189330	Butyrivibrio fibrisolvens	species	Low	831
Eisenbergiella	genus	High	1432051	Cronobacter sakazakii	species	High	28141
Escherichia	genus	High	561	Escherichia coli	species	Low	562
Eubacterium	genus	Low	1730	Faecalibacterium prausnitzii	species	High	853
Fusarium	genus	High	5506	Lachnospira eligens	species	High	39485

## 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

bacillus subtilis {B.Subtilis } 10 BCFU/day

dietary fiber

Fiber, total dietary

fructo-oligosaccharides 15 gram/day

fruit

fruit/legume fibre

High-fibre diet {Whole food diet}

Hordeum vulgare {Barley} 60 gram/day

Lactobacillus plantarum {L. plantarum} 60 BCFU/day

oligosaccharides {oligosaccharides}

pectin {pectin}

polyphenols 3 gram/day

Slow digestible carbohydrates. {Low Glycemic}

β-glucan {Beta-Glucan} 500 mg/day

whole-grain diet

## Retail Probiotics

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

Global Healing Center / FloraTrex  
 Realdose  
 jarrow formulas / bifidus balance® + fos  
 garden of life / primal defense  
 theramedix / probiotic  
 probiotic pur (de) / realdose nutrition  
 jarrow formula / ideal bowel support® lp299v®  
 Physician Choice / 60 Billion Probiotics  
 naturopathica (au) / gastrohealth probiotic dairy free 20 bcfu  
 Bio Schwartz / Advance Strength Probiotics (40 BCFU)  
 nature's way (au) / restore probiotic bowel & colon health 30s  
 naturopathica (au) / gastrohealth probiotic dairy free 50 billion  
 SuperSmart / Probio Forte  
 organic 3 / gutpro  
 visbiome  
 UltraFlora® Intensive Care  
 OMNI-BIOTIC®/ TRAVEL  
 global health trax / threelac  
 nature's way (au) / restore probiotic 30 billion 30s  
 Law of Nature / Best Days Formula  
 organic 3 / primal gut  
 Floradapt Cardio  
 Physis / Advance Probiotics  
 bio-botanical research / proflo4r restorative probiotic  
 blackmore (au) / probiotics+ daily health  
 Dr. Mercola / Complete Probiotics  
 Garden of Life / Dr. Formulated Once Daily Women's  
 vinco / probiotic eight 65  
 nature's instincts / ultra spore probiotic  
 Purica Probiotic Cardio  
 hyperbiotics / pro-15  
 nature's way (au) / restore probiotic 100 billion  
 seed / male version  
 solaray / microbiome probiotic colon formula  
 Maple Life Science™ / Lactobacillus plantarum  
 lifted naturals / mood boosting probiotic  
 bioglan bio (au) / happy probiotic 50  
 HLH BIOPHARMA(DE) / LACTOBACT ® LDL-CONTROL  
 powerlabs (au) / ultra blend  
 biospec / probiotic-5  
 corebiotic  
 HMF Metabolic  
 blackmores (au) / probiotics+ immune defence  
 CustomProbiotics.com / L. Plantarum Probiotic Powder  
 Ombre / Healthy Gut  
 ISCON Elegance/ Ochek Capsule 10  
 1 md / complete probiotics platinum  
 UltraFlora® Immune Booster  
 Nutrition Essentials / Probiotic (900 BCFU)  
 OMNI-BIOTIC®/ 10 AAD  
 up4 / women's  
 young living / life 9  
 Bromatech (IT) / Adomelle  
 nature's bounty / probioti 10

mwsb / candida yeast support  
microbiome labs/ megasporebiotic  
optibac / bifidobacteria & fibre  
klaire labs / biospora  
SuperSmart / Derma Relief  
fairvital / microflora basic  
Energybalance / ColoBiotica 28 Colon Support  
Wakunaga / Max Probiotic  
MegaFood / MegaFlora  
microbiome labs / hu58  
Invivo / Bio.Me Femme UT  
perfect pass / perfect pass probiotic bacillus spore  
NaturalPharma / Profit Probiotics  
goodbelly drink  
enviromedica terraflora sbo probiotic  
Jetson (US) / Mood Probiotics  
Ombre / Heart Health  
Symprove™  
seed / female version  
jarrow formulas / jarro-dophilus® ultra  
custom probiotics / six strain probiotic powder  
ImmuneBiotech Medical Sweden AB / GutMagnific®  
HLH BIOPHARMA(DE) / LACTOBACT ® 60PLUS  
Next Generation  
Northwest Natural Products / PB8  
Bulk Probiotics / Bacillus Subtilis Probiotic  
Immune Defense Daily Chewable Probiotic  
fürstenmed / lacto-bifido  
Swiss BioEnergetics / Full Spectrum Probiotic Defence  
newrhythm / probiotics 20 stains  
blackmores (au) / probiotics + adults daily (90 capsules)  
Lake Avenue Nutrition / Probiotics 10 Strain Blend  
Windlove Probiotics / Ecologic®825  
ASEA VIA / BIOME  
jarrow formula / jarro-dophilus original  
aor / probiotic-3  
vitamin angels / just thrive  
nature's way (au) / restore probiotic daily health 90s  
Bromatech(IT) / FEMELLE  
HLH BIOPHARMA(DE) / LACTOBACT ® PREMIUM  
SuperSmart / Candalb  
custom probiotics / four strain lactobacilli  
naturopathica (au) / gastrohealth probiotic ultimate daily care 100billion  
udo's choice /super 8 gold  
microbiome labs / restorflora  
zint nutrition / probiotic collagen +  
Smidge / Sensitive Probiotic  
Krauterhaus / Lactopro  
LiveWell Nutrition / Pro-45  
Metabolics / Lactobacillus Plantarum Powder  
Nature's Lab Cardio  
spain (es) / vivomixx  
Advanced Bio-Cultures / Advance Multi Strain Probiotics  
INVIVO THERAPEUTICS / Bio.Me IB +  
elixa / probiotic  
Ombre / Ultimate Immunity  
bioray / cytoflora  
Purica Probiotic Intensive GI

renew life / ultimate flora  
up4 / ultra  
optibac / for your cholesterol  
Bulk Probiotics / L. Plantarum Probiotic Powder  
spain (es) / I3.1  
renew life men's probiotic - ultimate  
ferring / vsl#3  
Resbiotic / resB® Lung Support  
SuperSmart / Full Spectrum Probiotic Formula  
jarrow formulas / jarro-dophilus eps  
naturopathica (au) / gastrohealth fibrepro  
blackmore (au) / probiotics+ eczema relief  
7 AM Ultra Probiotics  
quantum wellness / restora flora  
Jetson / FIT  
Seeking Health / Probiota HistaminX  
optibac / for every day  
Prescript-Assist®/SBO Probiotic  
Thryve Inside/ L.Reu,Rham,Casi; B.Lactis  
vita miracle / ultra-30 probiotics  
Bioflora (Mx) / BIOFLORA / 30 BILLION 10 strains  
ProbioMax® Daily DF  
SuperSmart / Lactobacillus Plantarum Postbiotic (Pasturized)  
organic 3 / primal soil  
Floradapt Gut Comfort  
SuperSmart / Bacillus Subtilis  
bioglan bio (au) / happy probiotic 100  
Nature's Lab Intensive GI  
SuperSmart / Lactoxira  
douglas laboratories / multi probiotic 40 billion  
Ombre / Mood Enhancer  
BIO-BOTANICAL RESEARCH / Megacidin  
reserveage nutrition / beautiflora  
amy meyers / primal earth probiotic  
Jetson / Gut Prep  
up4 / adult

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.

chloramphenicol  
clindamycin [CFS]

Ethyl alcohol {Grain alcohol}  
Ferrum {Iron Supplements}

## Sample of Literature Used

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

### [Is gut microbiota of patients with ALS different from that of healthy individuals?](#)

Turkish journal of medical sciences , Volume: 54 Issue: 3 2024

Authors Özaydin Aksun Z,Erdogan S,Kalkanci A,Sahin EA,Çuhadar T,Sener HÖ

### [Bridging the Gap: Harnessing Plant Bioactive Molecules to Target Gut Microbiome Dysfunctions in Amyotrophic Lateral Sclerosis.](#)

Current issues in molecular biology , Volume: 46 Issue: 5 2024 May 8

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### [Cyanobacteria, Cyanotoxins, and Neurodegenerative Diseases: Dangerous Liaisons.](#)

International journal of molecular sciences , Volume: 22 Issue: 16 2021 Aug 13

Authors Sini P,Dang TBC,Fais M,Galioto M,Padedda BM,Lugliè A,Iaccarino C,Crosio C

### [The Impact of Microbiota on the Pathogenesis of Amyotrophic Lateral Sclerosis and the Possible Benefits of Polyphenols. An Overview.](#)

Metabolites , Volume: 11 Issue: 2 2021 Feb 20

Authors Casani-Cubel J,Benlloch M,Sanchis-Sanchis CE,Marin R,Lajara-Romance JM,de la Rubia Orti JE

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Scientific reports , Volume: 10 Issue: 1 2020 Aug 3

Authors Zeng Q,Shen J,Chen K,Zhou J,Liao Q,Lu K,Yuan J,Bi F

### [A prospective longitudinal study on the microbiota composition in amyotrophic lateral sclerosis.](#)

BMC medicine , Volume: 18 Issue: 1 2020 Jun 17

Authors Di Gioia D,Bozzi Cionci N,Baffoni L,Amoruso A,Pane M,Mogna L,Gaggia F,Lucenti MA,Bersano E,Cantello R,De Marchi F,Mazzini L

### [Amyotrophic lateral sclerosis and intestinal microbiota-toward establishing cause and effect.](#)

Gut microbes , Volume: 11 Issue: 6 2020 Nov 1

Authors Gotkine M,Kviatcovsky D,Elinav E

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Journal of clinical gastroenterology , 2018 May 18

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Frontiers in neurology , Volume: 9 2018

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### [Gut inflammation and dysbiosis in human motor neuron disease.](#)

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Authors Rowin J,Xia Y,Jung B,Sun J

### [Fungal infection in neural tissue of patients with amyotrophic lateral sclerosis.](#)

Neurobiology of disease , Volume: 108 2017 Dec

Authors Alonso R,Pisa D,Fernández-Fernández AM,Rábano A,Carrasco L

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Frontiers in microbiology , Volume: 7 2016

Authors Fang X,Wang X,Yang S,Meng F,Wang X,Wei H,Chen T

### [Cronobacter sakazakii DNA Detection in Cerebrospinal Fluid of a Patient with Amyotrophic Lateral Sclerosis Mimic Syndrome.](#)

Case reports in neurology , Volume: 7 Issue: 3 2015 Sep-Dec

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### [Leaky intestine and impaired microbiome in an amyotrophic lateral sclerosis mouse model.](#)

Physiological reports , Volume: 3 Issue: 4 2015 Apr

Authors Wu S,Yi J,Zhang YG,Zhou J,Sun J

### [Effects of Dietary Fiber and Acetate on Alcoholic Heart Disease and Intestinal Microbes in Mice.](#)

Molecular nutrition & food research , 2025 Apr 18

Authors Siang W,Li Jin J,Yinming J,Wenji L,Yan F

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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

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-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