

Microbiome Information for: primary biliary cholangitis

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

[Our Facebook Discussion Page](#)

Bacteria being reported because of atypical values.

These bacteria were reported atypical in studies of primary biliary cholangitis

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
Coriobacteriia	class	High	84998	Dorea	genus	High	189330
Delta proteobacteria	class	Low	28221	Enterococcus	genus	High	1350
Acidaminococcaceae	family	Low	909930	Eubacterium	genus	High	1730
Bifidobacteriaceae	family	High	31953	Faecalibacterium	genus	Low	216851
Chitinophagaceae	family	High	563835	Fusobacterium	genus	Low	848
Comamonadaceae	family	High	80864	Gemmiger	genus	Low	204475
Enterococcaceae	family	Low	81852	Granulicatella	genus	Low	117563
Gracilibacteraceae	family	High	541019	Lactobacillus	genus	High	1578
Lachnospiraceae	family	High	186803	Prevotella	genus	High	838
Muribaculaceae	family	High	2005473	Pseudomonas	genus	High	286
Oscillospiraceae	family	Low	216572	Rothia	genus	Low	508215
Peptostreptococcaceae	family	Low	186804	Streptococcus	genus	High	1301
Pirellulaceae	family	High	2691357	Veillonella	genus	High	29465
Ruminococcaceae	family	Low	541000	Bacillales	order	Low	1385
Sphingomonadaceae	family	High	41297	Bifidobacteriales	order	High	85004
Veillonellaceae	family	High	31977	Coriobacteriales	order	High	84999
Acidaminococcus	genus	High	904	Lactobacillales	order	High	186826
Actinomyces	genus	Low	1654	Selenomonadales	order	High	909929
Campylobacter	genus	High	194	Bacteroides uniformis	species	Low	820
Clostridium	genus	Low	1485	Clostridium sporogenes	species	Low	1509
Collinsella	genus	Low	102106	Pichia kudriavzevii	species	High	4909

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.

5,6-dihydro-9,10-dimethoxybenzo[g]-1,3-benzodioxolo[5,6-a]quinolizinium {Berberine} 15 gram/day
(2->1)-beta-D-fructofuranan {Inulin} 32 gram/day
3,3',4',5,7-pentahydroxyflavone {Quercetin} 2 gram/day
Amorphophallus konjac {Konjaku flour}
Avena sativa x Hordeum vulgare {barley,oat} bacillus
bacillus licheniformis {b. licheniformis} 10 BCFU/day
Bifidobacterium animalis {B. animalis}
Bifidobacterium animalis subsp. lactis {B. Lactis} 1 BCFU/day
Bovine Milk Products {Dairy}
Brassica oleracea var. italica {Broccoli}
dietary fiber
D-ribofuranoside {Ribose} 10 gram/day
Fagopyrum esculentum {Buckwheat}
Fiber, total dietary
fructo-oligosaccharides 15 gram/day
fruit
fruit/legume fibre
Hordeum vulgare {Barley} 60 gram/day
Human milk oligosaccharides (prebiotic, Holigos, Stachyose) 2 gram/day
Lacticaseibacillus casei {L. casei} 48 BCFU/day
Lacticaseibacillus paracasei {L.paracasei} 40 BCFU/day
Lacticaseibacillus rhamnosus {l. rhamnosus} 48 BCFU/day
lactobacillus acidophilus {L. acidophilus} 20 BCFU/day
lactobacillus paracasei,lactobacillus acidophilus,bifidobacterium animalis

Lactobacillus plantarum {L. plantarum} 60 BCFU/day
lactobacillus rhamnosus gg,bifidobacterium animalis lactis ,lactobacillus paracasei {cvs maximum strength probiotic}
Lactose {Milk Sugar}
Ligilactobacillus salivarius {L. salivarius} 9 BCFU/day
Limosilactobacillus fermentum {L. fermentum} 12 BCFU/day
Limosilactobacillus reuteri {L. Reuteri} 22 BCFU/day
long-term, moderate-intensity exercise {exercise}
Mannan oligosaccharides {Mannooligosaccharide} 8 gram/day
Morus {Mulberry }
oligosaccharides {oligosaccharides}
Outer Layers of Triticum aestivum {Wheat Bran}
polyphenols 3 gram/day
proton-pump inhibitors (prescription) 60 mg/day
Prunus dulcis {Almonds} 90 gram/day
pseudo-cereals {amaranth,quinoa, taro,buckwheat}
raffinose {sugar beet}
Rheum × hybridum {Rhubarb}
Slow digestible carbohydrates. {Low Glycemic}
Sulforaphane {Dark Greens}
synthetic disaccharide derivative of lactose {Lactulose}
wheat
whole-grain diet
yogurt
Zinc {Zinc Supplements} 300 mg/day
β-lactoglobulin {Whey} 60 gram/day

Retail Probiotics

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

SuperSmart / Full Spectrum Probiotic Formula
Garden of Life / Dr. Formulated Once Daily Women's hyperbiotics / pro-15
organic 3 / primal gut
quantum wellness / restora flora
newrhythm / probiotics 20 strains
Wholesome Wellness / Raw Probiotic
Lake Avenue Nutrition / Probiotics 10 Strain Blend
Advanced Bio-Cultures / Advance Multi Strain Probiotics
elixia / probiotic
bioray / cytoflora
renew life / ultimate flora
bioglan bio (au) / happy probiotic 100
Probiotic 10 Billion Active Cells Daily Maintenance
7 AM Ultra Probiotics
garden of life / primal defense
Physician Choice / 60 Billion Probiotics
seed / female version
jarrow formulas / jarro-dophilus® ultra
nature's bounty / probioti 10
OMNI-BiOTiC®/ 10 AAD
vinco / probiotic eight 65
Physis / Advance Probiotics
MegaFood / MegaFlora
OMNI-BiOTiC®/ TRAVEL
solaray / mycrobiome probiotic colon formula
Dr. Mercola / Complete Probiotics
bioglan bio (au) / happy probiotic 50
Northwest Natural Products / PB8
naturopathica (au) / gastrohealth probiotic dairy free 50 billion
renew life men's probiotic - ultimate
douglas laboratories / multi probiotic 40 billion
up4 / ultra
fürstenmed / lacto-bifido
WinClove Probiotics / Ecologic®825
ASEA VIA / BIOME
udo's choice / super 8 gold
naturopathica (au) / gastrohealth probiotic ultimate daily care 100billion
jarrow formula / jarro-dophilus original
HLH BIOPHARMA(DE) / LACTOBACT ® PREMIUM
custom probiotics / four strain lactobacilli
Jetson (US) / Immunity Probiotics
ferring / vsl#3
jamieson (can) / probiotic 10 bcfu
SuperSmart / Vaginal Health
klaire labs / target gb-x
Sash Vitality /Bio-Cultures Probiotics for Adults
bravo europe / starter and complex
Thryve Inside/ L.Reu,Rham,Casi; B.Lactis
custom probiotics / six strain probiotic powder
bravo europe / freeze-dried bravo
NOW FOODS / Clinical GI Probiotic
lifted naturals / mood boosting probiotic
seed / male version

Invivo / Bio.Me Femme UT
Bio Schwartz / Advance Strength Probiotics (40 BCFU)
young living/life 9
Wakunaga / Max Probiotic
Bioflora(MX) / Woman
fairvital / microflora basic
naturopathica (au) / gastrohealth women's probiotic with cranberry
HMF Metabolic
blackmores (au) / probiotics+ immune defence
SuperSmart / Derma Relief
up4/women's
SuperSmart / Oral Health
ISCON Elegance/ Ochek Capsule 10
just for tummies / live bacteria
naturopathica (au) / gastrohealth probiotic dairy free 20 bcfu
Nu U (uk) /Bio-Cultures Complex
blackmore (au) / probiotics+ daily health
HLH BIOPHARMA(DE) / LACTOBACT ® OMNI FOS
ecology_allergycare
HLH BIOPHARMA(DE) / LACTOBACT ® 60PLUS
Symprove™
optibac / for every day
SuperSmart / Probio Forte
organic 3 / gutpro
jarrow formulas / jarro-dophilus eps
nature's way (au) / restore probiotic bowel & colon health 30s
visbiome
Resbiotic/resB® Lung Support
Thryve L.PCasei Th1, L.PCasei Th2,L.Ferm IBF1, Lacidoph
Bromatech (IT) / Lautoselle
spain (es) / vivomixx
SuperSmart / Lactoxira
Bromatech (IT) / Psicobrain
SuperSmart / Candalb
Bromatech(IT) / FEMELLE
zint nutrition / probiotic collagen +
Krauterhaus / Lactopro
bio-k+
blackmores (au) / probiotics + adults daily (90 capsules)
Swiss BioEnergetics / Full Spectrum Probiotic Defence
Bromatech (IT) / Rotanelle plus
Immune Defense Daily Chewable Probiotic
Smidge /Sensitive Probiotic
Bromatech (IT) / AflugeneX
solgar / advanced multi-billion dophilus
nature's way (au) / restore probiotic daily health 90s
up4 / adult
Ombre / Restore
Bromatech (IT) / Acronelle
HLH BIOPHARMA(DE) / LACTOBACT ® AAD
naturopathica (au) / gastrohealth probiotic adults 50+
HMF Intensive
ProbioMax® Daily DF
JGL / Lactogyn
genestra brands® hm
quality health(au)/ fridge free probiotic 25b
jarrow formulas / fem dophilus
jarrow formulas / bifidus balance® + fos

Ombre / Mood Enhancer
spain (es) / aquilea intimus
optibac / for those on antibiotics
spain (es) / ns defenbiotic kids
naturopathica (au) / gastrohealth fibrepro
blackmore (au) / probiotics+ eczema relief
custom probiotics / d-lactate free probiotics powder
Schwabe Pharma Italia / EnteroDophilus
UltraFlora® Restore
blackmore (au) / probiotics+ womens flora balance
Seeking Health / Probiota HistaminX
solgar / advanced 40+ acidophilus
jarrow formula / ideal bowel support® lp299v®
Bromatech (IT) / Citogenex
spain (es) / profaes4 viajeros
Schiff® Digestive Advantage® Advanced Probiotics Multi-Strain Support
NaturalPharma / Profit Probiotics
cytoplan(uk) /dentavital bifidophilus
HMF IBS Relief
Bromatech (IT) / Ramnoselle
Biorela® Daily
Bromatech (IT) / Milonet
blackmore (au) / probiotics+ bowel support
jarrow formulas / fem-dophilus®
optibac / for women
nature's way (au) / restore probiotic 30 billion 30s
CVSHealth / Daily Probiotic
FloraVantage® Balance
ImmuneBiotech Medical Sweden AB / GutMagnific®
UltraFlora® Immune Booster
RepHresh /Pro-B Probiotic Supplement for Women
Ombre / Harmony
HMF Forte
optibac / bifidobacteria & fibre
Bromatech (IT) / Adomelle
optibac / for every day max
spain (es) / profaes4 edad escolar
jarrow formulas / jarro-dophilus mood
BioGaia / Elactia
Energybalance / ColoBiotica 28 Colon Support
Bulk Probiotics / L Paracasei Probiotic Powder
CustomProbiotics.com / L Plantarum Probiotic Powder
nature's way (au) / restore probiotic choc balls 60s
danactive drink
PoolPharma (IT) / ProbioTKMIO
Bromatech (IT) / Serobiome
Maple Life Science™ / Lactobacillus salivarius
SuperSmart / H. Pylori Fight
wakamoto (jp) / strong wakamoto w
Pädia GmbH (DE)/Mambiotic Kapseln
quality health (au) / fridge free* probiotic 60s
speer labs / emuaid first defense
solgar / advanced acidophilus plus
CustomProbiotics.com / L Reuteri Probiotic Powder
anabolic laboratories / probiotic complete
Bulk Probiotics / L Salivarius Probiotic Powder
PharmExtracta (IT) / INatal Sachets
UltraFlora® Intensive Care

spain (es) / ns florabiotic instant
Bulk Probiotics / L Acidophilus Probiotic Powder
spain (es) / lactanza hereditum
gnc / ultra probiotic complex
Metabolics / Lactobacillus Salivarius Powder
BioGaia / BioGaia Osfortis
Maple Life Science™ / Bifidobacterium Animalis
Wakunaga / Pro+ Synbiotic
naturopathica (au)/ gastrohealth probiotic daily care
Floradapt Cardio
FloraVantage® Control
trubiotics / one a day
Maple Life Science™ / Lactobacillus plantarum
Maple Life Science™ / Lactobacillus reuteri
spain (es) / gum peribalance
Activia®
UltraFlora® Control
Bulk Probiotics / L Reuteri Probiotic Powder
natren / healthy trinity probiotic
Purica Probiotic Cardio
HLH BIOPHARMA(DE) / LACTOBACT ® LDL-CONTROL
powerlabs (au) / ultra blend
Jetson (US) / Mood Probiotics
Bulk Probiotics / L Casei Probiotic Powder (Candida Support)
Ombre / Heart Health
klaire labs / ther-biotic factor 4
BioGaia / BioGaia Products
spain (es) / casenbiotic
HLH BIOPHARMA(DE) / LACTOBACT ® FORTE
Maple Life Science™ / Lactobacillus fermentum
goodbelly drink
Bulk Probiotics / L Rhamnosus Probiotic Powder
spain (es) / reuteri gotas
Nature's Bounty / Acidophilus Probiotic
bioglan (au) / healthy kids probiotic choc balls 50s
naturopathica (au) / gastrohealth antacid
Optibac Probiotics / Bifidobacterium lactis HN019
CustomProbiotics.com / L. Salivarius Probiotic Powder
SuperSmart / Lactobacillus reuteri
Microbiome Plus+™ Gastrointestinal
Microbiome Labs / MEGA Genesis
Metabolics / Lactobacillus Acidophilus
CustomProbiotics.com / L. Rhamnosus Probiotic Powder
Materna® Opti-Lac® Breast Feeding Support
shin biofermin (jp) /s
Good Start® by Gerber® Breastfeeding Comfort Plus Probiotics
UltraFlora® Balance
Bulk Probiotics / L Plantarum Probiotic Powder
spain (es) / I3.1
bioglan bio (au/ happy probiotic 25
Wakunaga / Kyo-Dophilus® Multi 9 Probiotic
bayer / trubiotics daily probiotic
Purica Probiotic Intensive GI
optibac / for your cholesterol
reg'activ / immune & vitality
ProGoes® Forte
CustomProbiotics.com / L Acidophilus Probiotic Powder
Ombre / Ultimate Immunity

Floradapt Gut Comfort
SuperSmart / Lactobacillus Plantarum Postbiotic (Pasturized)
Nature's Lab Intensive GI
Metabolics / Lactobacillus Rhamnosus Powder
spain (es) / gastrus
CustomProbiotics.com / L. Paracasei Probiotic Powder
optibac / for daily immunity
CustomProbiotics.com / L. Casei Probiotic Powder
Botica Alternativa / Lactobacilos Reuteri
Metabolics / Lactobacillus Plantarum Powder
Nature's Lab Cardio
Bromatech (IT) / Pilorex
spain (es) / muvagyn probiotico
natren / megadophilus
Pregnancy Care Probiotic
VSL Pharmaceuticals / Oxadrop
Bulk Probiotics / L Fermentum Probiotic Powder
PharmExtracta (IT) / FG5 Forte In Sachets

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.

acetylsalicylic acid, aspirin	low protein diet
amoxicillin [CFS]	meropenem
ampicillin [CFS]	nicotinic acid {Vitamin B-3}
Azadirachta indica {Neem}	piperacillin-tazobactam
benzylpenicillin sodium (antibiotic)	Polydextrose {polydextrose}
bifidobacterium pseudocatenulatum {B. pseudocatenulatum }	Riboflavin {Vitamin B2}
bifidobacterium pseudocatenulatum li09,bifidobacterium catenulatum li10	rifaximin
Capsicum annuum {Peppers} {Cayenne Pepper, Hot Pepper}	Saccharomyces cerevisiae var boulardii {S. boulardii}
ciprofloxacin [CFS]	Sodium Bicarbonate {Baking Soda}
Disodium fumarate {Fumaric acid disodium salt}	Sus domesticus {Pork}
enterococcus durans {Streptococcus durans}	terpenophenolics {cannabinoids}
Finnish Probiotic {Valio Probiotic}	Thymus vulgaris {thyme}
gentamicin	Vaccinium {Cranberry}
Heyndrickxia coagulans {B. coagulans}	vegetarians
High-protein diet {Atkins low-carbohydrate diet}	vitamin d
imipenem	Zingiber officinale Roscoe {ginger}

Sample of Literature Used

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

Machine learning-based characterization of the gut microbiome associated with the progression of primary biliary cholangitis to cirrhosis.

Microbes and infection , 2024 May 24

Authors Wang Q,Tang X,Qiao W,Sun L,Shi H,Chen D,Xu B,Liu Y,Zhao J,Huang C,Jin R

Association between gut microbiota and autoimmune cholestatic liver disease, a Mendelian randomization study.

Frontiers in microbiology , Volume: 15 2024

Authors Cui Y,Guo Y,Kong Y,Zhang G

Intestinal microbiota and biliary system diseases.

Frontiers in cellular and infection microbiology , Volume: 14 2024

Authors Wang H,Gong J,Chen J,Zhang W,Sun Y,Sun D

Causal associations between gut microbiota and Cholestatic liver diseases: a Mendelian randomization study.

Frontiers in medicine , Volume: 11 2024

Authors Yang J,Ma G,Wang K,Yang H,Jiang S,Fan Q,Zhou X,Guo G,Han Y

Causal associations between gut microbiota and primary biliary cholangitis: a bidirectional two-sample Mendelian randomization study.

Frontiers in microbiology , Volume: 14 2023

Authors Zhang J,Wu G,Tang Y,Liu H,Ge X,Peng R,Cao J,Tu D,Su B,Jin S,Jiang G,Zhang C,Bai D

Genetic predisposition of the gastrointestinal microbiome and primary biliary cholangitis: a bi-directional, two-sample Mendelian randomization analysis.

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Authors Luo X,You X

Gut Microbiota Patterns in Patients with Non-Alcoholic Fatty Liver Disease: A Comprehensive Assessment Using Three Analysis Methods.

International journal of molecular sciences , Volume: 24 Issue: 20 2023 Oct 17

Authors Korobeinikova AV,Zlobovskaya OA,Sheptulina AF,Ashniev GA,Bobrova MM,Yafarova AA,Akasheva DU,Kabieva SS,Bakoev SY,Zagaynova AV,Lukashina MV,Abramov IA,Pokrovskaya MS,Doludin YV,Tolkacheva LR,Kurnosov AS,Zyatenkova EV,Lavrenova EA,Efimova IA,Glazunova EV,Kiselev AR,Shipulin GA,Kontsevaya AV,Keskinov AA,Yudin VS,Makarov VV,Drapkina OM,Yudin SM

Causal effects of gut microbiome on autoimmune liver disease: a two-sample Mendelian randomization study.

BMC medical genomics , Volume: 16 Issue: 1 2023 Oct 3

Authors Fu Y,Li J,Zhu Y,Chen C,Liu J,Gu S,Zheng Y,Li Y

High prevalence of lower limb atherosclerosis is linked with the gut-liver axis in patients with primary biliary cholangitis.

Liver international : official journal of the International Association for the Study of the Liver , Volume: 43 Issue: 2 2023 Feb

Authors Ponziani FR,Nesci A,Caputo C,Salvatore L,Picca A,Del Chierico F,Paroni Sterbini F,Marzetti E,Di Giorgio A,Santoro L,Putignani L,Gasbarrini A,Santoliquido A,Pompili M

Ileal mucosa-associated microbiota overgrowth associated with pathogenesis of primary biliary cholangitis.

Scientific reports , Volume: 11 Issue: 1 2021 Oct 5

Authors Kitahata S,Yamamoto Y,Yoshida O,Tokumoto Y,Kawamura T,Furukawa S,Kumagi T,Hirooka M,Takeshita E,Abe M,Ikeda Y,Hiasa Y

The Salivary Microbiota of Patients With Primary Biliary Cholangitis Is Distinctive and Pathogenic.

Frontiers in immunology , Volume: 12 2021

Authors Lv L,Jiang H,Chen X,Wang Q,Wang K,Ye J,Li Y,Fang D,Lu Y,Yang L,Gu S,Chen J,Diao H,Yan R,Li L

A metabolic pathway for bile acid dehydroxylation by the gut microbiome.

Nature , Volume: 582 Issue: 7813 2020 Jun

Authors Funabashi M,Grove TL,Wang M,Varma Y,McFadden ME,Brown LC,Guo C,Higginbottom S,Almo SC,Fischbach MA

Gut dysbiosis associated with clinical prognosis of patients with primary biliary cholangitis.

Hepatology research : the official journal of the Japan Society of Hepatology , Volume: 50 Issue: 7 2020 Jul

Authors Furukawa M,Moriya K,Nakayama J,Inoue T,Momoda R,Kawaratani H,Namisaki T,Sato S,Douhara A,Kaji K,Kitade M,Shimozato N,Sawada Y,Saikawa S,Takaya H,Kitagawa K,Akahane T,Mitoro A,Yamao J,Tanaka Y,Yoshiji H

Dysbiosis of oral microbiota and its association with salivary immunological biomarkers in autoimmune liver disease.

PLoS one , Volume: 13 Issue: 7 2018

Authors Abe K,Takahashi A,Fujita M,Imaizumi H,Hayashi M,Okai K,Ohira H

Gut microbial profile is altered in primary biliary cholangitis and partially restored after UDCA therapy.

Gut , Volume: 67 Issue: 3 2018 Mar

Authors Tang R,Wei Y,Li Y,Chen W,Chen H,Wang Q,Yang F,Miao Q,Xiao X,Zhang H,Lian M,Jiang X,Zhang J,Cao Q,Fan Z,Wu M,Qiu D,Fang JY,Ansari A,Gershwin ME,Ma X

Human Milk Oligosaccharide Lacto-N-Neotetraose Promotes Gut Microbiota Recovery in the Context of Antibiotic-Induced Dysbiosis.

Journal of agricultural and food chemistry , 2025 Apr 17

Authors Pang J,Sa Z,Zhao X,Li J,Bai G,Xia Y

Dry ginger and Schisandra chinensis modulate intestinal flora and bile acid metabolism to treat asthma.

Frontiers in microbiology , Volume: 16 2025

Authors Yu Y,Geng S,Bu C,Cao G,Han Y,Xie D,Hong Y

Effects of dietary fiber on the composition, function, and symbiotic interactions of intestinal microbiota in pre-weaned calves.

Frontiers in microbiology , Volume: 16 2025

Authors Lu W,Yi X,Ge Y,Zhang X,Shen K,Zhuang H,Deng Z,Liu D,Cao J,Ma C

Continuous intake of galacto-oligosaccharides containing syrup contributes to maintaining the health of household cats by modulating their gut microbiota.

Bioscience of microbiota, food and health , Volume: 44 Issue: 2 2025

Authors Hokkyo A,Kakiyama S,Shiwa Y,Kaga C,Kobayashi T,Nomoto K,Harima-Mizusawa N

Alleviation effects of *Lactobacillus plantarum* in colitis aggravated by a high-salt diet depend on intestinal barrier protection, NF-?B pathway regulation, and oxidative stress improvement.

Food & function , 2025 Mar 20

Authors Chen Y,Liu N,Chen F,Liu M,Mu Y,Wang C,Xia L,Peng M,Zhou M

Behavioral alterations in antibiotic-treated mice associated with gut microbiota dysbiosis: insights from 16S rRNA and metabolomics.

Frontiers in neuroscience , Volume: 19 2025

Authors Bibi A,Zhang F,Shen J,Din AU,Xu Y

Combination of dietary fiber and exercise training improves fat loss in mice, but does not ameliorate MASLD more than exercise alone.

American journal of physiology. Gastrointestinal and liver physiology , 2025 Mar 4

Authors Kovynov A,Charchuta MM,Begtaševic A,Ducarmon QR,Rensen PCN,Schönke M

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

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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

Correlation between daily physical activity and intestinal microbiota in perimenopausal women.

Sports medicine and health science , Volume: 7 Issue: 3 2025 May

Authors Zheng Y,Ke J,Song J,Li X,Kuang R,Wang H,Li S,Li Y

Effects of supplementation with vitamin D(3) on growth performance, lipid metabolism and cecal microbiota in broiler chickens.

Frontiers in veterinary science , Volume: 12 2025

Authors Li J,Li X,Tian J,Xu L,Chen Y,Jiang S,Zhang G,Lu J

Cooked Broccoli Alters Cecal Microbiota and Impacts Microbial Metabolism of Glucoraphanin in Lean and Obese Mice.

Molecular nutrition & food research , 2025 Feb 17

Authors Zhao A,Li J,Peterson M,Black M,Gaulke CA,Jeffery EH,Miller MJ

Dairy Consumption and the Colonic Mucosa-Associated Gut Microbiota in Humans-A Preliminary Investigation.

Nutrients , Volume: 17 Issue: 3 2025 Feb 2

Authors Chen E,Ajami NJ,White DL,Liu Y,Gurwara S,Hoffman K,Graham DY,El-Serag HB,Petrosino JF,Jiao L

Isolated White Lupin Proteins Beneficially Modulate the Intestinal Microbiota Composition in Rats.

Nutrients , Volume: 17 Issue: 3 2025 Jan 31

Authors Rubio LA,Chiesa G

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

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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

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-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