Microbiome Information for: Osteoporosis

For non-prescribing Medical professionals Review

The suggestions below are based on an Expert System (Artificial Intelligence) modelled after the MYCIN Expert System produced at Stanford University School of Medicine in 1972. The system uses over 1,800,000 facts with backward chaining to sources of information. The typical sources are studies published on the US National Library of Medicine.

Many recent studies 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 *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/)
Thorne (https://www.thorne.com/products/dp/gut-health-test)
***Worldwide*: BiomeSight (https://biomesight.com) - Discount Code 'MICRO'**

Analysis Provided by Microbiome Prescription

A Microbiome Analysis Company

892 Lake Samish Rd, Bellingham WA 98229
Email: Research@MicrobiomePrescription.com

Our Facebook Discussion Page

Bacteria being reported because of atypical values.

These bacteria were reported atypical in studies of Osteoporosis

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
Deferribacteres	*class*	Low	*68337*
Erysipelotrichaceae	*family*	Low	*128827*
Prevotellaceae	*family*	High	*171552*
Rikenellaceae	*family*	Low	*171550*
Ruminococcaceae	*family*	Low	*541000*
Actinomyces	*genus*	High	*1654*
Alistipes	*genus*	Low	*239759*
Alloprevotella	*genus*	Low	*1283313*
Anaerostipes	*genus*	Low	*207244*
Blautia	*genus*	Low	*572511*
Clostridium	*genus*	High	*1485*
Dialister	*genus*	High	*39948*
Eggerthella	*genus*	High	*84111*
Escherichia	*genus*	High	*561*
Faecalibacterium	*genus*	High	*216851*
Helicobacter	*genus*	High	*209*
Lactobacillus	*genus*	High	*1578*
Megamonas	*genus*	Low	*158846*
Ruminococcus	*genus*	High	*1263*
Shigella	*genus*	High	*620*
Subdoligranulum	*genus*	Low	*292632*
Veillonella	*genus*	High	*29465*
Akkermansia muciniphila	*species*	Low	*239935*

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.

- apple
- arabinogalactan (prebiotic) 21 gram/day
- Dangshen
- Exercise
- fat
- fructo-oligosaccharides (prebiotic) 15 gram/day
- Ginseng 2000 mg/day
- inulin (prebiotic) 32 gram/day
- Lactobacillus Johnsonii (probiotic) 10 BCFU/day
- lactulose
- linseed(flaxseed) 30 mg/day
- noni 6 gram/day
- non-starch polysaccharides
- partially hydrolyzed guar gum 6 gram/day
- pectin
- quercetin 2 gram/day
- raffinose(sugar beet)
- resveratrol (grape seed/polyphenols/red wine) 2 gram/day
- wheat bran
- xylan (prebiotic)

Retail Probiotics

Over 260 retail probiotics were evaluted with the following deem beneficial with no known adverse risks.

- **jarrow formulas / bifidus balance® + fos**
- **Maple Life Science™ / Lactobacillus Johnsonii**
- **nature's way (au) /restore probiotic bowel & colon health 30s**
- **naturopathica (au) / gastrohealth fibrepro**
- **blackmore (au) / probiotics+ eczema relief**
- **optibac / for every day**
- **naturopathica (au) / gastrohealth probiotic dairy free 50 billion**
- **Reduz melasma / Lactobacillus Johnsonii**
- **naturopathica (au) / gastrohealth probiotic dairy free 20 bcfu**
- **ISCON Elegance/ Ochek Capsule 10**
- **Bio Schwartz / Advance Strength Probiotics (40 BCFU)**
- **nature's way (au) / restore probiotic 30 billion 30s**
- **blackmore (au) / probiotics+ daily health**
- **Swiss BioEnergetics / Full Spectrum Probiotic Defence**
- **blackmores (au) / probiotics + adults daily (90 capsules)**
- **nature's way (au) / restore probiotic daily health 90s**

Note: Some of these are only available regionally – search the web for sources.

Substance to Consider Reducing or Eliminating

These are the most signigicant 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.

bacillus coagulans (probiotics)
bacillus licheniformis,(probiotics)
berberine
bifidobacterium animalis lactis (probiotics)
Cacao
Cinnamaldehyde
cinnamon (oil. spice)
Curcumin
enterococcus faecium (probiotic)
glycine
grapes
green tea
Hesperidin (polyphenol)
lactobacillus casei (probiotics)
lactobacillus rhamnosus gg (probiotics)
Oyster Mushroom
raw potato starch
saccharin
saccharomyces boulardii (probiotics)
salt (sodium chloride)
Sumac(Rhus coriaria)
syzygium aromaticum (clove)
thyme (thymol, thyme oil)
Umeboshi (Japanese Apricot or Prunus mume)

Sample of Literature Used

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

Changes in the gut microbiota of osteoporosis patients based on 16S rRNA gene sequencing: a systematic review and meta-analysis.
Journal of Zhejiang University. Science. B , Volume: 23 Issue: 12 2022 Dec 15
Authors Huang R,Liu P,Bai Y,Huang J,Pan R,Li H,Su Y,Zhou Q,Ma R,Zong S,Zeng G

Assessment of fecal *Akkermansia muciniphila* in patients with osteoporosis and osteopenia: a pilot study.
Journal of diabetes and metabolic disorders , Volume: 20 Issue: 1 2021 Jun
Authors Keshavarz Azizi Raftar S,Hoseini Tavassol Z,Amiri M,Ejtahed HS,Zangeneh M,Sadeghi S,Ashrafian F,Kariman A,Khatami S,Siadat SD

The gut microbiota alteration and the key bacteria in Astragalus polysaccharides (APS)-improved osteoporosis.
Food research international (Ottawa, Ont.) , Volume: 138 Issue: Pt B 2020 Dec
Authors Liu J,Liu J,Liu L,Zhang G,Zhou A,Peng X

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,Sirufo MM,Pioggia G,Tonacci A,Gangemi S

Association between gut microbiota, bone metabolism, and fracture risk in postmenopausal Japanese women.
Osteoporosis international : a journal established as result of cooperation between the European Foundation for Osteoporosis and the National Osteoporosis Foundation of the USA , Volume: 32 Issue: 1 2021 Jan
Authors Ozaki D,Kubota R,Maeno T,Abdelhakim M,Hitosugi N

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

Association of gut microbiota composition and function with an aged rat model of senile osteoporosis using 16S rRNA and metagenomic sequencing analysis.
Aging , Volume: 12 Issue: 11 2020 Jun 2
Authors Ma S,Qin J,Hao Y,Fu L

Gut Microbiome Reveals Specific Dysbiosis in Primary Osteoporosis.
Frontiers in cellular and infection microbiology , Volume: 10 2020
Authors Xu Z,Xie Z,Sun J,Huang S,Chen Y,Li C,Sun X,Xia B,Tian L,Guo C,Li F,Pi G

Gut microbiota alterations associated with reduced bone mineral density in older adults.
Rheumatology (Oxford, England) , Volume: 58 Issue: 12 2019 Dec 1
Authors Das M,Cronin O,Keohane DM,Cormac EM,Nugent H,Nugent M,Molloy C,O`Toole PW,Shanahan F,Molloy MG,Jeffery IB

Antitumor Effect and Gut Microbiota Modulation by Quercetin, Luteolin, and Xanthohumol in a Rat Model for Colorectal Cancer Prevention.
Nutrients , Volume: 16 Issue: 8 2024 Apr 13
Authors Pérez-Valero Á,Magadán-Corpas P,Ye S,Serna-Diestro J,Sordon S,Huszcza E,Poplonski J,Villar CJ,Lombó F

Resveratrol Improves Hyperuricemia and Ameliorates Renal Injury by Modulating the Gut Microbiota.
Nutrients , Volume: 16 Issue: 7 2024 Apr 7
Authors Zhou Y,Zeng Y,Wang R,Pang J,Wang X,Pan Z,Jin Y,Chen Y,Yang Y,Ling W

Xylooligosaccharides produced from sugarcane leaf arabinoxylan using xylanase from Aureobasidium pullulans NRRL 58523 and its prebiotic activity toward Lactobacillus spp.
Heliyon , Volume: 9 Issue: 11 2023 Nov
Authors Nongkhai SN,Piemthongkham P,Bankeeree W,Punnapayak H,Lotrakul P,Prasongsuk S

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

Effects of ginseng on short-chain fatty acids and intestinal microbiota in rats with spleen-qi deficiency based on gas chromatography-mass spectrometry and 16s rRNA technology.
Rapid communications in mass spectrometry : RCM , Volume: 37 Issue: 23 2023 Dec 15
Authors Zhang M,Pi Y,Ma L,Li F,Luo J,Cai Y,Wu Y,Liu M,Dai Y,Zheng F,Yue H

A Pectic Polysaccharide from Codonopsis pilosula Alleviates Inflammatory Response and Oxidative Stress of Aging Mice via Modulating Intestinal Microbiota-Related Gut-Liver Axis.
Antioxidants (Basel, Switzerland) , Volume: 12 Issue: 9 2023 Sep 19
Authors Zou Y,Yan H,Li C,Wen F,Jize X,Zhang C,Liu S,Zhao Y,Fu Y,Li L,Liu F,Chen J,Li R,Chen X,Tian M

Resveratrol alleviates DSS-induced IBD in mice by regulating the intestinal microbiota-macrophage-arginine metabolism axis.

European journal of medical research , Volume: 28 Issue: 1 2023 Sep 2

Authors Xu X,Ocansey DKW,Pei B,Zhang Y,Wang N,Wang Z,Mao F

Immunomodulatory effects of inulin and its intestinal metabolites.

Frontiers in immunology , Volume: 14 2023

Authors Sheng W,Ji G,Zhang L

Traditional Chinese medicine invigorating the spleen and kidney promotes HBsAg seroclearance in the mouse model.

Journal of medical virology , Volume: 95 Issue: 8 2023 Aug

Authors Zeng DY,Chen Z,Hong MZ,Jiang LP,Chen XN,Xue HX,Pan JS,Zhu Y

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

Bile Acids and Short-Chain Fatty Acids Are Modulated after Onion and Apple Consumption in Obese Zucker Rats.

Nutrients , Volume: 15 Issue: 13 2023 Jul 5

Authors Balderas C,de Ancos B,Sánchez-Moreno C

Manipulating Microbiota in Inflammatory Bowel Disease Treatment: Clinical and Natural Product Interventions Explored.

International journal of molecular sciences , Volume: 24 Issue: 13 2023 Jul 2

Authors Zhu M,Song Y,Xu Y,Xu H

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

Targeted modification of gut microbiota and related metabolites via dietary fiber.

Carbohydrate polymers , Volume: 316 2023 Sep 15

Authors Nie Q,Sun Y,Li M,Zuo S,Chen C,Lin Q,Nie S

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

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

Resveratrol modulates the gut microbiota of cholestasis in pregnant rats.

Journal of physiology and pharmacology : an official journal of the Polish Physiological Society , Volume: 73 Issue: 2 2022 Apr

Authors Li Z,Lei L,Ling L,Liu Y,Xiong Z,Shao Y

Codonopsis pilosula oligosaccharides modulate the gut microbiota and change serum metabolomic profiles in high-fat diet-induced obese mice.

Food & function , Volume: 13 Issue: 15 2022 Aug 1

Authors Bai R,Cui F,Li W,Wang Y,Wang Z,Gao Y,Wang N,Xu Q,Hu F,Zhang Y

Codonopsis pilosula Polysaccharide Improved Spleen Deficiency in Mice by Modulating Gut Microbiota and Energy Related Metabolisms.

Frontiers in pharmacology , Volume: 13 2022

Authors Cao L,Du C,Zhai X,Li J,Meng J,Shao Y,Gao J

Dietary Supplementation with Vitamin D, Fish Oil or Resveratrol Modulates the Gut Microbiome in Inflammatory Bowel Disease.

International journal of molecular sciences , Volume: 23 Issue: 1 2021 Dec 24

Authors Wellington VNA,Sundaram VL,Singh S,Sundaram U

The Effect and Mechanism of Exercise Training on Rats with Poststroke Depression Based on the Intestinal Flora.

Computational and mathematical methods in medicine , Volume: 2021 2021

Authors Yang J,Zhou G,Ou Z,Jia N,Wang D

Curcumin ß-D-Glucuronide Modulates an Autoimmune Model of Multiple Sclerosis with Altered Gut Microbiota in the Ileum and Feces.

Frontiers in cellular and infection microbiology , Volume: 11 2021

Authors Khadka S,Omura S,Sato F,Nishio K,Kakeya H,Tsunoda I

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,Takihara T,Kinugasa H
Regulatory Effect of Resveratrol on Inflammation Induced by Lipopolysaccharides *via* Reprograming Intestinal Microbes and Ameliorating Serum Metabolism Profiles.
Frontiers in immunology , Volume: 12 2021
Authors Ding S,Jiang H,Fang J,Liu G
Polydextrose with and without Bifidobacterium animalis ssp. lactis 420 drives the prevalence of Akkermansia and improves liver health in a multi-compartmental obesogenic mice study.
PloS one , Volume: 16 Issue: 12 2021
Authors Yde CC,Jensen HM,Christensen N,Servant F,Lelouvier B,Lahtinen S,Stenman LK,Airaksinen K,Kailanto HM
Cinnamaldehyde Promotes the Intestinal Barrier Functions and Reshapes Gut Microbiome in Early Weaned Rats.
Frontiers in nutrition , Volume: 8 2021
Authors Qi L,Mao H,Lu X,Shi T,Wang J
Alleviation Effects of *Bifidobacterium animalis* subsp. *lactis* XLTG11 on Dextran Sulfate Sodium-Induced Colitis in Mice.
Microorganisms , Volume: 9 Issue: 10 2021 Oct 3
Authors Wang N,Wang S,Xu B,Liu F,Huo G,Li B
Positive Synergistic Effects of Quercetin and Rice Bran on Human Gut Microbiota Reduces *Enterobacteriaceae* Family Abundance and Elevates Propionate in a Bioreactor Model.
Frontiers in microbiology , Volume: 12 2021
Authors Ghimire S,Wongkuna S,Sankaranarayanan R,Ryan EP,Bhat GJ,Scaria J
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
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
A randomized, placebo-controlled trial investigating the acute and chronic benefits of American Ginseng (Cereboost®) on mood and cognition in healthy young adults, including in vitro investigation of gut microbiota changes as a possible mechanism of action.
European journal of nutrition , 2021 Aug 15
Authors Bell L,Whyte A,Duysburgh C,Marzorati M,Van den Abbeele P,Le Cozannet R,Fança-Berthon P,Fromentin E,Williams C
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
Home-based exercise training influences gut bacterial levels in multiple sclerosis.
Complementary therapies in clinical practice , Volume: 45 2021 Jul 30
Authors Mokhtarzade M,Molanouri Shamsi M,Abolhasani M,Bakhshi B,Sahraian MA,Quinn LS,Negaresh R
Effects of ginseng soluble dietary fiber on serum antioxidant status, immune factor levels and cecal health in healthy rats.
Food chemistry , Volume: 365 2021 Jul 20
Authors Hua M,Liu Z,Sha J,Li S,Dong L,Sun Y
Concentrated Raw Fibers Enhance the Fiber-Degrading Capacity of a Synthetic Human Gut Microbiome.
International journal of molecular sciences , Volume: 22 Issue: 13 2021 Jun 25
Authors Steimle A,Neumann M,Grant ET,Turner JD,Desai MS
Millet shell polyphenols prevent atherosclerosis by protecting the gut barrier and remodeling the gut microbiota in ApoE$^{-/-}$ mice.
Food & function , 2021 Jun 25
Authors Liu F,Shan S,Li H,Shi J,Hao R,Yang R,Li Z
Resveratrol and its derivative pterostilbene ameliorate intestine injury in intrauterine growth-retarded weanling piglets by modulating redox status and gut microbiota.

Journal of animal science and biotechnology , Volume: 12 Issue: 1 2021 Jun 10
Authors Chen Y,Zhang H,Chen Y,Jia P,Ji S,Zhang Y,Wang T
Protective effects of glycine against lipopolysaccharide-induced intestinal apoptosis and inflammation.
Amino acids , 2021 Jun 4
Authors Zhang Y,Mu T,Jia H,Yang Y,Wu Z
Intensive, prolonged exercise seemingly causes gut dysbiosis in female endurance runners.
Journal of clinical biochemistry and nutrition , Volume: 68 Issue: 3 2021 May
Authors Morishima S,Aoi W,Kawamura A,Kawase T,Takagi T,Naito Y,Tsukahara T,Inoue R
Effects of Bacillus Coagulans on growth performance, antioxidant capacity, immunity function, and gut health in broilers.
Poultry science , Volume: 100 Issue: 6 2021 Mar 27
Authors Zhang B,Zhang H,Yu Y,Zhang R,Wu Y,Yue M,Yang C
Modulation of the fecal microbiome and metabolome by resistant dextrin ameliorates hepatic steatosis and mitochondrial abnormalities in mice.
Food & function , 2021 Apr 22
Authors Zhang Z,Chen X,Cui B
Glycine regulates mucosal immunity and the intestinal microbial composition in weaned piglets.
Amino acids , 2021 Apr 11
Authors Ji Y,Fan X,Zhang Y,Li J,Dai Z,Wu Z
Impaired Intestinal Akkermansia muciniphila and Aryl Hydrocarbon Receptor Ligands Contribute to Nonalcoholic Fatty Liver Disease in Mice.
mSystems , Volume: 6 Issue: 1 2021 Feb 23
Authors Shi Z,Lei H,Chen G,Yuan P,Cao Z,Ser HL,Zhu X,Wu F,Liu C,Dong M,Song Y,Guo Y,Chen C,Hu K,Zhu Y,Zeng XA,Zhou J,Lu Y,Patterson AD,Zhang L
Influence of a Biotechnologically Produced Oyster Mushroom (*Pleurotus sajor-caju*) on the Gut Microbiota and Microbial Metabolites in Obese Zucker Rats.
Journal of agricultural and food chemistry , Volume: 69 Issue: 5 2021 Feb 10
Authors Maheshwari G,Gessner DK,Neuhaus K,Most E,Zorn H,Eder K,Ringseis R
Administration of Saccharomyces boulardii mafic-1701 improves feed conversion ratio, promotes antioxidant capacity, alleviates intestinal inflammation and modulates gut microbiota in weaned piglets.
Journal of animal science and biotechnology , Volume: 11 Issue: 1 2020 Dec 4
Authors Zhang W,Bao C,Wang J,Zang J,Cao Y
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
Gut microbial bile acid metabolite skews macrophage polarization and contributes to high-fat diet-induced colonic inflammation.
Gut microbes , Volume: 12 Issue: 1 2020 Nov 9
Authors Wang L,Gong Z,Zhang X,Zhu F,Liu Y,Jin C,Du X,Xu C,Chen Y,Cai W,Tian C,Wu J
A high-fat diet and high-fat and high-cholesterol diet may affect glucose and lipid metabolism differentially through gut microbiota in mice.
Experimental animals , 2020 Oct 1
Authors Liang H,Jiang F,Cheng R,Luo Y,Wang J,Luo Z,Li M,Shen X,He F
Relationship between gut environment, feces-to-food ratio, and androgen deficiency-induced metabolic disorders.
Gut microbes , Volume: 12 Issue: 1 2020 Nov 9
Authors Harada N,Minami Y,Hanada K,Hanaoka R,Kobayashi Y,Izawa T,Sato T,Kato S,Inui H,Yamaji R
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
Lactobacillus johnsonii BS15 Prevents Psychological Stress-Induced Memory Dysfunction in Mice by Modulating the Gut-Brain Axis.
Frontiers in microbiology , Volume: 11 2020
Authors Wang H,Sun Y,Xin J,Zhang T,Sun N,Ni X,Zeng D,Bai Y
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
Green Tea Encourages Growth of Akkermansia muciniphila.

Journal of medicinal food , 2020 Jun 25
Authors Jeong HW,Kim JK,Kim AY,Cho D,Lee JH,Choi JK,Park M,Kim W
Prebiotic Effects of Partially Hydrolyzed Guar Gum on the Composition and Function of the Human Microbiota-Results from the PAGODA Trial.
Nutrients , Volume: 12 Issue: 5 2020 Apr 28
Authors Reider SJ,Moosmang S,Tragust J,Trgovec-Greif L,Tragust S,Perschy L,Przysiecki N,Sturm S,Tilg H,Stuppner H,Rattei T,Moschen AR
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
Alleviating effects of noni fruit polysaccharide on hepatic oxidative stress and inflammation in rats under a high-fat diet and its possible mechanisms.
Food & function , Volume: 11 Issue: 4 2020 Apr 30
Authors Yang X,Mo W,Zheng C,Li W,Tang J,Wu X
Effect of resveratrol on intestinal tight junction proteins and the gut microbiome in high-fat diet-fed insulin resistant mice.
International journal of food sciences and nutrition , Volume: 71 Issue: 8 2020 Dec
Authors Chen K,Zhao H,Shu L,Xing H,Wang C,Lu C,Song G
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
Rapid gut microbiome changes in a world-class ultramarathon runner.
Physiological reports , Volume: 7 Issue: 24 2019 Dec
Authors Grosicki GJ,Durk RP,Bagley JR
Steatosis and gut microbiota dysbiosis induced by high-fat diet are reversed by 1-week chow diet administration.
Nutrition research (New York, N.Y.) , Volume: 71 2019 Nov
Authors Safari Z,Monnoye M,Abuja PM,Mariadassou M,Kashofer K,Gérard P,Zatloukal K
Berry-Enriched Diet in Salt-Sensitive Hypertensive Rats: Metabolic Fate of (Poly)Phenols and the Role of Gut Microbiota.
Nutrients , Volume: 11 Issue: 11 2019 Nov 3
Authors Gomes A,Oudot C,Macià A,Foito A,Carregosa D,Stewart D,Van de Wiele T,Berry D,Motilva MJ,Brenner C,Dos Santos CN
Bacillus coagulans R11 maintained intestinal villus health and decreased intestinal injury in lead-exposed mice by regulating the intestinal microbiota and influenced the function of faecal microRNAs.
Environmental pollution (Barking, Essex : 1987) , Volume: 255 Issue: Pt 2 2019 Sep 13
Authors Xing SC,Huang CB,Mi JD,Wu YB,Liao XD
Effect of Repeated Consumption of Partially Hydrolyzed Guar Gum on Fecal Characteristics and Gut Microbiota: A Randomized, Double-Blind, Placebo-Controlled, and Parallel-Group Clinical Trial.
Nutrients , Volume: 11 Issue: 9 2019 Sep 10
Authors Yasukawa Z,Inoue R,Ozeki M,Okubo T,Takagi T,Honda A,Naito Y
Raw Bowl Tea (Tuocha) Polyphenol Prevention of Nonalcoholic Fatty Liver Disease by Regulating Intestinal Function in Mice.
Biomolecules , Volume: 9 Issue: 9 2019 Sep 1
Authors Liu B,Zhang J,Sun P,Yi R,Han X,Zhao X
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
Resveratrol attenuates high-fat diet-induced non-alcoholic steatohepatitis by maintaining gut barrier integrity and inhibiting gut inflammation through regulation of the endocannabinoid system.
Clinical nutrition (Edinburgh, Scotland) , 2019 May 30
Authors Chen M,Hou P,Zhou M,Ren Q,Wang X,Huang L,Hui S,Yi L,Mi M
Dietary Quercetin Increases Colonic Microbial Diversity and Attenuates Colitis Severity in Citrobacter rodentium-Infected Mice.
Frontiers in microbiology , Volume: 10 2019
Authors Lin R,Piao M,Song Y
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
Probiotic Lactobacillus johnsonii BS15 Promotes Growth Performance, Intestinal Immunity, and Gut Microbiota in Piglets.
Probiotics and antimicrobial proteins , Volume: 12 Issue: 1 2020 Mar
Authors Xin J,Zeng D,Wang H,Sun N,Zhao Y,Dan Y,Pan K,Jing B,Ni X
Arabinoxylan from Argentinian whole wheat flour promote the growth of Lactobacillus reuteri and Bifidobacterium breve.
Letters in applied microbiology , Volume: 68 Issue: 2 2019 Feb
Authors Paesani C,Salvucci E,Moiraghi M,Fernandez Canigia L,Pérez GT
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
Antimicrobial activity of spices essential oils and its effectiveness on mature biofilms of human pathogens.
Natural product research , 2018 Oct 13
Authors Condò C,Anacarso I,Sabia C,Iseppi R,Anfelli I,Forti L,de Niederhäusern S,Bondi M,Messi P
Absorption of Codonopsis pilosula Saponins by Coexisting Polysaccharides Alleviates Gut Microbial Dysbiosis with Dextran Sulfate Sodium-Induced Colitis in Model Mice.
BioMed research international , Volume: 2018 2018
Authors Jing Y,Li A,Liu Z,Yang P,Wei J,Chen X,Zhao T,Bai Y,Zha L,Zhang C
The Effects of Berberine on the Gut Microbiota in Apc ^{min/+} Mice Fed with a High Fat Diet.
Molecules (Basel, Switzerland) , Volume: 23 Issue: 9 2018 Sep 8
Authors Wang H,Guan L,Li J,Lai M,Wen X
Introducing insoluble wheat bran as a gut microbiota niche in an in vitro dynamic gut model stimulates propionate and butyrate production and induces colon region specific shifts in the luminal and mucosal microbial community.
Environmental microbiology , Volume: 20 Issue: 9 2018 Sep
Authors De Paepe K,Verspreet J,Verbeke K,Raes J,Courtin CM,Van de Wiele T
The Polysaccharides from Codonopsis pilosula Modulates the Immunity and Intestinal Microbiota of Cyclophosphamide-Treated Immunosuppressed Mice.
Molecules (Basel, Switzerland) , Volume: 23 Issue: 7 2018 Jul 20
Authors Fu YP,Feng B,Zhu ZK,Feng X,Chen SF,Li LX,Yin ZQ,Huang C,Chen XF,Zhang BZ,Jia RY,Song X,Lv C,Yue GZ,Ye G,Liang XX,He CL,Yin LZ,Zou YF
Inulin fiber dose-dependently modulates energy balance, glucose tolerance, gut microbiota, hormones and diet preference in high-fat-fed male rats.
The Journal of nutritional biochemistry , Volume: 59 2018 Sep
Authors Singh A,Zapata RC,Pezeshki A,Reidelberger RD,Chelikani PK
Enterococcus faecium WEFA23 from infant lessens high-fat-diet-induced hyperlipidemia via cholesterol 7-alpha-hydroxylase gene by altering the composition of gut microbiota in rats.
Journal of dairy science , 2018 Jun 20
Authors Huang F,Zhang F,Xu D,Zhang Z,Xu F,Tao X,Qiu L,Wei H
Catechin supplemented in a FOS diet induces weight loss by altering cecal microbiota and gene expression of colonic epithelial cells.
Food & function , Volume: 9 Issue: 5 2018 May 23
Authors Luo J,Han L,Liu L,Gao L,Xue B,Wang Y,Ou S,Miller M,Peng X
Effect of lactulose intervention on gut microbiota and short chain fatty acid composition of C57BL/6J mice.
MicrobiologyOpen , Volume: 7 Issue: 6 2018 Dec
Authors Zhai S,Zhu L,Qin S,Li L
High salt diet exacerbates colitis in mice by decreasing Lactobacillus levels and butyrate production.
Microbiome , Volume: 6 Issue: 1 2018 Mar 22
Authors Miranda PM,De Palma G,Serkis V,Lu J,Louis-Auguste MP,McCarville JL,Verdu EF,Collins SM,Bercik P
Xylan supplement improves 1,3-propanediol fermentation by Clostridium butyricum.
Journal of bioscience and bioengineering , 2018 Mar 10
Authors Apiwatanapiwat W,Vaithanomsat P,Thanapase W,Ratanakhanokchai K,Kosugi A
Inulin-type fructan improves diabetic phenotype and gut microbiota profiles in rats.
PeerJ , Volume: 6 2018
Authors Zhang Q,Yu H,Xiao X,Hu L,Xin F,Yu X
Evaluation of the effects of different diets on microbiome diversity and fatty acid composition of rumen liquor in dairy goat.
Animal : an international journal of animal bioscience , 2018 Jan 8
Authors Cremonesi P,Conte G,Severgnini M,Turri F,Monni A,Capra E,Rapetti L,Colombini S,Chessa S,Battelli G,Alves SP,Mele M,Castiglioni B

Bacteriostatic Effect of Quercetin as an Antibiotic Alternative In Vivo and Its Antibacterial Mechanism In Vitro.
Journal of food protection , Volume: 81 Issue: 1 2018 Jan
Authors Wang S,Yao J,Zhou B,Yang J,Chaudry MT,Wang M,Xiao F,Li Y,Yin W

The green tea modulates large intestinal microbiome and exo/endogenous metabolome altered through chronic UVB-exposure.
PloS one , Volume: 12 Issue: 11 2017
Authors Jung ES,Park HM,Hyun SM,Shon JC,Singh D,Liu KH,Whon TW,Bae JW,Hwang JS,Lee CH

High-Salt Diet Has a Certain Impact on Protein Digestion and Gut Microbiota: A Sequencing and Proteome Combined Study.
Frontiers in microbiology , Volume: 8 2017
Authors Wang C,Huang Z,Yu K,Ding R,Ye K,Dai C,Xu X,Zhou G,Li C

Dietary soy, meat, and fish proteins modulate the effects of prebiotic raffinose on composition and fermentation of gut microbiota in rats.
International journal of food sciences and nutrition , Volume: 69 Issue: 4 2018 Jun
Authors Bai G,Tsuruta T,Nishino N

Regulative effects of curcumin spice administration on gut microbiota and its pharmacological implications.
Food & nutrition research , Volume: 61 Issue: 1 2017
Authors Shen L,Liu L,Ji HF

Lactobacillus casei CCFM419 attenuates type 2 diabetes via a gut microbiota dependent mechanism.
Food & function , Volume: 8 Issue: 9 2017 Sep 20
Authors Wang G,Li X,Zhao J,Zhang H,Chen W

Disruption in the cecal microbiota of chickens challenged with Clostridium perfringens and other factors was alleviated by Bacillus licheniformis supplementation.
PloS one , Volume: 12 Issue: 8 2017
Authors Lin Y,Xu S,Zeng D,Ni X,Zhou M,Zeng Y,Wang H,Zhou Y,Zhu H,Pan K,Li G

Dose-Dependent Prebiotic Effect of Lactulose in a Computer-Controlled In Vitro Model of the Human Large Intestine.
Nutrients , Volume: 9 Issue: 7 2017 Jul 18
Authors Bothe MK,Maathuis AJH,Bellmann S,van der Vossen JMBM,Berressem D,Koehler A,Schwejda-Guettes S,Gaigg B,Kuchinka-Koch A,Stover JF

Fat binding capacity and modulation of the gut microbiota both determine the effect of wheat bran fractions on adiposity.
Scientific reports , Volume: 7 Issue: 1 2017 Jul 17
Authors Suriano F,Bindels LB,Verspreet J,Courtin CM,Verbeke K,Cani PD,Neyrinck AM,Delzenne NM

Prebiotic Potential and Chemical Composition of Seven Culinary Spice Extracts.
Journal of food science , Volume: 82 Issue: 8 2017 Aug
Authors Lu QY,Summanen PH,Lee RP,Huang J,Henning SM,Heber D,Finegold SM,Li Z

Lactobacillus johnsonii N6.2 Modulates the Host Immune Responses: A Double-Blind, Randomized Trial in Healthy Adults.
Frontiers in immunology , Volume: 8 2017
Authors Marcial GE,Ford AL,Haller MJ,Gezan SA,Harrison NA,Cai D,Meyer JL,Perry DJ,Atkinson MA,Wasserfall CH,Garrett T,Gonzalez CF,Brusko TM,Dahl WJ,Lorca GL

Live Probiotic *Lactobacillus johnsonii* BS15 Promotes Growth Performance and Lowers Fat Deposition by Improving Lipid Metabolism, Intestinal Development, and Gut Microflora in Broilers.
Frontiers in microbiology , Volume: 8 2017
Authors Wang H,Ni X,Qing X,Zeng D,Luo M,Liu L,Li G,Pan K,Jing B

Cocoa and Dark Chocolate Polyphenols: From Biology to Clinical Applications
Frontiers in Immunology , Volume: 8 2017 Jun 9
Authors Magrone T,Russo MA,Jirillo E

The effects of the Lactobacillus casei strain on obesity in children: a pilot study.
Beneficial microbes , Volume: 8 Issue: 4 2017 Aug 24
Authors Nagata S,Chiba Y,Wang C,Yamashiro Y

Effects of Commercial Apple Varieties on Human Gut Microbiota Composition and Metabolic Output Using an In Vitro Colonic Model.
Nutrients , Volume: 9 Issue: 6 2017 May 24
Authors Koutsos A,Lima M,Conterno L,Gasperotti M,Bianchi M,Fava F,Vrhovsek U,Lovegrove JA,Tuohy KM

Berberine protects against diet-induced obesity through regulating metabolic endotoxemia and gut hormone levels.
Molecular medicine reports , Volume: 15 Issue: 5 2017 May
Authors Xu JH,Liu XZ,Pan W,Zou DJ

Effect of a probiotic beverage consumption (Enterococcus faecium CRL 183 and Bifidobacterium longum ATCC 15707) in rats with chemically induced colitis.
PloS one , Volume: 12 Issue: 4 2017

Authors Celiberto LS,Bedani R,Dejani NN,Ivo de Medeiros A,Sampaio Zuanon JA,Spolidorio LC,Tallarico Adorno MA,Amâncio Varesche MB,Carrilho Galvão F,Valentini SR,Font de Valdez G,Rossi EA,Cavallini DCU

Influence of diet on the gut microbiome and implications for human health.

Journal of translational medicine , Volume: 15 Issue: 1 2017 Apr 8

Authors Singh RK,Chang HW,Yan D,Lee KM,Ucmak D,Wong K,Abrouk M,Farahnik B,Nakamura M,Zhu TH,Bhutani T,Liao W

Impact of probiotic Saccharomyces boulardii on the gut microbiome composition in HIV-treated patients: A double-blind, randomised, placebo-controlled trial.

PloS one , Volume: 12 Issue: 4 2017

Authors Villar-García J,Güerri-Fernández R,Moya A,González A,Hernández JJ,Lerma E,Guelar A,Sorli L,Horcajada JP,Artacho A,D Auria G,Knobel H

Effect of dietary polyphenol-rich grape seed on growth performance, antioxidant capacity and ileal microflora in broiler chicks.

Journal of animal physiology and animal nutrition , Volume: 102 Issue: 1 2018 Feb

Authors Abu Hafsa SH,Ibrahim SA

Impact of Westernized Diet on Gut Microbiota in Children on Leyte Island.

Frontiers in microbiology , Volume: 8 2017

Authors Nakayama J,Yamamoto A,Palermo-Conde LA,Higashi K,Sonomoto K,Tan J,Lee YK

Prebiotic inulin-type fructans induce specific changes in the human gut microbiota.

Gut , Volume: 66 Issue: 11 2017 Nov

Authors Vandeputte D,Falony G,Vieira-Silva S,Wang J,Sailer M,Theis S,Verbeke K,Raes J

Epigallocatechin gallate induces a hepatospecific decrease in the CYP3A expression level by altering intestinal flora.

European journal of pharmaceutical sciences : official journal of the European Federation for Pharmaceutical Sciences , Volume: 100 2017 Mar 30

Authors Ikarashi N,Ogawa S,Hirobe R,Kon R,Kusunoki Y,Yamashita M,Mizukami N,Kaneko M,Wakui N,Machida Y,Sugiyama K

Breaking the resistance of Escherichia coli: Antimicrobial activity of Berberis lycium Royle.

Microbial pathogenesis , Volume: 102 2017 Jan

Authors Malik TA,Kamili AN,Chishti MZ,Ahad S,Tantry MA,Hussain PR,Johri RK

Lactate- and acetate-based cross-feeding interactions between selected strains of lactobacilli, bifidobacteria and colon bacteria in the presence of inulin-type fructans.

International journal of food microbiology , Volume: 241 2017 Jan 16

Authors Moens F,Verce M,De Vuyst L

Efficacy and role of inulin in mitigation of enteric sulfur-containing odor in pigs.

Journal of the science of food and agriculture , Volume: 97 Issue: 8 2017 Jun

Authors Deng YF,Liu YY,Zhang YT,Wang Y,Liang JB,Tufarelli V,Laudadio V,Liao XD

Benefits of Bifidobacterium animalis subsp. lactis Probiotic in Experimental Periodontitis.

Journal of periodontology , Volume: 88 Issue: 2 2017 Feb

Authors Oliveira LF,Salvador SL,Silva PH,Furlaneto FA,Figueiredo L,Casarin R,Ervolino E,Palioto DB,Souza SL,Taba M Jr,Novaes AB Jr,Messora MR

Dietary Casein and Soy Protein Isolate Modulate the Effects of Raffinose and Fructooligosaccharides on the Composition and Fermentation of Gut Microbiota in Rats.

Journal of food science , Volume: 81 Issue: 8 2016 Aug

Authors Bai G,Ni K,Tsuruta T,Nishino N

In vitro antimicrobial activity of five essential oils on multidrug resistant Gram-negative clinical isolates.

Journal of intercultural ethnopharmacology , Volume: 5 Issue: 3 2016 Jun-Aug

Authors Sakkas H,Gousia P,Economou V,Sakkas V,Petsios S,Papadopoulou C

Significant pharmacokinetic differences of berberine are attributable to variations in gut microbiota between Africans and Chinese.

Scientific reports , Volume: 6 2016 Jun 10

Authors Alolga RN,Fan Y,Chen Z,Liu LW,Zhao YJ,Li J,Chen Y,Lai MD,Li P,Qi LW

In Vivo Effects of Tea Polyphenol Intake on Human Intestinal Microflora and Metabolism.

Bioscience, biotechnology, and biochemistry , Volume: 56 Issue: 4 1992 Jan

Authors Okubo T,Ishihara N,Oura A,Serit M,Kim M,Yamamoto T,Mitsuoka T

Lactobacillus rhamnosus GG Intake Modifies Preschool Children`s Intestinal Microbiota, Alleviates Penicillin-Associated Changes, and Reduces Antibiotic Use.

PloS one , Volume: 11 Issue: 4 2016

Authors Korpela K,Salonen A,Virta LJ,Kumpu M,Kekkonen RA,de Vos WM

Gas chromatography coupled with mass spectrometric characterization of Curcuma longa: Protection against pathogenic microbes and lipid peroxidation in rat`s tissue homogenate.

Pakistan journal of pharmaceutical sciences , Volume: 29 Issue: 2 2016 Mar
Authors Hassan W,Gul S,Rehman S,Kanwal F,Afridi MS,Fazal H,Shah Z,Rahman A,da Rocha JB
Antimicrobial activities of six essential oils commonly used as condiments in Brazil against Clostridium perfringens.
Brazilian journal of microbiology : [publication of the Brazilian Society for Microbiology] , Volume: 47 Issue: 2 2016 Apr-Jun
Authors Radaelli M,da Silva BP,Weidlich L,Hoehne L,Flach A,da Costa LA,Ethur EM
In vitro extraction and fermentation of polyphenols from grape seeds (Vitis vinifera) by human intestinal microbiota.
Food & function , Volume: 7 Issue: 4 2016 Apr
Authors Zhou L,Wang W,Huang J,Ding Y,Pan Z,Zhao Y,Zhang R,Hu B,Zeng X
Flavanol-Enriched Cocoa Powder Alters the Intestinal Microbiota, Tissue and Fluid Metabolite Profiles, and Intestinal Gene Expression in Pigs.
The Journal of nutrition , Volume: 146 Issue: 4 2016 Apr
Authors Jang S,Sun J,Chen P,Lakshman S,Molokin A,Harnly JM,Vinyard BT,Urban JF Jr,Davis CD,Solano-Aguilar G
Modulation of Gut Microbiota by Berberine Improves Steatohepatitis in High-Fat Diet-Fed BALB/C Mice.
Archives of Iranian medicine , Volume: 19 Issue: 3 2016 Mar
Authors Cao Y,Pan Q,Cai W,Shen F,Chen GY,Xu LM,Fan JG
Effects of Cocoa Husk Feeding on the Composition of Swine Intestinal Microbiota.
Journal of agricultural and food chemistry , Volume: 64 Issue: 10 2016 Mar 16
Authors Magistrelli D,Zanchi R,Malagutti L,Galassi G,Canzi E,Rosi F
Purification and characteristics of a novel bacteriocin produced by Enterococcus faecalis L11 isolated from Chinese traditional fermented cucumber.
Biotechnology letters , Volume: 38 Issue: 5 2016 May
Authors Gao Y,Li B,Li D,Zhang L
The Effects of Inulin on Characteristics of Lactobacillus paracasei TD3 (IBRC-M 10784) as Probiotic Bacteria in vitro.
Archives of Iranian medicine , Volume: 19 Issue: 2 2016 Feb
Authors Mahboubi M,Kazempour N
The Effect of Lactobacillus casei 32G on the Mouse Cecum Microbiota and Innate Immune Response Is Dose and Time Dependent.
PloS one , Volume: 10 Issue: 12 2015
Authors Aktas B,De Wolfe TJ,Tandee K,Safdar N,Darien BJ,Steele JL
Effects of probiotics Pediococcus acidilactici strain MA18/5M and Saccharomyces cerevisiae subsp. boulardii strain SB-CNCM I-1079 on fecal and intestinal microbiota of nursing and weanling piglets.
Journal of animal science , Volume: 93 Issue: 11 2015 Nov
Authors Brousseau JP,Talbot G,Beaudoin F,Lauzon K,Roy D,Lessard M
Table grape consumption reduces adiposity and markers of hepatic lipogenesis and alters gut microbiota in butter fat-fed mice.
The Journal of nutritional biochemistry , Volume: 27 2016 Jan
Authors Baldwin J,Collins B,Wolf PG,Martinez K,Shen W,Chuang CC,Zhong W,Cooney P,Cockrell C,Chang E,Gaskins HR,McIntosh MK
Modulation of gut microbiota by berberine and metformin during the treatment of high-fat diet-induced obesity in rats.
Scientific reports , Volume: 5 2015 Sep 23
Authors Zhang X,Zhao Y,Xu J,Xue Z,Zhang M,Pang X,Zhang X,Zhao L
Lactobacillus rhamnosus GG-supplemented formula expands butyrate-producing bacterial strains in food allergic infants.
The ISME journal , Volume: 10 Issue: 3 2016 Mar
Authors Berni Canani R,Sangwan N,Stefka AT,Nocerino R,Paparo L,Aitoro R,Calignano A,Khan AA,Gilbert JA,Nagler CR
Responses in colonic microbial community and gene expression of pigs to a long-term high resistant starch diet.
Frontiers in microbiology , Volume: 6 2015
Authors Sun Y,Zhou L,Fang L,Su Y,Zhu W
Antibacterial activity of cinnamaldehyde and clove oil: effect on selected foodborne pathogens in model food systems and watermelon juice.
Journal of food science and technology , Volume: 52 Issue: 9 2015 Sep
Authors Siddiqua S,Anusha BA,Ashwini LS,Negi PS
In vitro digestion and fermentation properties of linear sugar-beet arabinan and its oligosaccharides.
Carbohydrate polymers , Volume: 131 2015 Oct 20
Authors Moon JS,Shin SY,Choi HS,Joo W,Cho SK,Li L,Kang JH,Kim TJ,Han NS
Sex differences in gut fermentation and immune parameters in rats fed an oligofructose-supplemented diet.
Biology of sex differences , Volume: 6 2015
Authors Shastri P,McCarville J,Kalmokoff M,Brooks SP,Green-Johnson JM

Dietary modulation of the gut microbiota–a randomised controlled trial in obese postmenopausal women.
The British journal of nutrition , Volume: 114 Issue: 3 2015 Aug 14
Authors Brahe LK,Le Chatelier E,Prifti E,Pons N,Kennedy S,Blædel T,Håkansson J,Dalsgaard TK,Hansen T,Pedersen O,Astrup A,Ehrlich SD,Larsen LH

Effects of dietary linseed oil and propionate precursors on ruminal microbial community, composition, and diversity in Yanbian yellow cattle.
PloS one , Volume: 10 Issue: 5 2015
Authors Li XZ,Park BK,Shin JS,Choi SH,Smith SB,Yan CG

Bacillus coagulans GBI-30, 6086 Modulates Faecalibacterium prausnitzii in Older Men and Women.
The Journal of nutrition , Volume: 145 Issue: 7 2015 Jul
Authors Nyangale EP,Farmer S,Cash HA,Keller D,Chernoff D,Gibson GR

Comparative in vitro fermentations of cranberry and grape seed polyphenols with colonic microbiota.
Food chemistry , Volume: 183 2015 Sep 15
Authors Sánchez-Patán F,Barroso E,van de Wiele T,Jiménez-Girón A,Martín-Alvarez PJ,Moreno-Arribas MV,Martínez-Cuesta MC,Peláez C,Requena T,Bartolomé B

Pilot dietary intervention with heat-stabilized rice bran modulates stool microbiota and metabolites in healthy adults.
Nutrients , Volume: 7 Issue: 2 2015 Feb 16
Authors Sheflin AM,Borresen EC,Wdowik MJ,Rao S,Brown RJ,Heuberger AL,Broeckling CD,Weir TL,Ryan EP

Noni (Morinda citrifolia L.) Fruit Extracts Improve Colon Microflora and Exert Anti-Inflammatory Activities in Caco-2 Cells.
Journal of medicinal food , Volume: 18 Issue: 6 2015 Jun
Authors Huang HL,Liu CT,Chou MC,Ko CH,Wang CK

Chemically defined diet alters the protective properties of fructo-oligosaccharides and isomalto-oligosaccharides in HLA-B27 transgenic rats.
PloS one , Volume: 9 Issue: 11 2014
Authors Koleva P,Ketabi A,Valcheva R,Gänzle MG,Dieleman LA

Diets high in resistant starch and arabinoxylan modulate digestion processes and SCFA pool size in the large intestine and faecal microbial composition in pigs.
The British journal of nutrition , Volume: 112 Issue: 11 2014 Dec 14
Authors Nielsen TS,Lærke HN,Theil PK,Sørensen JF,Saarinen M,Forssten S,Knudsen KE

Assessment of Bioautography and Spot Screening of TLC of Green Tea (Camellia) Plant Extracts as Antibacterial and Antioxidant Agents
Indian Journal of Pharmaceutical Sciences , Volume: 76 Issue: 4 2014 Jul-Aug
Authors Bashir S,Khan BM,Babar M,Andleeb S,Hafeez M,Ali S,Khan MF

Active dry Saccharomyces cerevisiae can alleviate the effect of subacute ruminal acidosis in lactating dairy cows.
Journal of dairy science , Volume: 97 Issue: 12 2014 Dec
Authors AlZahal O,Dionissopoulos L,Laarman AH,Walker N,McBride BW

Effect of prebiotics on the fecal microbiota of elderly volunteers after dietary supplementation of Bacillus coagulans GBI-30, 6086.
Anaerobe , Volume: 30 2014 Dec
Authors Nyangale EP,Farmer S,Keller D,Chernoff D,Gibson GR

Fermentable non-starch polysaccharides increases the abundance of Bacteroides-Prevotella-Porphyromonas in ileal microbial community of growing pigs.
Animal : an international journal of animal bioscience , Volume: 8 Issue: 11 2014 Nov
Authors Ivarsson E,Roos S,Liu HY,Lindberg JE

The effect of hydro alcoholic extract of seven plants on cariogenic bacteria--an in vitro evaluation.
Oral health and dental management , Volume: 13 Issue: 2 2014 Jun
Authors Kermanshah H,Kamangar SS,Arami S,Kamalinegad M,Karimi M,Mirsalehian A,Jabalameli F,Fard MJ

Effects of diet on gut microbiota profile and the implications for health and disease.
Bioscience of microbiota, food and health , Volume: 32 Issue: 1 2013
Authors Lee YK

Lactobacillus plantarum IFPL935 impacts colonic metabolism in a simulator of the human gut microbiota during feeding with red wine polyphenols.
Applied microbiology and biotechnology , Volume: 98 Issue: 15 2014 Aug
Authors Barroso E,Van de Wiele T,Jiménez-Girón A,Muñoz-González I,Martín-Alvarez PJ,Moreno-Arribas MV,Bartolomé B,Peláez C,Martínez-Cuesta MC,Requena T

Impact of diet and individual variation on intestinal microbiota composition and fermentation products in obese men
The ISME Journal , Volume: 8 Issue: 11 2014 Apr 24
Authors Salonen A,Lahti L,Salojärvi J,Holtrop G,Korpela K,Duncan SH,Date P,Farquharson F,Johnstone AM,Lobley GE,Louis

P,Flint HJ,de Vos WM

Effects of resveratrol on gut microbiota and fat storage in a mouse model with high-fat-induced obesity.

Food & function , Volume: 5 Issue: 6 2014 Jun

Authors Qiao Y,Sun J,Xia S,Tang X,Shi Y,Le G

454 pyrosequencing reveals changes in the faecal microbiota of adults consuming Lactobacillus casei Zhang.

FEMS microbiology ecology , Volume: 88 Issue: 3 2014 Jun

Authors Zhang J,Wang L,Guo Z,Sun Z,Gesudu Q,Kwok L,Menghebilige,Zhang H

RNA-stable-isotope probing shows utilization of carbon from inulin by specific bacterial populations in the rat large bowel.

Applied and environmental microbiology , Volume: 80 Issue: 7 2014 Apr

Authors Tannock GW,Lawley B,Munro K,Sims IM,Lee J,Butts CA,Roy N

Additional oligofructose/inulin does not increase faecal bifidobacteria in critically ill patients receiving enteral nutrition: a randomised controlled trial.

Clinical nutrition (Edinburgh, Scotland) , Volume: 33 Issue: 6 2014 Dec

Authors Majid HA,Cole J,Emery PW,Whelan K

Effects of a probiotic, Enterococcus faecium, on growth performance, intestinal morphology, immune response, and cecal microflora in broiler chickens challenged with Escherichia coli K88.

Poultry science , Volume: 92 Issue: 11 2013 Nov

Authors Cao GT,Zeng XF,Chen AG,Zhou L,Zhang L,Xiao YP,Yang CM

Effect of prebiotic carbohydrates on growth, bile survival and cholesterol uptake abilities of dairy-related bacteria.

Journal of the science of food and agriculture , Volume: 94 Issue: 6 2014 Apr

Authors Ziar H,Gérard P,Riazi A

Probiotic features of two oral Lactobacillus isolates.

Brazilian journal of microbiology : [publication of the Brazilian Society for Microbiology] , Volume: 43 Issue: 1 2012 Jan

Authors Zavisic G,Petricevic S,Radulovic Z,Begovic J,Golic N,Topisirovic L,Strahinic I

Dietary grape seed extract ameliorates symptoms of inflammatory bowel disease in IL10-deficient mice.

Molecular nutrition & food research , Volume: 57 Issue: 12 2013 Dec

Authors Wang H,Xue Y,Zhang H,Huang Y,Yang G,Du M,Zhu MJ

Prebiotic effects of arabinoxylan oligosaccharides on juvenile Siberian sturgeon (Acipenser baerii) with emphasis on the modulation of the gut microbiota using 454 pyrosequencing.

FEMS microbiology ecology , Volume: 86 Issue: 2 2013 Nov

Authors Geraylou Z,Souffreau C,Rurangwa E,Maes GE,Spanier KI,Courtin CM,Delcour JA,Buyse J,Ollevier F

Fecal microbial communities of healthy adult dogs fed raw meat-based diets with or without inulin or yeast cell wall extracts as assessed by 454 pyrosequencing.

FEMS microbiology ecology , Volume: 84 Issue: 3 2013 Jun

Authors Beloshapka AN,Dowd SE,Suchodolski JS,Steiner JM,Duclos L,Swanson KS

The inhibitory effect of polyphenols on human gut microbiota.

Journal of physiology and pharmacology : an official journal of the Polish Physiological Society , Volume: 63 Issue: 5 2012 Oct

Authors Duda-Chodak A

Structural changes of gut microbiota during berberine-mediated prevention of obesity and insulin resistance in high-fat diet-fed rats.

PloS one , Volume: 7 Issue: 8 2012

Authors Zhang X,Zhao Y,Zhang M,Pang X,Xu J,Kang C,Li M,Zhang C,Zhang Z,Zhang Y,Li X,Ning G,Zhao L

Cocoa modulatory effect on rat faecal microbiota and colonic crosstalk.

Archives of biochemistry and biophysics , Volume: 527 Issue: 2 2012 Nov 15

Authors Massot-Cladera M,Pérez-Berezo T,Franch A,Castell M,Pérez-Cano FJ

Influence of red wine polyphenols and ethanol on the gut microbiota ecology and biochemical biomarkers.

The American journal of clinical nutrition , Volume: 95 Issue: 6 2012 Jun

Authors Queipo-Ortuño MI,Boto-Ordóñez M,Murri M,Gomez-Zumaquero JM,Clemente-Postigo M,Estruch R,Cardona Diaz F,Andrés-Lacueva C,Tinahones FJ

Changes in gut microbiota in children with atopic dermatitis administered the bacteria Lactobacillus casei DN–114001.

Polish journal of microbiology , Volume: 60 Issue: 4 2011

Authors Klewicka E,Cukrowska B,Libudzisz Z,Slizewska K,Motyl I

Inulin and fructo-oligosaccharides have divergent effects on colitis and commensal microbiota in HLA-B27 transgenic rats.

The British journal of nutrition , Volume: 108 Issue: 9 2012 Nov 14

Authors Koleva PT,Valcheva RS,Sun X,Gänzle MG,Dieleman LA

Grape antioxidant dietary fiber stimulates Lactobacillus growth in rat cecum.

Journal of food science , Volume: 77 Issue: 2 2012 Feb
Authors Pozuelo MJ,Agis-Torres A,Hervert-Hernández D,Elvira López-Oliva M,Muñoz-Martínez E,Rotger R,Goñi I
In-vitro antimicrobial activity and synergistic/antagonistic effect of interactions between antibiotics and some spice essential oils.
Journal of environmental biology , Volume: 32 Issue: 1 2011 Jan
Authors Toroglu S
Arabinoxylans and inulin differentially modulate the mucosal and luminal gut microbiota and mucin-degradation in humanized rats.
Environmental microbiology , Volume: 13 Issue: 10 2011 Oct
Authors Van den Abbeele P,Gérard P,Rabot S,Bruneau A,El Aidy S,Derrien M,Kleerebezem M,Zoetendal EG,Smidt H,Verstraete W,Van de Wiele T,Possemiers S
Prunus mume extract exhibits antimicrobial activity against pathogenic oral bacteria.
International journal of paediatric dentistry , Volume: 21 Issue: 4 2011 Jul
Authors Seneviratne CJ,Wong RW,Hägg U,Chen Y,Herath TD,Samaranayake PL,Kao R
Effects of dietary polyphenol-rich grape products on intestinal microflora and gut morphology in broiler chicks.
Poultry science , Volume: 90 Issue: 3 2011 Mar
Authors Viveros A,Chamorro S,Pizarro M,Arija I,Centeno C,Brenes A
Antimicrobial activity of a combination of Mume fructus, Schizandrae fructus, and Coptidis rhizoma on enterohemorrhagic Escherichia coli O26, O111, and O157 and its effect on Shiga toxin releases.
Foodborne pathogens and disease , Volume: 8 Issue: 5 2011 May
Authors Lee JH,Stein BD
Biodegradable gelatin-chitosan films incorporated with essential oils as antimicrobial agents for fish preservation.
Food microbiology , Volume: 27 Issue: 7 2010 Oct
Authors Gómez-Estaca J,López de Lacey A,López-Caballero ME,Gómez-Guillén MC,Montero P
Inhibitory effects of Japanese apricot (Prunus mume Siebold et Zucc.; Ume) on Helicobacter pylori-related chronic gastritis.
European journal of clinical nutrition , Volume: 64 Issue: 7 2010 Jul
Authors Enomoto S,Yanaoka K,Utsunomiya H,Niwa T,Inada K,Deguchi H,Ueda K,Mukoubayashi C,Inoue I,Maekita T,Nakazawa K,Iguchi M,Arii K,Tamai H,Yoshimura N,Fujishiro M,Oka M,Ichinose M
Dietary cellulose, fructooligosaccharides, and pectin modify fecal protein catabolites and microbial populations in adult cats.
Journal of animal science , Volume: 88 Issue: 9 2010 Sep
Authors Barry KA,Wojcicki BJ,Middelbos IS,Vester BM,Swanson KS,Fahey GC Jr
Lactobacillus johnsonii N6.2 mitigates the development of type 1 diabetes in BB-DP rats.
PloS one , Volume: 5 Issue: 5 2010 May 6
Authors Valladares R,Sankar D,Li N,Williams E,Lai KK,Abdelgeliel AS,Gonzalez CF,Wasserfall CH,Larkin J,Schatz D,Atkinson MA,Triplett EW,Neu J,Lorca GL
Nonstarch polysaccharides modulate bacterial microbiota, pathways for butyrate production, and abundance of pathogenic Escherichia coli in the pig gastrointestinal tract.
Applied and environmental microbiology , Volume: 76 Issue: 11 2010 Jun
Authors Metzler-Zebeli BU,Hooda S,Pieper R,Zijlstra RT,van Kessel AG,Mosenthin R,Gänzle MG
Effect of apple intake on fecal microbiota and metabolites in humans.
Anaerobe , Volume: 16 Issue: 5 2010 Oct
Authors Shinohara K,Ohashi Y,Kawasumi K,Terada A,Fujisawa T
Probiotic potential of noni juice fermented with lactic acid bacteria and bifidobacteria.
International journal of food sciences and nutrition , Volume: 60 Suppl 6 2009
Authors Wang CY,Ng CC,Su H,Tzeng WS,Shyu YT
Characterization and antimicrobial spectrum of bacteriocins produced by lactic acid bacteria isolated from traditional Bulgarian dairy products.
Journal of applied microbiology , Volume: 106 Issue: 2 2009 Feb
Authors Simova ED,Beshkova DB,Dimitrov ZhP
Therapeutic potential of two probiotics in inflammatory bowel disease as observed in the trinitrobenzene sulfonic acid model of colitis.
Diseases of the colon and rectum , Volume: 51 Issue: 12 2008 Dec
Authors Amit-Romach E,Uni Z,Reifen R
Inhibitory effect of Gram-negative and Gram-positive microorganisms against Helicobacter pylori clinical isolates.
The Journal of antimicrobial chemotherapy , Volume: 61 Issue: 1 2008 Jan
Authors López-Brea M,Alarcón T,Domingo D,Díaz-Regañón J
Physiological effects of extraction juices from apple, grape, and red beet pomaces in rats.
Journal of agricultural and food chemistry , Volume: 54 Issue: 26 2006 Dec 27

Authors Sembries S,Dongowski G,Mehrländer K,Will F,Dietrich H
Effect of the folk remedy, Bainiku-ekisu, a concentrate of Prunus mume juice, on Helicobacter pylori infection in humans.
Helicobacter , Volume: 11 Issue: 6 2006 Dec
Authors Nakajima S,Fujita K,Inoue Y,Nishio M,Seto Y
Antagonistic activity of probiotic lactobacilli and bifidobacteria against entero- and uropathogens.
Journal of applied microbiology , Volume: 100 Issue: 6 2006 Jun
Authors Hütt P,Shchepetova J,Lõivukene K,Kullisaar T,Mikelsaar M
Antimicrobial and antiplasmid activities of essential oils.
Fitoterapia , Volume: 77 Issue: 4 2006 Jun
Authors Schelz Z,Molnar J,Hohmann J
Improvement of the human intestinal flora by ingestion of the probiotic strain Lactobacillus johnsonii La1.
The British journal of nutrition , Volume: 95 Issue: 2 2006 Feb
Authors Yamano T,Iino H,Takada M,Blum S,Rochat F,Fukushima Y
Molecular and microbiological analysis of caecal microbiota in rats fed with diets supplemented either with prebiotics or probiotics.
International journal of food microbiology , Volume: 98 Issue: 3 2005 Feb 15
Authors Montesi A,García-Albiach R,Pozuelo MJ,Pintado C,Goñi I,Rotger R
Antimicrobial effect of water extract of sumac (Rhus coriaria L.) on the growth of some food borne bacteria including pathogens.
International journal of food microbiology , Volume: 97 Issue: 1 2004 Dec 1
Authors Nasar-Abbas SM,Halkman AK
Contribution of acetate to butyrate formation by human faecal bacteria.
The British journal of nutrition , Volume: 91 Issue: 6 2004 Jun
Authors Duncan SH,Holtrop G,Lobley GE,Calder AG,Stewart CS,Flint HJ
Improvement of the probiotic effect of micro-organisms by their combination with maltodextrins, fructo-oligosaccharides and polyunsaturated fatty acids.
The British journal of nutrition , Volume: 88 Suppl 1 2002 Sep
Authors Bomba A,Nemcová R,Gancarcíková S,Herich R,Guba P,Mudronová D
Oligofructose and long-chain inulin: influence on the gut microbial ecology of rats associated with a human faecal flora.
The British journal of nutrition , Volume: 86 Issue: 2 2001 Aug
Authors Kleessen B,Hartmann L,Blaut M
Probiotic activities of Lactobacillus casei rhamnosus: in vitro adherence to intestinal cells and antimicrobial properties.
Research in microbiology , Volume: 152 Issue: 2 2001 Mar
Authors Forestier C,De Champs C,Vatoux C,Joly B
The effect of consumption of milk fermented by Lactobacillus casei strain Shirota on the intestinal microflora and immune parameters in humans.
European journal of clinical nutrition , Volume: 52 Issue: 12 1998 Dec
Authors Spanhaak S,Havenaar R,Schaafsma G
Continuous culture selection of bifidobacteria and lactobacilli from human faecal samples using fructooligosaccharide as selective substrate.
Journal of applied microbiology , Volume: 85 Issue: 4 1998 Oct
Authors Sghir A,Chow JM,Mackie RI
The colonization of a simulator of the human intestinal microbial ecosystem by a probiotic strain fed on a fermented oat bran product: effects on the gastrointestinal microbiota.
Applied microbiology and biotechnology , Volume: 50 Issue: 2 1998 Aug
Authors Kontula P,Jaskari J,Nollet L,De Smet I,von Wright A,Poutanen K,Mattila-Sandholm T
Antimicrobial compounds from Lactobacillus casei and Lactobacillus helveticus.
The new microbiologica , Volume: 16 Issue: 2 1993 Apr
Authors Vescovo M,Scolari GL,Caravaggi L,Bottazzi V
The fermentation of lactulose by colonic bacteria.
Journal of general microbiology , Volume: 128 Issue: 2 1982 Feb
Authors Sahota SS,Bramley PM,Menzies IS
Effect of saccharin on growth and acid production of glucose-grown pathogenic and oral bacteria.
Microbios , Volume: 42 Issue: 169-170 1985
Authors Linke HA,Doyle GA
The effect of inulin and/or wheat bran in the diet during early life on intestinal health of broiler chicks
21st European Symposium on Poultry Nutrition (ESPN 2017) , Volume: Unpublished conference/Abstract Issue: Jan 2018

Authors Li, Bing

Effects of probiotic Enterococcus faecium NCIMB 11181 administration on swine fecal microbiota diversity and composition using barcoded pyrosequencing

Animal Feed Science and Technology , Volume: 201 2015 Mar

Authors Edward Alain B.Pajarillo,Dae-Kyung Kang,Chan-Soo Park,Hyeun Bum Kim,Marilen P Balolong

Human Gut Microbiome Response Induced by Fermented Dairy Product Intake

The FASEB Journal , Volume: Apr 2018

Authors Olesya Volokh

Variability in gut microbiota response to an inulin-type fructan prebiotic within an in vitro three-stage continuous colonic model system

Bioactive Carbohydrates and Dietary Fibre , Volume: 11 Issue: July 2017 July 2017

Authors G.Healey

Curated database of commensal, symbiotic and pathogenic microbiota

Generative Bioinformatics , Volume: Issue: 2014 Jun

Authors D'Adamo Peter

Curcumin consumption reduces gut microbial diversity among patients with colorectal adenomas

The FASEB Journal , Volume: 26 Issue: 1 2012 Apr 1

Authors April McLauchlin,Felix Araujo-Perez,Nikki McCoy,Kevin Smith,Bob Sandler,Gary Asher,Temitope Keku

Additional APriori Analysis Available

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

Abdominal Aortic Aneurysm
Acne
ADHD
Age-Related Macular Degeneration and Glaucoma
Allergic Rhinitis (Hay Fever)
Allergies
Allergy to milk products
Alopecia (Hair Loss)
Alzheimer's disease
Amyotrophic lateral sclerosis (ALS) Motor Neuron
Ankylosing spondylitis
Anorexia Nervosa
Antiphospholipid syndrome (APS)
Asthma
Atherosclerosis
Atrial fibrillation
Autism
Autoimmune Disease
Barrett esophagus cancer
benign prostatic hyperplasia
Bipolar Disorder
Brain Trauma
Breast Cancer
Cancer (General)
Carcinoma
cdkl5 deficiency disorder
Celiac Disease
Cerebral Palsy
Chronic Fatigue Syndrome
Chronic Kidney Disease
Chronic Lyme
Chronic Obstructive Pulmonary Disease (COPD)
Chronic Urticaria (Hives)
Coagulation / Micro clot triggering bacteria

Colorectal Cancer
Constipation
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)
hypersomnia
hypertension (High Blood Pressure
Hypothyroidism
Hypoxia
IgA nephropathy (IgAN)
Inflammatory Bowel Disease
Insomnia
Intelligence
Intracranial aneurysms
Irritable Bowel Syndrome
Juvenile idiopathic arthritis
Liver Cirrhosis
Long COVID
Low bone mineral density
Lung Cancer
Mast Cell Issues / mastitis
ME/CFS with IBS
ME/CFS without IBS
membranous nephropathy
Menopause
Metabolic Syndrome
Mood Disorders
multiple chemical sensitivity [MCS]
Multiple Sclerosis
Multiple system atrophy (MSA)
myasthenia gravis

neuropathic pain
Neuropathy (all types)
neuropsychiatric disorders (PANDAS, PANS)
Nonalcoholic Fatty Liver Disease (nafld) Nonalcoholic
NonCeliac Gluten Sensitivity
Obesity
obsessive-compulsive disorder
Osteoarthritis
Osteoporosis
pancreatic cancer
Parkinson's Disease
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)
Stress / posttraumatic stress disorder
Systemic Lupus Erythematosus
Tic Disorder
Tourette syndrome
Type 1 Diabetes
Type 2 Diabetes
Ulcerative colitis
Unhealthy Ageing