Kyoto Encyclopedia of Genes and Genomes derived Suggestions

Review Overview

These suggestions 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 almost 2 million facts with backward chaining to sources of information. The typical sources are studies published on the US National Library of Medicine. Note: That many of the bacteria species used are *NOT* reported on many tests.

These are suggestions that are predicted to independently Increasing Butanoic acid | Butanoate Butyrate Butyric acid C4H8O2 by impacting the bacteria listed on <u>KEGG: Kyoto Encyclopedia of Genes and Genomes</u>. 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

This is an experimental feature – manual validations is recommended. For background, see this post

There is a separate report for probiotics. That report use the enzymes in probiotic species.

Analysis Provided by Microbiome Prescription

A Microbiome Analysis Company

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Our Facebook Discussion Page

Bacteria being targeted by suggestions.

These bacteria levels were deemed atypical

Bacteria Name	Rank Shift	Taxonomy ID	Bacteria Name	Rank	Shift Taxonomy ID
Methylocystis parvus	species	134	Brevibacillus laterosporus	species	1465
Azospirillum lipoferum	species	193	Peribacillus simplex	species	1478
Bradyrhizobium japonicum	species	375	Rubrivivax gelatinosus	species	28068
Bradyrhizobium sp.	species	376	Porphyromonas asaccharolytica	species	28123
Citrobacter koseri	species	545	Vibrio nigripulchritudo	species	28173
Citrobacter freundii	species	546	Pectobacterium atrosepticum	species	29471
Escherichia fergusonii	species	564	Beijerinckia indica subsp. indica	subspecies	31994
Shigella sonnei	species	624	Phascolarctobacterium faecium	species	33025
Yersinia intermedia	species	631	Leptothrix cholodnii	species	34029
Edwardsiella tarda	species	636	Citrobacter amalonaticus	species	35703
Vibrio harveyi	species	669	Rhodovulum sulfidophilum	species	35806
Aggregatibacter	species	714	Caldibacillus thermoamylovorans	species	35841
actinomycetemcomitans	эрсско	7 1	Porphyromonas cangingivalis	species	36874
Pasteurella dagmatis	species	754	Methylobacterium mesophilicum	species	39956
Rodentibacter pneumotropicus	species	758	Streptococcus equi subsp.	subspecies	40041
Porphyromonas gingivalis	species	837	zooepidemicus	•	
Fusobacterium gonidiaformans	species	849	Rubrobacter radiotolerans	species	42256
Fusobacterium mortiferum	species	850	Halomonas venusta	species	44935
Fusobacterium varium	species	856	Streptococcus cristatus	species	45634
Fusobacterium periodonticum	species	860	Bibersteinia trehalosi	species	47735
Fusobacterium ulcerans	species	861	Serratia fonticola	species	47917
Megasphaera elsdenii	species	907	Brevibacillus agri	species	51101
Nitrobacter hamburgensis	species	912	Thalassovita gelatinovora	species	53501
Rhodospirillum rubrum	species	_000	Brevibacillus choshinensis	species	54911
Streptococcus pyogenes	species	1314	Brevibacillus formosus	species	<i>54913</i>
Streptococcus anginosus	species	1328	Pectobacterium wasabiae	species	55208
Streptococcus canis	species	1329	Brenneria nigrifluens	species	55 21 0
Streptococcus uberis	species	1349	Brenneria rubrifaciens	species	55213
Brevibacillus brevis	species	1393	Edwardsiella ictaluri	species	67780
Paenibacillus polymyxa	species	1406	Citrobacter farmeri	species	67824
Peribacillus psychrosaccharolyticus	species	1407	Citrobacter werkmanii	species	67827

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.

The recommended process to obtain a *persistent shift* of the microbiome is:

Generate 4 lists from the suggestions with nothing repeated on another list

Emphasize one list each week

After 8 weeks (2 cycles), retest the microbiome to obtains the next set of course corrections

This approach allows the microbiome to stablize towards normal.

Pick only as many suggestions that suits you; there is no need to do all of them. Suggestions are based on your specific bacteria and not marketing concepts such as 'healthy choices'.

Cacao 20 gram/day
chitosan,(sugar) 3 gram/day
cinnamon (oil. spice) 6 gram/day
Curcumin 3 gram/day
foeniculum vulgare,fennel
gallate (food additive)
garlic (allium sativum) 4 gram/day
green tea
lactobacillus casei (probiotics) 48 BCFU/day

lactobacillus gasseri (probiotics) 10 BCFU/day
lactobacillus paracasei (probiotics) 40 BCFU/day
lauric acid(fatty acid in coconut oil,in palm kernel oil,)
peppermint (spice, oil)
rosmarinus officinalis,rosemary
salvia officinalis (sage)
syzygʻum aromaticum (clove)
thyme (thymol, thyme oil)
trametes versicolor(Turkey tail mushroom)

Retail Probiotics

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

newrhythm / probiotics 20 stains

douglas laboratories / multi probiotic 40 billion

SuperSmart / Full Spectrum Probiotic Formula

quantum wellness / restora flora

Probiotic 10 Billion Active Cells Daily Maintenance

vita mirade / ultra-30 probiotics

organic 3/ primal gut

Garden of Life / Dr. Formulated Once Daily Women's

hyperbiotics / pro-15

nature's way (au) / restore probiotic 100 billion

bioglan bio (au) / happy probiotic 50

nature's bounty / probioti 10

renew life men's probiotic - ultimate

7 AM Ultra Probiotics

jarrow formulas / jarro-dophilus® ultra

1 md / complete probiotics platinum

Wakunaga / Max Probiotic

MegaFood / MegaFlora

garden of life / primal defense

fürstenmed / lacto-bifido

renew life / ultimate flora

up4/ultra

Bioflora (Mx) / BIOFLORA / 30 BILLION 10 strains

bioglan bio (au) / happy probiotic 100

Lake Avenue Nutrition / Probiotics 10 Strain Blend

Winclove Probiotics / Ecologic®825

ASEA VIA / BIOME

Wholesome Wellness / Raw Probiotic

HLH BIOPHARMA(DE) / LACTOBACT ® PREMIUM

Jetson (US) / Immunity Probiotics

spain (es) / vivomixx

Advanced Bio-Cultures / Advance Multi Strain Probiotics

elixa / probiotic

bioray / cytoflora

Bromatech (IT) / Aflugenex

naturopathica (au) /gastrohealth probiotic ultimate daily care 100billion

udo's choice /super 8 gold

Smidge / Sensitive Probiotic

Krauterhaus / Lactopro

LiveWell Nutrition / Pro-45

bio-k+

HLH BIOPHARMA(DE) / LACTOBACT ® METABOLIC

jarrow formula / jarro-dophilus original

CustomProbiotics.com / L. Casei Probiotic Powder

solgar / advanced multi-billion dophilus

optibac / for daily immunity

Realdose

SuperSmart / Lactoxira

spain (es) / muvagyn probiotico

probiotic pur (de) / realdose nutrition

CustomProbiotics.com / L. Paracasei Probiotic Powder

visbiome

jamieson (can) / probiotic 10 bcfu

Thrvve L.PCasei Th1, L.PCasei Th2, L.Ferm IBF1, L.acidoph

Bioflora (MX) / BIOFLORAMX / 50 BILLION 10 Strains

Wakunaga / Kyo-Dophilus® Multi 9 Probiotic

klaire labs / target gb-x

jarrow formulas / jarro-dophilus eps

philips / colon health

Sash Vitality / Bio-Cultures Probiotics for Adults

SuperSmart / Vaginal Health

Invivo / Bio.Me Femme UT

PharmExtracta (IT) / INatal Sachets

NaturalPharma / Profit Probiotics

Bio Schwartz / Advance Strength Probiotics (40 BCFU)

SuperSmart / Lactobacillus Gasseri

OMNi-BIOTIC®/ TRAVEL

Wakunaga / Pro+ Synbiotic

UltraFlora® Immune Booster

danactive drink

OMNi-BiOTiC®/ 10 AAD

up4/women's

Wakunaga / 50+

Bromatech (IT) / Citogenex

Ombre / Healthy Gut

just for tummies / live bacteria

Immune Defense Daily Chewable Probiotic

ferring/vsl#3

UltraFlora® Restore

bravo europe / starter and complex

solgar / advanced 40+ acidophilus

HLH BIOPHARMA(DE) / LACTOBACT ® 60PLUS

Northwest Natural Products / PB8

wakamoto (jp) / wakamoto pharmaceutical intestinal drug

Wakunaga / Daily Probiotic

SuperSmart / Probio Forte

organic 3/gutpro

naturopathica (au) / gastrohealth antacid

bravo europe / freeze-dried bravo

Schiff® Digestive Advantage® Advanced Probiotics Multi-Strain Support

seed / female version

CustomProbiotics.com / L. Gasseri Probiotic Powder

SuperSmart / Derma Relief

fairvital / microflora basic

HLH BIOPHARMA(DE) / LACTOBACT ® OMNI FOS

Physis / Advance Probiotics

Eden's / 3-in-1 Synbiotic Superblend

Dr. Mercola / Complete Probiotics

solaray / mycrobiome probiotic colon formula

vinco / probiotic eight 65

NOW FOODS / Clinical GI Probiotic

ecology_allergycare

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.

arabinogalactan (prebiotic) non-starch polysaccharides

barley pectin
berberine Pulses
bile (acid/salts) red wine
Bile Acid Sequestrant saccharin
Bofutsushosan Slippery Elm
high red meat sugar
inulin (prebiotic) vegetarians

iron vitamin a Vitamin B9,folic acid

linseed(flaxseed) vitamin d lupin seeds (anaphylaxis risk, toxic if not prepared properly) vylan (prebiotic)

Sample of Literature Used

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