

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/>)

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 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	Porphyromonas	genus	High	836
Bacteroidia	class	High	200643	Promicromonospora	genus	High	43676
Clostridia	class	High	186801	Pseudomonas	genus	High	286
Coriobacteriia	class	Low	84998	Ralstonia	genus	High	48736
Fusobacteriia	class	High	203490	Romboutsia	genus	Low	1501226
Mollicutes	class	High	31969	Roseburia	genus	Low	841
Akkermansiaceae	family	High	1647988	Ruminococcus	genus	High	1263
Christensenellaceae	family	High	990719	Shigella	genus	High	620
Clostridiaceae	family	Low	31979	Staphylococcus	genus	High	1279
Desulfovibrionaceae	family	High	194924	Stenotrophomonas	genus	High	40323
Enterobacteriaceae	family	High	543	Streptococcus	genus	High	1301
Gemellaceae	family	High	539738	Subdoligranulum	genus	High	292632
Lachnospiraceae	family	High	186803	Sutterella	genus	High	40544
Muribaculaceae	family	High	2005473	Veillonella	genus	High	29465
Oscillospiraceae	family	High	216572	Caulobacterales	order	High	204458
Porphyromonadaceae	family	Low	171551	Coriobacteriales	order	Low	84999
Prevotellaceae	family	Low	171552	Lactobacillales	order	High	186826
Rikenellaceae	family	High	171550	Methanomassiliicoccales	order	Low	1235850
Ruminococcaceae	family	High	541000	Tissierellales	order	High	1737405
Acidovorax	genus	High	12916	[Clostridium] symbiosum	species	High	1512
Acinetobacter	genus	High	469	[Ruminococcus] torques	species	High	33039
Actinomyces	genus	High	1654	Akkermansia muciniphila	species	High	239935
Aerococcus	genus	High	1375	Alistipes putredinis	species	High	28117
Agathobacter	genus	Low	1766253	Alloprevotella rava	species	High	671218
Akkermansia	genus	High	239934	Anaerobutyricum hallii	species	High	39488
Alistipes	genus	High	239759	Anaerococcus vaginalis	species	High	33037
Anaerostipes	genus	Low	207244	Anaerotruncus colihominis	species	Low	169435
Bacillus	genus	High	1386	Bacteroides eggerthii	species	High	28111
Bacteroides	genus	High	816	Bacteroides fragilis	species	High	817
Bifidobacterium	genus	Low	1678	Bacteroides ovatus	species	Low	28116
Blautia	genus	High	572511	Bacteroides sp	species	Low	2778071
Brevundimonas	genus	High	41275	Bifidobacterium animalis	species	Low	28025
Butyricicoccus	genus	Low	580596	Blastocystis hominis	species	High	12968
Campylobacter	genus	High	194	Blautia stercoris	species	High	871664
Citrobacter	genus	High	544	Campylobacter gracilis	species	High	824
Clostridium	genus	High	1485	Campylobacter jejuni	species	High	197
Collinsella	genus	Low	102106	Citrobacter freundii	species	High	546
Corynebacterium	genus	High	1716	Clostridioides difficile	species	High	1496
Cryptosporidium	genus	High	5806	Clostridium septicum	species	High	1504
Cupriavidus	genus	High	106589	Corynebacterium amycolatum	species	High	43765
Desulfobacter	genus	Low	2289	Dialister invisus	species	High	218538

Bacteria Name	Rank	Shift	Taxonomy ID
Dialister	genus	High	39948
Eggerthella	genus	High	84111
Enterobacter	genus	High	547
Enterococcus	genus	High	1350
Erysipelatoclostridium	genus	High	1505663
Escherichia	genus	High	561
Eubacterium	genus	High	1730
Faecalibacterium	genus	Low	216851
Fusobacterium	genus	High	848
Gemella	genus	High	1378
Haemophilus	genus	Low	724
Helicobacter	genus	High	209
Herbaspirillum	genus	High	963
Klebsiella	genus	High	570
Lachnospirillum	genus	High	1506553
Lactobacillus	genus	Low	1578
Lactococcus	genus	High	1357
Leptotrichia	genus	High	32067
Ligilactobacillus	genus	High	2767887
Listeria	genus	High	1637
Mediterraneibacter	genus	High	2316020
Megamonas	genus	High	158846
Megasphaera	genus	High	906
Morganella	genus	High	581
Muribaculum	genus	High	1918540
Neisseria	genus	High	482
Odoribacter	genus	High	283168
Parabacteroides	genus	High	375288
Parasutterella	genus	High	577310
Parvimonas	genus	High	543311
Peptostreptococcus	genus	High	1257
Phascolarctobacterium	genus	High	33024

Bacteria Name	Rank	Shift	Taxonomy ID
Dialister pneumosintes	species	High	39950
Enterococcus faecalis	species	High	1351
Escherichia albertii	species	High	208962
Escherichia coli	species	High	562
Eubacterium ventriosum	species	Low	39496
Finnegoldia magna	species	High	1260
Fusobacterium nucleatum	species	High	851
Fusobacterium periodonticum	species	High	860
Gemella morbillorum	species	High	29391
Helicobacter pylori	species	High	210
Hungatella hathewayi	species	High	154046
Lachnospiraceae bacterium	species	High	1898203
Lactobacillus gasseri	species	High	1596
Ledercia adecarboxylata	species	High	83655
Limosilactobacillus mucosae	species	High	97478
Methanobrevibacter smithii	species	High	2173
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
Prevotella intermedia	species	High	28131
Segatella copri	species	High	165179
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 parasanguinis	species	High	1318
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.

Abstention from eating {Fasting}

cellulose

Ethyl alcohol {Grain alcohol}

Ferrum {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}

ketogenic diet

Mycotoxins {Home Dampness}

N-(aminoiminomethyl)-N methyl glycine {Creatine}

Nitrogen Oxide x Particulate Matter {Urban air pollutant}

proton-pump inhibitors (prescription) 60 mg/day

Sleep apnea {partial sleep deprivation}

Tobacco consumption {Smoking}

Ulmus rubra {slippery elm}

Under cooked animal protein {Rare meat}

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}	green tea
3,3',4',5,7-pentahydroxyflavone {Quercetin}	imipenem
allium sativum {garlic}	Lactocaseibacillus casei {L. casei}
amikacin	Lactobacillus plantarum {L. plantarum}
amoxicillin [CFS]	Limosilactobacillus reuteri {L. Reuteri}
ampicillin [CFS]	Metha family {Mint}
bacillus	metronidazole [CFS]
bacillus subtilis {B.Subtilis }	Moringa Oleifera
bacillus,lactobacillus,streptococcus,saccharomyces probiotic	oligosaccharides {oligosaccharides}
Bovine Milk Products {Dairy}	origanum vulgare {oregano}
ceftazidime	piperacillin-tazobactam
Cinnamomum zeylanicum {Ceylon Cinnamon}	Probiotic Mixture 1 {Japanese Vet Probiotic}
ciprofloxacin [CFS]	Probiotic Mixture 2 {Vetafarm Probiotic}
clindamycin [CFS]	Propolis {Bee glue}
Clostridium butyricum MIYAIRI 588 {Miyarisan}	rosmarinus officinalis {rosemary}
dietary fiber	Saccharomyces cerevisiae var boulardii {S. boulardii}
Diferuloylmethane {Curcumin}	Slow digestible carbohydrates. {Low Glycemic}
enterococcus faecium {E. faecium}	Thymus vulgaris {thyme}
Fiber, total dietary	trimethoprim
fruit	whole-grain diet
fruit/legume fibre	yogurt
gentamicin	Zingiber officinale Roscoe {ginger}

Sample of Literature Used

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Curated database of commensal, symbiotic and pathogenic microbiota

Generative Bioinformatics , Volume: Issue: 2014 Jun

Authors D'Adamo Peter

[Research cited on Manufacture Website].

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

Authors Miyarisan Labs

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

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
liver fibrosis
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