

## 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 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**

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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 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

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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 Benia:** 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	Fusarium	genus	High	5506
Hungateiclostridiaceae	family	High	2304686	Intestinimonas	genus	High	1392389
Lachnospiraceae	family	Low	186803	Kineothrix	genus	High	2163168
Porphyromonadaceae	family	High	171551	Lactobacillus	genus	High	1578
Prevotellaceae	family	High	171552	Malassezia	genus	High	55193
Ruminococcaceae	family	High	541000	Mannheimia	genus	High	75984
Streptococcaceae	family	High	1300	Megamonas	genus	Low	158846
Succinivibrionaceae	family	Low	83763	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
Butyrivibrio	genus	High	830	Ruminococcus	genus	Low	1263
Candida	genus	High	5475	Shigella	genus	High	620
Citrobacter	genus	High	544	Sporobacter	genus	High	44748
Coprococcus	genus	High	33042	Candidatus Gastranaerophilales	order	High	1906119
Cryptococcus	genus	High	5206	Akkermansia muciniphila	species	High	239935
Desulfovibrio	genus	Low	872	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
				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.

(2->1)-beta-D-fructofuranan {Inulin} 32 gram/day

bacillus subtilis {B.Subtilis } 10 BCFU/day

fructo-oligosaccharides 15 gram/day

fruit

fruit/legume fibre

Hordeum vulgare {Barley} 60 gram/day

Human milk oligosaccharides (prebiotic, Holigos, Stachyose) 2

gram/day

Lactobacillus plantarum {L. plantarum} 60 BCFU/day

oligosaccharides {oligosaccharides}

pectin {pectin}

polyphenols 3 gram/day

$\beta$ -glucan {Beta-Glucan} 500 mg/day

wheat

## 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 / 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 / mycrobiome 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 sbp 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  
WinClove 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 +  
elixia / 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.

Ethyl alcohol {Grain alcohol}

Ferrum {Iron Supplements}

N-(phosphonomethyl)glycine {glyphosate}

## Sample of Literature Used

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

### Specific Bacterial Taxa and Their Metabolite, DHPS, May Be Linked to Gut Dyshomeostasis in Patients with Alzheimer's Disease, Parkinson's Disease, and Amyotrophic Lateral Sclerosis.

**Nutrients** , Volume: 17 Issue: 9 2025 May 6

Authors Christopher CJ,Morgan KH,Tolleson CM,Trudell R,Fernandez-Romero R,Rice L,Abiodun BA,Vickery Z,Jones KA,Woodall BM,Nagy C,Mieczkowski PA,Bowen G,Campagna SR,Ellis JC

### 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,Cuhadar 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

Authors Pribac M,Motataianu A,Andone S,Mardale E,Nemeth S

### 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 Ortí JE

### The alteration of gut microbiome and metabolism in amyotrophic lateral sclerosis patients.

**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

### Potential Role of Gut Microbiota in ALS Pathogenesis and Possible Novel Therapeutic Strategies.

**Journal of clinical gastroenterology** , 2018 May 18

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### Circadian Rhythm Dysfunction Accelerates Disease Progression in a Mouse Model With Amyotrophic Lateral Sclerosis.

**Frontiers in neurology** , Volume: 9 2018

Authors Huang Z,Liu Q,Peng Y,Dai J,Xie Y,Chen W,Long S,Pei Z,Su H,Yao X

### Gut inflammation and dysbiosis in human motor neuron disease.

**Physiological reports** , Volume: 5 Issue: 18 2017 Sep

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

### Evaluation of the Microbial Diversity in Amyotrophic Lateral Sclerosis Using High-Throughput Sequencing.

**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

Authors Piombo M,Chiarello D,Corbetta M,Di Pino G,Dicuonzo G,Angioletti S,Riva E,De Florio L,Capone F,Di Lazzaro V

### 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

### Combined Phytochemical Sulforaphane and Dietary Fiber Inulin Contribute to the Prevention of ER-Negative Breast Cancer via PI3K/AKT/MTOR Pathway and Modulating Gut Microbial Composition.

**Nutrients , Volume: 17 Issue: 12 2025 Jun 17**

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Human milk oligosaccharide 2'-fucosyllactose alleviates cognitive impairment via the vagal afferent pathway in Alzheimer's disease mice.

**Food & function , 2025 Jun 13**

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Dietary Galacto-Oligosaccharides Enhance Growth Performance and Modulate Gut Microbiota in Weaned Piglets: A Sustainable Alternative to Antibiotics.

**Animals : an open access journal from MDPI , Volume: 15 Issue: 11 2025 May 22**

**Authors Wang Y,Li Z,Chen G,Xing Y,Wang J,Zhao Y,Kang M,Huang K,Li E,Ma X**

2'-Fucosyllactose Modulates the Intestinal Immune Response to Gut Microbiota and Buffers Experimental Colitis in Mice: An Integrating Investigation of Colonic Proteomics and Gut Microbiota Analysis.

**Food science & nutrition , Volume: 13 Issue: 6 2025 Jun**

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Impact of the Probiotic on the Modulation of Vaginal Bacterial and Fungal Microbiota in HPV-Positive Women.

**Molecular nutrition & food research , 2025 Jun 11**

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Prebiotic potential of wheat and dark rye: modulation of gut microbiota and short-chain fatty acid-producing bacteria.

**Food science and biotechnology , Volume: 34 Issue: 11 2025 Jul**

**Authors Kim J,Kim J,Kim G,Kim S,Shin H**

High doses of the galactooligosaccharides, 2'-fucosyllactose alleviate immunodeficiency in vitro and in vivo.

**European journal of nutrition , Volume: 64 Issue: 5 2025 Jun 9**

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**MicrobiologyOpen , Volume: 14 Issue: 3 2025 Jun**

**Authors Quarta E,Bourqqa-Ramzi M,Muñoz-Rodríguez D,García-Esteban MT,Murciano-Cespedosa A,Mateos González Á,Conejero-Meca FJ,Lombardo-Hernandez J,Mansilla-Guardiola J,Baroni S,Geninatti Crich S,Geuna S,Munaron L,Chiabrand D,Herrera-Rincon C**

Lactobacillus plantarum and Galacto-Oligosaccharides Sybiotic Relieve Irritable Bowel Syndrome by Reshaping Gut Microbiota and Attenuating Mast Cell Hyperactivation.

**Nutrients , Volume: 17 Issue: 10 2025 May 14**

**Authors Yao Q,Zhang W,Wang Y,Shi L,Zhao Y,Liang J,Zhao Y,Kang J,Zheng X,Guo R,Yuan T,She Y,Liu Z**

Impact of probiotic Lactobacillus plantarum GKM3 on gastrointestinal health in overweight and obese individuals: A randomized clinical trial.

**Clinical nutrition ESPEN , Volume: 68 2025 May 16**

**Authors Tsai YS,Lin XB,Lin SW,Chen YL,Hsu CL,Chen CC**

Supplementation of 2'-Fucosyllactose during the Growth Period Improves Neurodevelopmental Disorders in Offspring Mice Induced by Maternal Immune Activation.

**Journal of agricultural and food chemistry , 2025 May 11**

**Authors Wu X,Cao T,Ye J,Shi R,Bao X,Ge Y,Li D,Hao S,Liu F,Liu X**

A single-cell transcriptomic atlas of all cell types in the brain of 5xFAD Alzheimer mice in response to dietary inulin supplementation.

**BMC biology , Volume: 23 Issue: 1 2025 May 9**

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**International journal of biological macromolecules , 2025 May 6**

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Inulin Modulates Gut Microbiota and Increases Short-Chain Fatty Acids Levels to Inhibit Colon Tumorigenesis in Rat Models: A Systematic Review and Meta-Analysis.

**Journal of food science , Volume: 90 Issue: 5 2025 May**

**Authors Yu Y,He J,Fu H,Mi Y,Wu H,Gao Y,Li M**

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**Biomedicines , Volume: 13 Issue: 4 2025 Apr 9**

**Authors Guo S,Yang F,Zhang J,Liao Y,Xia N,Tang T,Wang C,Wang QK,Chen C,Hu D,Shan Z,Cheng X**

Alleviating Effect of Lactiplantibacillus plantarum HYY-S10 on Colitis in Mice Based on an Analysis of the Immune Axis in the Intestine.

**Microorganisms , Volume: 13 Issue: 4 2025 Apr 7**

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**Bioresource technology , 2025 Apr 12**

**Authors Shingade JA,Padalkar NS,Shin JH,Kim YH,Park TJ,Park JP,Patil AR**

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**Probiotics and antimicrobial proteins , 2025 Apr 9**

**Authors Zhu X,Zhang X,Zhang Y,Li F**

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**Food chemistry , Volume: 482 2025 Apr 4**

**Authors Chen S,Ling B,Liu X,Liu L,Feng J,Zhang J,Yang Y,Wu D,Guo Q,Liu Y**

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**European journal of nutrition , Volume: 64 Issue: 4 2025 Apr 2**

**Authors Mayengbam S,Raman M,Parnell JA,Eksteen B,Lambert JE,Eller LK,Nicolucci AC,Aktary ML,Reimer RA**

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**Food & function , 2025 Mar 20**

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**Microbiology spectrum , 2025 Mar 7**

**Authors Wu J,Zhang X,Ayesha K,Khuram S,Cui J,Wang G,Yangzong Z,Shi M,Jiang X,Li L,Liu G,Zhao W,Song T**

Maternal dietary inulin intake during late gestation and lactation ameliorates intestinal oxidative stress in piglets with the involvements of gut microbiota and bile acids metabolism.

**Animal nutrition (Zhongguo xu mu shou yi xue hui) , Volume: 20 2025 Mar**

**Authors Lu D,Feng C,Pi Y,Ye H,Wu Y,Huang B,Zhao J,Han D,Soede N,Wang J**

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**International journal of biological macromolecules , Volume: 306 Issue: Pt 3 2025 Feb 26**

**Authors Huang K,Hong C,Huang Y,Liu Y,Yu Z,Li S,Guan X,Zhao W**

β-Glucan Alone or Combined with Lactobacillus acidophilus Positively Influences the Bacterial Diversity and Metabolites in the Colonic Microbiota of Type II Diabetic Patients.

**Probiotics and antimicrobial proteins , 2025 Feb 26**

**Authors Clementino JR,de Oliveira LIG,Salgado MK,de Oliveira FL,Mesa V,Tavares JF,Silva-Pereira L,Raimundo BVB,Oliveira KC,Medeiros AI,Silva FA,Sivieri K,Magnani M**

Gut microbiota modulation and inflammation mitigation in a murine model through a hull-less and purple grain barley genotype.

**Food & function , 2025 Feb 25**

**Authors Cortijo-Alfonso ME,Laghoudaouta H,Pena RN,Martínez M,Yuste S,Rubió-Piqué L,Piñol-Felis C**

Carbon dioxide enhances Akkermansia muciniphila fitness and anti-obesity efficacy in high-fat diet mice.

**The ISME journal , 2025 Feb 23**

**Authors Wang X,Yang Q,Shi C,Wang Y,Guo D,Wan X,Dong P,Zhang Q,Hu Y,Zhang R,Yang H,Chen W,Liu Z**

Effect of dietary supplementation of Bacillus subtilis QST 7/13 on constipation, reproductive performance and offspring growth performance of sows.

**Animal reproduction science , Volume: 274 2025 Mar**

**Authors Li F,Wu D,Ma K,Wei T,Wu J,Zhou S,Xiang S,Zhu Z,Zhang X,Tan C,Luo H,Deng J**

Oat β-glucan enhances gut barrier function and maintains intestinal homeostasis in naturally aging mice.

**International journal of biological macromolecules , Volume: 305 Issue: Pt 1 2025 Feb 15**

**Authors Huang R,Zhang J,Sun M,Xu L,Kuang H,Xu C,Guo L**

Human milk oligosaccharides 2-fucosyllactose and 3-fucosyllactose attenuate ovalbumin-induced food allergy through immunoregulation and gut microbiota modulation.

**Food & function , Volume: 16 Issue: 4 2025 Feb 17**

**Authors Wu S,Chen H,Yu R,Li H,Zhao J,Stanton C,Paul Ross R,Chen W,Yang B**

Synergistic defecation effects of *Bifidobacterium animalis* subsp. *lactis* BL-99 and fructooligosaccharide by modulating gut microbiota.

**Frontiers in immunology , Volume: 15 2024**

**Authors Zhang Q,Zhao W,Luo J,Shi S,Niu X,He J,Wang Y,Zeng Z,Jiang Q,Fang B,Chen J,Li Y,Wang F,He J,Guo J,Zhang M,Zhang L,Ge S,Hung WL,Wang R**

The Molecular Weight of Enzymatically Modified Pectic Oligosaccharides from Apple Pomace as a Determinant for Biological and Prebiotic Activity.

**Molecules (Basel, Switzerland) , Volume: 30 Issue: 1 2024 Dec 26**

**Authors Wilkowska A,Nowak A,Motyl I,Oracz J**

Oat Beta-Glucans Modulate the Gut Microbiome, Barrier Function, and Immune Responses in an In Vivo Model of Early-Stage Colorectal Cancer.

**International journal of molecular sciences , Volume: 25 Issue: 24 2024 Dec 19**

**Authors Guzowska M,Dziendzikowska K,Kopiasz L,Gajewska M,Wilczak J,Harasym J,Czerwinska M,Gromadzka-Ostrowska J**

Inulin alleviates chronic ketamine-induced impairments in memory and prepulse inhibition by regulating the gut microbiota, inflammation, and kynurenone pathway.

**International journal of biological macromolecules , Volume: 294 2025 Mar**

**Authors Xu Z,Lu H,Hu C,Wen Y,Shang D,Gan T,Guo Z,Dai L,Luo Y**

Structural Characterization of Water-Soluble Pectin from the Fruit of *Diospyros lotus* L. and Its Protective Effects against DSS-Induced Colitis in Mice.

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Cancer (General)

Carcinoma

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Celiac Disease

Cerebral Palsy

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Chronic Lyme

Chronic Obstructive Pulmonary Disease (COPD)

Chronic Urticaria (Hives)

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Cognitive Function

Colorectal Cancer

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cystic fibrosis

d-lactic acidosis (one form of brain fog)

deep vein thrombosis

Denture Wearers Oral Shifts

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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**