

## Microbiome Information for: Colorectal Cancer

### 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 *a priori suggestions* that are predicted to independently reduce microbiome dysfunction. Suggestions should *only be done after a review* by a medical professional factoring in patient's conditions, allergies and other issues.

**This report may be freely shared by a patient to their medical professionals**

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

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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
Bacteroidia	class	High	200643	Peptostreptococcus	genus	High	1257
Clostridia	class	High	186801	Phascolarctobacterium	genus	High	33024
Fusobacteria	class	High	203490	Porphyromonas	genus	High	836
Enterobacteriaceae	family	High	543	Prevotella	genus	High	838
Lachnospiraceae	family	High	186803	Promicromonospora	genus	High	43676
Oscillospiraceae	family	High	216572	Pseudomonas	genus	High	286
Rikenellaceae	family	High	171550	Ralstonia	genus	High	48736
Aerococcus	genus	High	1375	Roseburia	genus	High	841
Agathobacter	genus	Low	1766253	Ruminococcus	genus	High	1263
Alistipes	genus	High	239759	Shigella	genus	High	620
Bacteroides	genus	High	816	Stenotrophomonas	genus	High	40323
Bifidobacterium	genus	Low	1678	Sutterella	genus	High	40544
Brevundimonas	genus	High	41275	Caulobacteriales	order	High	204458
Butyrivicoccus	genus	Low	580596	Alistipes putredinis	species	High	28117
Campylobacter	genus	High	194	Bacteroides fragilis	species	High	817
Collinsella	genus	Low	102106	Corynebacterium amycolatum	species	High	43765
Cupriavidus	genus	High	106589	Escherichia coli	species	High	562
Dialister	genus	High	39948	Eubacterium ventriosum	species	Low	39496
Enterobacter	genus	High	547	Fusobacterium nucleatum	species	High	851
Erysipelatoclostridium	genus	High	1505663	Helicobacter pylori	species	High	210
Escherichia	genus	High	561	Hungatella hathewayi	species	High	154046
Eubacterium	genus	High	1730	Lachnospiraceae bacterium	species	High	1898203
Faecalibacterium	genus	Low	216851	Lactobacillus gasseri	species	High	1596
Fusobacterium	genus	High	848	Limosilactobacillus mucosae	species	High	97478
Gemella	genus	High	1378	Peptoniphilus indolicus	species	High	33030
Herbaspirillum	genus	High	963	Peptostreptococcus stomatis	species	High	341694
Klebsiella	genus	High	570	Porphyromonas asaccharolytica	species	High	28123
Leptotrichia	genus	High	32067	Solobacterium moorei	species	High	102148
Megamonas	genus	High	158846	Sphingopyxis terrae	species	High	33052
Megasphaera	genus	High	906	Streptococcus anginosus	species	High	1328
Odoribacter	genus	High	283168	Streptococcus dysgalactiae	species	High	1334
Parabacteroides	genus	High	375288	Streptococcus gallolyticus	species	High	315405
Parvimonas	genus	High	543311	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.

alcoholic beverages

arabinogalactan (prebiotic) 21 gram/day

Astragalus

banana

berberine 1.5 gram/day

Bile Acid Sequestrant

blackcurrant

Bofutsushosan

carboxymethyl cellulose (prebiotic)

cellulose (prebiotic)

fasting

fat

Human milk oligosaccharides (prebiotic, Holigos, Stachyose) 2

gram/day

inulin (prebiotic) 32 gram/day

iron 400 mg/day

ku ding cha tea

lactobacillus gasseri (probiotics) 10 BCFU/day

lactulose

levan

Moringa Oleifera

navy bean

non-starch polysaccharides

pea (fiber, protein)

pectin

Psyllium (Plantago Ovata Husk) 6.8 gram/day

Pulses

Pumpkin

red alga Laurencia tristicha

red wine 250 ml/day

resistant maltodextrin 50 gram/day

resistant starch

Slippery Elm

symbioflor 2 e.coli probiotics

vitamin d 50000 IU/day

Xanthohumol

xylan (prebiotic)

## Retail Probiotics

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

Swiss BioEnergetics / Full Spectrum Probiotic Defence  
spain (es) / muvagyn probiotico  
blackmores (au) / probiotics + adults daily (90 capsules)  
nature's way (au) / restore probiotic daily health 90s  
optibac / for daily immunity  
optibac / for your cholesterol  
jarrow formulas / bifidus balance® + fos  
nature's way (au) / restore probiotic bowel & colon health 30s  
Wakunaga / Kyo-Dophilus® Multi 9 Probiotic  
naturopathica (au) / gastrohealth fibrepro  
philips / colon health  
blackmore (au) / probiotics+ eczema relief  
wakamoto (jp) / wakamoto pharmaceutical intestinal drug  
naturopathica (au) / gastrohealth probiotic dairy free 50 billion  
Wakunaga / Daily Probiotic  
Wakunaga / 50+  
naturopathica (au) / gastrohealth probiotic dairy free 20 bcfu  
Bromatech (IT) / Serobiome  
blackmores (au) / probiotics+ immune defence  
up4 / women's  
Ombre / Harmony  
CustomProbiotics.com / L. Gasseri Probiotic Powder  
Wakunaga / Max Probiotic  
blackmore (au) / probiotics+ bowel support  
NaturalPharma / Profit Probiotics  
SuperSmart / Lactobacillus Gasseri  
nature's way (au) / restore probiotic 30 billion 30s  
Wakunaga / Pro+ Synbiotic  
blackmore (au) / probiotics+ daily health  
symbiopharm / symbioflo 2

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.

bacillus subtilis (probiotics)

Bismuth Salts

cinnamon (oil, spice)

clostridium butyricum (probiotics), Miya, Miyarisan

Curcumin

foeniculum vulgare, fennel

garlic (allium sativum)

ginger

green tea

Hesperidin (polyphenol)

lactobacillus casei (probiotics)

lactobacillus reuteri (probiotics)

lactobacillus salivarius (probiotics)

luteolin (flavonoid)

mastic gum (prebiotic)

neem

nigella sativa seed (black cumin)

olea europaea, olive leaf

oregano (origanum vulgare, oil) |

pediococcus acidilactic (probiotic)

quercetin

rosmarinus officinalis, rosemary

saccharomyces boulardii (probiotics)

Shen Ling Bai Zhu San

soy

syzygium aromaticum (clove)

tannic acid

thyme (thymol, thyme oil)

triphala

whey

whole-grain barley

## Sample of Literature Used

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## 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