

# 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

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## 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 barnesii	species		44674
Desulfonema magnum	species		45655	Thermosiphon melanesiensis	species		46541
Desulfonema limicola	species		45656	Desulfotobacterium hafniense	species		49338
Desulfofundulus kuznetsovii	species		58135	Desulfurobacterium thermolithotrophum	species		64160
Thermodesulfobium narugense	species		184064	Desulfocapsa sulfexigens	species		65555
Solidesulfobacterium magneticum	species		184917	Hippea maritima	species		84405
Thermovibrio ammonificans	species		228745	Campylobacter hyointestinalis subsp. hyointestinalis	subspecies		91352
Solidesulfobacterium carbinolicum	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	Pseudodesulfobacterium 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
Megalodesulfobacterium 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 sinusarabici	species		2352	Malaciobacter mytili	species		603050
Desulfomonile tiedjei	species		2358	Leptotrichia sp. oral taxon 498	species		712368
Thermosiphon 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 stabilize 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

Allium cepa {Onion}

arabinogalactan {arabinogalactan} 21 gram/day

Avena sativa x Hordeum vulgare {barley,oat}

Cinnamomum zeylanicum {Ceylon Cinnamon} 6 gram/day

Diferuloylmethane {Curcumin} 3 gram/day

foeniculum vulgare,fennel

fruit

fruit/legume fibre

Grape Polyphenols {Grape Flavonoids}

Hordeum vulgare {Barley} 60 gram/day

**lactobacillus acidophilus** {L. acidophilus} 20 BCFU/day

**Lactobacillus plantarum** {L. plantarum} 60 BCFU/day

Malus domestica {apple}

**origanum vulgare** {oregano}

Outer Layers of Triticum aestivum {Wheat Bran}

pectin {pectin}

pseudo-cereals {amaranth,quinoa, taro,buckwheat}

raffinose {sugar beet}

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

soy 25 gram/day

synthetic disaccharide derivative of lactose {Lactulose}

walnuts 75 gram/day

**Zinc** {Zinc Supplements} 300 mg/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  
 naturopathica (au) / gastrohealth probiotic dairy free 50 billion  
 Physician Choice / 60 Billion Probiotics  
 Next Generation  
 naturopathica (au) / gastrohealth probiotic dairy free 20 bcfu  
 HMF Metabolic  
 blackmores (au) / probiotics+ immune defence  
 jarro formulas / jarro-dophilus® ultra  
 custom probiotics / six strain probiotic powder  
 Northwest Natural Products / PBS  
 Symprove™  
 SuperSmart / Probio Forte  
 7 AM Ultra Probiotics  
 jarro formula / ideal bowel support® lp299v®  
 quantum wellness / restora flora  
 young living/life 9  
 Bromatech (IT) / Adomelle  
 nature's bounty / probioti 10  
 Ombre / Healthy Gut  
 OMNI-BIOTIC®/ 10 AAD  
 up4 / women's  
 Wakunaga / Max Probiotic  
 MegaFood / MegaFlora  
 Invivo / Bio.Me Femme UT  
 NaturalPharma / Profit Probiotics  
 Bio Schwartz / Advance Strength Probiotics (40 BCFU)  
 OMNI-BIOTIC®/ TRAVEL  
 nature's way (au) / restore probiotic 30 billion 30s  
 organic 3 / primal gut  
 Physis / Advance Probiotics  
 blackmore (au) / probiotics+ daily health  
 visbiome  
 garden of life / primal defense  
 renew life men's probiotic - ultimate  
 ferring / vsl#3  
 Resbiotic / resB® Lung Support  
 SuperSmart / Full Spectrum Probiotic Formula  
 naturopathica (au) / gastrohealth fibrepro  
 spain (es) / vivomixx  
 Advanced Bio-Cultures / Advance Multi Strain Probiotics  
 elixa / probiotic  
 bioray / cytoflora  
 ProbioMax® Daily DF  
 bioglan bio (au) / happy probiotic 100  
 douglas laboratories / multi probiotic 40 billion  
 up4 / adult  
 Swiss BioEnergetics / Full Spectrum Probiotic Defence  
 newrhythm / probiotics 20 stains  
 blackmores (au) / probiotics + adults daily (90 capsules)  
 Lake Avenue Nutrition / Probiotics 10 Strain Blend  
 Windlove Probiotics / Ecologic®825  
 ASEA VIA / BIOME  
 jarro 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 +  
renew life / ultimate flora  
up4 / ultra  
Dr. Mercola / Complete Probiotics  
Garden of Life / Dr. Formulated Once Daily Women's  
vinco / probiotic eight 65  
hyperbiotics / pro-15  
seed / male version  
solaray / microbiome probiotic colon formula  
lifted naturals / mood boosting probiotic  
bioglan bio (au) / happy probiotic 50  
HLH BIOPHARMA(DE) / LACTOBACT ® LDL-CONTROL  
powerlabs (au) / ultra blend  
cytoplan(uk) / dentavital bifidophilus  
trubiotics / one a day  
Maple Life Science™ / Lactobacillus plantarum  
Biorela® Daily  
Bulk Probiotics / L. Acidophilus Probiotic Powder  
gnc / ultra probiotic complex  
NOW FOODS / Clinical GI Probiotic  
natren / healthy trinity probiotic  
Purica Probiotic Cardio  
ecology\_allergycare  
quality health(au) / fridge free probiotic 25b  
optibac / for your cholesterol  
jarrow formulas / bifidus balance® + fos  
bayer / trubiotics daily probiotic  
Bromatech (IT) / Enterelle  
Bioflora (Mx) / BIOFLORA / 30 BILLION 10 strains  
Bromatech (IT) / Pilorex  
Smidge / Sensitive Probiotic  
Krauterhaus / Lactopro  
Metabolics / Lactobacillus Plantarum Powder  
Nature's Lab Cardio  
Jetson (US) / Immunity Probiotics  
Bromatech (IT) / Aflugenex  
HLH BIOPHARMA(DE) / LACTOBACT ® PREMIUM  
solgar / advanced multi-billion dophilus  
Immune Defense Daily Chewable Probiotic  
fürstenmed / lacto-bifido  
PharmExtracta (IT) / FG5 Forte In Sachets  
Wholesome Wellness / Raw Probiotic  
bio-k+  
natren / megadophilus  
VSL Pharmaceuticals / Oxadrop  
Bromatech (IT) / Acronelle  
Ombre / Mood Enhancer  
UltraFlora® Balance  
HLH BIOPHARMA(DE) / LACTOBACT ® AAD  
naturopathica (au) / gastrohealth probiotic adults 50+  
HMF Intensive  
Nature's Lab Intensive GI  
SuperSmart / Lactoxira

Bromatech (IT) / Psicobrain  
SuperSmart / Lactobacillus Plantarum Postbiotic (Pasturized)  
Floradapt Gut Comfort  
CustomProbiotics.com / L. Acidophilus Probiotic Powder  
Purica Probiotic Intensive GI  
Ombre / Ultimate Immunity  
genestra brands@ hm  
Sash Vitality / Bio-Cultures Probiotics for Adults  
blackmore (au) / probiotics+ eczema relief  
Metabolics / Lactobacillus Acidophilus  
SuperSmart / Vaginal Health  
bioglan bio (au/ happy probiotic 25  
klaire labs / target gb-x  
jarrow formulas / jarro-dophilus eps  
Bulk Probiotics / L. Plantarum Probiotic Powder  
spain (es) / I3.1  
jamieson (can) / probiotic 10 bcfu  
optibac / for those on antibiotics  
shin biofermin (jp) /s  
Thyve LPCasei Th1, LPCasei Th2,L.Ferm IBF1, L.acidoph  
Bromatech (IT) / Lautoselle  
Bioflora (MX) / BIOFLORAMX / 50 BILLION 10 Strains  
Bromatech (IT) / Ramnoselle  
Floradapt Cardio  
HLH BIOPHARMA(DE) / LACTOBACT ® OMNI FOS  
HMF IBS Relief  
speer labs / emuaid first defense  
solgar / advanced acidophilus plus  
UltraFlora® Intensive Care  
Ombre / Metabolic Booster  
quality health (au) / fridge free\* probiotic 60s  
blackmore (au) / probiotics+ bowel support  
Bromatech (IT) / Milonet  
anabolic laboratories / probiotic complete  
spain (es) / profaes4 edad escolar  
Ombre / Harmony  
ISCON Elegance/ Ochek Capsule 10  
just for tummies / live bacteria  
UltraFlora® Immune Booster  
nature's way (au) / restore probiotic choc balls 60s  
Bromatech / ENTERELLE PLUS  
SuperSmart / Derma Relief  
HMF Forte  
Bioflora(MX) / Woman  
fairvital / microflora basic  
naturopathica (au) / gastrohealth women's probiotic with cranberry  
Probiotic 10 Billion Active Cells Daily Maintenance  
UltraFlora® Restore  
Seeking Health / Probiota HistaminX  
Nature's Bounty / Acidophilus Probiotic  
bravo europe / starter and complex  
optibac / for every day  
bioglan (au) / healthy kids probiotic choc balls 50s  
Thyve Inside/ L.Reu,Rham,Casi; B.Lactis  
solgar / advanced 40+ acidophilus  
HLH BIOPHARMA(DE) / LACTOBACT ® 60PLUS  
Schwabe Pharma Italia / EnteroDophilus  
organic 3 / gutpro

bravo europe / freeze-dried bravo  
spain (es) / profaes4 viajeros  
optibac / for every day max  
seed / female version  
goodbelly drink  
Schiff® Digestive Advantage® Advanced Probiotics Multi-Strain Support  
Ombre / Heart Health  
Bromatech (IT) / Citogenex  
FloraVantage® Balance  
ImmuneBiotech Medical Sweden AB / GutMagnific®  
CustomProbiotics.com / L. Plantarum Probiotic Powder  
CVSHealth / Daily Probiotic  
Nu U (uk) / Bio-Cultures Complex

**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-(3,4-Dihydroxyphenyl)-5,7-dihydroxy-4H-chromen-4-one  
{Luteolin}

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

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

Azadirachta indica {Neem}

Bixa orellana {annatto }

chlorhexidine

Heyndrickxia coagulans {B. coagulans}

Human milk oligosaccharides (prebiotic, Holigos, Stachyose)

Laurencia tristicha {Marine red algae}

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

N-L- $\alpha$ -aspartyl-L-phenylalanine methyl ester {aspartame}

Phyllanthus emblica {Chinese gall}

Prunus mume {Umeboshi}

Sodium Chloride {Salt}

$\beta$ -(1 $\rightarrow$ 4)-linked D-glucosamine and N-acetyl-D-glucosamine  
{Chitosan}

steviol glycosides {Stevia}

Sucralose {Splenda}

tea



## Sample of Literature Used

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

Correlation between intestinal microbiota and urolithin metabolism in a human walnut dietary intervention.  
**BMC microbiology** , Volume: 24 Issue: 1 2024 Nov 15

Authors Liu H,Birk JW,Provas AA,Vaziri H,Fan N,Rosenberg DW,Gharaibeh RZ,Jobin C

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

Phytochemicals, antioxidant, and antimicrobial activities of Opuntia stricta fruits peel.  
**Open veterinary journal** , Volume: 14 Issue: 10 2024 Oct

Authors Affi W,Mohamed AA,Gharsallah N,Smetanska I,Zourgui L

Investigating antibacterial and anti-inflammatory properties of synthetic curcuminoids.  
**Frontiers in medicine** , Volume: 11 2024

Authors Veselá K,Kejik 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

Growth assessment of mixed cultures of probiotics and common pathogens.  
**Anaerobe** , 2023 Oct 28

Authors Fredua-Agyeman M,Stapleton P,Gaisford S

In-vitro and In-silico evaluation of antimicrobial and antibiofilm effect of Neem oil and Calcium hydroxide nanoparticles against Mutans Streptococci and Enterococcus faecalis isolated from endodontic infections.

**Scientific reports** , Volume: 14 Issue: 1 2024 Nov 2

Authors Nageeb WM,Adam SH,Hashem N,Abdelsalam N

Evaluation of anti-biofilm and anti-virulence effect of zinc sulfate on Staphylococcus aureus isolates.  
**Scientific reports** , Volume: 14 Issue: 1 2024 Oct 28

Authors Abdelraheem WM,Kamel HS,Gamil AN

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

Synergistic Effect of Metronidazole and Chlorhexidine against Porphyromonas gingivalis Growth: An In Vitro Study.  
**Dentistry journal** , Volume: 12 Issue: 10 2024 Sep 27

Authors Lorenzi C,Lio F,Mazzetti V,Carosi P,Lamelza S,Pistoia ES,Pica F,Gaziano R

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

Preparation of pectin/carboxymethyl cellulose composite films via high-pressure processing and enhancement of antimicrobial packaging.

**International journal of biological macromolecules** , Volume: 281 Issue: Pt 4 2024 Nov

Authors Wang L,Li Y,Osei PO,Gao F,Wu X,Liao X

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

Determinants of raffinose family oligosaccharide use in Bacteroides species.

**Journal of bacteriology** , Volume: 206 Issue: 10 2024 Oct 24

Authors Basu A,Adams AND,Deñnan PH,Vanderpool CK

**Antimicrobial effect of combined preservatives using chestnut inner shell, cinnamon, and e-poly-lysine against food-poisoning bacteria *Staphylococcus aureus*.**

**Food science and biotechnology** , Volume: 33 Issue: 14 2024 Nov

Authors Lee NK, Park YJ, Kang CE, Kim JH, Shin D, Lee DH, Paik HD

**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, Hugar SM, Hallikerimath S, Gokhale N, Kadam K, Soneta SP

**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

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**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

**Antibacterial mechanism of metabolites of *Lactobacillus plantarum* against *Pseudomonas lundensis* and their application in dry-aged beef preservation.**

**Food chemistry** , Volume: 460 Issue: Pt 1 2024 Dec 1

Authors Rao W, Wu J, Fang Z, Chen Z, Wu J, Fang X

**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

**Regulations of Citrus Pectin Oligosaccharide on Cholesterol Metabolism: Insights from Integrative Analysis of Gut Microbiota and Metabolites.**

**Nutrients** , Volume: 16 Issue: 13 2024 Jun 24

Authors Hu H, Zhang P, Liu F, Pan S

**Sucralose Influences the Productive Performance, Carcass Traits, Blood Components, and Gut Microflora Using 16S rRNA Sequencing of Growing APR1-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

**Berberine alleviates high-energy and low-protein diet-induced fatty liver hemorrhagic syndrome in laying hens: insights from microbiome and metabolomics.**

**Poultry science** , Volume: 103 Issue: 8 2024 Aug

Authors Cheng X, Hu Y, Kuang J, Guo X, Cao H, Wu H, Hu G, Zhuang Y

**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

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

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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
- sRAGE-binding and antimicrobial bioactivities of soy and pea protein after heating and in vitro infant digestion.**  
**Food research international (Ottawa, Ont.)** , Volume: 183 2024 May  
 Authors Tang J,Teodorowicz M,Boeren S,Wichers HJ,Hettinga KA
- Intestinal Barrier Impairment Induced by Gut Microbiome and Its Metabolites in School-Age Children with Zinc Deficiency.**  
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- Antibacterial Activity of Epigallocatechin-3-gallate (EGCG) Loaded Lipid-chitosan Hybrid Nanoparticle against Planktonic Microorganisms.**  
**Journal of oleo science** , Volume: 73 Issue: 5 2024  
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- Cell-Free Culture Supernatant of Lactobacillus acidophilus AG01 and Bifidobacterium animalis subsp. lactis AG02 Reduces the Pathogenicity of NetB-Positive Clostridium perfringens in a Chicken Intestinal Epithelial Cell Line.**  
**Microorganisms** , Volume: 12 Issue: 4 2024 Apr 22  
 Authors Kadekar D,Udrea AC,Bak SY,Christensen N,Gibbs K,Shen C,Bernardeau M
- 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
- 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 EI,Abd-El Aal SFA,Abdelfatah EN,Tahoun ABMB
- 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  
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- Gut Microbiota and Inflammation Modulation in a Rat Model for Ulcerative Colitis after the Intraperitoneal Administration of Apigenin, Luteolin, and Xanthohumol.**  
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