

## Microbiome Information for: Mood Disorders

### 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**

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Best practise for making microbiome adjustments is to obtain the individual's 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](mailto:Research@MicrobiomePrescription.com)

[Our Facebook Discussion Page](#)

## Bacteria being reported because of atypical values.

These bacteria were reported atypical in studies of Mood Disorders

**Nota Benia:** Many studies are done with a small sample size or mixtures of condition subsets which can greatly diminish the ability to detect bacteria shifts.

Bacteria Name	Rank Shift	Taxonomy ID	Bacteria Name	Rank	Shift	Taxonomy ID
Actinomycetes	class High	1760	Mogibacterium	genus	High	86331
Bacteroidia	class High	200643	Morganella	genus	High	90690
Betaproteobacteria	class High	28216	Morganella	genus	High	108061
Deferribacteres	class Low	68337	Murimonas	genus	Low	1774128
Delta proteobacteria	class High	28221	Odoribacter	genus	High	283168
Elusimicrobia	class Low	641853	Olsenella	genus	High	133925
Gammaproteobacteria	class High	1236	Oscillibacter	genus	High	459786
Mollicutes	class Low	31969	Oscillospira	genus	High	119852
Spirochaetia	class Low	203692	Parabacteroides	genus	High	375288
Terriglobia	class Low	204432	Paraprevotella	genus	High	577309
Acidaminococcaceae	family High	909930	Parimonas	genus	High	543311
Akkermansiaceae	family High	1647988	Peptostreptococcus	genus	High	1257
Alcaligenaceae	family Low	506	Porphyromonas	genus	High	836
Bacteroidaceae	family High	815	Prevotella	genus	Low	838
Bifidobacteriaceae	family High	31953	Propionibacterium	genus	Low	1743
Campylobacteraceae	family High	72294	Pseudomonas	genus	Low	286
Chitinophagaceae	family Low	563835	Pyramidobacter	genus	Low	638847
Christensenellaceae	family Low	990719	Roseburia	genus	Low	841
Clostridiales Family XI. Incertae Sedis	family High	543310	Rothia	genus	High	32207
Corynebacteriaceae	family High	1653	Rothia	genus	High	508215
Enterobacteriaceae	family High	543	Ruminococcus	genus	Low	1263
Enterococcaceae	family Low	81852	Saccharomyces	genus	High	4930
Erysipelotrichaceae	family High	128827	Shigella	genus	High	620
Eubacteriaceae	family High	186806	Slackia	genus	High	84108
Eubacteriales Family IV. Incertae Sedis	family High	1689151	Solobacterium	genus	High	123375
Fusobacteriaceae	family High	203492	Sphaerochaeta	genus	High	399320
Lachnospiraceae	family Low	186803	Sphingobacterium	genus	Low	28453
Leuconostocaceae	family Low	81850	Streptococcus	genus	High	1301
Marinifilaceae	family High	1573805	Subdoligranulum	genus	High	292632
Muribaculaceae	family Low	2005473	Succinivibrio	genus	High	83770
Nocardiaceae	family High	85025	Sutterella	genus	Low	40544
Oscillospiraceae	family Low	216572	Tsukamurella	genus	High	2060
Peptostreptococcaceae	family High	186804	Turicibacter	genus	High	191303
Porphyromonadaceae	family High	171551	Veillonella	genus	Low	29465
Prevotellaceae	family Low	171552	Weissella	genus	High	46255
Propionibacteriaceae	family Low	31957	Actinomycetales	order	High	2037
Rhodocyclaceae	family Low	75787	Bacteroidales	order	High	171549
Rhodospirillaceae	family High	41295	Bifidobacteriales	order	Low	85004
Rikenellaceae	family Low	171550	Burkholderiales	order	High	80840
			Eggerthellales	order	High	1643822

Bacteria Name	Rank Shift	Taxonomy ID	Bacteria Name	Rank	Shift	Taxonomy ID
Ruminococcaceae	family Low	541000	Eubacteriales	order	High	186802
Sphingobacteriaceae	family Low	84566	Rhodocyclales	order	Low	206389
Sphingomonadaceae	family High	41297	Sphingomonadales	order	High	204457
Streptococcaceae	family High	1300	[Clostridium] symbiosum	species	High	1512
Streptomycetaceae	family High	2062	[Eubacterium] siraicum	species	High	39492
Sutterellaceae	family Low	995019	Acidaminococcus fermentans	species	High	905
Veillonellaceae	family Low	31977	Acidaminococcus intestini	species	Low	187327
Acidovorax	genus Low	12916	Agathobacter rectalis	species	Low	39491
Actinomyces	genus High	1654	Akkermansia muciniphila	species	High	239935
Adlercreutzia	genus Low	447020	Alkaliphilus oremlandii	species	High	461876
Agathobacter	genus Low	1766253	Alkaliphilus peptidifementans	species	High	426129
Aggregatibacter	genus High	416916	Anaerobutyricum hallii	species	High	39488
Alistipes	genus High	239759	Anaerotignum propionicum	species	High	28446
Anaerococcus	genus High	165779	Bacteroides caccae	species	High	47678
Anaerofilum	genus High	52784	Bacteroides caecigallinarum	species	High	1411144
Anaerofustis	genus High	264995	Bacteroides fragilis	species	High	817
Anaerostipes	genus High	207244	Bacteroides helcogenes	species	Low	290053
Anaerotruncus	genus High	244127	Bacteroides uniformis	species	High	820
Anaerovibrio	genus Low	244127	Bifidobacterium adolescentis	species	High	1680
Apiotrichum	genus High	82373	Bifidobacterium bifidum	species	High	1681
Asaccharobacter	genus High	105983	Bifidobacterium breve	species	Low	1685
Aspergillus	genus Low	553372	Bifidobacterium pseudolongum	species	High	1694
Atopobium	genus High	5052	Butyrivibrio crossotus	species	High	45851
Bacteroides	genus High	1380	Campylobacter jejuni	species	High	197
Bilophila	genus High	816	Clostridium butyricum	species	Low	1492
Blautia	genus Low	35832	Clostridium perfringens	species	High	1502
Bulleidia	genus High	572511	Collinsella aerofaciens	species	Low	74426
Butyricimonas	genus High	118747	Coprococcus comes	species	Low	410072
Campylobacter	genus High	574697	Cronobacter sakazakii	species	High	28141
Candidatus Epulonipiscum	genus High	194	Cronobacter turicensis	species	High	413502
Candidatus Saccharimonas	genus Low	2383	Desulforamulus ruminis	species	High	1564
Chryseobacterium	genus Low	1331051	Desulfovibrio piger	species	Low	901
Clostridium	genus Low	59732	Eggerthella lenta	species	High	84112
Collinsella	genus High	1485	Enterocloster bolteae	species	High	208479
Comamonas	genus High	102106	Enterococcus faecium	species	High	1352
Coprococcus	genus Low	283	Escherichia sp.	species	High	1884818
Coriobacterium	genus High	33042	Eubacterium coprostanoligenes	species	Low	290054
Corynebacterium	genus High	33870	Eubacterium ruminantium	species	High	42322
Deinococcus	genus High	1716	Faecalibacterium prausnitzii	species	High	853
Desulfitobacterium	genus High	1298	Francisella tularensis	species	Low	263
Desulfovibrio	genus High	36853	Gabonia massiliensis	species	Low	1686296
Dialister	genus Low	872	Hungatella hathewayi	species	High	154046
Eggerthella	genus High	39948	Lacrimispora indolis	species	High	69825
Enterobacter	genus Low	84111	Lacticaseibacillus rhamnosus	species	Low	47715
Enterococcus	genus Low	547	Lactiplantibacillus pentosus	species	Low	1589
Erysipelothrix	genus Low	1350	Lactobacillus crispatus	species	High	47770
	genus Low	1647	Lactobacillus gasseri	species	High	1596

Bacteria Name	Rank Shift	Taxonomy ID	Bacteria Name	Rank	Shift	Taxonomy ID
Escherichia	genus High	561	Lactobacillus helveticus	species	Low	1587
Eubacterium	genus High	1730	Lactobacillus intestinalis	species	High	151781
Faecalibacterium	genus Low	216851	Lancefieldella parvula	species	High	1382
Flavonifractor	genus High	946234	Limosilactobacillus reuteri	species	High	1598
Fusicatenibacter	genus High	1407607	Megasphaera elsdenii	species	High	907
Fusobacterium	genus High	848	Mycolicibacterium neoaurum	species	High	1795
Gelria	genus High	189326	Nitratidesulfovibrio vulgaris	species	High	881
Gemella	genus High	1378	Paenibacillus polymyxa	species	High	1406
Gemmiger	genus Low	204475	Parabacteroides distasonis	species	High	823
Haemophilus	genus Low	724	Parabacteroides merdae	species	Low	46503
Halomonas	genus High	2745	Parasporobacterium paucivorans	species	High	115544
Heliobacterium	genus High	2697	Phocaeicola plebeius	species	High	310297
Holdemania	genus High	61170	Ruminococcus callidus	species	Low	40519
Howardella	genus Low	404402	Schnuerera ultunensis	species	High	45497
Hungatella	genus High	1649459	Streptococcus gallolyticus	species	High	315405
Intestinibacter	genus High	1505657	Streptococcus infantarius	species	Low	102684
Klebsiella	genus High	570	Streptococcus parasanguinis	species	High	1318
Lachnosporoides	genus High	1506553	Streptococcus urinalis	species	Low	149016
Lachnospira	genus High	28050	Streptococcus vestibularis	species	High	1343
Lactobacillus	genus High	1578	Syntrophomonas wolfei	species	High	863
Lactonifactor	genus High	420345	Veillonella parvula	species	High	29466
Lutispora	genus Low	667112	Coriobacterineae	suborder	High	255727
Megamonas	genus Low	158846				
Megasphaera	genus High	906				
Methanobrevibacter	genus High	2172				

## 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

Abstention from eating {Fasting}

dietary fiber

Ethyl alcohol {Grain alcohol}

Fiber, total dietary

fruit

fruit/legume fibre

high red meat

Human milk oligosaccharides (prebiotic, Holigos, Stachyose) 2

gram/day

ketogenic diet

Malus domestica {apple}

oligosaccharides {oligosaccharides}

pectin {pectin}

Slow digestible carbohydrates. {Low Glycemic}

β-lactoglobulin {Whey} 60 gram/day

## 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.

2-(3,4-Dihydroxyphenyl)-5,7-dihydroxy-4H-chromen-4-one {Luteolin}	Lacticaseibacillus rhamnosus { <i>L. rhamnosus</i> }
2-Methyl-5-(1-methylethyl)phenol {Carvacrol}	Lactobacillus plantarum { <i>L. plantarum</i> }
allium sativum {garlic}	lactobacillus rhamnosus gg
amikacin	Limosilactobacillus reuteri { <i>L. Reuteri</i> }
amoxicillin [CFS]	linezolid (antibiotic)
ampicillin [CFS]	long-term, moderate-intensity exercise {exercise}
Azadirachta indica {Neem}	low protein diet
azithromycin,[CFS]	meropenem
bacillus	metronidazole [CFS]
bacillus,lactobacillus,streptococcus,saccharomyces probiotic	minocycline [CFS]
benzylpenicillin sodium (antibiotic)	moxifloxacin (antibiotic)
bifidobacterium	norfloxacin
bifidobacterium infantis {B. infantis}	nuts
bifidobacterium longum {B.Longum }	ofloxacin
Capsicum annuum {Peppers} {Cayenne Pepper, Hot Pepper}	origanum vulgare {oregano}
cefazolin sodium salt (antibiotic)	pediococcus acidilactic {RBB9 PEDIOCOCCUS ACIDILACTI}
cefotaxime sodium salt (antibiotic)	pioglitazone,(prescription)
ceftazidime	piperacillin-tazobactam
chloramphenicol	Plantago {Psyllium}
ciprofloxacin [CFS]	Riboflavin {Vitamin B2}
clindamycin [CFS]	rifampicin
Clostridium butyricum MIYAIRI 588 {Miyarisan}	Saccharomyces cerevisiae var boulardii { <i>S. boulardii</i> }
Echinacea Moench {Echinacea}	Shen Ling Bai Zhu San {参苓白术散}
enterococcus faecium {E. faecium}	soy
Escherichia coli Nissle 1917 {Mutaflor}	sparfloxacin (antibiotic)
eugenol {Eugenic acid}	Streptococcus faecalis, Clostridium butyricum, Bacillus
fluxuridine,(prescription)	mesentericus {Bio-three}
fluoroquinolone	terpenophenolics {cannabinoids}
gentamicin	tetracycline
gliadin, glutenin etc {Gluten}	Theobroma cacao {Cacao}
Heyndrickxia coagulans {B. coagulans}	Thymus vulgaris {thyme}
imipenem	tobramycin
Lacticaseibacillus casei { <i>L. casei</i> }	trimethoprim
Lacticaseibacillus paracasei { <i>L.paracasei</i> }	vancomycin (antibiotic)[CFS]
	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 Ol,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 phenotype of major depression: towards enterotypic-phenotypes.](#)

**Acta neuropsychiatrica** , 2023 Apr 13

Authors Maes M,Vasupanrajit A,Jirakran K,Klomkiew P,Chanchaem P,Tunvirachaisakul C,Plaimas K,Suratanea 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

[Characteristics of the gut microbiota in bipolar depressive disorder patients with distinct weight.](#)

**CNS neuroscience & therapeutics** , 2023 Jan 5

Authors Zhang P,Zhang D,Lai J,Fu Y,Wu L,Huang H,Pan Y,Jiang J,Xi C,Che Z,Song X,Hu S

[Gut microbial signatures and differences in bipolar disorder and schizophrenia of emerging adulthood.](#)

**CNS neuroscience & therapeutics** , 2022 Dec 5

Authors Chen YH,Zhou CH,Yu H,Wu WJ,Wang YW,Liu L,Hu GT,Li BJ,Peng ZW,Wang HN

[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 HI,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,Ramíó-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

3 $\beta$ -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

Lacticaseibacillus 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,Osume A,Menghini P,Pizarro TT,Cominelli F

Gut microbial biomarkers for the treatment response in first-episode, drug-naïve schizophrenia: a 24-week follow-up study.

**Translational psychiatry , Volume: 11 Issue: 1 2021 Aug 10**

Authors Yuan X,Wang Y,Li X,Jiang J,Kang Y,Pang L,Zhang P,Li A,Lv L,Andreassen OA,Fan X,Hu S,Song X

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 Lacticaseibacillus 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

Affective disorders impact prevalence of Flavonifractor and abundance of Christensenellaceae in gut microbiota.

**Progress in neuro-psychopharmacology & biological psychiatry , 2021 Mar 10**

Authors Coello K,Hansen TH,Sorensen N,Ottesen NM,Miskoviak K,Pedersen O,Kessing LV,Vinberg M

Bipolar disorder and the gut microbiome: A systematic review.

**Bipolar disorders , 2021 Jan 29**

Authors Sublette ME,Cheung S,Lieberman E,Hu S,Mann JJ,Uhlemann AC,Miller JM

The gut microbiota in anxiety and depression - A systematic review.

**Clinical psychology review , Volume: 83 2020 Oct 29**

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

Gut microbiome in Schizophrenia: Altered functional pathways related to immune modulation and atherosclerotic risk.

**Brain, behavior, and immunity , Volume: 91 2021 Jan**

Authors Nguyen TT,Kosciolek T,Daly RE,Vazquez-Baeza Y,Swafford A,Knight R,Jeste DV

Profiling the differences of gut microbial structure between schizophrenia patients with and without violent behaviors based on 16S rRNA gene sequencing.

**International journal of legal medicine , Volume: 135 Issue: 1 2021 Jan**

Authors Chen X,Xu J,Wang H,Luo J,Wang Z,Chen G,Jiang D,Cao R,Huang H,Luo D,Xiao X,Hu J

Associations between gut microbiota and Alzheimer's disease, major depressive disorder, and schizophrenia.

**Journal of neuroinflammation , Volume: 17 Issue: 1 2020 Oct 2**

Authors Zhuang Z,Yang R,Wang W,Qi L,Huang T

Altered gut microbiota associated with symptom severity in schizophrenia.

**PeerJ , Volume: 8 2020**

Authors Li S,Zhuo M,Huang X,Huang Y,Zhou J,Xiong D,Li J,Liu Y,Pan Z,Li H,Chen J,Li X,Xiang Z,Wu F,Wu K

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

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**Psychiatry research** , Volume: 291 2020 Sep

Authors Pan R,Zhang X,Gao J,Yi W,Wei Q,Su H

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

Review article: bugs, inflammation and mood-a microbiota-based approach to psychiatric symptoms in inflammatory bowel diseases.

**Alimentary pharmacology & therapeutics** , Volume: 52 Issue: 2 2020 Jul

Authors Thomann AK,Mak JWY,Zhang JW,Wuestenberg T,Ebert MP,Sung JJY,Bernstein CN,Reindl W,Ng SC

The oropharyngeal microbiome is altered in individuals with schizophrenia and mania.

**Schizophrenia research** , 2020 Apr 23

Authors Yolken R,Prandovszky E,Severance EG,Hatfield G,Dickerson F

Metagenome-wide association of gut microbiome features for schizophrenia.

**Nature communications** , Volume: 11 Issue: 1 2020 Mar 31

Authors Zhu F,Ju Y,Wang W,Wang Q,Guo R,Ma Q,Sun Q,Fan Y,Xie Y,Yang Z,Jie Z,Zhao B,Xiao L,Yang L,Zhang T,Feng J,Guo L,He X,Chen Y,Chen C,Gao C,Xu X,Yang H,Wang J,Dang Y,Madsen L,Brix S,Kristiansen K,Jia H,Ma X

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erectile dysfunction  
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Functional constipation / chronic idiopathic constipation  
gallstone disease (gsd)  
Gastroesophageal reflux disease (Gerd) including Barrett's esophagus  
Generalized anxiety disorder  
giant cell arteritis  
Glioblastoma  
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High Histamine/low DAO  
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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  
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Low bone mineral density  
Lung Cancer  
Lymphoma  
Mast Cell Issues / mastitis  
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Menopause  
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myasthenia gravis  
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Neuropathy (all types)  
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Obesity  
obsessive-compulsive disorder  
Osteoarthritis  
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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  
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Type 1 Diabetes  
Type 2 Diabetes

**Ulcerative colitis**

**Unhealthy Ageing**

**Vitiligo**