

Microbiome Information for: Depression

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

Bacteria being reported because of atypical values.

These bacteria were reported atypical in studies of Depression

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
Acidobacteria	class	Low	204432	Olsenella	genus	High	133925
Actinomycetia	class	Low	1760	Oscillibacter	genus	High	459786
Bacteroidia	class	Low	200643	Oscillospira	genus	High	119852
Betaproteobacteria	class	High	28216	Parabacteroides	genus	High	375288
Clostridia	class	Low	186801	Paraprevotella	genus	High	577309
Deferribacteres	class	Low	68337	Parasutterella	genus	High	577310
Elusimicrobia	class	Low	641853	Parvimonas	genus	High	543311
Gammaproteobacteria	class	High	1236	Peptostreptococcus	genus	High	1257
Mollicutes	class	Low	31969	Phascolarctobacterium	genus	High	33024
Spirochaetia	class	Low	203692	Porphyromonas	genus	High	836
Acidaminococcaceae	family	High	909930	Prevotella	genus	Low	838
Akkermansiaceae	family	High	1647988	Pyramidobacter	genus	Low	638847
Bacteroidaceae	family	High	815	Roseburia	genus	High	841
Bifidobacteriaceae	family	High	31953	Rothia	genus	High	32207
Chitinophagaceae	family	Low	563835	Rothia	genus	High	508215
Christensenellaceae	family	Low	990719	Ruminococcus	genus	Low	1263
Clostridiales Family IV. Incertae Sedis	family	High	1689151	Saccharimonas	genus	Low	1331051
Clostridiales Family XI. Incertae Sedis	family	High	543310	Saccharomyces	genus	High	4930
Enterobacteriaceae	family	High	543	Shigella	genus	High	620
Enterococcaceae	family	High	81852	Slackia	genus	High	84108
Erysipelotrichaceae	family	High	128827	Sphaerochaeta	genus	High	399320
Eubacteriaceae	family	High	186806	Sphingobacterium	genus	Low	28453
Fusobacteriaceae	family	High	203492	Streptococcus	genus	High	1301
Lachnospiraceae	family	Low	186803	Subdoligranulum	genus	High	292632
Muribaculaceae	family	Low	2005473	Sutterella	genus	Low	40544
Nocardiaceae	family	High	85025	Veillonella	genus	Low	29465
Oscillospiraceae	family	Low	216572	Weissella	genus	High	46255
Porphyromonadaceae	family	High	171551	Burkholderiales	order	High	80840
Prevotellaceae	family	Low	171552	Eggerthellales	order	High	1643822
Rhodospirillaceae	family	High	41295	[Eubacterium] rectale	species	Low	39491
Ruminococcaceae	family	Low	541000	Acidaminococcus fermentans	species	High	905
Streptococcaceae	family	High	1300	Acidaminococcus intestini	species	Low	187327
Streptomycetaceae	family	High	2062	Akkermansia muciniphila	species	Low	239935
Sutterellaceae	family	Low	995019	Alkaliphilus peptidifermentans	species	High	426129
Veillonellaceae	family	Low	31977	Anaerotignum propionicum	species	High	28446
Actinomyces	genus	High	1654	Bacteroides caccae	species	High	47678
Agathobacter	genus	Low	1766253	Bacteroides caecigallinarum	species	High	1411144
Aggregatibacter	genus	High	416916	Bacteroides fragilis	species	High	817
Alistipes	genus	High	239759	Bacteroides helcogenes	species	Low	290053
				Bacteroides uniformis	species	High	820
				Bifidobacterium adolescentis	species	High	1680

Bacteria Name	Rank	Shift	Taxonomy ID	Bacteria Name	Rank	Shift	Taxonomy ID
Anaerofilum	genus	High	52784	Bifidobacterium bifidum	species	High	1681
Anaerostipes	genus	High	207244	Bifidobacterium breve	species	Low	1685
Apiotrichum	genus	High	105983	Bifidobacterium longum	species	Low	216816
Asaccharobacter	genus	High	553372	Bifidobacterium pseudolongum	species	High	1694
Aspergillus	genus	Low	5052	Butyrivibrio crossotus	species	High	45851
Atopobium	genus	High	1380	Campylobacter jejuni	species	High	197
Bacteroides	genus	High	816	Clostridium butyricum	species	Low	1492
Bifidobacterium	genus	Low	1678	Collinsella aerofaciens	species	Low	74426
Bulleidia	genus	High	118747	Coprococcus comes	species	Low	410072
Butyricoccus	genus	Low	580596	Desulfotomaculum ruminis	species	High	1564
Butyricimonas	genus	High	574697	Desulfovibrio piger	species	Low	901
Clostridium	genus	Low	1485	Desulfovibrio vulgaris	species	High	881
Collinsella	genus	Low	102106	Eggerthella lenta	species	High	84112
Coprococcus	genus	Low	33042	Enterocloster bolteae	species	High	208479
Coriobacterium	genus	High	33870	Enterococcus faecium	species	High	1352
Deinococcus	genus	High	1298	Escherichia sp.	species	High	1884818
Desulfitobacterium	genus	High	36853	Eubacterium coprostanoligenes	species	Low	290054
Desulfovibrio	genus	High	872	Eubacterium ruminantium	species	High	42322
Dialister	genus	Low	39948	Francisella tularensis	species	Low	263
Eggerthella	genus	High	84111	Hungatella hathewayi	species	High	154046
Enterobacter	genus	Low	547	Lacrimispora indolis	species	High	69825
Eubacterium	genus	High	1730	Lactacaseibacillus rhamnosus	species	Low	47715
Faecalibacterium	genus	Low	216851	Lactiplantibacillus pentosus	species	Low	1589
Flavonifractor	genus	High	946234	Lactobacillus crispatus	species	High	47770
Fusicatenibacter	genus	High	1407607	Lactobacillus helveticus	species	Low	1587
Fusobacterium	genus	High	848	Lactobacillus intestinalis	species	High	151781
Gelria	genus	High	189326	Lancefieldella parvula	species	High	1382
Gemella	genus	High	1378	Limosilactobacillus reuteri	species	High	1598
Gemmiger	genus	Low	204475	Megasphaera elsdenii	species	High	907
Haemophilus	genus	Low	724	Mycolicibacterium neoaurum	species	High	1795
Halomonas	genus	High	2745	Paenibacillus polymyxa	species	High	1406
Heliobacterium	genus	High	2697	Parabacteroides distasonis	species	High	823
Holdemania	genus	High	61170	Parabacteroides merdae	species	Low	46503
Howardella	genus	Low	404402	Parasporobacterium paucivorans	species	High	115544
Hungatella	genus	High	1649459	Ruminococcus callidus	species	Low	40519
Klebsiella	genus	High	570	Schnuerera ultunensis	species	High	45497
Lachnospira	genus	High	28050	Streptococcus gallolyticus	species	High	315405
Lactobacillus	genus	Low	1578	Streptococcus infantarius	species	Low	102684
Lutispora	genus	Low	667112	Streptococcus parasanguinis	species	High	1318
Megamonas	genus	Low	158846	Streptococcus urinalis	species	Low	149016
Megasphaera	genus	High	906	Syntrophomonas wolfei	species	High	863
Murimonas	genus	Low	1774128	Coriobacterineae	suborder	High	255727
Odoribacter	genus	High	283168				

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.

alcoholic beverages

AZITHROMYCIN,(ANTIBIOTIC)S[CFS]

berberine 1.5 gram/day

candida albicans (prescription)

carboxymethyl cellulose (prebiotic)

chemotherapy (prescription)

gluten-free diet

green-lipped mussel

high animal protein diet

high sugar diet

iron 400 mg/day

isepamicin (antibiotic)s

ku ding cha tea

lactulose

lard

lividomycin (antibiotic)s

macrolide ((antibiotic)s)

mannooligosaccharide (prebiotic) 8 gram/day

omega-3 fatty acids 4 gram/day

proton-pump inhibitors (prescription) 60 mg/day

rare meat

red alga Laurencia tristicha

Slippery Elm

smoking

sugar

sybioflor 2 e.coli probiotics

Retail Probiotics

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

symbiopharm / symbioflo 2

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]

bacillus subtilis (probiotics)

barley

benzylpenicillin sodium (antibiotic)

Cacao

ciprofloxacin (antibiotic)s[CFS]

clostridium butyricum (probiotics),Miya,Miyarisan

garlic (allium sativum)

gentamicin (antibiotic)s

imipenem (antibiotic)s

inulin (prebiotic)

lactobacillus casei (probiotics)

lactobacillus plantarum (probiotics)

lactobacillus reuteri (probiotics)

lactobacillus rhamnosus gg (probiotics)

oregano (origanum vulgare, oil) |

piperacillin-tazobactam (antibiotic)s

pomegranate

soy

thyme (thymol, thyme oil)

vancomycin (antibiotic)[CFS]

vitamin d

walnuts

Sample of Literature Used

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

[Changes of gut microbiota reflect the severity of major depressive disorder: a cross sectional study.](#)

Translational psychiatry , Volume: 13 Issue: 1 2023 Apr 28

Authors Hu X,Li Y,Wu J,Zhang H,Huang Y,Tan X,Wen L,Zhou X,Xie P,Olasunkanmi OI,Zhou J,Sun Z,Liu M,Zhang G,Yang J,Zheng P,Xie P

[Leveraging the microbiome to understand clinical heterogeneity in depression: findings from the T-RAD study.](#)

Translational psychiatry , Volume: 13 Issue: 1 2023 Apr 28

Authors Chin Fatt CR,Asbury S,Jha MK,Minhajuddin A,Sethuram S,Mayes T,Kennedy SH,Foster JA,Trivedi MH

[Gut Microbiota in Anxiety and Depression: Unveiling the Relationships and Management Options.](#)

Pharmaceuticals (Basel, Switzerland) , Volume: 16 Issue: 4 2023 Apr 9

Authors Kumar A,Pramanik J,Goyal N,Chauhan D,Sivamaruthi BS,Prajapati BG,Chaiyasut C

[Adverse childhood experiences and reoccurrence of illness impact the gut microbiome, which affects suicidal behaviors and the phenome of major depression: towards enterotypic-phenotypes.](#)

Acta neuropsychiatrica , 2023 Apr 13

Authors Maes M,Vasupanrajit A,Jirakran K,Klomkliew P,Chanchaem P,Tunvirachaisakul C,Plaimas K,Suratane A,Payungporn S

[Dysbiosis of the Gut Microbiota and Kynurenine \(Kyn\) Pathway Activity as Potential Biomarkers in Patients with Major Depressive Disorder.](#)

Nutrients , Volume: 15 Issue: 7 2023 Apr 3

Authors Lin P,Li D,Shi Y,Li Q,Guo X,Dong K,Chen Q,Lou X,Li Z,Li P,Jin W,Chen S,Sun Y,Sun J,Cheng X

[Altered gut bacterial-fungal interkingdom networks in children and adolescents with depression.](#)

Journal of affective disorders , Volume: 332 2023 Jul 1

Authors Hao SR,Zhang Z,Zhou YY,Zhang X,Sun WJ,Yang Z,Zhao JH,Jiang HY

[Bifidobacterium breve Bif11 supplementation improves depression-related neurobehavioural and neuroinflammatory changes in the mouse.](#)

Neuropharmacology , Volume: 229 2023 May 15

Authors Sushma G,Vaidya B,Sharma S,Devabattula G,Bishnoi M,KondepuDI KK,Sharma SS

[Outer membrane protein Amuc_1100 of Akkermansia muciniphila alleviates antibiotic-induced anxiety and depression-like behavior in mice.](#)

Physiology & behavior , Volume: 258 2023 Jan 1

Authors Sun Y,Zhu H,Cheng R,Tang Z,Zhang M

[Changes in fecal microbiota composition and the cytokine expression profile in school-aged children with depression: A case-control study.](#)

Frontiers in immunology , Volume: 13 2022

Authors Ling Z,Cheng Y,Chen F,Yan X,Liu X,Shao L,Jin G,Zhou D,Jiang G,Li H,Zhao L,Song Q

[A Pilot Study of the Gut Microbiota Associated With Depressive Symptoms and Sleep Disturbance Among Chinese and Korean Immigrants in the United States.](#)

Biological research for nursing , Volume: 25 Issue: 1 2023 Jan

Authors Hope C,Shen N,Zhang W,Noh H,Hertzberg VS,Kim S,Bai J

[Association Between Non-Suicidal Self-Injury and Gut Microbial Characteristics in Chinese Adolescent.](#)

Neuropsychiatric disease and treatment , Volume: 18 2022

Authors Cai LF,Wang SB,Hou CL,Li ZB,Liao YJ,Jia FJ

[Microbiota alterations in proline metabolism impact depression.](#)

Cell metabolism , Volume: 34 Issue: 5 2022 May 3

Authors Mayneris-Perxachs J,Castells-Nobau A,Arnoriaga-Rodríguez M,Martin M,de la Vega-Correa L,Zapata C,Burokas A,Blasco G,Coll C,Escrichs A,Biarnés C,Moreno-Navarrete JM,Puig J,Garre-Olmo J,Ramos R,Pedraza S,Brugada R,Vilanova JC,Serena J,Gich J,Ramió-Torrentà L,Pérez-Brocal V,Moya A,Pamplona R,Sol J,Jové M,Ricart W,Portero-Otin M,Deco G,Maldonado R,Fernández-Real JM

[Bacteroides species differentially modulate depression-like behavior via gut-brain metabolic signaling.](#)

Brain, behavior, and immunity , Volume: 102 2022 May

Authors Zhang Y,Fan Q,Hou Y,Zhang X,Yin Z,Cai X,Wei W,Wang J,He D,Wang G,Yuan Y,Hao H,Zheng X

[3β-Hydroxysteroid dehydrogenase expressed by gut microbes degrades testosterone and is linked to depression in males.](#)

Cell host & microbe , Volume: 30 Issue: 3 2022 Mar 9

Authors Li D,Liu R,Wang M,Peng R,Fu S,Fu A,Le J,Yao Q,Yuan T,Chi H,Mu X,Sun T,Liu H,Yan P,Wang S,Cheng S,Deng Z,Liu Z,Wang G,Li Y,Liu T

[Lactocaseibacillus 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

[Parabacteroides distasonis induces depressive-like behavior in a mouse model of Crohn`s disease.](#)

Brain, behavior, and immunity , 2021 Aug 14

Authors Gomez-Nguyen A, Basson AR, Dark-Fleury L, Hsu K, Osme A, Menghini P, Pizarro TT, Cominelli F

[Gut microbiota is involved in the antidepressant-like effect of \(S\)-norketamine in an inflammation model of depression.](#)

Pharmacology, biochemistry, and behavior , Volume: 207 2021 Jul 1

Authors Wang Y, Jiang R, Wu Z, Zhou L, Xu J, Huang C, Yang L, Zhu B, Yan E, Liu C, Yang C

[Effect of Lactocaseibacillus paracasei Strain Shirota on Improvement in Depressive Symptoms, and Its Association with Abundance of Actinobacteria in Gut Microbiota.](#)

Microorganisms , Volume: 9 Issue: 5 2021 May 10

Authors Otaka M, Kikuchi-Hayakawa H, Ogura J, Ishikawa H, Yomogida Y, Ota M, Hidese S, Ishida I, Aida M, Matsuda K, Kawai M, Yoshida S, Kunugi H

[Heat-sterilized Bifidobacterium breve prevents depression-like behavior and interleukin-1 \$\beta\$ expression in mice exposed to chronic social defeat stress.](#)

Brain, behavior, and immunity , 2021 May 29

Authors Kosuge A, Kunisawa K, Arai S, Sugawara Y, Shinohara K, Iida T, Wulaer B, Kawai T, Fujigaki H, Yamamoto Y, Saito K, Nabeshima T, Mouri A

[Gut Microbiota Changes in Patients With Major Depressive Disorder Treated With Vortioxetine.](#)

Frontiers in psychiatry , Volume: 12 2021

Authors Ye X, Wang D, Zhu H, Wang D, Li J, Tang Y, Wu J

[Alteration of Gut Microbiome and Correlated Lipid Metabolism in Post-Stroke Depression.](#)

Frontiers in cellular and infection microbiology , Volume: 11 2021

Authors Jiang W, Gong L, Liu F, Ren Y, Mu J

[The gut microbiota in anxiety and depression - A systematic review.](#)

Clinical psychology review , Volume: 83 2020 Oct 29

Authors Simpson CA, Diaz-Arteche C, Eliby D, Schwartz OS, Simmons JG, Cowan CSM

[Ingestion of Lactobacillus intestinalis and Lactobacillus reuteri causes depression- and anhedonia-like phenotypes in antibiotic-treated mice via the vagus nerve.](#)

Journal of neuroinflammation , Volume: 17 Issue: 1 2020 Aug 15

Authors Wang S, Ishima T, Zhang J, Qu Y, Chang L, Pu Y, Fujita Y, Tan Y, Wang X, Hashimoto K

[Altered Composition of Gut Microbiota in Depression: A Systematic Review.](#)

Frontiers in psychiatry , Volume: 11 2020

Authors Barandouzi ZA, Starkweather AR, Henderson WA, Gyamfi A, Cong XS

[Flavonoid-Rich Orange Juice Intake and Altered Gut Microbiome in Young Adults with Depressive Symptom: A Randomized Controlled Study.](#)

Nutrients , Volume: 12 Issue: 6 2020 Jun 18

Authors Park M, Choi J, Lee HJ

[Reductions in anti-inflammatory gut bacteria are associated with depression in a sample of young adults.](#)

Brain, behavior, and immunity , 2020 Mar 27

Authors Liu RT, Rowan-Nash AD, Sheehan AE, Walsh RFL, Sanzari CM, Korry BJ, Belenky P

[Feeling down? A systematic review of the gut microbiota in anxiety/depression and irritable bowel syndrome.](#)

Journal of affective disorders , Volume: 266 2020 Apr 1

Authors Simpson CA, Mu A, Haslam N, Schwartz OS, Simmons JG

[The gut microbiota is associated with psychiatric symptom severity and treatment outcome among individuals with serious mental illness.](#)

Journal of affective disorders , Volume: 264 2020 Mar 1

Authors Madan A, Thompson D, Fowler JC, Ajami NJ, Salas R, Frueh BC, Bradshaw MR, Weinstein BL, Oldham JM, Petrosino JF

[Supplementation of Sesamin Alleviates Stress-Induced Behavioral and Psychological Disorders via Reshaping the Gut Microbiota Structure.](#)

Journal of agricultural and food chemistry , Volume: 67 Issue: 45 2019 Nov 13

Authors Wang Q, Jia M, Zhao Y, Hui Y, Pan J, Yu H, Yan S, Dai X, Liu X, Liu Z

[The neuroactive potential of the human gut microbiota in quality of life and depression.](#)

Nature microbiology , Volume: 4 Issue: 4 2019 Apr

Authors Valles-Colomer M, Falony G, Darzi Y, Tigchelaar EF, Wang J, Tito RY, Schiweck C, Kurilshikov A, Joossens M, Wijmenga C, Claes S, Van Oudenhove L, Zhernakova A, Vieira-Silva S, Raes J

Clostridium butyricum MIYAIRI 588 as Adjunctive Therapy for Treatment-Resistant Major Depressive Disorder: A Prospective Open-Label Trial.

Clinical neuropharmacology , Volume: 41 Issue: 5 2018 Sep/Oct

Authors Miyaoka T,Kanayama M,Wake R,Hashioka S,Hayashida M,Nagahama M,Okazaki S,Yamashita S,Miura S,Miki H,Matsuda H,Koike M,Izuhara M,Araki T,Tsuchie K,Azis IA,Arauchi R,Abdullah RA,Oh-Nishi A,Horiguchi J

The role of microbiota in the pathogenesis of schizophrenia and major depressive disorder and the possibility of targeting microbiota as a treatment option

Oncotarget , Volume: 8 Issue: 59 2017 Sep 27

Authors Lv F,Chen S,Wang L,Jiang R,Tian H,Li J,Yao Y,Zhuo C

Effect of Lactobacillus rhamnosus HN001 in Pregnancy on Postpartum Symptoms of Depression and Anxiety: A Randomised Double-blind Placebo-controlled Trial.

EBioMedicine , Volume: 24 2017 Oct

Authors Slykerman RF,Hood F,Wickens K,Thompson JMD,Barthow C,Murphy R,Kang J,Rowden J,Stone P,Crane J,Stanley T,Abels P,Purdie G,Maude R,Mitchell EA,Probiotic in Pregnancy Study Group

Probiotic Bifidobacterium longum NCC3001 Reduces Depression Scores and Alters Brain Activity: A Pilot Study in Patients With Irritable Bowel Syndrome.

Gastroenterology , Volume: 153 Issue: 2 2017 Aug

Authors Pinto-Sanchez MI,Hall GB,Ghajar K,Nardelli A,Bolino C,Lau JT,Martin FP,Cominetti O,Welsh C,Rieder A,Traynor J,Gregory C,De Palma G,Pigrau M,Ford AC,Macri J,Berger B,Bergonzelli G,Surette MG,Collins SM,Moayyedi P,Bercik P

Similar Fecal Microbiota Signatures in Patients With Diarrhea-Predominant Irritable Bowel Syndrome and Patients With Depression.

Clinical gastroenterology and hepatology : the official clinical practice journal of the American

Gastroenterological Association , Volume: 14 Issue: 11 2016 Nov

Authors Liu Y,Zhang L,Wang X,Wang Z,Zhang J,Jiang R,Wang X,Wang K,Liu Z,Xia Z,Xu Z,Nie Y,Lv X,Wu X,Zhu H,Duan L

Altered fecal microbiota composition in patients with major depressive disorder.

Brain, behavior, and immunity , Volume: 48 2015 Aug

Authors Jiang H,Ling Z,Zhang Y,Mao H,Ma Z,Yin Y,Wang W,Tang W,Tan Z,Shi J,Li L,Ruan B

Isovaleric acid in stool correlates with human depression.

Nutritional neuroscience , Volume: 19 Issue: 7 2016 Sep

Authors Szczesniak O,Hestad KA,Hanssen JF,Rudi K

Estimating modifiers from bacteria associations

Microbiome Prescription , Volume: 2023 Issue: 3 2023 Apr

Authors K Lassenen

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

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

The anti-hyperlipidemic effect and underlying mechanisms of barley (Hordeum vulgare L.) grass polysaccharides in mice induced by a high-fat diet.

Food & function , 2023 Jul 14

Authors Yan JK,Chen TT,Li LQ,Liu F,Liu X,Li L

Effects of liposoluble components of highland barley spent grains on physiological indexes, intestinal microorganisms, and the liver transcriptome in mice fed a high-fat diet.

Food science & nutrition , Volume: 11 Issue: 6 2023 Jun

Authors Zhang J,Luo Y,Feng S,Sun W,Li S,Kong L

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

Effects of Dietary Oregano Essential Oil on Cecal Microorganisms and Muscle Fatty Acids of Luhua Chickens.

Animals : an open access journal from MDPI , Volume: 12 Issue: 22 2022 Nov 20

Authors Wu T,Yang F,Jiao T,Zhao S

Lactobacillus rhamnosus GG protects against atherosclerosis by improving ketone body synthesis.

Applied microbiology and biotechnology , Volume: 106 Issue: 24 2022 Dec

Authors Zhai T,Ren W,Wang P,Zheng L

Miya Improves Osteoarthritis Characteristics via the Gut-Muscle-Joint Axis According to Multi-Omics Analyses.

Frontiers in pharmacology , Volume: 13 2022

Authors Xu T,Yang D,Liu K,Gao Q,Liu Z,Li G

Alterations in the composition of the gut microbiota affect absorption of cholecalciferol in severe osteoporosis.

Journal of bone and mineral metabolism , 2022 Feb 1

Authors Cheng J,Zhong WL,Zhao JW,Zhai JH,Chen C,Chao AJ,Ren Z,Zhou L,Wang BM

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

Active Smoking Induces Aberrations in Digestive Tract Microbiota of Rats.

Frontiers in cellular and infection microbiology , Volume: 11 2021

Authors Wang X,Ye P,Fang L,Ge S,Huang F,Polverini PJ,Heng W,Zheng L,Hu Q,Yan F,Wang W

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

Oregano Essential Oils Promote Rumen Digestive Ability by Modulating Epithelial Development and Microbiota Composition in Beef Cattle.

Frontiers in nutrition , Volume: 8 2021

Authors Zhang R,Wu J,Lei Y,Bai Y,Jia L,Li Z,Liu T,Xu Y,Sun J,Wang Y,Zhang K,Lei Z

Gut microbiome and metabolome in a non-human primate model of chronic excessive alcohol drinking.

Translational psychiatry , Volume: 11 Issue: 1 2021 Dec 1

Authors Piacentino D,Grant-Beurmann S,Vizioli C,Li X,Moore CF,Ruiz-Rodado V,Lee MR,Joseph PV,Fraser CM,Weerts EM,Leggjo L

Time to abandon ampicillin plus gentamicin in favour of ampicillin plus ceftriaxone in *Enterococcus faecalis* infective endocarditis? A meta-analysis of comparative trials.

Clinical research in cardiology : official journal of the German Cardiac Society , 2021 Nov 9

Authors Mirna M,Topf A,Schmutzler L,Hoppe UC,Lichtenauer M

The Association between Vitamin D and Gut Microbiota: A Systematic Review of Human Studies.

Nutrients , Volume: 13 Issue: 10 2021 Sep 26

Authors Bellerba F,Muzio V,Gnagnarella P,Facciotti F,Chiocca S,Bossi P,Cortinovis D,Chiaradonna F,Serrano D,Raimondi S,Zerbato B,Palorini R,Canova S,Gaeta A,Gandini S

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

International journal of molecular sciences , Volume: 22 Issue: 20 2021 Oct 16

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

Dietary and Pharmacologic Manipulations of Host Lipids and Their Interaction With the Gut Microbiome in Non-human Primates.

Frontiers in medicine , Volume: 8 2021

Authors Lang JM,Sedgeman LR,Cai L,Layne JD,Wang Z,Pan C,Lee R,Temel RE,Lusis AJ

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

[Vitamin D and The Gut Microbiota: a Narrative Literature Review.](#)

Clinical nutrition research , Volume: 10 Issue: 3 2021 Jul

Authors Tangestani H,Boroujeni HK,Djafarian K,Emamat H,Shab-Bidar S

[Prebiotic fructans have greater impact on luminal microbiology and CD3+ T cells in healthy siblings than patients with Crohn` s disease: A pilot study investigating the potential for primary prevention of inflammatory bowel disease.](#)

Clinical nutrition (Edinburgh, Scotland) , Volume: 40 Issue: 8 2021 Jun 23

Authors Hedin CR,McCarthy NE,Louis P,Farquharson FM,McCartney S,Stagg AJ,Lindsay JO,Whelan K

[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

[Dietary oregano essential oil supplementation improves intestinal functions and alters gut microbiota in late-phase laying hens.](#)

Journal of animal science and biotechnology , Volume: 12 Issue: 1 2021 Jul 6

Authors Feng J,Lu M,Wang J,Zhang H,Qiu K,Qi G,Wu S

[Dietary oregano essential oil supplementation improves intestinal functions and alters gut microbiota in late-phase laying hens.](#)

Journal of animal science and biotechnology , Volume: 12 Issue: 1 2021 Jul 6

Authors Feng J,Lu M,Wang J,Zhang H,Qiu K,Qi G,Wu S

[Intestinal Microbiota Mediates High-Fructose and High-Fat Diets to Induce Chronic Intestinal Inflammation.](#)

Frontiers in cellular and infection microbiology , Volume: 11 2021

Authors Tan R,Dong H,Chen Z,Jin M,Yin J,Li H,Shi D,Shao Y,Wang H,Chen T,Yang D,Li J

[Effect of Dietary Inulin Supplementation on the Gut Microbiota Composition and Derived Metabolites of Individuals Undergoing Hemodialysis: A Pilot Study.](#)

Journal of renal nutrition : the official journal of the Council on Renal Nutrition of the National Kidney Foundation , 2021 Jun 11

Authors Biruete A,Cross TL,Allen JM,Kistler BM,de Loor H,Evenepoel P,Fahey GC Jr,Bauer L,Swanson KS,Wilund KR

[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

[Vitamin D ameliorates high-fat-diet-induced hepatic injury via inhibiting pyroptosis and alters gut microbiota in rats.](#)

Archives of biochemistry and biophysics , Volume: 705 2021 Jul 15

Authors Zhang X,Shang X,Jin S,Ma Z,Wang H,Ao N,Yang J,Du J

[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

[Cholecalciferol Supplementation Does Not Prevent the Development of Metabolic Syndrome or Enhance the Beneficial Effects of Omega-3 Fatty Acids in Obese Mice.](#)

The Journal of nutrition , 2021 Apr 13

Authors Valle M,Mitchell PL,Pilon G,St-Pierre P,Varin T,Richard D,Vohl MC,Jacques H,Delvin E,Levy E,Gagnon C,Bazinet L,Marette A

[The Anti-Inflammatory Effect and Mucosal Barrier Protection of Clostridium butyricum RH2 in Ceftriaxone-Induced Intestinal Dysbacteriosis.](#)

Frontiers in cellular and infection microbiology , Volume: 11 2021

Authors Li Y,Liu M,Liu H,Sui X,Liu Y,Wei X,Liu C,Cheng Y,Ye W,Gao B,Wang X,Lu Q,Cheng H,Zhang L,Yuan J,Li M

[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

[Inhibition of Fungal Strains Isolated from Cereal Grains via Vapor Phase of Essential Oils.](#)

Molecules (Basel, Switzerland) , Volume: 26 Issue: 5 2021 Mar 1

Authors Strelková T,Nemes B,Kovács A,Novotný D,Božik M,Klouček P

[Effects of colon-targeted vitamins on the composition and metabolic activity of the human gut microbiome- a pilot study.](#)

Gut microbes , Volume: 13 Issue: 1 2021 Jan-Dec

Authors Pham VT,Fehlbaum S,Seifert N,Richard N,Bruins MJ,Sybesma W,Rehman A,Steinert RE

[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.](#)

Frontiers in microbiology , Volume: 11 2020

Authors Zhang X,Tong Y,Lyu X,Wang J,Wang Y,Yang R

[Effects of Iron and Zinc Biofortified Foods on Gut Microbiota In Vivo \(*Gallus gallus*\): A Systematic Review.](#)

Nutrients , Volume: 13 Issue: 1 2021 Jan 9

Authors Juste Contin Gomes M,Stampini Duarte Martino H,Tako E

[Berberine alters gut microbial function through modulation of bile acids.](#)

BMC microbiology , Volume: 21 Issue: 1 2021 Jan 11

Authors Wolf PG,Devendran S,Doden HL,Ly LK,Moore T,Takei H,Nitto H,Murai T,Kurosawa T,Chlipala GE,Green SJ,Kakiyama G,Kashyap P,McCracken VJ,Gaskins HR,Gillevet PM,Ridlon JM

[Lactulose ingestion causes an increase in the abundance of gut-resident bifidobacteria in Japanese women: a randomised, double-blind, placebo-controlled crossover trial.](#)

Beneficial microbes , 2021 Jan 4

Authors Sakai Y,Hamano H,Ochi H,Abe F,Masuda K,Iino H

[Algal Oil Rich in n-3 PUFA Alleviates DSS-Induced Colitis via Regulation of Gut Microbiota and Restoration of Intestinal Barrier.](#)

Frontiers in microbiology , Volume: 11 2020

Authors Xu Z,Tang H,Huang F,Qiao Z,Wang X,Yang C,Deng Q

[Probiotic *Lactobacillus rhamnosus* GG Promotes Mouse Gut Microbiota Diversity and T Cell Differentiation.](#)

Frontiers in microbiology , Volume: 11 2020

Authors Shi CW,Cheng MY,Yang X,Lu YY,Yin HD,Zeng Y,Wang RY,Jiang YL,Yang WT,Wang JZ,Zhao DD,Huang HB,Ye LP,Cao X,Yang GL,Wang CF

[Exopolysaccharides from *Lactobacillus plantarum* YW11 improve immune response and ameliorate inflammatory bowel disease symptoms.](#)

Acta biochimica Polonica , Volume: 67 Issue: 4 2020 Dec 17

Authors Min Z,Xiaona H,Aziz T,Jian Z,Zhennai Y

[Active Vitamin D₃ Treatment Attenuated Bacterial Translocation via Improving Intestinal Barriers in Cirrhotic Rats.](#)

Molecular nutrition & food research , 2020 Nov 30

Authors Lee PC,Hsieh YC,Huo TI,Yang UC,Lin CH,Li CP,Huang YH,Hou MC,Lin HC,Lee KC

[The Osteoporosis/Microbiota Linkage: The Role of miRNA.](#)

International journal of molecular sciences , Volume: 21 Issue: 23 2020 Nov 24

Authors De Martinis M,Ginaldi L,Allegra A,Sirufi MM,Pioggia G,Tonacci A,Gangemi S

[Adjunctive treatment with probiotics partially alleviates symptoms and reduces inflammation in patients with irritable bowel syndrome.](#)

European journal of nutrition , 2020 Nov 22

Authors Xu H,Ma C,Zhao F,Chen P,Liu Y,Sun Z,Cui L,Kwok LY,Zhang H

[Dynamic gut microbiome changes to low-iron challenge.](#)

Applied and environmental microbiology , 2020 Nov 13

Authors Coe GL,Pinkham NV,Celis AI,Johnson C,DuBois JL,Walk ST

[Alcohol decreases intestinal ratio of *Lactobacillus* to *Enterobacteriaceae* and induces hepatic immune tolerance in a murine model of DSS-colitis.](#)

Gut microbes , Volume: 12 Issue: 1 2020 Nov 9

Authors Kuprys PV,Cannon AR,Shieh J,Iftekhhar N,Park SK,Eberhardt JM,Ding X,Choudhry MA

[Black garlic melanoidins prevent obesity, reduce serum LPS levels and modulate the gut microbiota composition in high-fat diet-induced obese C57BL/6J mice.](#)

Food & function , Volume: 11 Issue: 11 2020 Nov 18

Authors Wu J,Liu Y,Dou Z,Wu T,Liu R,Sui W,Jin Y,Zhang M

[Enterococcus faecium R0026 combined with *Bacillus subtilis* R0179 prevent obesity-associated hyperlipidaemia and modulate gut microbiota in C57BL/6 mice.](#)

Journal of microbiology and biotechnology , 2020 Oct 20

Authors Huang J,Huang J,Yin T,Lv H,Zhang P,Li H

Supplement of high protein-enriched diet modulates the diversity of gut microbiota in C57 or PD-1H-depleted mice.

Journal of microbiology and biotechnology , 2020 Oct 30

Authors Xie Y,Zhao P,Han Z,Li W,Shi D,Xu L,Yi Q

Influence of fermented soy protein consumption on hypertension and gut microbial modulation in spontaneous hypertensive rats.

Bioscience of microbiota, food and health , Volume: 39 Issue: 4 2020

Authors Daliri EB,Ofosu FK,Chelliah R,Lee BH,An H,Elahi F,Barathikannan K,Kim JH,Oh DH

Synergistic Effect of Berberine-Based Chinese Medicine Assembled Nanostructures on Diarrhea-Predominant Irritable Bowel Syndrome In Vivo.

Frontiers in pharmacology , Volume: 11 2020

Authors Li L,Cui H,Li T,Qi J,Chen H,Gao F,Tian X,Mu Y,He R,Lv S,Chu F,Xu B,Wang P,Lei H,Xu H,Wang C

Modulatory Effects of Triphala and Manjistha Dietary Supplementation on Human Gut Microbiota: A Double-Blind, Randomized, Placebo-Controlled Pilot Study.

Journal of alternative and complementary medicine (New York, N.Y.) , Volume: 26 Issue: 11 2020 Nov

Authors Peterson CT,Pourang A,Dhaliwal S,Kohn JN,Uchitel S,Singh H,Mills PJ,Peterson SN,Sivamani RK

Gut microbiome and osteoporosis: a review.

Bone & joint research , Volume: 9 Issue: 8 2020 Aug

Authors Li S,Mao Y,Zhou F,Yang H,Shi Q,Meng B

Intervention with kimchi microbial community ameliorates obesity by regulating gut microbiota.

Journal of microbiology (Seoul, Korea) , 2020 Sep 2

Authors Park SE,Kwon SJ,Cho KM,Seo SH,Kim EJ,Unno T,Bok SH,Park DH,Son HS

Impacts of Habitual Diets Intake on Gut Microbial Counts in Healthy Japanese Adults.

Nutrients , Volume: 12 Issue: 8 2020 Aug 12

Authors Sugimoto T,Shima T,Amamoto R,Kaga C,Kado Y,Watanabe O,Shiinoki J,Iwazaki K,Shigemura H,Tsuji H,Matsumoto S

Nuts and their Effect on Gut Microbiota, Gut Function and Symptoms in Adults: A Systematic Review and Meta-Analysis of Randomised Controlled Trials.

Nutrients , Volume: 12 Issue: 8 2020 Aug 6

Authors Creedon AC,Hung ES,Berry SE,Whelan K

Dietary supplementation with Bacillus subtilis DSM 32315 alters the intestinal microbiota and metabolites in weaned piglets.

Journal of applied microbiology , 2020 Jul 6

Authors Ding H,Zhao X,Ma C,Gao Q,Yin Y,Kong X,He J

Soy food intake associates with changes in the metabolome and reduced blood pressure in a gut microbiota dependent manner.

Nutrition, metabolism, and cardiovascular diseases : NMCD , 2020 May 18

Authors Shah RD,Tang ZZ,Chen G,Huang S,Ferguson JF

Cocoa Polyphenols and Gut Microbiota Interplay: Bioavailability, Prebiotic Effect, and Impact on Human Health.

Nutrients , Volume: 12 Issue: 7 2020 Jun 27

Authors Sorrenti V,Ali S,Mancin L,Davinelli S,Paoli A,Scapagnini G

Cocoa Polyphenols and Gut Microbiota Interplay: Bioavailability, Prebiotic Effect, and Impact on Human Health.

Nutrients , Volume: 12 Issue: 7 2020 Jun 27

Authors Sorrenti V,Ali S,Mancin L,Davinelli S,Paoli A,Scapagnini G

Thyroid-Gut-Axis: How Does the Microbiota Influence Thyroid Function?

Nutrients , Volume: 12 Issue: 6 2020 Jun 12

Authors Knezevic J,Starchl C,Tmava Berisha A,Amrein K

The *in vitro* Effect of Fibers With Different Degrees of Polymerization on Human Gut Bacteria.

Frontiers in microbiology , Volume: 11 2020

Authors Chen M,Fan B,Liu S,Imam KMSU,Xie Y,Wen B,Xin F

Supplemental *Clostridium butyricum* Modulates Lipid Metabolism Through Shaping Gut Microbiota and Bile Acid Profile of Aged Laying Hens.

Frontiers in microbiology , Volume: 11 2020

Authors Wang WW,Wang J,Zhang HJ,Wu SG,Qi GH

Lactobacillus reuteri NK33 and *Bifidobacterium adolescentis* NK98 alleviate *Escherichia coli*-induced depression and gut dysbiosis in mice.

Journal of microbiology and biotechnology , 2020 Apr 29

Authors Han SK,Kim JK,Joo MK,Lee KE,Han SW,Kim DH

Cocoa diet modulates gut microbiota composition and improves intestinal health in Zucker diabetic rats.

Food research international (Ottawa, Ont.) , Volume: 132 2020 Jun

Authors Álvarez-Cilleros D,Ramos S,López-Oliva ME,Escrivá F,Álvarez C,Fernández-Millán E,Martín MÁ

[Cocoa diet modulates gut microbiota composition and improves intestinal health in Zucker diabetic rats.](#)

Food research international (Ottawa, Ont.) , Volume: 132 2020 Jun

Authors Álvarez-Cilleros D,Ramos S,López-Oliva ME,Escrivá F,Álvarez C,Fernández-Millán E,Martín MÁ

[Effect of Berberine on Atherosclerosis and Gut Microbiota Modulation and Their Correlation in High-Fat Diet-Fed ApoE^{-/-} Mice.](#)

Frontiers in pharmacology , Volume: 11 2020

Authors Wu M,Yang S,Wang S,Cao Y,Zhao R,Li X,Xing Y,Liu L

[Prebiotic activity of garlic \(*Allium sativum*\) extract on *Lactobacillus acidophilus*.](#)

Veterinary world , Volume: 12 Issue: 12 2019 Dec

Authors Sunu P,Sunarti D,Mahfudz LD,Yunianto VD

[Impact of Vancomycin-Induced Changes in the Intestinal Microbiota on the Pharmacokinetics of Simvastatin.](#)

Clinical and translational science , 2020 Feb 14

Authors Sunwoo J, Ji SC, Kim AH, Yu KS, Cho JY, Jang JJ, Lee S

[The effects of high doses of vitamin D on the composition of the gut microbiome of adolescent girls.](#)

Clinical nutrition ESPEN , Volume: 35 2020 Feb

Authors Tabatabaeizadeh SA,Fazeli M,Meshkat Z,Khodashenas E,Esmaeili H,Mazloun S,Ferns GA,Abdizadeh MF,Ghayour-Mobarhan M

[Dietary prophage inducers and antimicrobials: toward landscaping the human gut microbiome.](#)

Gut microbes , 2020 Jan 13

Authors Boling L,Cuevas DA,Grasis JA,Kang HS,Knowles B,Levi K,Maughan H,McNair K,Rojas MI, Sanchez SE,Smurthwaite C,Rohwer F

[The Effect of Various Doses of Oral Vitamin D³ Supplementation on Gut Microbiota in Healthy Adults: A Randomized, Double-blinded, Dose-response Study.](#)

Anticancer research , Volume: 40 Issue: 1 2020 Jan

Authors Charoengam N,Shirvani A,Kalajian TA,Song A,Holick MF

[Food for thought about manipulating gut bacteria.](#)

Nature , Volume: 577 Issue: 7788 2020 Jan

Authors Delzenne NM,Bindels LB

[The effect of inulin and resistant maltodextrin on weight loss during energy restriction: a randomised, placebo-controlled, double-blinded intervention.](#)

European journal of nutrition , 2019 Oct 11

Authors Hess AL,Benítez-Páez A,Blædel T,Larsen LH,Iglesias JR,Madera C,Sanz Y,Larsen TM,MyNewGut Consortium.

[Transfusional iron overload and intravenous iron infusions modify the mouse gut microbiota similarly to dietary iron.](#)

NPJ biofilms and microbiomes , Volume: 5 2019

Authors La Carpia F,Wojczyk BS,Annavaajhala MK,Rebbaa A,Culp-Hill R,D`Alessandro A,Freedberg DE,Uhlemann AC,Hod EA

[Transfusional iron overload and intravenous iron infusions modify the mouse gut microbiota similarly to dietary iron.](#)

NPJ biofilms and microbiomes , Volume: 5 Issue: 1 2019

Authors La Carpia F,Wojczyk BS,Annavaajhala MK,Rebbaa A,Culp-Hill R,D`Alessandro A,Freedberg DE,Uhlemann AC,Hod EA

[Lactulose drives a reversible reduction and qualitative modulation of the faecal microbiota diversity in healthy dogs.](#)

Scientific reports , Volume: 9 Issue: 1 2019 Sep 16

Authors Ferreira MDF,Salavati Schmitz S,Schoenebeck JJ,Clements DN,Campbell SM,Gaylor DE,Mellanby RJ,Gow AG,Salavati M

[Effects of *Lactobacillus plantarum* on the intestinal morphology, intestinal barrier function and microbiota composition of suckling piglets.](#)

Journal of animal physiology and animal nutrition , 2019 Sep 9

Authors Wang Q,Sun Q,Qi R,Wang J,Qiu X,Liu Z,Huang J

[Lactobacillus reuteri DSM 17938 feeding of healthy newborn mice regulates immune responses while modulating gut microbiota and boosting beneficial metabolites.](#)

American journal of physiology. Gastrointestinal and liver physiology , 2019 Sep 4

Authors Liu Y,Tian X,He B,Hoang TK,Taylor CM,Blanchard E,Freeborn J,Park S,Luo M,Couturier J,Tran DQ,Roos S,Wu G,Rhoads JM

[Dietary Factors and Modulation of Bacteria Strains of *Akkermansia muciniphila* and *Faecalibacterium prausnitzii*: A Systematic Review.](#)

Nutrients , Volume: 11 Issue: 7 2019 Jul 11

Authors Verhoog S,Taneri PE,Roa Díaz ZM,Marques-Vidal P,Troup JP,Bally L,Franco OH,Glisic M,Muka T

[Walnuts and Vegetable Oils Differentially Affect the Gut Microbiome and Associations with Cardiovascular Risk Factors \(OR29-06-19\).](#)

Current developments in nutrition , Volume: 3 Issue: Suppl 1 2019 Jun

Authors Tindall A,McLimans C,Petersen K,Kris-Etherton P,Lamendella R

Dietary supplementation with probiotics regulates gut microbiota structure and function in Nile tilapia exposed to aluminum.

PeerJ , Volume: 7 2019

Authors Yu L,Qiao N,Li T,Yu R,Zhai Q,Tian F,Zhao J,Zhang H,Chen W

Effects of Different Diets on Microbiota in The Small Intestine Mucus and Weight Regulation in Rats.

Scientific reports , Volume: 9 Issue: 1 2019 Jun 11

Authors Meng Y,Li X,Zhang J,Wang C,Lu F

Stability of probiotics with antibiotics via gastric tube by simple suspension method: An in vitro study.

Journal of infection and chemotherapy : official journal of the Japan Society of Chemotherapy , 2019 May 21

Authors Mitsuboshi S,Muto K,Okubo K,Fukuhara M

The role of short-chain fatty acids in microbiota-gut-brain communication.

Nature reviews. Gastroenterology & hepatology , Volume: 16 Issue: 8 2019 Aug

Authors Dalile B, Van Oudenhove L, Vervliet B, Verbeke K

Fermented *Momordica charantia* L. juice modulates hyperglycemia, lipid profile, and gut microbiota in type 2 diabetic rats.

Food research international (Ottawa, Ont.) , Volume: 121 2019 Jul

Authors Gao H,Wen JJ,Hu JL,Nie QX,Chen HH,Xiong T,Nie SP,Xie MY

Sugar enhances outer membrane fusion in *Deinococcus grandis* spheroplasts to generate calcium ion-dependent extra-huge cells.

FEMS microbiology letters , Volume: 366 Issue: 8 2019 Apr 1

Authors Nishino K,Tsuchikado R,Nishida H

Influence of proton pump inhibitors on microbiota in chronic liver disease patients.

Hepatology international , Volume: 13 Issue: 2 2019 Mar

Authors Yamamoto K,Ishigami M,Honda T,Takeyama T,Ito T,Ishizu Y,Kuzuya T,Hayashi K,Goto H,Hirooka Y

Spent Coffee Grounds Extract, Rich in Mannooligosaccharides, Promotes a Healthier Gut Microbial Community in a Dose-Dependent Manner.

Journal of agricultural and food chemistry , Volume: 67 Issue: 9 2019 Mar 6

Authors Pérez-Burillo S,Pastoriza S,Fernández-Arteaga A,Luzón G,Jiménez-Hernández N,D`Auria G,Francino MP,Rufián-Henares JÁ

Intestinal Morphologic and Microbiota Responses to Dietary *Bacillus* spp. in a Broiler Chicken Model.

Frontiers in physiology , Volume: 9 2018

Authors Li CL,Wang J,Zhang HJ,Wu SG,Hui QR,Yang CB,Fang RJ,Qi GH

A low-gluten diet induces changes in the intestinal microbiome of healthy Danish adults.

Nature communications , Volume: 9 Issue: 1 2018 Nov 13

Authors Hansen LBS,Roager HM,Søndertoft NB,Gøbel RJ,Kristensen M,Vallès-Colomer M,Vieira-Silva S,Ibrügger S,Lind MV,Mærkedahl RB,Bahl MI,Madsen ML,Havelund J,Falony G,Tetens I,Nielsen T,Allin KH,Frandsen HL,Hartmann B,Holst JJ,Sparholt MH,Holck J,Blennow A,Moll JM,Meyer AS,Hoppe C,Poulsen JH,Carvalho V,Sagnelli D,Dalgaard MD,Christensen AF,Lydolph MC,Ross AB,Villas-Bôas S,Brix S,Sicheritz-Pontén T,Buschard K,Linneberg A,Rumessen JJ,Ekstrøm CT,Ritz C,Kristiansen K,Nielsen HB,Vestergaard H,Færgeman NJ,Raes J,Frøkiær H,Hansen T,Lauritzen L,Gupta R,Licht TR,Pedersen O

Strategies to promote abundance of *Akkermansia muciniphila*, an emerging probiotics in the gut, evidence from dietary intervention studies.

Journal of functional foods , Volume: 33 2017 Jun

Authors Zhou K

Inulin-type fructans improve active ulcerative colitis associated with microbiota changes and increased short-chain fatty acids levels.

Gut microbes , 2018 Nov 5

Authors Valcheva R,Koleva P,Martínez I,Walter J,Gänzle MG,Dieleman LA

Prevalence and Antimicrobial Susceptibility of Bacterial Uropathogens Isolated from Pediatric Patients at Yekatit 12 Hospital Medical College, Addis Ababa, Ethiopia.

International journal of microbiology , Volume: 2018 2018

Authors Merga Duffa Y,Terfa Kitila K,Mamuye Gebretsadik D,Bitew A

Additional APriori Analysis Available

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

Acne

ADHD
Allergic Rhinitis (Hay Fever)
Allergies
Alopecia (Hair Loss)
Alzheimer's disease
Amyotrophic lateral sclerosis (ALS) Motor Neuron
Ankylosing spondylitis
Anorexia Nervosa
Antiphospholipid syndrome (APS)
Asthma
Atherosclerosis
Autism
Autoimmune Disease
Barrett esophagus cancer
Bipolar Disorder
Brain Trauma
Carcinoma
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
Fibromyalgia
Functional constipation / chronic idiopathic constipation
gallstone disease (gsd)
Gastroesophageal reflux disease (Gerd) including Barrett's esophagus
Generalized anxiety disorder
Gout
Graves' disease
Hashimoto's thyroiditis
Hidradenitis Suppurativa
Histamine Issues From Ubiome
Histamine Issues,Mast Cell Issue, DAO Insufficiency
hypercholesterolemia (High Cholesterol)
hyperglycemia
Hyperlipidemia (High Blood Fats)
hypersomnia
hypertension (High Blood Pressure)
Hypoxia
IgA nephropathy (IgAN)
Inflammatory Bowel Disease
Insomnia

Intelligence
Irritable Bowel Syndrome
Juvenile idiopathic arthritis
Liver Cirrhosis
Long COVID
Lung Cancer
ME/CFS with IBS
ME/CFS without IBS
Menopause
Metabolic Syndrome
Mood Disorders
Multiple Sclerosis
Multiple system atrophy (MSA)
Neuropathy (all types)
neuropsychiatric disorders (PANDAS, PANS)
Nonalcoholic Fatty Liver Disease (nafld) Nonalcoholic
NonCeliac Gluten Sensitivity
Obesity
obsessive-compulsive disorder
Osteoarthritis
Osteoporosis
Parkinson's Disease
Postural orthostatic tachycardia syndrome
Premenstrual dysphoric disorder
Psoriasis
rheumatoid arthritis (RA),Spondyloarthritis (SpA)
Rosacea
Schizophrenia
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