

Microbiome Information for: Atrial fibrillation

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

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

[Our Facebook Discussion Page](#)

Bacteria being reported because of atypical values.

These bacteria were reported atypical in studies of Atrial fibrillation

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
Alcaligenaceae	family	High	506	Hungatella	genus	Low	1649459
Barnesiellaceae	family	Low	2005519	Klebsiella	genus	High	570
Acinetobacter	genus	High	469	Kluyvera	genus	High	579
Aeromonas	genus	High	642	Lachnobacterium	genus	Low	140625
Agathobacter	genus	High	1766253	Lachnoclostridium	genus	High	1506553
Bilophila	genus	Low	35832	Lachnospira	genus	High	28050
Blautia	genus	High	572511	Lactobacillus	genus	High	1578
Brevundimonas	genus	Low	41275	Lactococcus	genus	High	1357
Butyricoccus	genus	Low	580596	Mitsuokella	genus	High	52225
Butyrivibrio	genus	Low	830	Oscillibacter	genus	Low	459786
Citrobacter	genus	Low	544	Parabacteroides	genus	High	375288
Coprococcus	genus	High	33042	Paraprevotella	genus	Low	577309
Desulfovibrio	genus	High	872	Prevotella	genus	Low	838
Dialister	genus	High	39948	Ruminococcus	genus	High	1263
Dorea	genus	High	189330	Sanguibacteroides	genus	Low	1635148
Eisenbergiella	genus	High	1432051	Sellimonas	genus	High	1769710
Enorma	genus	High	1472762	Shigella	genus	Low	620
Enterobacter	genus	High	547	Streptococcus	genus	High	1301
Enterococcus	genus	High	1350	Turicibacter	genus	Low	191303
Escherichia	genus	Low	561	Tyzzereella	genus	Low	1506577
Faecalibacterium	genus	Low	216851	Veillonella	genus	High	29465
Haemophilus	genus	High	724	Burkholderiales	order	High	80840
Holdemanella	genus	Low	1573535	Eubacterium ramulus	species	High	39490
Holdemania	genus	High	61170	Phocaeicola coprophilus	species	Low	387090
				Segatella copri	species	Low	165179

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.

bacillus subtilis (probiotics) 10 BCFU/day

barley 60 gram/day

bifidobacterium longum (probiotics) 10 BCFU/day

fructo-oligosaccharides (prebiotic) 15 gram/day

inulin (prebiotic) 32 gram/day

lactobacillus paracasei (probiotics) 40 BCFU/day

lactobacillus plantarum (probiotics) 60 BCFU/day

lactulose

omega-3 fatty acids 4 gram/day

proton-pump inhibitors (prescription) 60 mg/day

quebracho

raffinose(sugar beet)

resistant starch

saccharomyces boulardii (probiotics) 6 BCFU/day

walnuts 75 gram/day

wheat bran

whey 60 gram/day

Retail Probiotics

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

Global Healing Center / FloraTrex
 Realdose
 probiotic pur (de) / realdose nutrition
 garden of life / primal defense
 naturopathica (au) / gastrohealth probiotic dairy free 50 billion
 Physician Choice / 60 Billion Probiotics
 Ombre / Healthy Gut
 OMNI-BIOTIC®/ 10 AAD
 nature's way (au) / restore probiotic bowel & colon health 30s
 renew life men's probiotic - ultimate
 SuperSmart / Full Spectrum Probiotic Formula
 quantum wellness / restora flora
 vita miracle / ultra-30 probiotics
 theramedix / probiotic
 newrhythm / probiotics 20 stains
 fürstenmed / lacto-bifido
 HLH BIOPHARMA(DE) / LACTOBACT ® PREMIUM
 naturopathica (au) / gastrohealth probiotic ultimate daily care 100billion
 spain (es) / vivomixx
 douglas laboratories / multi probiotic 40 billion
 Lake Avenue Nutrition / Probiotics 10 Strain Blend
 renew life / ultimate flora
 up4 / ultra
 Bioflora (Mx) / BIOFLORA / 30 BILLION 10 strains
 bioglan bio (au) / happy probiotic 100
 Wakunaga / Max Probiotic
 Bio Schwartz / Advance Strength Probiotics (40 BCFU)
 organic 3 / primal gut
 Garden of Life / Dr. Formulated Once Daily Women's
 hyperbiotics / pro-15
 nature's way (au) / restore probiotic 100 billion
 solaray / microbiome probiotic colon formula
 lifted naturals / mood boosting probiotic
 seed / male version
 blackmore (au) / probiotics+ daily health
 Eden's / 3-in-1 Synbiotic Superblend
 Dr. Mercola / Complete Probiotics
 nature's instincts / ultra spore probiotic
 bioglan bio (au) / happy probiotic 50
 Physis / Advance Probiotics
 Ombre / Metabolic Booster
 young living/life 9
 fairvital / microflora basic
 nature's bounty / probioti 10
 MegaFood / MegaFlora
 jarro formulas / bifidus balance® + fos
 ProbioMax® Daily DF
 bioray / cytoflora
 elixa / probiotic
 SuperSmart / Lactoxira
 up4 / adult
 Ombre / Mood Enhancer
 Advanced Bio-Cultures / Advance Multi Strain Probiotics
 Smidge / Sensitive Probiotic

Krauterhaus / Lactopro
LiveWell Nutrition / Pro-45
udo's choice /super 8 gold
microbiome labs / restorflora
Swiss BioEnergetics / Full Spectrum Probiotic Defence
Immune Defense Daily Chewable Probiotic
blackmores (au) / probiotics + adults daily (90 capsules)
Windove Probiotics / Ecologic®825
ASEA VIA / BIOME
Wholesome Wellness / Raw Probiotic
jarrow formula / ideal bowel support® lp299v®
HLH BIOPHARMA(DE) / LACTOBACT ® 60PLUS
Bioflora (MX) / BIOFLORAMX / 50 BILLION 10 Strains
7 AM Ultra Probiotics
Northwest Natural Products / PB8
Probiotic 10 Billion Active Cells Daily Maintenance
Seeking Health / Probiota HistaminX
bravo europe / starter and complex
optibac / for every day
ferring / vsl#3
jamieson (can) / probiotic 10 bcfu
visbiome
1 md / complete probiotics platinum
UltraFlora® Immune Booster
seed / female version
naturopathica (au) / gastrohealth probiotic dairy free 20 bcfu
Bromatech (IT) / Serobiome
organic 3 / gutpro
Ombre / Heart Health
jarrow formulas / jarro-dophilus® ultra
PoolPharma (IT) / ProbioTKMIO
Wakunaga / 50+
custom probiotics / six strain probiotic powder
ImmuneBiotech Medical Sweden AB / GutMagnific®
organic 3 / yeastbiotic
klaire labs / ther-biotic factor 4
Symprove™
InnovixLabs / Mood Probiotic
naturopathica (au) / gastrohealth antacid
bravo europe / freeze-dried bravo
Wakunaga / Daily Probiotic
SuperSmart / Probio Forte
goodbelly drink
enviromedica terrافلورا sbo probiotic
Schiff® Digestive Advantage® Advanced Probiotics Multi-Strain Support
Microbiome Labs / ZENBIOME Dual
canada (ca) / calmbiotic
Jetson (US) / Mood Probiotics
biospec / probiotic-5
corebiotic
HMF Metabolic
blackmores (au) / probiotics+ immune defence
CustomProbiotics.com / L. Plantarum Probiotic Powder
SuperSmart / Oral Health
CVSHealth / Daily Probiotic
spain (es) / ultralevura
danactive drink
Nutrition Essentials / Probiotic (900 BCFU)

up4 /women's
PharmExtracta (IT) / Gliadines buccal stickpacks
ISCON Elegance/ Ochek Capsule 10
spain (es) / I3.1
Thryve L.PCasei Th1, L.PCasei Th2,L.Ferm IBF1, L.acidoph
Bromatech (IT) / Lautoselle
Resbiotic /resB® Lung Support
Align / Align® Chewables
Wakunaga / Kyo-Dophilus® Multi 9 Probiotic
custom probiotics / d-lactate free probiotics powder
jarrow formulas / jarro-dophilus eps
naturopathica (au) / gastrohealth fibrepro
philips / colon health
blackmore (au) / probiotics+ eczema relief
imagilin / NutriLots Replenish
Prescript-Assist®/SBO Probiotic
Thryve Inside/ L.Reu,Rham,Casi; B.Lactis
solgar / advanced 40+ acidophilus
UltraFlora® Restore
Ombre / Endless Energy
Jetson / FIT
wakamoto (jp) / wakamoto pharmaceutical intestinal drug
custom probiotics / five strain bifidobacteria
optibac / saccharomyces boulardii
Bromatech (IT) / Bifiselle
HLH BIOPHARMA(DE) / LACTOBACT ® METABOLIC
jarrow formula / jarro-dophilus original
aor / probiotic-3
vitamin angels / just thrive
solgar / advanced multi-billion dophilus
nature's way (au) / restore probiotic daily health 90s
optibac / for daily immunity
Bromatech(IT) / FEMELLE
Bromatech (IT) / Rotanelle plus
Maple Life Science™ / Bifidobacterium longum
zint nutrition / probiotic collagen +
SuperSmart / Candalb
custom probiotics / four strain lactobacilli
Bromatech (IT) / Aflugenex
Metabolics / Lactobacillus Plantarum Powder
Nature's Lab Cardio
Jetson (US) / Immunity Probiotics
Seeking Health / Probiota Bifidobacterium
INVIVO THERAPEUTICS / Bio.Me IB +
florastor / florastor
BIO-BOTANICAL RESEARCH / Megacidin
reserveage nutrition / beautiflora
amy meyers / primal earth probiotic
PrecisionBiotics / Zenflore
PharmExtracta / Bowell
Jetson / Gut Prep
CustomProbiotics.com / L. Paracasei Probiotic Powder
Nature's Lab Intensive GI
Schwabe Pharma Italia / MegaStress
naturopathica (au) / gastrohealth probiotic adults 50+
align / align
Ombre / Ultimate Immunity
Metabolics / Bifidobacterium Longum Powder

Purica Probiotic Intensive GI
optibac / for your cholesterol
SuperSmart / Lactobacillus Plantarum Postbiotic (Pasturized)
organic 3 / primal soil
Align® Extra Strength
Floradapt Gut Comfort
SuperSmart / Bacillus Subtilis
Bromatech (IT) / Enterelle
HLH BIOPHARMA(DE) / LACTOBACT® AAD
microbiome labs / hu58
Invivo / Bio.Me Femme UT
blackmore (au) / probiotics+ bowel support
Schwabe Pharma Italia / AxiBoulardi
perfect pass / perfect pass probiotic bacillus spore
Probiotic Sticks
NaturalPharma / Profit Probiotics
mwsb / candida yeast support
microbiome labs/ megasporebiotic
optibac / bifidobacteria & fibre
Sanogermina / AB-Kolicare
klair labs / biospora
Bromatech / ENTERELLE PLUS
SuperSmart / Derma Relief
Bioflora(MX) / Woman
Energybalance / ColoBiotica 28 Colon Support
Bromatech (IT) / Adomelle
UltraFlora® Intensive Care
jarrow formulas / jarro-dophilus mood
SuperSmart / Saccharomyces Boulardii
OMNI-BIOTIC®/ TRAVEL
global health trax / threelac
nature's way (au) / restore probiotic 30 billion 30s
spain (es) / axiboulardi
Law of Nature / Best Days Formula
Wakunaga / Pro+ Synbiotic
bio-botanical research / proflo4r restorative probiotic
Floradapt Cardio
naturopathica (au)/ gastrohealth probiotic daily care
CustomProbiotics.com / B. Longum Probiotic Powder
HLH BIOPHARMA(DE) / LACTOBACT® LDL-CONTROL
powerlabs (au) / ultra blend
NOW FOODS / Clinical GI Probiotic
Purica Probiotic Cardio
PrecisionBiotics / Immune
vinco / probiotic eight 65
Genesis Bifidobacterium Complex BB Probiotic
cytoplankton(uk) / dentavital bifidophilus
Maple Life Science™ / Lactobacillus plantarum

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.

amikacin (antibiotic)s
amoxicillin (antibiotic)s[CFS]
ampicillin (antibiotic)s[CFS]
benzylpenicillin sodium (antibiotic)
cefotaxime sodium salt (antibiotic)
ceftazidime (antibiotic)s
cinnamon (oil, spice)
ciprofloxacin (antibiotic)s[CFS]
clindamycin (antibiotic)s[CFS]
doxycycline (antibiotic)s[CFS]
erythromycin (antibiotic)s[CFS]

gentamicin (antibiotic)s
imipenem (antibiotic)s
meropenem (antibiotic)s
piperacillin-tazobactam (antibiotic)s
rifaximin (antibiotic)s
syzygium aromaticum (clove)
tetracycline (antibiotic)s
thyme (thymol, thyme oil)
tigecycline (antibiotic)s
tobramycin (antibiotic)s
trimethoprim (antibiotic)s
vancomycin (antibiotic)[CFS]

Sample of Literature Used

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

[Roles of gut microbiota in atrial fibrillation: insights from Mendelian randomization analysis and genetic data from over 430,000 cohort study participants.](#)

Cardiovascular diabetology , Volume: 22 Issue: 1 2023 Nov 8

Authors Dai H,Hou T,Wang Q,Hou Y,Zhu Z,Zhu Y,Zhao Z,Li M,Lin H,Wang S,Zheng R,Xu Y,Lu J,Wang T,Ning G,Wang W,Zheng J,Bi Y,Xu M

[The correlation between gut microbiome and atrial fibrillation: pathophysiology and therapeutic perspectives.](#)

Military Medical Research , Volume: 10 Issue: 1 2023 Nov 7

Authors Li N,Wang L,Li L,Yang MZ,Wang QX,Bai XW,Gao F,Yuan YQ,Yu ZJ,Ren ZG

[Gut Microbiota and Atrial Fibrillation: Pathogenesis, Mechanisms and Therapies.](#)

Arrhythmia & electrophysiology review , Volume: 12 2023

Authors Al-Kaisey AM,Figgett W,Hawson J,Mackay F,Joseph SA,Kalman JM

[Gut microbiome and atrial fibrillation-results from a large population-based study.](#)

EBioMedicine , Volume: 91 2023 May

Authors Palmu J,Börschel CS,Ortega-Alonso A,Markó L,Inouye M,Jousilahti P,Salido RA,Sanders K,Brennan C,Humphrey GC,Sanders JG,Gutmann F,Linz D,Salomaa V,Havulinna AS,Forslund SK,Knight R,Lahti L,Niiranen T,Schnabel RB

[Effect of Lactobacillus plantarum BFS1243 on a female frailty model induced by fecal microbiota transplantation in germ-free mice.](#)

Food & function , 2024 Mar 22

Authors Dong S,Zeng Q,He W,Cheng W,Zhang L,Zhong R,He W,Fang X,Wei H

[Utilization of diverse oligosaccharides for growth by Bifidobacterium and Lactobacillus species and their in vitro co-cultivation characteristics.](#)

International microbiology : the official journal of the Spanish Society for Microbiology , 2023 Nov 9

Authors Dong Y,Han M,Fei T,Liu H,Gai Z

[Antitumor effect of exopolysaccharide from Lactiplantibacillus plantarum WLPL09 on melanoma mice via regulating immunity and gut microbiota.](#)

International journal of biological macromolecules , Volume: 254 Issue: Pt 1 2023 Oct 31

Authors Wang Q,Jiang B,Wei M,He Y,Wang Y,Zhang Q,Wei H,Tao X

[Effect of a Co-Feed Liquid Whey-Integrated Diet on Crossbred Pigs` Fecal Microbiota.](#)

Animals : an open access journal from MDPI , Volume: 13 Issue: 11 2023 May 25

Authors Sutura AM,Arfuso F,Tardiolo G,Riggio V,Fazio F,Aiese Cigliano R,Paytuví A,Piccione G,Zumbo A

[Longitudinal effects of oral administration of antimicrobial drugs on fecal microbiota of horses.](#)

Journal of veterinary internal medicine , 2023 Sep 8

Authors Gomez D,Toribio R,Caddey B,Costa M,Vijan S,Dembek K

[Positive efficacy of Lactiplantibacillus plantarum MH-301 as a postoperative adjunct to endoscopic sclerotherapy for internal hemorrhoids: a randomized, double-blind, placebo-controlled trial.](#)

Food & function , 2023 Sep 1

Authors Zhang K,Liu H,Liu P,Feng Q,Gan L,Yao L,Huang G,Fang Z,Chen T,Fang N

[Immunomodulatory effects of inulin and its intestinal metabolites.](#)

Frontiers in immunology , Volume: 14 2023

Authors Sheng W, Ji G,Zhang L

[Effect of an Enteroprotective Complementary Feed on Faecal Markers of Inflammation and Intestinal Microbiota Composition in Weaning Puppies.](#)

Veterinary sciences , Volume: 10 Issue: 7 2023 Jul 3

Authors Meineri G,Cocolin L,Morelli G,Schievano C,Atuahene D,Ferrocino I

[Influences of wheat bran fiber on growth performance, nutrient digestibility, and intestinal epithelium functions in Xiangcun pigs.](#)

Heliyon , Volume: 9 Issue: 7 2023 Jul

Authors Liu J,Luo Y,Kong X,Yu B,Zheng P,Huang Z,Mao X,Yu J,Luo J,Yan H,He J

[Cinnamon oil solid self-microemulsion mediates chronic mild stress-induced depression in mice by modulating monoamine neurotransmitters, corticosterone, inflammation cytokines, and intestinal flora.](#)

Heliyon , Volume: 9 Issue: 6 2023 Jun

Authors Ma T,Tang B,Wang Y,Shen M,Ping Y,Wang L,Su J

[Gentamicin alleviates cholestatic liver injury by decreasing gut microbiota-associated bile salt hydrolase activity in rats.](#)

European journal of pharmacology , Volume: 951 2023 May 12

Authors Ma Y,Wang H,Yang J,Xin M,Wu X

In vitro effects of different levels of quebracho and chestnut tannins on rumen methane production, fermentation parameters, and microbiota.

Frontiers in veterinary science , Volume: 10 2023

Authors Battelli M,Colombini S,Parma P,Galassi G,Crovetto GM,Spanghero M,Pravettoni D,Zanzani SA,Manfredi MT,Rapetti L

Effects of a *Saccharomyces cerevisiae* fermentation product on fecal characteristics, metabolite concentrations, and microbiota populations of dogs subjected to exercise challenge.

Journal of animal science , 2022 Dec 27

Authors Oba PM,Carroll MQ,Sieja KM,Nogueira JPS,Yang X,Epp TY,Warzecha CM,Varney JL,Fowler JW,Coon CN,Swanson KS

Effects of a blend of chestnut and quebracho tannins on gut health and performance of broiler chickens.

PloS one , Volume: 17 Issue: 1 2022

Authors Redondo EA,Redondo LM,Bruzzone OA,Diaz-Carrasco JM,Cabral C,Garces VM,Liñeiro MM,Fernandez-Miyakawa ME

Effects of Dietary Supplementation With *Bacillus subtilis*, as an Alternative to Antibiotics, on Growth Performance, Serum Immunity, and Intestinal Health in Broiler Chickens.

Frontiers in nutrition , Volume: 8 2021

Authors Qiu K,Li CL,Wang J,Qi GH,Gao J,Zhang HJ,Wu SG

Fructooligosaccharides Increase in Plasma Concentration of (-)-Epigallocatechin-3-Gallate in Rats.

Journal of agricultural and food chemistry , Volume: 69 Issue: 49 2021 Dec 15

Authors Unno T,Araki Y,Inagaki S,Kobayashi M,Ichitani M,Takahara T,Kinugasa H

Bacillus subtilis Attenuates Hepatic and Intestinal Injuries and Modulates Gut Microbiota and Gene Expression Profiles in Mice Infected with *Schistosoma japonicum*.

Frontiers in cell and developmental biology , Volume: 9 2021

Authors Lin D,Song Q,Zhang Y,Liu J,Chen F,Du S,Xiang S,Wang L,Wu X,Sun X

Cinnamaldehyde Promotes the Intestinal Barrier Functions and Reshapes Gut Microbiome in Early Weaned Rats.

Frontiers in nutrition , Volume: 8 2021

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Effects of fermented wheat bran and yeast culture on growth performance, immunity and intestinal microflora in growing-finishing pigs.

Journal of animal science , 2021 Oct 23

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Supplementation with *Lactiplantibacillus plantarum* IMC 510 Modifies Microbiota Composition and Prevents Body Weight Gain Induced by Cafeteria Diet in Rats.

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Authors Micioni Di Bonaventura MV,Coman MM,Tomassoni D,Micioni Di Bonaventura E,Botticelli L,Gabrielli MG,Rossolini GM,Di Pilato V,Cecchini C,Amedei A,Silvi S,Verdenelli MC,Cifani C

Unravelling the collateral damage of antibiotics on gut bacteria.

Nature , Volume: 599 Issue: 7883 2021 Nov

Authors Maier L,Goemans CV,Wirbel J,Kuhn M,Eberl C,Pruteanu M,Müller P,Garcia-Santamarina S,Cacace E,Zhang B,Gekeler C,Banerjee T,Anderson EE,Milanese A,Löber U,Forslund SK,Patil KR,Zimmermann M,Stecher B,Zeller G,Bork P,Typas A

Treatment with a spore-based probiotic containing five strains of *Bacillus* induced changes in the metabolic activity and community composition of the gut microbiota in a SHIME® model of the human gastrointestinal system.

Food research international (Ottawa, Ont.) , Volume: 149 2021 Nov

Authors Marzorati M,Van den Abbeele P,Bubeck S,Bayne T,Krishnan K,Young A

Bacillus pumilus and *Bacillus subtilis* Promote Early Maturation of Cecal Microbiota in Broiler Chickens.

Microorganisms , Volume: 9 Issue: 9 2021 Sep 7

Authors Bilal M,Achard C,Barbe F,Chevaux E,Ronholm J,Zhao X

The Prebiotic Potential of Inulin-type Fructans: A Systematic Review.

Advances in nutrition (Bethesda, Md.) , 2021 Sep 23

Authors Hughes RL,Alvarado DA,Swanson KS,Holscher HD

Lactobacillus paracasei NK112 mitigates *Escherichia coli*-induced depression and cognitive impairment in mice by regulating IL-6 expression and gut microbiota.

Beneficial microbes , 2021 Sep 13

Authors Yun SW,Kim JK,Han MJ,Kim DH

The Protection of *Lactiplantibacillus plantarum* CCFM8661 Against Benzopyrene-Induced Toxicity via Regulation of the Gut Microbiota.

Frontiers in immunology , Volume: 12 2021

Authors Yu L,Zhang L,Duan H,Zhao R,Xiao Y,Guo M,Zhao J,Zhang H,Chen W,Tian F

Regulatory effects of *Lactobacillus* fermented black barley on intestinal microbiota of NAFLD rats.

- Food research international (Ottawa, Ont.)** , Volume: 147 2021 Sep
 Authors Zhu C,Guan Q,Song C,Zhong L,Ding X,Zeng H,Nie P,Song L
Low-Dose Lactulose as a Prebiotic for Improved Gut Health and Enhanced Mineral Absorption.
- Frontiers in nutrition** , Volume: 8 2021
 Authors Karakan T,Tuohy KM,Janssen-van Solingen G
Effects of Bacillus subtilis and Bacillus licheniformis on growth performance, immunity, short chain fatty acid production, antioxidant capacity, and cecal microflora in broilers.
- Poultry science** , Volume: 100 Issue: 9 2021 Jun 26
 Authors Xu Y,Yu Y,Shen Y,Li Q,Lan J,Wu Y,Zhang R,Cao G,Yang C
Effects of Fermented Milk Containing Lactocaseibacillus paracasei Strain Shirota on Constipation in Patients with Depression: A Randomized, Double-Blind, Placebo-Controlled Trial.
- Nutrients** , Volume: 13 Issue: 7 2021 Jun 29
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Lactobacillus paracasei modulates the gut microbiota and improves inflammation in type 2 diabetic rats.
- Food & function** , 2021 Jun 11
 Authors Zeng Z,Guo X,Zhang J,Yuan Q,Chen S
Modulatory Effects of Bacillus subtilis on the Performance, Morphology, Cecal Microbiota and Gut Barrier Function of Laying Hens.
- Animals : an open access journal from MDPI** , Volume: 11 Issue: 6 2021 May 24
 Authors Zhang G,Wang H,Zhang J,Tang X,Raheem A,Wang M,Lin W,Liang L,Qi Y,Zhu Y,Jia Y,Cui S,Qin T
Clearance of Clostridioides difficile Colonization Is Associated with Antibiotic-Specific Bacterial Changes.
- mSphere** , Volume: 6 Issue: 3 2021 May 5
 Authors Lesniak NA,Schubert AM,Sinani H,Schloss PD
Lactobacillus Sps in Reducing the Risk of Diabetes in High-Fat Diet-Induced Diabetic Mice by Modulating the Gut Microbiome and Inhibiting Key Digestive Enzymes Associated with Diabetes.
- Biology** , Volume: 10 Issue: 4 2021 Apr 20
 Authors Gulnaz A,Nadeem J,Han JH,Lew LC,Son JD,Park YH,Rather IA,Hor YY
A mixture of quebracho and chestnut tannins drives butyrate-producing bacteria populations shift in the gut microbiota of weaned piglets.
- PloS one** , Volume: 16 Issue: 4 2021
 Authors Miragoli F,Patrone V,Prandini A,Sigolo S,Del`Anno M,Rossi L,Barbato M,Senizza A,Morelli L,Callegari ML
Influence of Proton Pump Inhibitors and Histamine Receptor 2 Antagonists on Blastocystis ST3 and Selected Microorganisms of Intestinal Microbiota In Vitro.
- Clinical and translational gastroenterology** , Volume: 12 Issue: 4 2021 Apr 9
 Authors Lepczynska M,Dzika E,Chen W,Lu CY
Beverages containing Lactobacillus paracasei LC-37 improved functional dyspepsia through regulation of the intestinal microbiota and their metabolites.
- Journal of dairy science** , 2021 Mar 10
 Authors Sun E,Zhang X,Zhao Y,Li J,Sun J,Mu Z,Wang R
Potato resistant starch inhibits diet-induced obesity by modifying the composition of intestinal microbiota and their metabolites in obese mice.
- International journal of biological macromolecules** , Volume: 180 2021 Mar 9
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Prevention and Alleviation of Dextran Sulfate Sodium Salt-Induced Inflammatory Bowel Disease in Mice With Bacillus subtilis-Fermented Milk via Inhibition of the Inflammatory Responses and Regulation of the Intestinal Flora.
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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

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

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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)
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Hypoxia
IgA nephropathy (IgAN)
Inflammatory Bowel Disease
Insomnia
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Intracranial aneurysms
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Juvenile idiopathic arthritis
Liver Cirrhosis
Long COVID
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Mast Cell Issues / mastitis
ME/CFS with IBS
ME/CFS without IBS
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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)
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