

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 histidine decarboxylase 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
Sorangium cellulosum	species		56	Kitasatospora setae	species		2066
Francisella tularensis subsp. novicida	subspecies		264	Halomonas elongata	species		2746
Pseudomonas fluorescens	species		294	Francisella philomiragia	species		28110
Methylococcus capsulatus	species		414	Vibrio nigripulchritudo	species		28173
Acinetobacter baumannii	species		470	Arcobacter nitrofigilis	species		28199
Iodobacter fluviatilis	species		537	Ornithobacterium rhinotracheale	species		28251
Klebsiella aerogenes	species		548	Streptantibioticus cattleyicolor	species		29303
Dickeya chrysanthemi	species		556	Aeromonas salmonicida subsp. salmonicida	subspecies		29491
Klebsiella pneumoniae	species		573	Vibrio tubiashii	species		29498
Aeromonas hydrophila	species		644	Staphylococcus saccharolyticus	species		33028
Aeromonas salmonicida	species		645	Gloeobacter violaceus	species		33072
Vibrio vulnificus	species		672	Streptomyces subrutilus	species		36818
Vibrio gazogenes	species		687	Xenorhabdus poinarii	species		40577
Plesiomonas shigelloides	species		703	Micromonospora aurantiaca	species		47850
Haemophilus influenzae	species		727	Acinetobacter pittii	species		48296
Bacteroides fragilis	species		817	Tatumella citrea	species		53336
Fusobacterium varium	species		856	Dactylosporangium vinaceum	species		53362
Fusobacterium ulcerans	species		861	Nocardiopsis alba	species		53437
Cellulophaga lytica	species		979	Fructilactobacillus lindneri	species		53444
Solitalea canadensis	species		995	Raoultella ornithinolytica	species		54291
Leptolyngbya boryana	species		1184	Erwinia persicina	species		55211
Clostridium perfringens	species		1502	Vibrio anguillarum	species		55601
Paraclostridium sordellii	species		1505	Streptomyces platensis	species		58346
Clostridium tetani	species		1513	Desulfobacca acetoxidans	species		60893
Acetivibrio thermocellus	species		1515	Shewanella woodyi	species		60961
Clostridium baratii	species		1561	Serratia rubidaea	species		61652
				Zobellia galactanivorans	species		63186
Limosilactobacillus reuteri	species		1598	Streptomyces fungicidicus	species		68203
Fructilactobacillus fructivorans	species		1614	Musicola paradisiaca	species		69223
Limosilactobacillus vaginalis	species		1633	Aliivibrio wodanis	species		80852
Streptomyces clavuligerus	species		1901				

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'.

bacillus

Bovine Milk Products {Dairy}

Caffeine

Cinnamomum zeylanicum {Ceylon Cinnamon} 6 gram/day

Coffee

Cola aspartame {Diet Cola}

Coriandrum sativum {Coriander}

Curcuma amada {Mango ginger}

Curcuma longa {Turmeric} 3000 mg/day

Diferuloylmethane {Curcumin} 3 gram/day

lactobacillus paracasei,lactobacillus acidophilus,bifidobacterium animalis

Metha family {Mint}

Nigella sativa {black cumin} 1000 mg/day

Propolis {Bee glue}

rosmarinus officinalis {rosemary}

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

{Chitosan} 3 gram/day

syzygium aromaticum {clove}

tea

Thymus vulgaris {thyme}

yogurt

Zingiber officinale Roscoe {ginger}

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.

5,6-dihydro-9,10-dimethoxybenzo[g]-1,3-benzodioxolo[5,6-a]quinolizinium {Berberine}
(2->1)-beta-D-fructofuranan {Inulin}
Abstinence from eating {Fasting}
arabinogalactan {arabinogalactan}
Ferrum {Iron Supplements}
fructo-oligosaccharides
fruit
fruit/legume fibre
Grape Polyphenols {Grape Flavonoids}
grapes
high red meat
Hordeum vulgare {Barley}

Human milk oligosaccharides (prebiotic, Holigos, Stachyose)
Hydrastis canadensis {Goldenseal}
laminaria digitata {Oarweed}
Outer Layers of Triticum aestivum {Wheat Bran}
pectin {pectin}
Pulses, Beans
red wine
resveratrol-pterostilbene {grapes, blueberries}
resveratrol-pterostilbene x Quercetin {quercetin x resveratrol}
Ulmus rubra {slippery elm}
vegetarians
walnuts
wheat

Sample of Literature Used

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

Pharmacological evaluation of selected medicinal plant extracts against multidrug-resistant *Klebsiella pneumoniae*: implications for inflammation-associated respiratory infections.

Inflammopharmacology , 2026 Apr 6

Authors Afzal A

Development and characterization of polyherbal formulation from *Allium sativum*, *Cuminum cyminum*, *Cinnamomum verum*, *Elettaria cardamomum* and *Zingiber officinale* with therapeutic potential against sinusitis-associated pathogens.

Pakistan journal of pharmaceutical sciences , Volume: 39 Issue: 6 2026 Jun

Authors Rehman MT,Shahid M,Hussain F,Akhtar B

Enhancing Antibiotic Efficacy with Curcumin: A Novel Approach To Combat Multidrug-Resistant *Acinetobacter Baumannii*.

Current microbiology , Volume: 83 Issue: 4 2026 Feb 18

Authors Javadi K,Ahmadi MH,Rajabnia M,Halaji M

Curcuma longa debranched starch assisted synthesis of cerium oxide nanoparticles and its antioxidant, anticancer, antimicrobial, and anti-biofilm activities.

Scientific reports , 2026 Jan 19

Authors Sana SS,Mishra V,Vadde R,Sillanpaa M,Alfarraj S, Van Hung P,Kim SC

Antimicrobial and Nutritional Potentials of *Bacillus* Strains.

International journal of molecular sciences , Volume: 26 Issue: 19 2025 Sep 25

Authors Tang Y,Yu X,Guo Y,Yue R,Yuan J

Biochemical description of ozonized propolis and its activity against pathogenic microorganisms, cancer cells, and inflammation with molecular docking interaction.

PloS one , Volume: 20 Issue: 9 2025

Authors Al-Rajhi AMH,Aisalamah SA,Qanash H,Bazaid AS,Aldarhami A,Felemban HR,Gattan HS,AIZamil NM,Daws D,Abdelghany TM

Rosemary Extract: Phytochemical Composition and Potential for Eliminating Polymicrobial Biofilm of *Candida albicans* and Multidrug-Resistant Bacteria.

Biotech (Basel (Switzerland)) , Volume: 14 Issue: 3 2025 Aug 13

Authors Cintra TMF,Menezes RT,de Carvalho LS,de Miguel Nazario L,Hantao LW,Marcucci MC,Oliveira LD,Meccatti-Domiciano VM

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

Transforming Gut Health through Ramadan Intermittent Fasting: A Review on Metabolic and Microbiomic Insights.

Clinical nutrition ESPEN , 2025 Jul 1

Authors Elhag MRA,Abu-Median AB, Da Boit M, Haris PI, Madkour MI, Alkawamleh DH, Faris M

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

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

3 Biotech , Volume: 15 Issue: 5 2025 May

Authors Thakur A,Sharma K

Antimicrobial activities of seasonally collected bee products: honey, propolis, royal jelly, venom, and mellitin.

Brazilian journal of biology = Revista brasleira de biologia , Volume: 84 2024

Authors Obeidat M,Haddad MA,Ghnamat SA

Effect of ozonation on the phytochemicals of black seed oil and its anti-microbial, anti-oxidant, anti-inflammatory, and anti-neoplastic activities in vitro.

Scientific reports , Volume: 14 Issue: 1 2024 Dec 11

Authors Al-Rajhi AMH,Abdelghany TM,Almuhayawi MS,Alruhaili MH,Saddiq AA,Baghdadi AM,AI Jaouni SK,Albasri HM,Waznah MS,Alraddadi FA,Selim S

Zingiber officinale Uncovered: Integrating Experimental and Computational Approaches to Antibacterial and Phytochemical Profiling.

Pharmaceuticals (Basel, Switzerland) , Volume: 17 Issue: 11 2024 Nov 19

Authors Sulieman AME,Ibrahim SM,Alshammari M,Abdulaziz F,Idriss H,Alanazi NAH,Abdallah EM,Siddiqui AJ,Shommo SAM,Jamal A,Badraoui R

- Antimicrobial Activity of Honey and Propolis from Alba County, Romania.**
Antibiotics (Basel, Switzerland) , Volume: 13 Issue: 10 2024 Oct 10
 Authors Vica ML, Glevitzky M, Dumitrel GA, Popa M, Glevitzky I, Teodoru CA
Bacillus licheniformis suppresses Clostridium perfringens infection via modulating inflammatory response, antioxidant status, inflammasome activation and microbial homeostasis in broilers.
Poultry science , Volume: 103 Issue: 11 2024 Aug 21
 Authors Xiao X, Qin S, Cui T, Liu J, Wu Y, Zhong Y, Yang C
Exploring bioactive compounds in chickpea and bean aquafaba: Insights from glycomics and peptidomics analyses.
Food chemistry , Volume: 460 Issue: Pt 2 2024 Dec 1
 Authors Huang YP, Masarweh C, Paviani B, Mills DA, Barile D
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
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
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
Simulated digestions of free oligosaccharides and mucin-type O-glycans reveal a potential role for Clostridium perfringens.
Scientific reports , Volume: 14 Issue: 1 2024 Jan 18
 Authors McDonald AG, Lisacek F
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
Molecular docking, molecular dynamics simulation, and MM/PBSA analysis of ginger phytochemicals as a potential inhibitor of AcrB for treating multidrug-resistant Klebsiella pneumoniae infections.
Journal of biomolecular structure & dynamics , 2024 Jan 2
 Authors Sahoo M, Behera DU, Gaur M, Subudhi E
Identification of inulin-responsive bacteria in the gut microbiota via multi-modal activity-based sorting.
Nature communications , Volume: 14 Issue: 1 2023 Dec 14
 Authors Riva A, Rasoulimehrabani H, Cruz-Rubio JM, Schnorr SL, von Baeckmann C, Inan D, Nikolov G, Herbold CW, Hausmann B, Pjevac P, Schintlmeister A, Spittler A, Palatinszky M, Kadunic A, Hieger N, Del Favero G, von Bergen M, Jehmlich N, Watzka M, Lee KS, Wiesenbauer J, Khadem S, Viernstein H, Stocker R, Wagner M, Kaiser C, Richter A, Kleitz F, Berry D
The Impact of Berberine Loaded Selenium Nanoparticles on K. pneumoniae and Candida albicans Antibiotics Resistance Isolates.
Archives of Razi Institute , Volume: 78 Issue: 3 2023 Jun
 Authors Hasan MF, Jawad Kadhim M, Al-Awady MU
Spices as Sustainable Food Preservatives: A Comprehensive Review of Their Antimicrobial Potential.
Pharmaceuticals (Basel, Switzerland) , Volume: 16 Issue: 10 2023 Oct 12
 Authors Sulieman AME, Abdallah EM, Alanazi NA, Ed-Dra A, Jamal A, Idriess H, Alshammari AS, Shommo SAM
Corrigendum to "Nigella sativa as an antibiotic alternative to promote growth and enhance health of broilers challenged with Eimeria maxima and Clostridium perfringens" [Poult. Sci. 102 (8) (2023) 102831].
Poultry science , Volume: 102 Issue: 10 2023 Oct
 Authors Manjunatha V, Nixon JE, Mathis GF, Lumpkins BS, Güzel-Seydim ZB, Seydim AC, Greene AK, Jiang X
Antibacterial activity of Thymus vulgaris (thyme) essential oil against strains of Pseudomonas aeruginosa, Klebsiella pneumoniae and Staphylococcus saprophyticus isolated from meat product.
Brazilian journal of biology = Revista brasleira de biologia , Volume: 83 2023
 Authors Diniz AF, Santos B, Nóbrega LMMO, Santos VRL, Mariz WS, Cruz PSC, Nóbrega RO, Silva RL, Paula AFR, Santos JRDA, Pessôa

HLF,Oliveira-Filho AA

Liposomal Epigallocatechin-3-Gallate for the Treatment of Intestinal Dysbiosis in Children with Autism Spectrum Disorder: A Comprehensive Review.

Nutrients , Volume: 15 Issue: 14 2023 Jul 24

Authors de la Rubia Ortí JE,Moneti C,Serrano-Ballesteros P,Castellano G,Bayona-Babiloni R,Carriquí-Suárez AB,Motos-Muñoz M,Proaño B,Benlloch M

Phyto-Inhibitory and Antimicrobial Activity of Brown Propolis from Romania.

Antibiotics (Basel, Switzerland) , Volume: 12 Issue: 6 2023 Jun 5

Authors Vica ML,Glevitzky M,Heghedus-Mîndru RC,Dumitrel GA,Heghedus-Mîndru G,Popa M,Faur DM,Bâlici ?,Teodoru CA

Nigella sativa as an antibiotic alternative to promote growth and enhance health of broilers challenged with Eimeria maxima and Clostridium perfringens.

Poultry science , Volume: 102 Issue: 8 2023 Aug

Authors Manjunatha V,Nixon JE,Mathis GF,Lumpkins BS,Güzel-Seydim ZB,Seydim AC,Greene AK,Jiang X

Crosstalk between dietary pomegranate and gut microbiota: evidence of health benefits.

Critical reviews in food science and nutrition , 2023 Jun 19

Authors Yin Y,Martínez R,Zhang W,Estévez M

Targeted modification of gut microbiota and related metabolites via dietary fiber.

Carbohydrate polymers , Volume: 316 2023 Sep 15

Authors Nie Q,Sun Y,Li M,Zuo S,Chen C,Lin Q,Nie S

Comparative study between two different morphological structures based on polylactic acid, nanocellulose and magnetite for co-delivery of flurouracil and curcumin.

International journal of biological macromolecules , Volume: 230 2023 Mar 1

Authors Bakr EA,Gaber M,Saad DR,Salahuddin N

Quercetin positively affects gene expression profiles and metabolic pathway of antibiotic-treated mouse gut microbiota.

Frontiers in microbiology , Volume: 13 2022

Authors Mi W,Hu Z,Xu L,Bian X,Lian W,Yin S,Zhao S,Gao W,Guo C,Shi T

Nutritionally rich biochemical profile in essential oil of various Mentha species and their antimicrobial activities.

Protoplasma , Volume: 260 Issue: 2 2023 Mar

Authors Fazal H,Akram M,Ahmad N,Qaisar M,Kanwal F,Rehman G,Ullah I

In-Vitro Antibacterial Activity of Curcumin-Loaded Nanofibers Based on Hyaluronic Acid against Multidrug-Resistant ESKAPE Pathogens.

Pharmaceutics , Volume: 14 Issue: 6 2022 May 31

Authors Snetkov P,Rogacheva E,Kremleva A,Morozkina S,Uspenskaya M,Kraeva L

Chitosan and Chitooligosaccharide: The Promising Non-Plant-Derived Prebiotics with Multiple Biological Activities.

International journal of molecular sciences , Volume: 23 Issue: 12 2022 Jun 17

Authors Guan Z,Feng Q

Detection and isolation of typical gut indigenous bacteria in ICR mice fed wheat bran and wheat straw fibre.

Food chemistry. Molecular sciences , Volume: 4 2022 Jul 30

Authors Takei N,Kuda T,Handa N,Fujita S,Takahashi H,Kimura B

Dietary Probiotic Supplementation Suppresses Subclinical Necrotic Enteritis in Broiler Chickens in a Microbiota-Dependent Manner.

Frontiers in immunology , Volume: 13 2022

Authors Zhao Y,Zeng Y,Zeng D,Wang H,Sun N,Xin J,Zhou M,Yang H,Lei L,Ling H,Khalique A,Rajput DS,Gan B,Wan Z,Yao Z,Fang J,Pan K,Shu G,Jing B,Zhang D,Ni X

Gut microbiota modulation as a possible mediating mechanism for fasting-induced alleviation of metabolic complications: a systematic review.

Nutrition & metabolism , Volume: 18 Issue: 1 2021 Dec 14

Authors Angoorani P,Ejtahed HS,Hasani-Ranjbar S,Siadat SD,Soroush AR,Larijani B

Berberine inhibits dendritic cells differentiation in DSS-induced colitis by promoting Bacteroides fragilis.

International immunopharmacology , Volume: 101 Issue: Pt A 2021 Dec

Authors Zheng C,Wang Y,Xu Y,Zhou L,Hassan S,Xu G,Zou X,Zhang M

Protective Effects of Bacillus amyloliquefaciens 40 Against Clostridium perfringens Infection in Mice.

Frontiers in nutrition , Volume: 8 2021

Authors Jiang Z,Li W,Su W,Wen C,Gong T,Zhang Y,Wang Y,Jin M,Lu Z

Antimicrobial synergism and antibiofilm activities of Pelargonium graveolens, Rosemary officinalis, and Mentha piperita essential oils against extreme drug-resistant Acinetobacter baumannii clinical isolates.

Zeitschrift fur Naturforschung. C, Journal of biosciences , Volume: 77 Issue: 3-4 2022 Mar 28

Authors Kafa AHT,Aslan R,Celik C,Hasbek M

Dietary Lactobacillus fermentum and Bacillus coagulans Supplementation Modulates Intestinal Immunity and Microbiota of Broiler Chickens Challenged by Clostridium perfringens.

Frontiers in veterinary science , Volume: 8 2021

Authors Guo S,Xi Y,Xia Y,Wu T,Zhao D,Zhang Z,Ding B

Bacillus licheniformis-Fermented Products Improve Growth Performance and Intestinal Gut Morphology in Broilers under Clostridium perfringens Challenge.

The journal of poultry science , Volume: 58 Issue: 1 2021 Jan 25

Authors Cheng YH,Hong YB,Dybus A,Yu YH

Selective Utilization of the Human Milk Oligosaccharides 2`-Fucosyllactose, 3-Fucosyllactose, and Difucosyllactose by Various Probiotic and Pathogenic Bacteria.

Journal of agricultural and food chemistry , Volume: 69 Issue: 1 2021 Jan 13

Authors Salli K,Hirvonen J,Siitonen J,Ahonen I,Angenius H,Maukonen J

Characterization, activities, and ethnobotanical uses of Mentha species in Morocco.

Heliyon , Volume: 6 Issue: 11 2020 Nov

Authors El Hassani FZ

Dietary Epigallocatechin-3-Gallate Alters the Gut Microbiota of Obese Diabetic db/db Mice: Lactobacillus Is a Putative Target.

Journal of medicinal food , Volume: 23 Issue: 10 2020 Oct

Authors Park JM,Shin Y,Kim SH,Jin M,Choi JJ

Effects of Brazilian green propolis extract on planktonic cells and biofilms of multidrug-resistant strains of Klebsiella pneumoniae and Pseudomonas aeruginosa.

Biofouling , Volume: 36 Issue: 7 2020 Aug

Authors Santos PBDRED,Ávila DDS,Ramos LP,Yu AR,Santos CEDR,Berretta AA,Camargo SEA,Oliveira JR,Oliveira LD

The effects of dairy and dairy derivatives on the gut microbiota: a systematic literature review.

Gut microbes , Volume: 12 Issue: 1 2020 Nov 9

Authors Aslam H,Marx W,Rocks T,Loughman A,Chandrasekaran V,Ruusunen A,Dawson SL,West M,Mullarkey E,Pasco JA,Jacka FN

Reciprocal Interactions between Epigallocatechin-3-gallate (EGCG) and Human Gut Microbiota In Vitro.

Journal of agricultural and food chemistry , Volume: 68 Issue: 36 2020 Sep 9

Authors Liu Z,de Bruijn WJC,Bruins ME,Vincken JP

Antioxidant, Anti-Inflammatory, and Microbial-Modulating Activities of Essential Oils: Implications in Colonic Pathophysiology.

International journal of molecular sciences , Volume: 21 Issue: 11 2020 Jun 10

Authors Spisni E,Petrocelli G,Imbesi V,Spigarelli R,Azzinnari D,Donati Sarti M,Campieri M,Valerii MC

Lactobacillus paracasei subsp. paracasei NTU 101 lyophilized powder improves loperamide-induced constipation in rats.

Heliyon , Volume: 6 Issue: 4 2020 Apr

Authors Chen CL,Chao SH,Pan TM

Islamic fasting leads to an increased abundance of Akkermansia muciniphila and Bacteroides fragilis group: A preliminary study on intermittent fasting.

The Turkish journal of gastroenterology : the official journal of Turkish Society of Gastroenterology , Volume: 30 Issue: 12 2019 Dec

Authors Özkul C,Yalinay M,Karakan T

Changes in human gut microbiota composition are linked to the energy metabolic switch during 10 d of Buchinger fasting.

Journal of nutritional science , Volume: 8 2019

Authors Mesnage R,Grundler F,Schwiertz A,Le Maho Y,Wilhelmi de Toledo F

Immunomodulatory and Prebiotic Effects of 2`-Fucosyllactose in Suckling Rats.

Frontiers in immunology , Volume: 10 2019

Authors Azagra-Boronat I,Massot-Cladera M,Mayneris-Perxachs J,Knipping K,Van `t Land B,Tims S,Stahl B,Garssen J,Franch À,Castell M,Rodríguez-Lagunas MJ,Pérez-Cano FJ

Brevibacillus laterosporus strains BGSP7, BGSP9 and BGSP11 isolated from silage produce broad spectrum multi-antimicrobials.

PLoS one , Volume: 14 Issue: 5 2019

Authors Miljkovic M,Jovanovic S,O`Connor PM,Mirkovic N,Jovcic B,Filipic B,Dinic M,Studholme DJ,Fira D,Cotter PD,Kojic M

Arabinoxylan from Argentinian whole wheat flour promote the growth of Lactobacillus reuteri and Bifidobacterium breve.

Letters in applied microbiology , Volume: 68 Issue: 2 2019 Feb

Authors Paesani C,Salvucci E,Moiraghi M,Fernandez Canigía L,Pérez GT

Determination of Antimicrobial Activity of Some Commercial Fruit (Apple, Papaya, Lemon and Strawberry) Against Bacteria Causing Urinary Tract Infection.

European journal of microbiology & immunology , Volume: 8 Issue: 3 2018 Sep 28

Authors Liya SJ,Siddique R

Antimicrobial activity of spices essential oils and its effectiveness on mature biofilms of human pathogens.

Natural product research , 2018 Oct 13

Authors Condò C,Anacorso I,Sabia C,Iseppi R,Anfelli I,Forti L,de Niederhäusern S,Bondi M,Messi P

Screening and characterization of selected drugs having antibacterial potential.

Pakistan journal of pharmaceutical sciences , Volume: 31 Issue: 3 2018 May

Authors Javed H,Tabassum S,Erum S,Murtaza I,Muhammad A,Amin F,Nisar MF

Prebiotic Potential of Herbal Medicines Used in Digestive Health and Disease.

Journal of alternative and complementary medicine (New York, N.Y.) , Volume: 24 Issue: 7 2018 Jul

Authors Peterson CT,Sharma V,Uchitel S,Denniston K,Chopra D,Mills PJ,Peterson SN

Effects of Blackcurrant and Dietary Fibers on Large Intestinal Health Biomarkers in Rats.

Plant foods for human nutrition (Dordrecht, Netherlands) , Volume: 73 Issue: 1 2018 Mar

Authors Paturi G,Butts CA,Monro JA,Hedderley D

Endophytic Detection in Selected European Herbal Plants.

Polish journal of microbiology , Volume: 65 Issue: 3 2016 Aug 26

Authors Goryluk-Salmonowicz A,Piórek M,Rekosz-Burlağa H,Studnicki M,Błaszczyk M

Influence of a diet enriched with virgin olive oil or butter on mouse gut microbiota and its correlation to physiological and biochemical parameters related to metabolic syndrome.

PloS one , Volume: 13 Issue: 1 2018

Authors Prieto I,Hidalgo M,Segarra AB,Martínez-Rodríguez AM,Cobo A,Ramírez M,Abriouel H,Gálvez A,Martínez-Cañamero M

Monitoring *in vitro* antibacterial efficacy of 26 Indian spices against multidrug resistant urinary tract infecting bacteria.

Integrative medicine research , Volume: 3 Issue: 3 2014 Sep

Authors Rath S,Padhy RN

The effects of the Lactobacillus casei strain on obesity in children: a pilot study.

Beneficial microbes , Volume: 8 Issue: 4 2017 Aug 24

Authors Nagata S,Chiba Y,Wang C,Yamashiro Y

Effects of long-term Bacillus subtilis CGMCC 1.921 supplementation on performance, egg quality, and fecal and cecal microbiota of laying hens.

Poultry science , Volume: 96 Issue: 5 2017 May 1

Authors Guo JR,Dong XF,Liu S,Tong JM

Draft Genome Sequence of Klebsiella pneumoniae Strain AS Isolated from Zhejiang Provincial Hospital of TCM, China.

Genome announcements , Volume: 4 Issue: 5 2016 Sep 22

Authors Yang XJ,Wang S,Cao JM,Hou JH

Microbial Community of Healthy Thai Vegetarians and Non-Vegetarians, Their Core Gut Microbiota, and Pathogen Risk.

Journal of microbiology and biotechnology , Volume: 26 Issue: 10 2016 Oct 28

Authors Ruengsomwong S,La-Ongkham O,Jiang J,Wannissorn B,Nakayama J,Nitisinprasert S

In vitro antimicrobial activity of five essential oils on multidrug resistant Gram-negative clinical isolates.

Journal of intercultural ethnopharmacology , Volume: 5 Issue: 3 2016 Jun-Aug

Authors Sakkas H,Gousia P,Economou V,Sakkas V,Petsios S,Papadopoulou C

In Vivo Effects of Tea Polyphenol Intake on Human Intestinal Microflora and Metabolism.

Bioscience, biotechnology, and biochemistry , Volume: 56 Issue: 4 1992 Jan

Authors Okubo T,Ishihara N,Oura A,Serit M,Kim M,Yamamoto T,Mitsuoka T

Survey of the Antibiofilm and Antimicrobial Effects of Zingiber officinale (in Vitro Study).

Jundishapur journal of microbiology , Volume: 9 Issue: 2 2016 Feb

Authors Aghazadeh M,Zahedi Bialvaei A,Aghazadeh M,Kabiri F,Saliani N,Yousefi M,Eslami H,Samadi Kafil H

Gas chromatography coupled with mass spectrometric characterization of Curcuma longa: Protection against pathogenic microbes and lipid peroxidation in rat`s tissue homogenate.

Pakistan journal of pharmaceutical sciences , Volume: 29 Issue: 2 2016 Mar

Authors Hassan W,Gul S,Rehman S,Kanwal F,Afridi MS,Fazal H,Shah Z,Rahman A,da Rocha JB

CHEMICAL COMPOSITION AND ANTIBACTERIAL ACTIVITY OF SOME MEDICINAL PLANTS FROM LAMIACEAE FAMILY.

Acta poloniae pharmaceutica , Volume: 72 Issue: 4 2015 Jul-Aug

Authors Kozłowska M,Laudy AE,Przybył J,Ziarno M,Majewska E

Brevibacillus laterosporus, a Pathogen of Invertebrates and a Broad-Spectrum Antimicrobial Species.

Insects , Volume: 4 Issue: 3 2013 Sep 5

Authors Rui L

In vitro digestion and fermentation properties of linear sugar-beet arabinan and its oligosaccharides.

Carbohydrate polymers , Volume: 131 2015 Oct 20

Authors Moon JS,Shin SY,Choi HS,Joo W,Cho SK,Li L,Kang JH,Kim TJ,Han NS

PROPOLIS AS AN ANTIBACTERIAL AGENT AGAINST CLINICAL ISOLATES OF MDR-ACINETOBACTER BAUMANNII.

Journal of Ayub Medical College, Abbottabad : JAMC , Volume: 27 Issue: 1 2015 Jan-Mar

Authors Hannan A,Batool A,Qamar MU,Khalid F

Antimicrobial Impacts of Essential Oils on Food Borne-Pathogens.

Recent patents on food, nutrition & agriculture , Volume: 7 Issue: 1 2015

Authors Ozogul Y,Kuley E,Ucar Y,Ozogul F

Pomegranate ellagitannins stimulate growth of gut bacteria in vitro: Implications for prebiotic and metabolic effects.

Anaerobe , Volume: 34 2015 Aug

Authors Li Z,Summanen PH,Komoriya T,Henning SM,Lee RP,Carlson E,Heber D,Finegold SM

Effects of two whole-grain barley varieties on caecal SCFA, gut microbiota and plasma inflammatory markers in rats consuming low- and high-fat diets.

The British journal of nutrition , Volume: 113 Issue: 10 2015 May 28

Authors Zhong Y,Marungruang N,Fåk F,Nyman M

Modulation of the intestinal microbiota is associated with lower plasma cholesterol and weight gain in hamsters fed chardonnay grape seed flour.

Journal of agricultural and food chemistry , Volume: 63 Issue: 5 2015 Feb 11

Authors Kim H,Kim DH,Seo KH,Chon JW,Nah SY,Bartley GE,Arvik T,Lipson R,Yokoyama W

Assessment of Bioautography and Spot Screening of TLC of Green Tea (Camellia) Plant Extracts as Antibacterial and Antioxidant Agents

Indian Journal of Pharmaceutical Sciences , Volume: 76 Issue: 4 2014 Jul-Aug

Authors Bashir S,Khan BM,Babar M,Andleeb S,Hafeez M,Ali S,Khan MF

Iron fortification adversely affects the gut microbiome, increases pathogen abundance and induces intestinal inflammation in Kenyan infants.

Gut , Volume: 64 Issue: 5 2015 May

Authors Jaeggli T,Kortman GA,Moretti D,Chassard C,Holding P,Dostal A,Boekhorst J,Timmerman HM,Swinkels DW,Tjalsma H,Njenga J,Mwangi A,Kvalsvig J,Lacroix C,Zimmermann MB

Effect of traditional leafy vegetables on the growth of lactobacilli and bifidobacteria.

International journal of food sciences and nutrition , Volume: 65 Issue: 8 2014 Dec

Authors Kassim MA,Baijnath H,Odhav B

Fermentable non-starch polysaccharides increases the abundance of Bacteroides-Prevotella-Porphyrromonas in ileal microbial community of growing pigs.

Animal : an international journal of animal bioscience , Volume: 8 Issue: 11 2014 Nov

Authors Ivarsson E,Roos S,Liu HY,Lindberg JE

In vitro activity of curcumin in combination with epigallocatechin gallate (EGCG) versus multidrug-resistant Acinetobacter baumannii.

BMC microbiology , Volume: 14 2014 Jun 27

Authors Betts JW,Wareham DW

Synergetic antimicrobial effects of mixtures of ethiopian honeys and ginger powder extracts on standard and resistant clinical bacteria isolates.

Evidence-based complementary and alternative medicine : eCAM , Volume: 2014 2014

Authors Ewnetu Y,Lemma W,Birhane N

Effects of a probiotic, Enterococcus faecium, on growth performance, intestinal morphology, immune response, and cecal microflora in broiler chickens challenged with Escherichia coli K88.

Poultry science , Volume: 92 Issue: 11 2013 Nov

Authors Cao GT,Zeng XF,Chen AG,Zhou L,Zhang L,Xiao YP,Yang CM

Strict vegetarian diet improves the risk factors associated with metabolic diseases by modulating gut microbiota and reducing intestinal inflammation.

Environmental microbiology reports , Volume: 5 Issue: 5 2013 Oct

Authors Kim MS,Hwang SS,Park EJ,Bae JW

Feeding Jerusalem artichoke reduced skatole level and changed intestinal microbiota in the gut of entire male pigs.

Animal : an international journal of animal bioscience , Volume: 6 Issue: 5 2012 May

Authors Vhile SG,Kjos NP,Sørum H,Overland M

Antimicrobial Potency of the Leaf - Stalk Extract of Curcuma longa (LINN).

Ancient science of life , Volume: 20 Issue: 1-2 2000 Jul

Authors Mazumder R,Mendiratta T,Mondal SC,Mazumder A

The cytotoxic effect of essential oils from Origanum vulgare L. and/or Rosmarinus officinalis L. on Aeromonas hydrophila.

Foodborne pathogens and disease , Volume: 9 Issue: 4 2012 Apr

Authors Azerêdo GA,Stamford TL,Figueiredo RC,Souza EL

Synergistic activity of coriander oil and conventional antibiotics against *Acinetobacter baumannii*.

Phytomedicine : international journal of phytotherapy and phytopharmacology , Volume: 19 Issue: 3-4 2012 Feb 15

Authors Duarte A,Ferreira S,Silva F,Domingues FC

In-vitro antimicrobial activity and synergistic/antagonistic effect of interactions between antibiotics and some spice essential oils.

Journal of environmental biology , Volume: 32 Issue: 1 2011 Jan

Authors Toroglu S

Cytotoxicity, antiviral and antimicrobial activities of alkaloids, flavonoids, and phenolic acids.

Pharmaceutical biology , Volume: 49 Issue: 4 2011 Apr

Authors Ozçelik B,Kartal M,Orhan I

Dietary cellulose, fructooligosaccharides, and pectin modify fecal protein catabolites and microbial populations in adult cats.

Journal of animal science , Volume: 88 Issue: 9 2010 Sep

Authors Barry KA,Wojcicki BJ,Middelbos IS,Vester BM,Swanson KS,Fahey GC Jr