

Microbiome Information for: Gastroesophageal reflux disease (Gerd) including Barrett's esophagus

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 *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 Gastroesophageal reflux disease (Gerd) including Barrett's esophagus

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
Fusobacteria	class	High	203490	Neisseria	genus	High	482
Spirochaetia	class	High	203692	Rothia	genus	High	32207
Campylobacter	genus	High	194	Rothia	genus	High	508215
Fusobacterium	genus	High	848	Streptococcus	genus	Low	1301
Granulicatella	genus	High	117563	Veillonella	genus	High	29465
Haemophilus	genus	High	724	Lactobacillus gasseri	species	Low	1596
Helicobacter	genus	Low	209	Limosilactobacillus fermentum	species	Low	1613
Moraxella	genus	Low	475	Limosilactobacillus reuteri	species	Low	1598
				Streptococcus mitis	species	High	28037

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.

AMOXICILLIN (ANTIBIOTIC)[CFS]
AMPICILLIN (ANTIBIOTIC)[CFS]
 annatto
 bacillus laterosporus (probiotic)
 benzylpenicillin sodium (antibiotic)
 bifidobacterium animalis lactis (probiotics) 1.BCFU/day
 bifidobacterium longum bb536 (probiotics)
 cloquinol,(prescription)
 colistin sulfate (antibiotic)
 d-ribose 10 gram/day
 enoxacin (antibiotic)
 enterococcus faecium (probiotic) 1.BCFU/day
 flumequine (antibiotic)
 gluten-free diet
 glycerol monolaurate (Monolaurin)
 glycyrrhizic acid (licorice) 32 gram/day
 high-fat diets
 hyoscyamine (l),(prescription)
 imipenem (antibiotic)s
 lactose
 laminaria hyperborea(tangle/cuvie - seaweed)
 mafenide hydrochloride (antibiotic)
 neem 120 mg/day
 Nicotine, Nicotine Patch
 nifurtimox,(prescription)
 nitrofurantoin (antibiotic)
 nitrofurantoin (antibiotic)
 amidazole (antibiotic)s
 piperacillin-tazobactam (antibiotic)s
 rare meat
 rifampicin (antibiotic)s
 ronidazole,(prescription)
 rufloxacin (antibiotic)
 salt (sodium chloride)
 secnidazole,(prescription)
 Shen Ling Bai Zhu San
 stevia 800 mg/day
 streptomycin (antibiotic)s
 sulfites food additives
 Sumac(Rhus coriaria)
 syzygium aromaticum (clove)
 tetracycline (antibiotic)s
 tigecycline (antibiotic)s
 tinidazole (antibiotic)
 tobramycin (antibiotic)s
 trachyspermum ammi, Ajwain
 Umeboshi (Japanese Apricot or Prunus mume)
VANCOMYCIN (ANTIBIOTIC)[CFS]
 Vitamin B9,folic acid 5 mg/day

Retail Probiotics

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

HLH BIOPHARMA(DE) / LACTOBACT ® FORTE
nature's bounty / probioti 10
spain (es) / profaes4 edad escolar
blackmore (au) / probiotics+ bowel support
PharmExtracta (IT) / iNatal Sachets
Ombre / Metabolic Booster
speer labs / emuaid first defense
bioflorin (deu) / bioflorin
HLH BIOPHARMA(DE) / LACTOBACT ® OMNI FOS
activia drink
SuperSmart / Bifidobacterium longum (BB536)
PharmExtracta (IT) / FG5 Forte In Sachets
genestra brands® hm
Pharmextracta (IT) / iNatal DUO sachets
quality health(au)/ fridge free probiotic 25b
Bromatech (IT) / Enterelle
PrecisionBiotics / Zenflore
klaire labs / target gb-x
spain (es) / ns defenbiotic kids
Optibac Probiotics / Bifidobacterium lactis HN019
spain (es) / profaes4 viajeros
Pharmextracta (IT) / iNatal PED stick
Microbiome Labs / ZENBIOME Dual
klaire labs / ther-biotic factor 4
optibac / for every day max
o'donnell / flora-balance
PoolPharma (IT) / ProbioTKMIO

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.

almonds/ almond skins	Human milk oligosaccharides (prebiotic, Holigos, Stachyose)
apple	inulin (prebiotic)
arabinogalactan (prebiotic)	jerusalem artichoke (prebiotic)
azithromycin,(antibiotic)s[CFS]	Lactobacillus Johnsonii (probiotic)
bacillus subtilis (probiotics)	lactobacillus plantarum (probiotics)
barley	lactulose
barley,oat	laminaria digitata,oarweed - seaweed
Burdock Root	metformin (prescription)
Cacao	noni
clostridium butyricum (probiotics),Miya,Miyarisan	raffinose(sugar beet)
Conjugated Linoleic Acid	resveratrol (grape seed/polyphenols/red wine)
fat	sesame cake/meal
fructo-oligosaccharides (prebiotic)	Vitamin C (ascorbic acid)
gum arabic (prebiotic)	vsl#3 (probiotics)
	walnuts

Sample of Literature Used

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

Associations of the microbiome and esophageal disease.

Journal of thoracic disease , Volume: 11 Issue: Suppl 12 2019 Aug

Authors Okereke I,Hamilton C,Wenholz A,Jala V,Giang T,Reynolds S,Miller A,Pyles R

Alteration of the esophageal microbiota in Barrett`s esophagus and esophageal adenocarcinoma.

World journal of gastroenterology , Volume: 25 Issue: 18 2019 May 14

Authors Lv J,Guo L,Liu JJ,Zhao HP,Zhang J,Wang JH

Changes in the distal esophageal microbiota in Chinese patients with reflux esophagitis.

Journal of digestive diseases , Volume: 20 Issue: 1 2019 Jan

Authors Yu Y,Gao F,Chen X,Zheng S,Zhang J

The Esophageal Microbiome in Health and Disease.

Current gastroenterology reports , Volume: 20 Issue: 8 2018 Aug 1

Authors Corning B,Copland AP,Frye JW

Gut Microbiota Composition Before and After Use of Proton Pump Inhibitors.

Digestive diseases and sciences , Volume: 63 Issue: 11 2018 Nov

Authors Hojo M,Asahara T,Nagahara A,Takeda T,Matsumoto K,Ueyama H,Matsumoto K,Asaoka D,Takahashi T,Nomoto K,Yamashiro Y,Watanabe S

Inflammation and intestinal metaplasia of the distal esophagus are associated with alterations in the microbiome.

Gastroenterology , Volume: 137 Issue: 2 2009 Aug

Authors Yang L,Lu X,Nossa CW,Francois F,Peek RM,Pei Z

Shen-Ling-Bai-Zhu-San (SL) and SL Derived-Polysaccharide (PL) Ameliorate the Severity of Diarrhea-Induced by High Lactose via Modification of Colonic Fermentation.

Frontiers in pharmacology , Volume: 13 2022

Authors Xue H,Ma J,Wang Y,Lu M,Wang F,Tang X

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

Effects of ShenLing BaiZhu San Supplementation on Gut Microbiota and Oxidative Stress in Rats with Ulcerative Colitis.

Evidence-based complementary and alternative medicine : eCAM , Volume: 2021 2021

Authors Gu D,Zhou S,Yao L,Tan Y,Chi X,Shi D,Guo S,Liu C

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,Luis AJ

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

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

Effect of Supplementing Seaweed Extracts to Pigs until d35 Post-Weaning on Performance and Aspects of Intestinal Health.

Marine drugs , Volume: 19 Issue: 4 2021 Mar 26

Authors Vigors S,O`Doherty J,Rattigan R,Sweeney T

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

Coadministration of metformin prevents olanzapine-induced metabolic dysfunction and regulates the gut-liver axis in rats.

Psychopharmacology , Volume: 238 Issue: 1 2021 Jan

Authors Luo C,Wang X,Huang HX,Mao XY,Zhou HH,Liu ZQ

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

Neuroprotective effects associated with immune modulation by selected lactic acid bacteria in a Parkinson`s disease model.

Nutrition (Burbank, Los Angeles County, Calif.) , Volume: 79-80 2020 Nov - Dec

Authors Perez Visňuk D,Savoy de Giori G,LeBlanc JG,de Moreno de LeBlanc A

[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

[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

[The Protective Effects of 2`-Fucosyllactose against E. Coli O157 Infection Are Mediated by the Regulation of Gut Microbiota and the Inhibition of Pathogen Adhesion.](#)

Nutrients , Volume: 12 Issue: 5 2020 May 1

Authors Wang Y,Zou Y,Wang J,Ma H,Zhang B,Wang S

[2`-fucosyllactose Supplementation Improves Gut-Brain Signaling and Diet-Induced Obese Phenotype and Changes the Gut Microbiota in High Fat-Fed Mice.](#)

Nutrients , Volume: 12 Issue: 4 2020 Apr 5

Authors Lee S,Goodson M,Vang W,Kalanetra K,Barile D,Raybould H

[Two apples a day modulate human:microbiome co-metabolic processing of polyphenols, tyrosine and tryptophan.](#)

European journal of nutrition , 2020 Feb 26

Authors Ulaszewska MM,Koutsos A,Trošt K,Stanstrup J,Garcia-Aloy M,Scholz M,Fava F,Natella F,Scaccini C,Vrhovsek U,Tuohy K,Lovegrove J,Mattivi F

[Effect of Dose and Timing of Burdock \(<i>Arctium lappa</i>\) Root Intake on Intestinal Microbiota of Mice.](#)

Microorganisms , Volume: 8 Issue: 2 2020 Feb 6

Authors Watanabe A,Sasaki H,Miyakawa H,Nakayama Y,Lyu Y,Shibata S

[The Association Between Smoking and Gut Microbiome in Bangladesh.](#)

Nicotine & tobacco research : official journal of the Society for Research on Nicotine and Tobacco , Volume: 22 Issue: 8 2020 Jul 16

Authors Nolan-Kenney R,Wu F,Hu J,Yang L,Kelly D,Li H,Jasmine F,Kibriya MG,Parvez F,Shaheen I,Sarwar G,Ahmed A,Eunus M,Islam T,Pei Z,Ahsan H,Chen Y

[Shen-Ling-Bai-Zhu-San alleviates functional dyspepsia in rats and modulates the composition of the gut microbiota.](#)

Nutrition research (New York, N.Y.) , Volume: 71 2019 Nov

Authors Zhang S,Lin L,Liu W,Zou B,Cai Y,Liu D,Xiao D,Chen J,Li P,Zhong Y,Liao Q,Xie Z

[Immunomodulatory and Prebiotic Effects of 2`-Fucosyllactose in Suckling Rats.](#)

Frontiers in immunology , Volume: 10 2019

Authors Azagra-Boronat I,Massot-Cladera M,Mayneris-Perxachs J,Knipping K,Van` t Land B,Tims S,Stahl B,Garssen J,Franch A,Castell M,Rodríguez-Lagunas MJ,Pérez-Cano FJ

[Systems Pharmacology and Microbiome Dissection of Shen Ling Bai Zhu San Reveal Multiscale Treatment Strategy for IBD.](#)

Oxidative medicine and cellular longevity , Volume: 2019 2019

Authors Lv WJ,Liu C,Li YF,Chen WQ,Li ZQ,Li Y,Xiong Y,Chao LM,Xu XL,Guo SN

[Brevibacillus laterosporus strains BGSP7, BGSP9 and BGSP11 isolated from silage produce broad spectrum multi-antimicrobials.](#)

PloS one , Volume: 14 Issue: 5 2019

Authors Miljkovic M,Jovanovic S,O` Connor PM,Mirkovic N,Jovcic B,Filipic B,Dinic M,Studholme DJ,Fira D,Cotter PD,Kojic M

[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 Canigía L,Pérez GT

[In vitro fermentation of raffinose by the human gut bacteria.](#)

Food & function , Volume: 9 Issue: 11 2018 Nov 14

Authors Mao B,Tang H,Gu J,Li D,Cui S,Zhao J,Zhang H,Chen W

[Evaluation of antimicrobial efficacy of <i>Trachyspermum ammi</i> \(Ajwain\) oil and chlorhexidine against oral bacteria: An <i>in vitro</i> study.](#)

Journal of the Indian Society of Pedodontics and Preventive Dentistry , Volume: 36 Issue: 4 2018 Oct-Dec

Authors Dadpe MV,Dhore SV,Dahake PT,Kale YJ,Kendre SB,Siddiqui AG

[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

[Azithromycin Susceptibility Among Neisseria gonorrhoeae Isolates and Seasonal Macrolide Use.](#)

The Journal of infectious diseases , Volume: 219 Issue: 4 2019 Jan 29

Authors Olesen SW,Torrone EA,Papp JR,Kirkcaldy RD,Lipsitch M,Grad YH

[Antibacterial activity of traditional spices against lower respiratory tract pathogens: combinatorial effects of Trachyspermum](#)

[ammi essential oil with conventional antibiotics.](#)

Letters in applied microbiology , Volume: 67 Issue: 5 2018 Nov

Authors Gradinaru AC,Trifan A,Spac A,Brebu M,Miron A,Aprotosoia AC

[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

[Prebiotic Potential of Herbal Medicines Used in Digestive Health and Disease.](#)

Journal of alternative and complementary medicine (New York, N.Y.) , Volume: 24 Issue: 7 2018 Jul

Authors Peterson CT,Sharma V,Uchitel S,Denniston K,Chopra D,Mills PJ,Peterson SN

[Extensive impact of non-antibiotic drugs on human gut bacteria.](#)

Nature , Volume: 555 Issue: 7698 2018 Mar 29

Authors Maier L,Pruteanu M,Kuhn M,Zeller G,Telzerow A,Anderson EE,Brochado AR,Fernandez KC,Dose H,Mori H,Patil KR,Bork P,Typas A

[Fermentation of non-digestible raffinose family oligosaccharides and galactomannans by probiotics.](#)

Food & function , Volume: 9 Issue: 3 2018 Mar 1

Authors Zartl B,Silberbauer K,Loeppert R,Viernstein H,Praznik W,Mueller M

[Investigation of probiotics in multiple sclerosis.](#)

Multiple sclerosis (Houndmills, Basingstoke, England) , Volume: 24 Issue: 1 2018 Jan

Authors Tankou SK,Regev K,Healy BC,Cox LM,Tjon E,Kivisakk P,Vanande IP,Cook S,Gandhi R,Glanz B,Stankiewicz J,Weiner HL

[Blood lactose after dairy product intake in healthy men.](#)

The British journal of nutrition , Volume: 118 Issue: 12 2017 Dec

Authors Pimentel G,Burton KJ,Rosikiewicz M,Freiburghaus C,von Ah U,Münger LH,Pralong FP,Vionnet N,Greub G,Badertscher R,Vergères G

[Sulfites inhibit the growth of four species of beneficial gut bacteria at concentrations regarded as safe for food](#)

PLoS ONE , Volume: 12 Issue: 10 2017 Oct 18

Authors Irwin SV,Fisher P,Graham E,Malek A,Robidoux A

[Effect of Probiotic Lactobacilli on the Growth of Streptococcus Mutans and Multispecies Biofilms Isolated from Children with Active Caries.](#)

Medical science monitor : international medical journal of experimental and clinical research , Volume: 23 2017 Aug 30

Authors Lin X,Chen X,Tu Y,Wang S,Chen H

[Changes in the intestinal microbiota following the administration of azithromycin in a randomised placebo-controlled trial among infants in south India](#)

Scientific Reports , Volume: 7 2017 Aug 23

Authors Parker EP,Praharaj I,John J,Kaliappan SP,Kampmann B,Kang G,Grassly NC

[Human Milk Oligosaccharides Exhibit Antimicrobial and Antibiofilm Properties against Group B Streptococcus.](#)

ACS infectious diseases , Volume: 3 Issue: 8 2017 Aug 11

Authors Ackerman DL,Doster RS,Weitkamp JH,Aronoff DM,Gaddy JA,Townsend SD

[The effects of micronutrient deficiencies on bacterial species from the human gut microbiota.](#)

Science translational medicine , Volume: 9 Issue: 390 2017 May 17

Authors Hibberd MC,Wu M,Rodionov DA,Li X,Cheng J,Griffin NW,Barratt MJ,Giannone RJ,Hettich RL,Osterman AL,Gordon JI

[Effect of *Lactobacillus rhamnosus* HNO01 and *Bifidobacterium longum* BB536 on the healthy gut microbiota composition at phyla and species level: A preliminary study.](#)

World journal of gastroenterology , Volume: 23 Issue: 15 2017 Apr 21

Authors Toscano M,De Grandi R,Stronati L,De Vecchi E,Drago L

[Influence of chronic azithromycin treatment on the composition of the oropharyngeal microbial community in patients with severe asthma.](#)

BMC microbiology , Volume: 17 Issue: 1 2017 May 10

Authors Lopes Dos Santos Santiago G,Brusselle G,Dauwe K,Deschaght P,Verhofstede C,Vaneechoutte D,Deschepper E,Jordens P,Joos G,Vaneechoutte M

[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

[Key bacterial families \(Clostridiaceae, Erysipelotrichaceae and Bacteroidaceae\) are related to the digestion of protein and energy in dogs.](#)

PeerJ , Volume: 5 2017

Authors Bermingham EN,Maclean P,Thomas DG,Cave NJ,Young W

- Structural modulation of gut microbiota during alleviation of antibiotic-associated diarrhea with herbal formula.
International journal of biological macromolecules , Volume: 105 Issue: Pt 3 2017 Dec
Authors Lv W,Liu C,Ye C,Sun J,Tan X,Zhang C,Qu Q,Shi D,Guo S
- Clinical characteristics and antimicrobial susceptibilities of anaerobic bacteremia in an acute care hospital.
Anaerobe , Volume: 43 2017 Feb
Authors Tan TY,Ng LS,Kwang LL,Rao S,Eng LC
- Short- and long-term effects of oral vancomycin on the human intestinal microbiota.
The Journal of antimicrobial chemotherapy , Volume: 72 Issue: 1 2017 Jan
Authors Isaac S,Scher JU,Djukovic A,Jiménez N,Littman DR,Abramson SB,Pamer EG,Ubeda C
- 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,Evolino E,Palioto DB,Souza SL,Taba M Jr,Novaes AB Jr,Messora MR
- The Human Milk Oligosaccharide 2'-Fucosyllactose Quenches Campylobacter jejuni-Induced Inflammation in Human Epithelial Cells HEP-2 and HT-29 and in Mouse Intestinal Mucosa.
The Journal of nutrition , Volume: 146 Issue: 10 2016 Oct
Authors Yu ZT,Nanthakumar NN,Newburg DS
- Randomised, double-blind, placebo-controlled trial with azithromycin selects for anti-inflammatory microbial metabolites in the emphysematous lung.
Thorax , Volume: 72 Issue: 1 2017 Jan
Authors Segal LN,Clemente JC,Wu BG,Wikoff WR,Gao Z,Li Y,Ko JP,Rom WN,Blaser MJ,Weiden MD
- Addition of arabinoxylan and mixed linkage glucans in porcine diets affects the large intestinal bacterial populations.
European journal of nutrition , Volume: 56 Issue: 6 2017 Sep
Authors Gorham JB,Kang S,Williams BA,Grant LJ,McSweeney CS,Gidley MJ,Mikkelsen D
- Potential of neem (Azadirachta indica L.) for prevention and treatment of oncologic diseases.
Seminars in cancer biology , Volume: 40-41 2016 Oct
Authors Patel SM,Nagulapalli Venkata KC,Bhattacharyya P,Sethi G,Bishayee A
- 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
- Extrusion of barley and oat influence the fecal microbiota and SCFA profile of growing pigs.
Food & function , Volume: 7 Issue: 2 2016 Feb
Authors Moen B,Berget I,Rud I,Hole AS,Kjos NP,Sahlstrøm S
- From an imbalance to a new imbalance: Italian-style gluten-free diet alters the salivary microbiota and metabolome of African celiac children.
Scientific reports , Volume: 5 2015 Dec 18
Authors Ercolini D,Francavilla R,Vannini L,De Filippis F,Capriati T,Di Cagno R,Iacono G,De Angelis M,Gobbetti M
- Isolation and characterization of bacteriocinogenic lactic bacteria from M-Tuba and Tepache, two traditional fermented beverages in México.
Food science & nutrition , Volume: 3 Issue: 5 2015 Sep
Authors de la Fuente-Salcido NM,Castañeda-Ramírez JC,García-Almendárez BE,Bideshi DK,Salcedo-Hernández R,Barboza-Corona JE
- Effect of Rhus coriaria L. water extract on five common oral bacteria and bacterial biofilm formation on orthodontic wire.
Iranian journal of microbiology , Volume: 6 Issue: 4 2014 Aug
Authors Vahid-Dastjerdi E,Sarmast Z,Abdolazimi Z,Mahboubi A,Amdjadi P,Kamalinejad M
- Ascorbic acid-dependent gene expression in Streptococcus pneumoniae and the activator function of the transcriptional regulator UlaR2.
Frontiers in microbiology , Volume: 6 2015
Authors Afzal M,Shafeeq S,Kuipers OP
- Fecal microbiota composition of breast-fed infants is correlated with human milk oligosaccharides consumed.
Journal of pediatric gastroenterology and nutrition , Volume: 60 Issue: 6 2015 Jun
Authors Wang M,Li M,Wu S,Lebrilla CB,Chapkin RS,Ivanov I,Donovan SM
- Natural control of bacteria affecting meat quality by a neem (Azadirachta indica A. Juss) cake extract.
Natural product research , Volume: 29 Issue: 10 2015
Authors Del Serrone P,Failla S,Nicoletti M
- 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

In vitro activity of tigecycline and comparators against Gram-positive and Gram-negative isolates collected from the Middle East and Africa between 2004 and 2011

International journal of antimicrobial agents , Volume: 43 Issue: 2 2014 Feb

Authors Kanj SS,Whitelaw A,Dowzicky MJ

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

Antibacterial activity in spices and local medicinal plants against clinical isolates of Karachi, Pakistan.

Pharmaceutical biology , Volume: 49 Issue: 8 2011 Aug

Authors Ali NH,Faizi S,Kazmi SU

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

Development of biosensor-based assays to identify anti-infective oligosaccharides.

Analytical biochemistry , Volume: 410 Issue: 2 2011 Mar 15

Authors Lane JA,Mehra RK,Carrington SD,Hickey RM

The antimicrobial efficacy of Fructus mume extract on orthodontic bracket: a monospecies-biofilm model study in vitro.

Archives of oral biology , Volume: 56 Issue: 1 2011 Jan

Authors Chen Y,Wong RW,Seneviratne CJ,Hägg U,McGrath C,Samaranayake LP,Kao R

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

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

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

Antibiotic-induced perturbations of the intestinal microbiota alter host susceptibility to enteric infection.

Infection and immunity , Volume: 76 Issue: 10 2008 Oct

Authors Sekirov I,Tam NM,Jogova M,Robertson ML,Li Y,Lupp C,Finlay BB

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

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

Anticariogenic activity of some tropical medicinal plants against Streptococcus mutans.

Fitoterapia , Volume: 75 Issue: 6 2004 Sep

Authors Hwang JK,Shim JS,Chung JY

Emerging resistance among bacterial pathogens in the intensive care unit—a European and North American Surveillance study (2000-2002).

Annals of clinical microbiology and antimicrobials , Volume: 3 2004 Jul 29

Authors Jones ME,Draghi DC,Thornsberry C,Karlowsky JA,Sahm DF,Wenzel RP

Antimicrobial susceptibility of the pathogens of bacteraemia in the UK and Ireland 2001-2002: the BSAC Bacteraemia Resistance Surveillance Programme.

The Journal of antimicrobial chemotherapy , Volume: 53 Issue: 6 2004 Jun

Authors Reynolds R,Potz N,Colman M,Williams A,Livermore D,MacGowan A,BSAC Extended Working Party on Bacteraemia Resistance Surveillance.

Argentinean collaborative multicenter study on the in vitro comparative activity of piperacillin-tazobactam against selected bacterial isolates recovered from hospitalized patients.

Diagnostic microbiology and infectious disease , Volume: 47 Issue: 3 2003 Nov

Authors Casellas JM,Tomé G,Bantar C,Bertolini P,Blázquez N,Borda N,Couto E,Cudmani N,Guerrera J,Juárez MJ,López T,Littvik A,Méndez E,Notario R,Ponce G,Quinteros M,Salamone F,Sparo M,Sutich E,Vaylet S,Wolff L

Antimicrobial properties of commercial annatto extracts against selected pathogenic, lactic acid, and spoilage

microorganisms.**Journal of food protection** , Volume: 66 Issue: 6 2003 Jun

Authors Galindo-Cuspinera V,Westhoff DC,Rankin SA

Antimicrobial resistance in Cairo, Egypt 1999-2000: a survey of five hospitals.**The Journal of antimicrobial chemotherapy** , Volume: 51 Issue: 3 2003 Mar

Authors El Kholy A,Baseem H,Hall GS,Procop GW,Longworth DL

Interaction between probiotic lactic acid bacteria and canine enteric pathogens: a risk factor for intestinal Enterococcus faecium colonization?**Veterinary microbiology** , Volume: 92 Issue: 1-2 2003 Mar 20

Authors Rinkinen M,Jalava K,Westermarck E,Salminen S,Ouwehand AC

Potency and antimicrobial spectrum update for piperacillin/tazobactam (2000): emphasis on its activity against resistant organism populations and generally untested species causing community-acquired respiratory tract infections.**Diagnostic microbiology and infectious disease** , Volume: 43 Issue: 1 2002 May

Authors Johnson DM,Biedenbach DJ,Jones RN

High frequency of antibiotic resistance among Gram-negative isolates in intensive care units at 10 Swedish hospitals.**Clinical microbiology and infection : the official publication of the European Society of Clinical Microbiology and Infectious Diseases** , Volume: 3 Issue: 2 1997 Apr

Authors Hanberger H,Nilsson LE,Swedish Study Group .

Evaluation of the in vitro activity of 9 antimicrobials against bacterial strains isolated from patients in intensive care units in Brazil: MYSTIC Antimicrobial Surveillance Program.**The Brazilian journal of infectious diseases : an official publication of the Brazilian Society of Infectious Diseases** , Volume: 4 Issue: 5 2000 Oct

Authors Mendes C,Hsiung A,Kiffer C,Oplustil C,Sinto S,Mimica I,Zoccoli C,Mystic Study Group.

[Susceptibilities of bacteria isolated from patients with lower respiratory infectious diseases to antibiotics (1996)].**The Japanese journal of antibiotics** , Volume: 51 Issue: 7 1998 Jul

Authors Ikemoto H,Watanabe K,Mori T,Igari J,Oguri T,Shimizu Y,Terao T,Inoue H,Nakadate T,Ito C,Yoshida T,Ohno I,Tanno Y,Arakawa M,Igarashi K,Okada M,Ozaki K,Aoki N,Kitamura N,Sekine O,Suzuki Y,Nakata K,Nakatani T,Inagawa H,Kusano N

The fermentation of lactulose by colonic bacteria.**Journal of general microbiology** , Volume: 128 Issue: 2 1982 Feb

Authors Sahota SS,Bramley PM,Menzies IS

Utilization of fructose and ribose in lipopolysaccharide synthesis by Veillonella parvula.**Infection and immunity** , Volume: 41 Issue: 1 1983 Jul

Authors Tortorello ML,Delwiche EA

Comparative activities of the oxa-beta-lactam LY127935, cefotaxime, cefoperazone, cefamandole, and ticarcillin against multiply resistant gram-negative bacilli.**Antimicrobial agents and chemotherapy** , Volume: 17 Issue: 2 1980 Feb

Authors Hall WH,Opfer BJ,Gerding DN

Utilization of D-ribose by Veillonella.**Journal of bacteriology** , Volume: 98 Issue: 3 1969 Jun

Authors Kafkewitz D,Delwiche EA

Ribose utilization by Veillonella alcalescens.**Journal of bacteriology** , Volume: 109 Issue: 3 1972 Mar

Authors Kafkewitz D,Delwiche EA

Comparison of populations of human faecal bacteria before and after in vitro incubation with plant cell wall substrates.**The Journal of applied bacteriology** , Volume: 62 Issue: 3 1987 Mar

Authors Slade AP,Wyatt GM,Bayliss CE,Waites WM

Bacterial endocarditis on a prosthetic valve. Oral treatment with amoxicillin.**Chest** , Volume: 74 Issue: 2 1978 Aug

Authors Lidji M,Rubinstein E,Samra H

Infectious Disease and Antibmicrobial Agents**antimicrobe: Infectious Disease and Antibmicrobial Agents** , Volume:

Authors E-Sun Technologies

Effects of probiotic administration upon the composition and enzymatic activity of human fecal microbiota in patients with irritable bowel syndrome or functional diarrhea**Research in Microbiology** , Volume: 152 Issue: 8 2001 Oct

Authors Patrizia Brigida,Beatrice Vitalia,Erwin Swennena,Gabriele Bazzocchi,Diego Matteuzza

Additional sources and private correspondance**Private Correspondance** , Volume: 1 Issue: 2018

Misc articles

ppt-health.com , Volume: Issue: Jan 2018

Authors *ppt-health.com*

[Research cited on Manufacture Website].

Research cited on Manufacture Website , Volume: 0 Issue: 0 2018 Jan

Authors *Miyarisan Labs*

Curated database of commensal, symbiotic and pathogenic microbiota

Generative Bioinformatics , Volume: Issue: 2014 Jun

Authors *D'Adamo Peter*

Additional APriori Analysis Available

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

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Allergies
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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