

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 Decreasing Hydrogen sulfide | Hydrogen-sulfide H2S Sulfide H2S by impacting the bacteria listed on [KEGG: Kyoto Encyclopedia of Genes and Genomes](#). 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

892 Lake Samish Rd, Bellingham WA 98229
Email: Research@MicrobiomePrescription.com

[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
Thermosulfuriphilus ammonigenes	species		1936021	Leptotrichia buccalis	species		40542
Thermosulfurimonas marina	species		2047767	Ammonifex degensii	species		42838
Thermodesulfobacterium commune	species		1741	Sulfurospirillum bamesii	species		44674
Desulfonema magnum	species		45655	Thermosipho melanesiensis	species		46541
Desulfonema limicola	species		45656	Desulfitobacterium hafniense	species		49338
Desulfofundulus kuznetsovii	species		58135	Desulfurobacterium thermolithotrophum	species		64160
Thermodesulfobium narugense	species		184064	Desulfocapsa sulfexigens	species		65555
Solidesulfovibrio magneticus	species		184917	Hippea maritima	species		84405
Thermovibrio ammonificans	species		228745	Campylobacter hyointestinalis subsp. hyointestinalis	subspecies		91352
Solidesulfovibrio carbinolicus	species		296842	Fervidobacterium pennivorans	species		93466
Thermodesulfobacterium geofontis	species		1295609	Geovibrio thiophilus	species		139438
Caldimicrobium thiodismutans	species		1653476	Leptotrichia wadei	species		157687
Thermodesulfobium acidiphilum	species		1794699	Leptotrichia hofstadii	species		157688
Desulfobulbus oligotrophicus	species		1909699	Leptotrichia shahii	species		157691
Thermodesulfobacterium sp. TA1	species		2234087	Thermodesulfatator indicus	species		171695
Campylobacter curvus	species		200	Pseudodesulfovibrio aespoeensis	species		182210
Campylobacter mucosalis	species		202	Malaciobacter halophilus	species		197482
Wolinella succinogenes	species		844	Sulfurospirillum sp. JPD-1	species		220622
Fusobacterium periodonticum	species		860	Prosthecochloris sp. GSB1	species		281093
Megalodesulfovibrio gigas	species		879	Caminibacter mediatlanticus	species		291048
Desulfobulbus propionicus	species		894	Alkalilimnicola ehrlichii	species		351052
Desulfococcus multivorans	species		897	Thermosulfidibacter takaii	species		412593
Halorhodospira halophila	species		1053	Calditerrivibrio nitroreducens	species		477976
Prosthecochloris aestuarii	species		1102	Malaciobacter marinus	species		505249
Flexistipes sinuarabici	species		2352	Malaciobacter mytili	species		603050
Desulfomonile tiedjei	species		2358	Leptotrichia sp. oral taxon 498	species		712368
Thermosipho africanus	species		2421	Sulfuritalea hydrogenivorans	species		748811
Fervidobacterium islandicum	species		2423	Desulfosporosinus acidiphilus	species		885581
Fervidobacterium nodosum	species		2424	Desulfosarcina ovata subsp. sediminis	subspecies		885957
Desulfurella acetivorans	species		33002	Desulfurispirillum indicum	species		936456

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'.

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

a]quinolizinium {Berberine} 1.5 gram/day

(2->1)-beta-D-fructofuranan {Inulin} 32 gram/day

Avena sativa x Hordeum vulgare {barley,oat}

Cinnamomum zeylanicum {Ceylon Cinnamon} 6 gram/day

Curcuma longa {Turmeric} 3000 mg/day

Diferuloylmethane {Curcumin} 3 gram/day

foeniculum vulgare,fennel

fruit

fruit/legume fibre

Grape Polyphenols {Grape Flavonoids}

grapes

Hordeum vulgare {Barley} 60 gram/day

Lactobacillus plantarum {L. plantarum} 60 BCFU/day

origanum vulgare {oregano}

resveratrol-pterostilbene {grapes, blueberries} 2 gram/day

syzygium aromaticum {clove}

Thymus vulgaris {thyme}

walnuts 75 gram/day

Retail Probiotics

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

nature's way (au) / restore probiotic bowel & colon health 30s
 Physician Choice / 60 Billion Probiotics
 naturopathica (au) / gastrohealth probiotic dairy free 20 bcfu
 jarow formula / ideal bowel support® Ip299v®
 naturopathica (au) / gastrohealth probiotic dairy free 50 billion
 SuperSmart / Probio Forte
 organic 3 / gutpro
 HLH BIOPHARMA(DE) / LACTOBACT® 60PLUS
 Next Generation
 Northwest Natural Products / PB8
 HMF Metabolic
 blackmores (au) / probiotics+ immune defence
 CustomProbiotics.com / L. Plantarum Probiotic Powder
 Ombre / Healthy Gut
 UltraFlora® Immune Booster
 OMNI-BIOTIC®/ 10 AAD
 up4 / women's
 Bromatech (IT) / Adomelle
 nature's bounty / probioti 10
 SuperSmart / Derma Relief
 fairvital / microflora basic
 Wakunaga / Max Probiotic
 Invivo / Bio.Me Femme UT
 NaturalPharma / Profit Probiotics
 Bio Schwartz / Advance Strength Probiotics (40 BCFU)
 UltraFlora® Intensive Care
 OMNI-BIOTIC®/ TRAVEL
 nature's way (au) / restore probiotic 30 billion 30s
 organic 3 / primal gut
 Floradapt Cardio
 Physis / Advance Probiotics
 blackmore (au) / probiotics+ daily health
 Garden of Life / Dr. Formulated Once Daily Women's
 vinco / probiotic eight 65
 Purica Probiotic Cardio
 solaray / mycrobioime probiotic colon formula
 Maple Life Science™ / Lactobacillus plantarum
 lifted naturals / mood boosting probiotic
 bioglan bio (au) / happy probiotic 50
 HLH BIOPHARMA(DE) / LACTOBACT® LDL-CONTROL
 goodbelly drink
 Ombre / Heart Health
 Symprove™
 seed / female version
 jarow formulas / jarro-dophilus® ultra
 custom probiotics / six strain probiotic powder
 ImmuneBiotech Medical Sweden AB / GutMagnific®
 garden of life / primal defense
 Bulk Probiotics / L. Plantarum Probiotic Powder
 spain (es) / I3.1
 renew life men's probiotic - ultimate
 Resbiotic / resB® Lung Support
 SuperSmart / Full Spectrum Probiotic Formula
 jarow formulas / jarro-dophilus eps

naturopathica (au) / gastrohealth fibrepro
blackmore (au) / probiotics+ eczema relief
7 AM Ultra Probiotics
quantum wellness / restora flora
Seeking Health / Probiota HistaminX
Thryve Inside/ L.Reu,Rham,Casi; B.Lactis
Immune Defense Daily Chewable Probiotic
fürstenmed / lacto-bifido
blackmores (au) / probiotics + adults daily (90 capsules)
Windlove Probiotics / Ecologic®825
jarrow formula / jarro-dophilus original
nature's way (au) / restore probiotic daily health 90s
Bromatech(IT) / FEMELLE
SuperSmart / Candalb
custom probiotics / four strain lactobacilli
naturopathica (au) / gastrohealth probiotic ultimate daily care 100billion
udo's choice /super 8 gold
zint nutrition / probiotic collagen +
Smidge /Sensitive Probiotic
Krauterhaus / Lactopro
Metabolics / Lactobacillus Plantarum Powder
Nature's Lab Cardio
elixa / probiotic
Ombre / Ultimate Immunity
bioray / cytoflora
Purica Probiotic Intensive GI
renew life / ultimate flora
up4 / ultra
optibac / for your cholesterol
jarrow formulas / bifidus balance® + fos
Bioflora (Mx) / BIOFLORA / 30 BILLION 10 strains
ProbioMax® Daily DF
SuperSmart / Lactobacillus Plantarum Postbiotic (Pasturized)
Floradapt Gut Comfort
bioglan bio (au) / happy probiotic 100
Nature's Lab Intensive GI
SuperSmart / Lactoxira
Ombre / Mood Enhancer
up4 / adult

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.

(N-acetyl-p-aminophenol {TYLENOL})

2-Amino-5-(carbamoylamino)pentanoic acid {Citrulline}

5,7-Dihydroxy-2-(4-hydroxyphenyl)-4H-1-benzopyran-4-one

{Apigenin }

Animal cohabitation {Owning a Pet}

bifidobacterium lactis,streptococcus thermophilus probiotic

Cola aspartame {Diet Cola}

glycyrrhizic acid {licorice}

Heyndrickxia coagulans {B. coagulans}

Laurencia tristicha {Marine red algae}

N-[2-(5-methoxy-1H-indol-3-yl)ethyl]acetamide {Melatonin}

N-L-a-aspartyl-L-phenylalanine methyl ester {aspartame}

Phyllanthus emblica {Chinese gall}

Prunus mume {Umeboshi}

Sodium Chloride {Salt}

β -(1 $\rightarrow$ 4)-linked D-glucosamine and N-acetyl-D-glucosamine

{Chitosan}

Sucralose {Splenda}

tea

Sample of Literature Used

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

Comparative analysis of dietary fiber impact on bile acid metabolism and gut microbiota composition in mice.

Npj gut and liver , Volume: 2 Issue: 1 2025

Authors Zöchling A,Séneca J,Pjevac P,Auñón-Lopez A,Zebeli Q,Pignitter M,Duszka K

The addition of encapsulated *Bacillus subtilis*, *Enterococcus faecium*, and *Lactobacillus plantarum* postbiotics, either alone or with inulin, improves slaughter weight, gut function, and microbiota in broilers.

BMC veterinary research , Volume: 21 Issue: 1 2025 Oct 14

Authors Atan Çirpici H,Kirkpinar F

Fortification of non-dairy milk with date fruit, mustard seed, and turmeric: nutritional quality, probiotics viability, antimicrobial and antioxidant potentials.

Scientific reports , Volume: 15 Issue: 1 2025 Oct 1

Authors Oğdi CO,Oladeji OA,Karigidi KO,Oluwasina OO,Adetuyi FO

Lactobacillus plantarum and *Lactobacillus brevis* alleviate enterotoxigenic *Escherichia coli*-induced intestinal inflammation and stabilize intestinal microorganisms and serum metabolites in piglets.

Animal nutrition (Zhongguo xu mu shou yi xue hui) , Volume: 22 2025 Sep

Authors Han X,Gao R,Ding S,Yao H,Fang J,Liu G

Mango by-Product-Based High-Fiber Confectionery Attenuates Liver Steatosis and Alters Gut Microbiota in High-Fat Diet-Fed Rats.

Molecular nutrition & food research , 2025 Aug 30

Authors Barbosa Y,Gaytán-Martínez M,de Los Ríos-Arellano EA,Chavez-Santoscoy RA,Hinojosa-Alvarez S,Antunes-Ricardo M,Luzardo-Ocampo I,Ramírez-Jiménez AK

Probiotic *Lactiplantibacillus plantarum* Probio87 Improves Gut Microbial Profiles in HPV-Positive Women: A Randomized, Placebo-Controlled and Double-Blind Study.

Molecular nutrition & food research , 2025 Aug 30

Authors Xu P,Mageswary MU,Nisaa AA,Samsudin SB,Rusdi NIBM,Jerip ARA,Oon CE,Sany SB,Tan CS,Zhu ZH,Liong MT

Salivary pH Modulation and Antimicrobial Properties of Oregano-Oil Jelly in Relation to Menstrual and Menopausal Status.

Nutrients , Volume: 17 Issue: 15 2025 Jul 29

Authors Potra Cicalau GI,Ciavoi G,Scrobota I,Venter ID,Ganea MF,Ghitea MC,Ghitea EC,Gitea MF,Ghitea TC,Nagy C,Pelea DC,Dobjanschi L,Gliger O,Moisa C,Ganea M

Lactiplantibacillus plantarum promotes lactoferrin synthesis and secretion in bovine mammary epithelial cells through STAT3 and AP-1 transcription factor pathways.

In vitro cellular & developmental biology. Animal , 2025 Aug 13

Authors Zhou J,Lian S,Geng Z,Yang Y,Wu R,Wang J

Lonicerae flos and turmeric extracts alleviate necrotic enteritis in broilers by modulating gut-liver health and microbiota.

Journal of animal science and biotechnology , Volume: 16 Issue: 1 2025 Aug 8

Authors Liu X, Ji Y,Lv H,Wang Z,Lv Z,Guo Y,Nie W

The mechanism of curcumin inhibits *Bacillus cereus* protease production by modulating the LuxS/AI-2 system.

International journal of food microbiology , Volume: 442 2025 Aug 5

Authors Wang L,Li S,Liu J,Qi X,Cheng J,Guo L,Yang X,Jiang Y

Antimicrobial activity of *Origanum vulgare* L. essential oil and its effects on fungal gene expression.

PloS one , Volume: 20 Issue: 8 2025

Authors Li Y,He L,Xue Z,Liang Y,Jiang J,Wei Y,Li H,He H,Li R

Synergistic bactericidal and antibiofilm effects of curcumin and nisin dual-loaded liposomes combined with photodynamic treatment on *Listeria monocytogenes*.

Food chemistry , Volume: 492 Issue: Pt 3 2025 Jul 19

Authors Zhang J,Qin J,Fu Z,Tang W,Pu C,Sun Q

The potential of cell-free supernatants from *Lactocaseibacillus paracasei* B1 and *Lactiplantibacillus plantarum* O24 as antioxidant and antimicrobial agents.

Food chemistry , Volume: 492 Issue: Pt 2 2025 Jul 3

Authors Keska P,Zielinska D,Karbowiak M,Kruk M,Lisiecka U,Stadnik J

The antimicrobial efficacy of rutin encapsulated chitosan versus multidrug-resistant *Pseudomonas aeruginosa*.

Scientific reports , Volume: 15 Issue: 1 2025 Jul 1

Authors Ramezani H,Sazegar H,Rouhi L

Impact of the Probiotic on the Modulation of Vaginal Bacterial and Fungal Microbiota in HPV-Positive Women.

Molecular nutrition & food research , 2025 Jun 11

Authors Xu P,Uma Mageswary M,Nisaa AA,Balasubramaniam SD,Samsudin SB,Rusdi NIBM,Jerip ARA,Oon CE,Bakar MHA,Tan JJ,Roslan FF,Kadir MN,Ismail EHBE,Sany SB,Tan CS,Liong MT

Synergistic Biocidal Effects of Curcumin, Chitosan, and Nickel Titanate-Based Nanohybrids for Enhanced Antibacterial and Anticancer Therapies.

ACS applied bio materials , 2025 May 14

Authors Jeyasingh E,Panneerselvam HM,Chandrasekaran K,Moorthy S

Synergistic mechanism of Phyllanthus emblica extract and tetracycline against multidrug-resistant Acinetobacter baumannii.

Narra J , Volume: 5 Issue: 1 2025 Apr

Authors Nasution HM,Yulyana A,Utama RF,Bangar RI,Kaban VE,Daulay W,Astyka R,Lubis MF

A single-cell transcriptomic atlas of all cell types in the brain of 5xFAD Alzheimer mice in response to dietary inulin supplementation.

BMC biology , Volume: 23 Issue: 1 2025 May 9

Authors Wang X,Zhang H,Wan Z,Li X,Ibáñez CF,Xie M

Therapeutic potential of Glycyrrhiza glabra L. extract and atorvastatin in HFD-induced MAFLD: in vitro and in vivo exploration.

3 Biotech , Volume: 15 Issue: 6 2025 Jun

Authors Rastogi S,Bachhar V,Joshi V,Kumar S,Panjwani D,Singh L,Haldhar R

Thyme oil loaded chitosan microparticles: an antibacterial approach against pathogenic bacteria.

3 Biotech , Volume: 15 Issue: 5 2025 May

Authors Thakur A,Sharma K

Electrostatically assembled maghemite nanoparticles-Lactobacillus plantarum: A novel hybrid for enhanced antioxidant, antimicrobial, and antibiofilm efficacy.

Bioresource technology , 2025 Apr 12

Authors Shingade JA,Padalkar NS,Shin JH,Kim YH,Park TJ,Park JP,Patil AR

Curcumin Ameliorated Glucocorticoid-Induced Osteoporosis While Modulating the Gut Microbiota and Serum Metabolome.

Journal of agricultural and food chemistry , 2025 Mar 26

Authors Li S,Zhang Y,Ding S,Chang J,Liu G,Hu S

Carbon dioxide enhances Akkermansia muciniphila fitness and anti-obesity efficacy in high-fat diet mice.

The ISME journal , 2025 Feb 23

Authors Wang X,Yang Q,Shi C,Wang Y,Guo D,Wan X,Dong P,Zhang Q,Hu Y,Zhang R,Yang H,Chen W,Liu Z

The efficacy and underlying mechanisms of berberine in the treatment of recurrent Clostridioides difficile infection.

International journal of antimicrobial agents , Volume: 65 Issue: 5 2025 Feb 20

Authors Wang L,Xu T,Wu S,Zhao C,Huang H

Citrulline Inhibits Clostridioides difficile Infection With Anti-inflammatory Effects.

Cellular and molecular gastroenterology and hepatology , 2025 Feb 7

Authors Xie Y,Irwin S,Nelson B,van Daelen M,Fontenot L,Jacobs JP,Cappelletti M,Feng H,Li Y,Koon HW

Resveratrol and β -hydroxy- β -methylbutyric acid supplementation promotes ileal development and digestive function by altering microbial community abundance and metabolites in Tibetan sheep.

Frontiers in veterinary science , Volume: 11 2024

Authors Gan J, Ji Q,Su Q,Hou S,Gui L

Effects of Lactiplantibacillus plantarum LM1215 on Candida albicans and Gardnerella vaginalis.

Yonsei medical journal , Volume: 65 Issue: 12 2024 Dec

Authors Bae WY, Lee YJ, Jo S, Shin SL, Kim TR, Sohn M, Seol HJ

Antimicrobial Activity of Origanum vulgare Essential Oil against Staphylococcus aureus and Escherichia coli.

Pharmaceuticals (Basel, Switzerland) , Volume: 17 Issue: 11 2024 Oct 25

Authors Tejada-Muñoz S,Cortez D,Rascón J,Chavez SG,Caetano AC,Díaz-Manchay RJ,Sandoval-Bances J,Huyhua-Gutierrez S,Gonzales L,Chenet SM,Tapia-Limonchi R

Probiotic-Loaded Bacterial Cellulose as an Alternative to Combat Carbapenem-Resistant Bacterial Infections.

Antibiotics (Basel, Switzerland) , Volume: 13 Issue: 11 2024 Oct 25

Authors Gutiérrez-Fernández J,Cerezo-Collado L,Garcés V,Alarcón-Guijo P,Delgado-López JM,Dominguez-Vera JM

Thermosensitive Injectable Dual Drug-Loaded Chitosan-Based Hydrogels for Treating Bacterial Endometritis.

ACS biomaterials science & engineering , 2024 Nov 15

Authors Wang X,Wei Z,Wu Z,Li Y,Miao C,Cao Z

Investigating antibacterial and anti-inflammatory properties of synthetic curcuminoids.

Frontiers in medicine , Volume: 11 2024

Authors Veselá K,Kejřík Z,Abramenko N,Kaplánek R,Jakubek M,Petrlova J

Dipeptides from Lactiplantibacillus plantarum limit Pseudomonas aeruginosa pathogenesis.

Journal of applied microbiology , Volume: 135 Issue: 11 2024 Nov 4

Authors Narasimulu J,Baburajan N,Saravanan TS,Raorane CJ,Vaidyanathan VK,Ravichandran V,Rajasekharan SK
Bone Healing via Carvacrol and Curcumin Nanoparticle on 3D Printed Scaffolds.

Small (Weinheim an der Bergstrasse, Germany) , 2024 Oct 27

Authors Dahiya A,Chaudhari VS,Bose S

Oregano essential oil and Bacillus subtilis role in enhancing broiler's growth, stress indicators, intestinal integrity, and gene expression under high stocking density.

Scientific reports , Volume: 14 Issue: 1 2024 Oct 25

Authors Elbaz AM,El-Sonousy NK,Arafa AS,Sallam MG,Ateya A,Abdelhady AY

Characterization of thyme essential oil microcapsules and potato starch/pectin composite films and their impact on the quality of chilled mutton.

Food chemistry , Volume: 464 Issue: Pt 2 2025 Feb 1

Authors Wang J,Li L,Li Y,Song Q,Hu Y,Wang Q,Lu S

Biocompatible Poly(e-Caprolactone) Nanocapsules Enhance the Bioavailability, Antibacterial, and Immunomodulatory Activities of Curcumin.

International journal of molecular sciences , Volume: 25 Issue: 19 2024 Oct 4

Authors D'Angeli F,Granata G,Romano IR,Distefano A,Lo Furno D,Spila A,Leo M,Miele C,Ramadan D,Ferroni P,Li Volti G,Accardo P,Geraci C,Guadagni F,Genovese C

Exploring the antimicrobial efficacy of tea tree essential oil and chitosan against oral pathogens to overcome antimicrobial resistance.

Microbial pathogenesis , Volume: 196 2024 Nov

Authors Oliveira MS,Paula MSA,Cardoso MM,Silva NP,Tavares LCD,Gomes TV,Porto DL,Aragão CFS,Fabri RL,Tavares GD,Apolônio ACM

Lactiplantibacillus plantarum P101 Alleviated Alcohol-Induced Hepatic Lipid Accumulation in Mice via AMPK Signaling Pathway: Gut Microbiota and Metabolomics Analysis.

Probiotics and antimicrobial proteins , 2024 Oct 10

Authors Feng X,Wang M,Wen S,Hu L,Lan Y,Xu H

Candidate-Probiotic Lactobacilli and Their Postbiotics as Health-Benefit Promoters.

Microorganisms , Volume: 12 Issue: 9 2024 Sep 19

Authors Dobрева L,Atanasova N,Donchev P,Krumova E,Abrashev R,Karakirova Y,Mladenova R,Tolchkov V,Ralchev N,Dishliyska V,Danova S

Mechanism of synergistic action of colistin with resveratrol and baicalin against mcr-1-positive Escherichia coli.

Biomedicine & pharmacotherapy = Biomedecine & pharmacotherapie , Volume: 180 2024 Nov

Authors Cheng P,Sun Y,Wang B,Liang S,Yang Y,Gui S,Zhang K,Qu S,Li L

Isolation and Identification of Human Gut Bacteria Capable of Converting Curcumin to Its Hydrogenated Metabolites.

Journal of agricultural and food chemistry , Volume: 72 Issue: 37 2024 Sep 18

Authors Luo M,Wong S,Thanuphol P,Du H,Han Y,Lin M,Guo X,Bechtel TD,Gibbons JG,Xiao H

Cytotoxicity assessment and antimicrobial effects of cell-free supernatants from probiotic lactic acid bacteria and yeast against multi-drug resistant Escherichia coli.

Letters in applied microbiology , Volume: 77 Issue: 9 2024 Sep 2

Authors Ozma MA,Ghotaslou R,Asgharzadeh M,Abbasi A,Rezaee MA,Kafil HS

Hepatic Steatosis Can Be Partly Generated by the Gut Microbiota-Mitochondria Axis via 2-Oleoyl Glycerol and Reversed by a Combination of Soy Protein, Chia Oil, Curcumin and Nopal.

Nutrients , Volume: 16 Issue: 16 2024 Aug 6

Authors Sánchez-Tapia M,Tobón-Cornejo S,Noriega LG,Vázquez-Manjarrez N,Coutiño-Hernández D,Granados-Portillo O,Román-Calleja BM,Ruiz-Margáin A,Macías-Rodríguez RU,Tovar AR,Torres N

Examination of sex-specific interactions between gut microbiota and host metabolism after 12-week combined polyphenol supplementation in individuals with overweight or obesity.

Gut microbes , Volume: 16 Issue: 1 2024 Jan-Dec

Authors Jardon KM,Goossens GH,Most J,Galazzo G,Venema K,Penders J,Blaak EE

Comparative Evaluation of Antibacterial Efficacy and Remineralization Potential of Acidulated Phosphate Fluoride Gel with Herbal Dental Gel Containing Zingiber officinale, Salvadora persica, and Cinnamomum zeylanicum: An In Vitro Study.

International journal of clinical pediatric dentistry , Volume: 17 Issue: 3 2024 Mar

Authors Kohli N,Huqar SM,Hallikerimath S,Gokhale N,Kadam K,Soneta SP

A Comparative Evaluation of Herbal Extracts and Triple Antibiotic Paste as Intracanal Medicament against Enterococcus faecalis: A Microbiological Study.

International journal of clinical pediatric dentistry , Volume: 17 Issue: 3 2024 Mar

Authors Golla S,Gambhir N,Gupta N,Singh R,Singh D

Lactobacillus plantarum LPYC225 mixture partially modulates the vaginal bacterial community of Gardnerella vaginalis-

infected bacterial vaginosis in mice.

Food science and biotechnology , Volume: 33 Issue: 9 2024 Jul

Authors Kim HJ,Kim DG,Kang SH,Choi H,Go SW,Kim DK,Myung JH,Park JH,Soh JR,Kim SK,Hong SW,Kang M,Park ES,Park I,Kang J,Kwon HJ,Jin JS

Characterization and antioxidant activity of nano-formulated berberine and cyperus rotundus extracts with anti-inflammatory effects in mastitis-induced rats.

Scientific reports , Volume: 14 Issue: 1 2024 Aug 9

Authors Hashem AE,Elmasry IH,Lebda MA,El-Karim DRSG,Hagar M,Ebied SKM,Alotaibi BS,Rizk NI,Ghamry HI,Shukry M,Edres HA

Preventive effects of probiotics on dental caries in vitro and in vivo.

BMC oral health , Volume: 24 Issue: 1 2024 Aug 8

Authors Zhang J,Wang Q,Duan Z

Postbiotic mediators derived from Lactobacillus species enhance riboflavin-mediated antimicrobial photodynamic therapy for eradication of Streptococcus mutans planktonic and biofilm growth.

BMC oral health , Volume: 24 Issue: 1 2024 Jul 24

Authors Pourhajibagher M,Ghafari HA,Bahador A

Berberine hydrochloride alleviates chronic prostatitis/chronic pelvic pain syndrome by modifying gut microbiome signaling.

Asian journal of andrology , 2024 Jul 16

Authors Tian YQ,Ren X,Wang J,Li X,Yin YS,Guo ZH,Qin ZL,Zeng XY

Sucralose Influences the Productive Performance, Carcass Traits, Blood Components, and Gut Microflora Using 16S rRNA Sequencing of Growing APRI-Line Rabbits.

Animals : an open access journal from MDPI , Volume: 14 Issue: 13 2024 Jun 29

Authors El-Tahan HM,Elmasry ME,Madian HA,Alhimaidi AR,Kim IH,Park JH,El-Tahan HM

Investigating the physicochemical, antimicrobial and antioxidant properties of chitosan film containing zero-valent iron nanoparticles and oregano essence.

Biopolymers , Volume: 115 Issue: 6 2024 Nov

Authors Khodaparast FK,Pirsa S,Toupchi FM,Moharami F

Melatonin-loaded mesoporous zinc- and gallium-doped hydroxyapatite nanoparticles to control infection and bone repair.

Biomaterials science , Volume: 12 Issue: 16 2024 Aug 6

Authors Shokri M,Kharaziha M,Ahmadi Tafti H,Dalili F,Mehdinaavaz Aghdam R,Ghiassi SR,Baghavan Eslaminejad M

Curcumin-based residue-free and reusable photodynamic inactivation system for liquid foods and its application in freshly squeezed orange juice.

Food chemistry , Volume: 458 2024 Nov 15

Authors Liu Y,Li Y,Shao C,Wang P,Wang X,Li R

Prebiotic Potential of Goji Berry (Lycium barbarum) in Improving Intestinal Integrity and Inflammatory Profiles via Modification of the Gut Microbiota in High-Fat Diet-Fed Rats.

Journal of medicinal food , Volume: 27 Issue: 8 2024 Aug

Authors Jeong E,Eun S,Chae S,Lee S

Quercetin Alleviates Insulin Resistance and Repairs Intestinal Barrier in db/db Mice by Modulating Gut Microbiota.

Nutrients , Volume: 16 Issue: 12 2024 Jun 14

Authors Yuan M,Sun T,Zhang Y,Guo C,Wang F,Yao Z,Yu L

3D printed scaffolds with quercetin and vitamin D3 nanocarriers: In vitro cellular evaluation.

Journal of biomedical materials research. Part A , 2024 Jun 18

Authors Bose S,Chaudhari VS,Kushram P

Multifunctional chitosan-cross linked- curcumin-tannic acid biocomposites disrupt quorum sensing and biofilm formation in pathogenic bacteria.

International journal of biological macromolecules , Volume: 271 Issue: Pt 1 2024 Jun

Authors Khan ZA,Wani MY,Ahmad A,Basha MT,Aly NA,Yakout AA

Synergistic antimicrobial action of chitosan-neem extracts nanoformulation as a promising strategy for overcoming multi-drug resistant bacteria.

International journal of biological macromolecules , Volume: 272 Issue: Pt 1 2024 Jun

Authors Almowallad SJ,Alqahtani LS

Turmeric and curcumin as adjuncts in controlling Helicobacter pylori-associated diseases: a narrative review.

Letters in applied microbiology , Volume: 77 Issue: 6 2024 Jun 3

Authors Boyanova L,Medeiros J,Yordanov D,Gergova R,Markovska R

Optimizing Akkermansia muciniphila Isolation and Cultivation: Insights into Gut Microbiota Composition and Potential Growth Promoters in a Chinese Cohort.

Microorganisms , Volume: 12 Issue: 5 2024 Apr 28

Authors Meng X,Xv C,Lv J,Zhang S,Ma C,Pang X

Chemical Composition of Turmeric (Curcuma longa L.) Ethanol Extract and Its Antimicrobial Activities and Free Radical Scavenging Capacities.

Foods (Basel, Switzerland) , Volume: 13 Issue: 10 2024 May 16

Authors Wu H,Liu Z,Zhang Y,Gao B,Li Y,He X,Sun J,Choe U,Chen P,Blaustein RA,Yu L

Nanoemulsion of cinnamon oil to combat colistin-resistant Klebsiella pneumoniae and cancer cells.

Microbial pathogenesis , Volume: 192 2024 Jul

Authors El-Sherbiny GM,Kalaba MH,Foda AM,M E S,Youssef ASE,A Elsehemy I,Farghal EE,El-Fakharany EM

Anti-proliferative, antimicrobial, DFT calculations, and molecular docking 3D scaffold based on sodium alginate, chitosan, neomycin sulfate and hydroxyapatite.

International journal of biological macromolecules , Volume: 270 Issue: Pt 1 2024 Jun

Authors Dacrory S

Antimicrobial activity of Cinnamomum zeylanicum essential oil against colistin-resistant gram-negative bacteria.

International journal of environmental health research , 2024 May 2

Authors Ben Selma W,Ferjeni S,Farouk A,Marzouk M,Boukadida J

Antibacterial Activity of Epigallocatechin-3-gallate (EGCG) Loaded Lipid-chitosan Hybrid Nanoparticle against Planktonic Microorganisms.

Journal of oleo science , Volume: 73 Issue: 5 2024

Authors Moreno APD,Marcato PD,Silva LB,Salvador SLS,Arco MCGD,Moraes JCB,Silva RSD,Rossi A

A consortium of Hordeum vulgare and gut microbiota against non-alcoholic fatty liver disease via data-driven analysis.

Artificial cells, nanomedicine, and biotechnology , Volume: 52 Issue: 1 2024 Dec

Authors Lee SB,Gupta H,Min BH,Ganesan R,Sharma SP,Won SM,Jeong JJ,Cha MG,Kwon GH,Jeong MK,Hyun JY,Eom JA,Park HJ,Yoon SJ,Lee SY,Choi MR,Kim DJ,Oh KK,Suk KT

Inulin has a beneficial effect by modulating the intestinal microbiome in a BALB/c mouse model.

Beneficial microbes , Volume: 14 Issue: 4 2023 Sep 1

Authors Zhu Z,Hu C,Liu Y,Wang F,Zhu B

Prebiotic utilisation provides Lactiplantibacillus plantarum a competitive advantage in vitro, but is not reflected by an increased intestinal fitness.

Gut microbes , Volume: 16 Issue: 1 2024 Jan-Dec

Authors Führen J,Schwalbe M,Boekhorst J,Rösch C,Schols HA,Kleerebezem M

Obliteration of H. pylori infection through the development of a novel thyme oil laden nanoporous gastric floating microsphere.

Heliyon , Volume: 10 Issue: 8 2024 Apr 30

Authors Jafar M,Ahmad Khan MS,Akbar MJ,AISaihaty HS,Alasmari SS

Inhibitory effect of some probiotic strains and essential oils on the growth of some foodborne pathogens.

Open veterinary journal , Volume: 14 Issue: 1 2024 Jan

Authors Fathy SS,Awad El,Abd-El Aal SFA,Abdelfatah EN,Tahoun ABMB

Effect of inulin, galacto-oligosaccharides, and polyphenols on the gut microbiota, with a focus on Akkermansia muciniphila.

Food & function , Volume: 15 Issue: 9 2024 May 7

Authors Tian R,Yu L,Tian F,Zhao J,Chen W,Zhai Q

Responses of intestinal morphology, immunity, antioxidant status and cecal microbiota to the mixture of glycerol monolaurate and cinnamaldehyde in laying hens.

Poultry science , Volume: 103 Issue: 6 2024 Jun

Authors Chen MY,Duan YL,Zhu Y,Wang JH,Hu QB,Guo SS,Ding BY,Zhang ZF,Li LL

Gut Microbiota and Inflammation Modulation in a Rat Model for Ulcerative Colitis after the Intraperitoneal Administration of Apigenin, Luteolin, and Xanthohumol.

International journal of molecular sciences , Volume: 25 Issue: 6 2024 Mar 12

Authors Magadán-Corpas P,Pérez-Valero Á,Ye S,Sordon S,Huszczka E,Poplonski J,Villar CJ,Lombó F

Dietary Polyphenols Support Akkermansia muciniphila Growth via Mediation of the Gastrointestinal Redox Environment.

Antioxidants (Basel, Switzerland) , Volume: 13 Issue: 3 2024 Feb 29

Authors Van Buiten CB,Seitz VA,Metcalf JL,Raskin I

Food additives impair gut microbiota from healthy individuals and IBD patients in a colonic in vitro fermentation model.

Food research international (Ottawa, Ont.) , Volume: 182 2024 Apr

Authors Gonza I,Goya-Jorge E,Douny C,Boutaleb S,Taminiau B,Daube G,Scippo ML,Louis E,Delcenserie V

Unveiling the antibacterial mechanism of resveratrol against Aeromonas hydrophila through proteomics analysis.

Frontiers in cellular and infection microbiology , Volume: 14 2024

Authors Fu Y,Zhang L,Lin Y,Zhao X,Chen H,Zhong Y,Jiang W,Wu X,Lin X

Antibacterial Potential of Biosynthesized Silver Nanoparticles Using Berberine Extract Against Multidrug-resistant

Acinetobacter baumannii and Pseudomonas aeruginosa.

Indian journal of microbiology , Volume: 64 Issue: 1 2024 Mar

Authors Tahan M,Zeraatkar S,Neshani A,Marouzi P,Behmadi M,Alavi SJ,Hashemi Shahri SH,Hosseini Bafghi M

High-throughput characterization of the effect of sodium chloride and potassium chloride on 31 lactic acid bacteria and their co-cultures.

Frontiers in microbiology , Volume: 15 2024

Authors Ndiaye A,Fliss I,Filteau M

Olive oil nanoemulsion containing curcumin: antimicrobial agent against multidrug-resistant bacteria.

Applied microbiology and biotechnology , Volume: 108 Issue: 1 2024 Feb 27

Authors Confessor MVA,Agreles MAA,Campos LAA,Silva Neto AF,Borges JC,Martins RM,Scavuzzi AML,Lopes ACS,Kretzschmar EAM,Cavalcanti IMF

Neuroprotective effects of probiotics on anxiety- and depression-like disorders in stressed mice by modulating tryptophan metabolism and the gut microbiota.

Food & function , Volume: 15 Issue: 6 2024 Mar 18

Authors Jia L,Xiao L,Fu Y,Shao Z,Jing Z,Yuan J,Xie Y,Guo J,Wang Y,Geng W

Adjunctive efficacy of Bifidobacterium animalis subsp. lactis XLTG11 for functional constipation in children.

Brazilian journal of microbiology : [publication of the Brazilian Society for Microbiology] , Volume: 55 Issue: 2 2024 Jun

Authors Chen K,Zhou Z,Nie Y,Cao Y,Yang P,Zhang Y,Xu P,Yu Q,Shen Y,Ma W,Jin S,Liu C

Synergistic antimicrobial interaction of plant essential oils and extracts against foodborne pathogens.

Food science & nutrition , Volume: 12 Issue: 2 2024 Feb

Authors Angane M,Swift S,Huang K,Perera J,Chen X,Butts CA,Quek SY

Effects of Lonicerae flos and Turmeric extracts on growth performance and intestinal health of yellow-feathered broilers.

Poultry science , Volume: 103 Issue: 4 2024 Apr

Authors Ji Y,Liu X,Lv H,Guo Y,Nie W

Effects of Oat β -Glucan and Inulin on Alleviation of Nonalcoholic Steatohepatitis Aggravated by Circadian Disruption in C57BL/6J Mice.

Journal of agricultural and food chemistry , Volume: 72 Issue: 7 2024 Feb 21

Authors Kei N,Cheung KK,Ma KL,Yau TK,Lauw S,Wong VWS,You L,Cheung PCK

Anti-Diabetic Potentials of Lactobacillus Strains by Modulating Gut Microbiota Structure and β -Cells Regeneration in the Pancreatic Islets of Alloxan-Induced Diabetic Rats.

Probiotics and antimicrobial proteins , 2024 Feb 8

Authors Kumar M,Muthurayar T,Karthika S,Gayathri S,Varalakshmi P,Ashokkumar B

Antibacterial activity of plant-derived compounds and cream formulations against canine skin bacteria.

Veterinary research communications , 2024 Feb 7

Authors Strompfová V,Štempelová L,Wolaschka T

Mitigation of high-fat diet-induced hepatic steatosis by thyme (Thymus quinquecostatus Celak) polyphenol-rich extract (TPE): insights into gut microbiota modulation and bile acid metabolism.

Food & function , 2024 Feb 2

Authors Sheng X,Zhan P,Wang P,He W,Tian H

Argan: Phytochemical profiling and evaluation of the antioxidant, hypoglycemic, and antibacterial properties of its fruit pulp extracts.

Heliyon , Volume: 10 Issue: 1 2024 Jan 15

Authors Alaoui A,Sahri N,Mahdi I,Fahsi N,El Herradi EH,Sobeh M

Structural characterization, antioxidant and antibacterial activity of three pectin polysaccharides from blueberry.

International journal of biological macromolecules , Volume: 262 Issue: Pt 1 2024 Mar

Authors Qiao Y,Shen Y,Jiang H,Li D,Li B

Lactic acid fermentation of goji berries (Lycium barbarum) prevents acute alcohol liver injury and modulates gut microbiota and metabolites in mice.

Food & function , Volume: 15 Issue: 3 2024 Feb 5

Authors Duan W,Zhou L,Ren Y,Liu F,Xue Y,Wang FZ,Lu R,Zhang XJ,Shi JS,Xu ZH,Geng Y

Effect of Lactobacillus plantarum ZFM4 in Helicobacter pylori-infected C57BL/6 mice: prevention is better than cure.

Frontiers in cellular and infection microbiology , Volume: 13 2023

Authors Yu YY,Wu LY,Sun X,Gu Q,Zhou QQ

Integrated multi-omics profiling highlights the benefits of resveratrol hydroxypropyl- β -cyclodextrin inclusion complex for A53T transgenic mice through the microbiota-gut-brain axis.

Food & function , Volume: 15 Issue: 3 2024 Feb 5

Authors Sun X,Feng S,Qin B,Ye J,Xie L,Gui J,Sang M

Synthesis of New Derivatives of Berberine Canagliflozin and Study of Their Antibacterial Activity and Mechanism.**Molecules (Basel, Switzerland) , Volume: 29 Issue: 1 2024 Jan 4***Authors Li J,Hou X,Xiao J,Zhu L,Deng Y,Li Z,Zhao Z,Luo Z,Wei H***Prospective Randomized, Double-Blind, Placebo-Controlled Study of a Standardized Oral Pomegranate Extract on the Gut Microbiome and Short-Chain Fatty Acids.****Foods (Basel, Switzerland) , Volume: 13 Issue: 1 2023 Dec 19***Authors Sivamani RK,Chakkalakal M,Pan A,Nadora D,Min M,Dumont A,Burney WA,Chambers CJ***An inhibitor of the adaptability of Pseudomonas fluorescens in a high-salt environment. Phenomenon and mechanism of inhibition.****International journal of food microbiology , Volume: 412 2024 Feb 16***Authors Cen C,Wang X,Li H,Chen J,Wang Y***Co-administration of the prebiotic 1-kestose and the paraprobiotic Lactiplantibacillus plantarum FMS in magellanic penguins promotes the activity of intestinal Lactobacillaceae and reduces the plc gene levels encoding Clostridium perfringens toxin.****The Journal of veterinary medical science , Volume: 86 Issue: 2 2024 Feb 8***Authors Fujii T,Kezuka C,Kawaguchi Y,Yamakawa S,Kondo N,Funasaka K,Hirooka Y,Tochio T***Chemoprofiling and antimicrobial activity of medicinal herbs used in the treatment of inflammatory bowel disease.****Cellular and molecular biology (Noisy-le-Grand, France) , Volume: 69 Issue: 13 2023 Dec 10***Authors Alshahrani A,Ali A,Abdelwahab SF***Chamomile tea decreases Porphyromonas gingivalis viability.****Journal of investigative medicine : the official publication of the American Federation for Clinical Research , Volume: 72 Issue: 3 2024 Mar***Authors Hong BY,Ogwo M,Hosseini M,Ofori B,Cervantes J*