

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

### 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 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

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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	Kineothrix	genus	High	2163168
Hungateiclostridiaceae	family	High	2304686	Lactobacillus	genus	High	1578
Porphyromonadaceae	family	High	171551	Mannheimia	genus	High	75984
Prevotellaceae	family	High	171552	Megamonas	genus	Low	158846
Ruminococcaceae	family	High	541000	Odoribacter	genus	High	283168
Veillonellaceae	family	Low	31977	Oscillibacter	genus	High	459786
Akkermansia	genus	High	239934	Parasutterella	genus	Low	577310
Anaerostipes	genus	High	207244	Peptostreptococcus	genus	Low	1257
Anaerotruncus	genus	High	244127	Pseudoflavonifractor	genus	High	1017280
Bifidobacterium	genus	High	1678	Ruminiclostridium	genus	High	1508657
Citrobacter	genus	High	544	Ruminococcus	genus	Low	1263
Coprococcus	genus	High	33042	Shigella	genus	High	620
Dorea	genus	High	189330	Sporobacter	genus	High	44748
Eisenbergiella	genus	High	1432051	Candidatus Gastranaerophilales	order	High	1906119
Escherichia	genus	High	561	Bacteroides fragilis	species	High	817
Eubacterium	genus	Low	1730	Butyrivibrio fibrisolvens	species	Low	831
Intestinimonas	genus	High	1392389	Escherichia coli	species	Low	562
				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.

arabinogalactan (prebiotic) 21 gram/day

bacillus subtilis (probiotics) 10 BCFU/day

Dangshen

fasting

fructo-oligosaccharides (prebiotic) 15 gram/day

Human milk oligosaccharides (prebiotic, Hologos, Stachyose) 2

gram/day

inulin (prebiotic) 32 gram/day

lactobacillus plantarum (probiotics) 60 BCFU/day

lactulose

oligosaccharides (prebiotic)

resveratrol (grape seed/polyphenols/red wine) 2 gram/day

soy 25 gram/day

vitamin d 50000 IU/day

wheat

wheat bran

## Retail Probiotics

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

probiotic pur (de) / realdose nutrition  
 theramedix / probiotic  
 jarow formulas / bifidus balance® + fos  
 Realdose  
 garden of life / primal defense  
 nature's way (au) / restore probiotic bowel & colon health 30s  
 jarow formula / ideal bowel support® lp299v®  
 naturopathica (au) / gastrohealth probiotic dairy free 50 billion  
 Physician Choice /60 Billion Probiotics  
 naturopathica (au) / gastrohealth probiotic dairy free 20 bcfu  
 Bio Schwartz / Advance Strength Probiotics (40 BCFU)  
 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 / proflora4r 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®  
SuperSmart / Probio Forte  
organic 3 / gutpro  
HLH BIOPHARMA(DE) / LACTOBACT ® 60PLUS  
Northwest Natural Products / PBB  
visbiome  
Immune Defense Daily Chewable Probiotic  
fürstenmed / lacto-bifido  
Swiss BioEnergetics / Full Spectrum Probiotic Defence  
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  
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  
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

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  
HLH BIOPHARMA(DE) / LACTOBACT ® METABOLIC  
jarro 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

**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.

bifidobacterium pseudocatenulatum li09,bifidobacterium	mastic gum (prebiotic)
catenulatum li10 (probiotics)	mutaflor escherichia coli nissle 1917 (probiotics)
Boron (Organic Source)	neem
brassica juncea	Pork
camelina seed	propyl gallate(corn)
candida albicans (prescription)	Psyllium (Plantago Ovata Husk)
chicken	rare meat
chitooligosaccharides (prebiotic)	refined wheat breads
coriander oil	smoking
Curcumin	sorghum
Dextrin	β-glucan
ethanol	sucralose
fluorine	sugar
fraxinus angustifolia,narrow-leafed ash	Sulforaphane,1-Isothiocyanato-4-
fruit	(methanesulfinyl)butane,C6H11NOS2
galla chinensis (herb)	Sumac(Rhus coriaria)
gallate (food additive)	syzygium aromaticum (clove)
Hesperidin (polyphenol)	tannic acid
lactobacillus kefir (NOT KEFIR)	tea
laminaria hyperborea( tangle/cuvie - seaweed)	trachyspermum ammi, Ajwain
Leonurine	Vitamin B1,thiamine hydrochloride

## Sample of Literature Used

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

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## Additional APriori Analysis Available

Available at: <https://microbiomeprescription.com/Library/PubMed>

Abdominal Aortic Aneurysm

Acne

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

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  
Colorectal Cancer  
Constipation  
Coronary artery disease  
COVID-19  
Crohn's Disease  
cystic fibrosis  
deep vein thrombosis  
Depression  
Dermatomyositis  
Eczema  
Endometriosis  
Eosinophilic Esophagitis  
Epilepsy  
erectile dysfunction  
Fibromyalgia  
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  
Halitosis  
Hashimoto's thyroiditis  
Heart Failure  
Hemorrhoidal disease, Hemorrhoids, Piles  
Hidradenitis Suppurativa  
Histamine Issues  
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  
Juvenile idiopathic arthritis  
Liver Cirrhosis  
Long COVID  
Low bone mineral density  
Lung Cancer

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  
Polycystic ovary syndrome  
Postural orthostatic tachycardia syndrome  
Premenstrual dysphoric disorder  
primary biliary cholangitis  
Psoriasis  
rheumatoid arthritis (RA), Spondyloarthritis (SpA)  
Rosacea  
Schizophrenia  
scoliosis  
sensorineural hearing loss  
Sjögren syndrome  
Sleep Apnea  
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