

Microbiome Information for: Colorectal Cancer

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

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Bacteria being reported because of atypical values.

These bacteria were reported atypical in studies of Colorectal Cancer

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
Bacilli	class	High	91061	Parabacteroides	genus	High	375288
Bacteroidia	class	High	200643	Parasutterella	genus	High	577310
Clostridia	class	High	186801	Parvimonas	genus	High	543311
Coriobacteriia	class	Low	84998	Peptostreptococcus	genus	High	1257
Fusobacteriia	class	High	203490	Phascolarctobacterium	genus	High	33024
Mollicutes	class	High	31969	Porphyromonas	genus	High	836
Akkermansiaceae	family	High	1647988	Promicromonospora	genus	High	43676
Christensenellaceae	family	High	990719	Pseudomonas	genus	High	286
Enterobacteriaceae	family	High	543	Ralstonia	genus	High	48736
Gemellaceae	family	High	539738	Romboutsia	genus	Low	1501226
Lachnospiraceae	family	High	186803	Roseburia	genus	Low	841
Muribaculaceae	family	High	2005473	Ruminococcus	genus	High	1263
Oscillospiraceae	family	High	216572	Shigella	genus	High	620
Peptostreptococcaceae	family	High	186804	Stenotrophomonas	genus	High	40323
Prevotellaceae	family	Low	171552	Streptococcus	genus	High	1301
Rikenellaceae	family	High	171550	Subdoligranulum	genus	High	292632
Ruminococcaceae	family	High	541000	Sutterella	genus	High	40544
Acidovorax	genus	High	12916	Caulobacteriales	order	High	204458
Acinetobacter	genus	High	469	Coriobacteriales	order	Low	84999
Aerococcus	genus	High	1375	Lactobacillales	order	High	186826
Agathobacter	genus	Low	1766253	Methanomassiliicoccales	order	Low	1235850
Akkermansia	genus	High	239934	Tissierellales	order	High	1737405
Alistipes	genus	High	239759	Alistipes putredinis	species	High	28117
Anaerostipes	genus	Low	207244	Bacteroides fragilis	species	High	817
Bacteroides	genus	High	816	Bacteroides sp	species	Low	2778071
Bifidobacterium	genus	Low	1678	Blastocystis hominis	species	High	12968
Blautia	genus	High	572511	Blautia stercoris	species	High	871664
Brevundimonas	genus	High	41275	Campylobacter gracilis	species	High	824
Butyricoccus	genus	Low	580596	Campylobacter jejuni	species	High	197
Campylobacter	genus	High	194	Clostridium septicum	species	High	1504
Collinsella	genus	Low	102106	Corynebacterium amycolatum	species	High	43765
Corynebacterium	genus	High	1716	Escherichia coli	species	High	562
Cryptosporidium	genus	High	5806	Eubacterium ventriosum	species	Low	39496
Cupriavidus	genus	High	106589	Fingoldia magna	species	High	1260
Desulfobacter	genus	Low	2289	Fusobacterium nucleatum	species	High	851
Dialister	genus	High	39948	Gemella morbillorum	species	High	29391
Enterobacter	genus	High	547	Helicobacter pylori	species	High	210
Enterococcus	genus	High	1350	Hungatella hathewayi	species	High	154046
Erysipelatoclostridium	genus	High	1505663	Lachnospiraceae bacterium	species	High	1898203
Escherichia	genus	High	561	Lactobacillus gasseri	species	High	1596
Eubacterium	genus	High	1730	Ledercia adecarboxylata	species	High	83655

Bacteria Name	Rank	Shift	Taxonomy ID
Faecalibacterium	genus	Low	216851
Fusobacterium	genus	High	848
Gemella	genus	High	1378
Haemophilus	genus	Low	724
Herbaspirillum	genus	High	963
Klebsiella	genus	High	570
Lactobacillus	genus	Low	1578
Leptotrichia	genus	High	32067
Ligilactobacillus	genus	High	2767887
Mediterraneibacter	genus	High	2316020
Megamonas	genus	High	158846
Megasphaera	genus	High	906
Muribaculum	genus	High	1918540
Neisseria	genus	High	482
Odoribacter	genus	High	283168

Bacteria Name	Rank	Shift	Taxonomy ID
Limosilactobacillus mucosae	species	High	97478
Parvimonas micra	species	High	33033
Parvimonas sp.	species	High	1944660
Peptoniphilus indolicus	species	High	33030
Peptostreptococcus anaerobius	species	High	1261
Peptostreptococcus stomatis	species	High	341694
Phocaeicola vulgatus	species	High	821
Porphyromonas asaccharolytica	species	High	28123
Shigella flexneri	species	High	623
Solobacterium moorei	species	High	102148
Sphingopyxis terrae	species	High	33052
Streptococcus anginosus	species	High	1328
Streptococcus dysgalactiae	species	High	1334
Streptococcus gallolyticus	species	High	315405
Streptococcus salivarius	species	High	1304

Substance to Consider Adding or Taking

These are the most significant substances that are likely to improve the microbiome dysfunction. Dosages are based on the dosages used in clinical studies. For more information see: <https://microbiomeprescription.com/library/dosages>. These are provided as examples only

Colors indicates the type of substance: i.e. probiotics and prebiotics, herbs and spices, etc. There is no further meaning to them.

Antibiotics annotated with [CFS] have been used with various degree of success with Myalgic Encephalomyelitis, Chronic Fatigue Syndrome, Chronic Lyme, Chronic Q-Fever and Long COVID conditions. Rotation of antibiotics with 3 weeks off between courses is recommended.

5,6-dihydro-9,10-dimethoxybenzo[g]-1,3-benzodioxolo[5,6-

a]quinolizinium {Berberine} 1.5 gram/day

2H-1?6,2-benzothiazol-1,1,3-trione {Saccharin} 450 mg/day

Abstinence from eating {Fasting}

cellulose

Ethyl alcohol {Grain alcohol}

Ferum {Iron Supplements} 400 mg/day

High glycemic diet {High-sugar diet (HSD)}

high red meat

high-fat diets

High-protein diet {Atkins low-carbohydrate diet}

Hydrastis canadensis {Goldenseal}

ketogenic diet

Mycotoxins {Home Dampness}

proton-pump inhibitors (prescription) 60 mg/day

Sleep apnea {partial sleep deprivation}

Tobacco consumption {Smoking}

Ulmus rubra {slippery elm}

Retail Probiotics

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

Ombre / Harmony

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.

(2->1)-beta-D-fructofuranan {Inulin}	Hordeum vulgare {Barley}
3,3',4',5,7-pentahydroxyflavone {Quercetin}	imipenem
amikacin	Lactocaseibacillus casei {L. casei}
amoxicillin [CFS]	Lactocaseibacillus paracasei {L. paracasei}
ampicillin [CFS]	Lactobacillus plantarum {L. plantarum}
azithromycin,[CFS]	Limosilactobacillus fermentum {L. fermentum}
bacillus	Limosilactobacillus reuteri {L. Reuteri}
bacillus subtilis {B. Subtilis }	meropenem
bacillus,lactobacillus,streptococcus,saccharomyces probiotic	metronidazole [CFS]
benzylpenicillin sodium (antibiotic)	moxifloxacin (antibiotic)
Bifidobacterium animalis subsp. lactis {B. Lactis}	norfloxacin
Bovine Milk Products {Dairy}	ofloxacin
cefotaxime sodium salt (antibiotic)	oligosaccharides {oligosaccharides}
ceftazidime	origanum vulgare {oregano}
Cichorium intybus {Chicory}	piperacillin-tazobactam
ciprofloxacin [CFS]	polyphenols
clindamycin [CFS]	Probiotic Mixture 2 {Vetafarm Probiotic}
Clostridium butyricum MIYAIRI 588 {Miyarisan}	Propolis {Bee glue}
dietary fiber	rosmarinus officinalis {rosemary}
enterococcus faecium {E. faecium}	Slow digestible carbohydrates. {Low Glycemic}
Fiber, total dietary	soy
fruit	Thymus vulgaris {thyme}
fruit/legume fibre	trimethoprim
gentamicin	whole-grain diet
green tea	yogurt
	Zingiber officinale Roscoe {ginger}

Sample of Literature Used

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Abdominal Aortic Aneurysm
Acne
Addison's Disease (hypocortisolism)
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
Biofilm
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
Cognitive Function
Colorectal Cancer
Constipation
Coronary artery disease
COVID-19
Crohn's Disease
Cushing's Syndrome (hypercortisolism)
cystic fibrosis
d-lactic acidosis (one form of brain fog)
deep vein thrombosis
Denture Wearers Oral Shifts
Depression
Dermatomyositis
Eczema
Endometriosis
Eosinophilic Esophagitis
Epilepsy

erectile dysfunction
Fibromyalgia
Food Allergy
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
Gulf War Syndrome
Halitosis
Hashimoto's thyroiditis
Heart Failure
hemorrhagic stroke
Hemorrhoidal disease, Hemorrhoids, Piles
Hidradenitis Suppurativa
High Histamine/low DAO
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
ischemic stroke
Juvenile idiopathic arthritis
Liver Cirrhosis
Long COVID
Low bone mineral density
Lung Cancer
Lymphoma
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
Peanut Allergy
Polycystic ovary syndrome
Postural orthostatic tachycardia syndrome
Premenstrual dysphoric disorder
primary biliary cholangitis
Primary sclerosing cholangitis
Psoriasis
rheumatoid arthritis (RA), Spondyloarthritis (SpA)
Rosacea
Schizophrenia
scoliosis
sensorineural hearing loss
Sjögren syndrome
Sleep Apnea
Slow gastric motility / Gastroparesis
Small Intestinal Bacterial Overgrowth (SIBO)
Stress / posttraumatic stress disorder
Systemic Lupus Erythematosus
Tic Disorder
Tourette syndrome
Type 1 Diabetes
Type 2 Diabetes
Ulcerative colitis
Unhealthy Ageing
Vitiligo