

## Kyoto Encyclopedia of Genes and Genomes derived Suggestions

### Review Overview

These suggestions are based on an Expert System (Artificial Intelligence) modelled after the MYCIN Expert System produced at Stanford University School of Medicine in 1972. The system uses almost 2 million facts with backward chaining to sources of information. The typical sources are studies published on the US National Library of Medicine. Note: That many of the bacteria species used are *NOT* reported on many tests.

These are suggestions that are predicted to independently Increasing Butanoic acid | Butanoate Butyrate Butyric acid C4H8O2 by impacting the bacteria listed on [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](mailto: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
Methylocystis parvus		species	134	Brevibacillus laterosporus		species	1465
Azospirillum lipoferum		species	193	Peribacillus simplex		species	1478
Bradyrhizobium japonicum		species	375	Rubrivivax gelatinosus		species	28068
Bradyrhizobium sp.		species	376	Porphyromonas asaccharolytica		species	28123
Citrobacter koseri		species	545	Vibrio nigripulchritudo		species	28173
Citrobacter freundii		species	546	Pectobacterium atrosepticum		species	29471
Escherichia fergusonii		species	564	Beijerinckia indica subsp. indica		subspecies	31994
Shigella sonnei		species	624	Phascolarctobacterium faecium		species	33025
Yersinia intermedia		species	631	Leptothrix cholodnii		species	34029
Edwardsiella tarda		species	636	Citrobacter amalonaticus		species	35703
Vibrio harveyi		species	669	Rhodovulum sulfidophilum		species	35806
Aggregatibacter actinomycetemcomitans		species	714	Caldibacillus thermoamylovorans		species	35841
Pasteurella dagmatis		species	754	Porphyromonas cangingivalis		species	36874
Rodentibacter pneumotropicus		species	758	Methylobacterium mesophilicum		species	39956
Porphyromonas gingivalis		species	837	Streptococcus equi subsp. zooepidemicus		subspecies	40041
Fusobacterium gonidiaformans		species	849	Rubrobacter radiotolerans		species	42256
Fusobacterium mortiferum		species	850	Halomonas venusta		species	44935
Fusobacterium varium		species	856	Streptococcus cristatus		species	45634
Fusobacterium periodonticum		species	860	Bibersteinia trehalosi		species	47735
Fusobacterium ulcerans		species	861	Serratia fonticola		species	47917
Megasphaera elsdenii		species	907	Brevibacillus agri		species	51101
Nitrobacter hamburgensis		species	912	Thalassovita gelatinovora		species	53501
Rhodospirillum rubrum		species	1085	Brevibacillus choshinensis		species	54911
Streptococcus pyogenes		species	1314	Brevibacillus formosus		species	54913
Streptococcus anginosus		species	1328	Pectobacterium wasabiae		species	55208
Streptococcus canis		species	1329	Brenneria nigrifluens		species	55210
Streptococcus uberis		species	1349	Brenneria rubrifaciens		species	55213
Brevibacillus brevis		species	1393	Edwardsiella ictaluri		species	67780
Paenibacillus polymyxa		species	1406	Citrobacter farmeri		species	67824
Peribacillus psychrosaccharolyticus		species	1407	Citrobacter werkmanii		species	67827

## Substance to Consider Adding or Taking

These are the most significant substances that are likely to improve the microbiome dysfunction. Dosages are based on the dosages used in clinical studies. For more information see: <https://microbiomeprescription.com/library/dosages>. These are provided as examples only

Colors indicates the type of substance: i.e. probiotics and prebiotics, herbs and spices, etc. There is no further meaning to them.

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

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

Emphasize one list each week

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

This approach allows the microbiome to 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'.

Cacao 20 gram/day

chitosan,(sugar) 3 gram/day

cinnamon (oil. spice) 6 gram/day

Curcumin 3 gram/day

foeniculum vulgare,fennel

gallate (food additive)

garlic (allium sativum) 4 gram/day

green tea

Hesperidin (polyphenol) 1.5 gram/day

**lactobacillus casei (probiotics)** 48 BCFU/day

**lactobacillus gasseri (probiotics)** 10 BCFU/day

**lactobacillus paracasei (probiotics)** 40 BCFU/day

lauric acid(fatty acid in coconut oil,in palm kernel oil,)

**N-Acetyl Cysteine (NAC),** 2400 mg/day

rosmarinus officinalis,rosemary

salvia officinalis (sage)

syzygium aromaticum (clove)

thyme (thymol, thyme oil)

trametes versicolor(Turkey tail mushroom)

**vitamin B3,niacin** 3000 mg/day

## Retail Probiotics

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

newrhythm / probiotics 20 stains  
douglas laboratories / multi probiotic 40 billion  
SuperSmart / Full Spectrum Probiotic Formula  
vita miracle / ultra-30 probiotics  
organic 3 / primal gut  
Garden of Life / Dr. Formulated Once Daily Women's  
quantum wellness / restora flora  
hyperbiotics / pro-15  
nature's way (au) / restore probiotic 100 billion  
7 AM Ultra Probiotics  
bioglan bio (au) / happy probiotic 50  
nature's bounty / probioti 10  
MegaFood / MegaFlora  
jarrow formulas / jarro-dophilus® ultra  
1 md / complete probiotics platinum  
garden of life / primal defense  
renew life men's probiotic - ultimate  
fürstenmed / lacto-bifido  
renew life / ultimate flora  
up4 / ultra  
bioglan bio (au) / happy probiotic 100  
Lake Avenue Nutrition / Probiotics 10 Strain Blend  
Windove Probiotics / Ecologic®825  
ASEA VIA / BIOME  
Wholesome Wellness / Raw Probiotic  
HLH BIOPHARMA(DE) / LACTOBACT ® PREMIUM  
Jetson (US) / Immunity Probiotics  
spain (es) / vivomixx  
Advanced Bio-Cultures / Advance Multi Strain Probiotics  
elixa / probiotic  
bioray / cytoflora  
Bromatech (IT) / Aflugenex  
naturopathica (au) / gastrohealth probiotic ultimate daily care 100billion  
udo's choice / super 8 gold  
Smidge / Sensitive Probiotic  
Krauterhaus / Lactopro  
LiveWell Nutrition / Pro-45  
bio-k+  
HLH BIOPHARMA(DE) / LACTOBACT ® METABOLIC  
jarrow formula / jarro-dophilus original  
CustomProbiotics.com / L. Casei Probiotic Powder  
solgar / advanced multi-billion dophilus  
optibac / for daily immunity  
Realdose  
SuperSmart / Lactoxira  
spain (es) / muvagyn probiotico  
probiotic pur (de) / realdose nutrition  
CustomProbiotics.com / L. Paracasei Probiotic Powder  
visbiome  
ferring / vsl#3  
jamieson (can) / probiotic 10 bcfu  
Thryve LPCasei Th1, LPCasei Th2, LFerm IBF1, Lacidoph  
klair labs / target gb-x  
jarrow formulas / jarro-dophilus eps

philips / colon health  
Sash Vitality / Bio-Cultures Probiotics for Adults  
SuperSmart / Vaginal Health  
danactive drink  
OMNI-BIOTIC®/ 10 AAD  
up4 / women's  
Bromatech (IT) / Citogenex  
Ombre / Healthy Gut  
just for tummies / live bacteria  
HLH BIOPHARMA(DE) / LACTOBACT ® 60PLUS  
Northwest Natural Products / PBB  
wakamoto (jp) / wakamoto pharmaceutical intestinal drug  
SuperSmart / Probio Forte  
organic 3 / gutpro  
naturopathica (au) / gastrohealth antacid  
bravo europe / freeze-dried bravo  
seed / female version  
Invivo / Bio.Me Femme UT  
PharmExtracta (IT) / INatal Sachets  
NaturalPharma / Profit Probiotics  
Bio Schwartz / Advance Strength Probiotics (40 BCFU)  
SuperSmart / Lactobacillus Gasseri  
OMNI-BIOTIC®/ TRAVEL  
CustomProbiotics.com / L. Gasseri Probiotic Powder  
SuperSmart / Derma Relief  
fairvital / microflora basic  
vinco / probiotic eight 65  
NOW FOODS / Clinical GI Probiotic  
ecology\_allergycare  
HLH BIOPHARMA(DE) / LACTOBACT ® OMNI FOS  
Physis / Advance Probiotics  
Eden's / 3-in-1 Synbiotic Superblend  
Dr. Mercola / Complete Probiotics  
solaray / microbiome probiotic colon formula  
bravo europe / starter and complex  
solgar / advanced 40+ acidophilus

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.

arabinogalactan (prebiotic)

berberine

bile (acid/salts)

high red meat

inulin (prebiotic)

iron

lupin seeds (anaphylaxis risk, toxic if not prepared properly)

non-starch polysaccharides

pectin

Pulses

red wine

Slippery Elm

sugar

vegetarians

xylan (prebiotic)

## Sample of Literature Used

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

**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*

**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*

**Preparation and characterization of curcumin/chitosan conjugate as an efficient photodynamic antibacterial agent.**

**Carbohydrate polymers , Volume: 313 2023 Aug 1**

*Authors Zhao L, Ding X, Khan IM, Yue L, Zhang Y, Wang Z*

**Curcumin  $\beta$ -D-Glucuronide Modulates an Autoimmune Model of Multiple Sclerosis with Altered Gut Microbiota in the Ileum and Feces.**

**Frontiers in cellular and infection microbiology , Volume: 11 2021**

*Authors Khadka S, Omura S, Sato F, Nishio K, Kakeya H, Tsunoda I*

**Antimicrobial, immunological and biochemical effects of florfenicol and garlic (*Allium sativum*) on rabbits infected with *Escherichia coli* serotype O55: H7.**

**Veterinary research communications , 2021 Nov 10**

*Authors Farag VM, El-Shafei RA, Ekenany RM, Ali HS, Eladi AH*

***Lactocaseibacillus paracasei* NK112 mitigates *Escherichia coli*-induced depression and cognitive impairment in mice by regulating IL-6 expression and gut microbiota.**

**Beneficial microbes , 2021 Sep 13**

*Authors Yun SW, Kim JK, Han MJ, Kim DH*

**Oral Administration of *Flavonifractor plautii*, a Bacteria Increased With Green Tea Consumption, Promotes Recovery From Acute Colitis in Mice via Suppression of IL-17.**

**Frontiers in nutrition , Volume: 7 2020**

*Authors Mikami A, Ogita T, Namai F, Shigemori S, Sato T, Shimosato T*

**Berberine alters gut microbial function through modulation of bile acids.**

**BMC microbiology , Volume: 21 Issue: 1 2021 Jan 11**

*Authors Wolf PG, Devendran S, Doden HL, Ly LK, Moore T, Takei H, Nittono H, Murai T, Kurosawa T, Chlipala GE, Green SJ, Kakiyama G, Kashyap P, McCracken VJ, Gaskins HR, Gillevet PM, Ridlon JM*

**Cocoa Polyphenols and Gut Microbiota Interplay: Bioavailability, Prebiotic Effect, and Impact on Human Health.**

**Nutrients , Volume: 12 Issue: 7 2020 Jun 27**

*Authors Sorrenti V, Ali S, Mancin L, Davinelli S, Paoli A, Scapagnini G*

**Thyroid-Gut-Axis: How Does the Microbiota Influence Thyroid Function?**

**Nutrients , Volume: 12 Issue: 6 2020 Jun 12**

*Authors Knezevic J, Starchl C, Tmava Berisha A, Amrein K*

**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, Spigarello 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*

**Dietary prophage inducers and antimicrobials: toward landscaping the human gut microbiome.**

**Gut microbes , 2020 Jan 13**

*Authors Boling L, Cuevas DA, Grasis JA, Kang HS, Knowles B, Levi K, Maughan H, McNair K, Rojas MI, Sanchez SE, Smurthwaite C, Rohwer F*

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

**Natural product research , 2018 Oct 13**

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

**Effects of in vitro gastrointestinal digestion and colonic fermentation on a rosemary (*Rosmarinus officinalis* L) extract rich in rosmarinic acid.**

**Food chemistry , Volume: 271 2019 Jan 15**

*Authors Gonçalves GA, Corrêa RCG, Barros L, Dias MI, Calhelha RC, Correa VG, Bracht A, Peralta RM, Ferreira ICFR*

- Consumed Foodstuffs Have a Crucial Impact on the Toxic Activity of Enteropathogenic <i>Bacillus cereus</i>.**  
**Frontiers in microbiology** , Volume: 9 2018  
Authors Riol CD,Dietrich R,Märtlbauer E,Jessberger N  
**Anti-inflammatory and antibacterial evaluation of Thymus sipyleus Boiss. subsp. sipyleus var. sipyleus essential oil against rhinosinusitis pathogens.**
- Microbial pathogenesis** , Volume: 122 2018 Sep  
Authors Demirci F,Karaca N,Tekin M,Demirci B  
**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  
**Extensive impact of non-antibiotic drugs on human gut bacteria.**
- Nature** , Volume: 555 Issue: 7698 2018 Mar 29  
Authors Maier L,Pruteanu M,Kuhn M,Zeller G,Telzerow A,Anderson EE,Brochado AR,Fernandez KC,Dose H,Mori H,Patil KR,Bork P,Typas A  
**Xylan supplement improves 1,3-propanediol fermentation by Clostridium butyricum.**
- Journal of bioscience and bioengineering** , 2018 Mar 10  
Authors Apiwatanapiwat W,Vaithanomsat P,Thanapase W,Ratanakhanokchai K,Kosugi A  
**Enhancing syntrophic associations among Clostridium butyricum, Syntrophomonas and two types of methanogen by zero valent iron in an anaerobic assay with a high organic loading.**
- Bioresource technology** , Volume: 257 2018 Jun  
Authors Kong X,Yu S,Fang W,Liu J,Li H  
**An <i>in vitro</i> Comparative Evaluation of Efficacy of Disinfecting Ability of Garlic Oil, Neem Oil, Clove Oil, and Tulsi Oil with autoclaving on Endodontic K Files tested against <i>Enterococcus faecalis</i>.**
- International journal of clinical pediatric dentistry** , Volume: 10 Issue: 3 2017 Jul-Sep  
Authors Hugar S,M Patel P,Nagmoti J,Uppin C,Mistry L,Dhariwal N  
**Para-psychobiotic Lactobacillus gasseri CP2305 ameliorates stress-related symptoms and sleep quality.**
- Journal of applied microbiology** , Volume: 123 Issue: 6 2017 Dec  
Authors Nishida K,Sawada D,Kawai T,Kuwano Y,Fujiwara S,Rokutan K  
**Monitoring <i>in vitro</i> 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  
**The effects of micronutrient deficiencies on bacterial species from the human gut microbiota.**
- Science translational medicine** , Volume: 9 Issue: 390 2017 May 17  
Authors Hibberd MC,Wu M,Rodionov DA,Li X,Cheng J,Griffin NW,Barratt MJ,Giannone RJ,Hettich RL,Osterman AL,Gordon JI  
**Biological activities of Rosmarinus officinalis L. (rosemary) extract as analyzed in microorganisms and cells.**
- Experimental biology and medicine (Maywood, N.J.)** , Volume: 242 Issue: 6 2017 Mar  
Authors de Oliveira JR,de Jesus D,Figueira LW,de Oliveira FE,Pacheco Soares C,Camargo SE,Jorge AO,de Oliveira LD  
**Breaking the resistance of Escherichia coli: Antimicrobial activity of Berberis lycium Royle.**
- Microbial pathogenesis** , Volume: 102 2017 Jan  
Authors Malik TA,Kamili AN,Chishti MZ,Ahad S,Tantry MA,Hussain PR,Johri RK  
**Lactate- and acetate-based cross-feeding interactions between selected strains of lactobacilli, bifidobacteria and colon bacteria in the presence of inulin-type fructans.**
- International journal of food microbiology** , Volume: 241 2017 Jan 16  
Authors Moens F,Verce M,De Vuyst L  
**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  
**Dairy and plant based food intakes are associated with altered faecal microbiota in 2 to 3 year old Australian children.**
- Scientific reports** , Volume: 6 2016 Oct 3  
Authors Smith-Brown P,Morrison M,Krause L,Davies PS  
**Efficacy and role of inulin in mitigation of enteric sulfur-containing odor in pigs.**
- Journal of the science of food and agriculture** , Volume: 97 Issue: 8 2017 Jun  
Authors Deng YF,Liu YY,Zhang YT,Wang Y,Liang JB,Tufarelli V,Laudadio V,Liao XD



- Antibacterial in vitro effects of preparations from Anthroposophical Medicine.**  
**BMC complementary and alternative medicine** , Volume: 16 Issue: 1 2016 Sep 22  
Authors Roser E,Gründemann C,Engels I,Huber R
- 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
- Physical and antimicrobial properties of cinnamon bark oil co-nanoemulsified by lauric arginate and Tween 80.**  
**International journal of food microbiology** , Volume: 233 2016 Sep 16  
Authors Hilbig J,Ma Q,Davidson PM,Weiss J,Zhong Q
- 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
- The effect of berberine hydrochloride on Enterococcus faecalis biofilm formation and dispersion in vitro.**  
**Microbiological research** , Volume: 186-187 2016 May-Jun  
Authors Chen L,Bu Q,Xu H,Liu Y,She P,Tan R,Wu Y
- 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
- Oral versus intravenous iron replacement therapy distinctly alters the gut microbiota and metabolome in patients with IBD.**  
**Gut** , Volume: 66 Issue: 5 2017 May  
Authors Lee T,Clavel T,Smirnov K,Schmidt A,Lagkouvardos I,Walker A,Lucio M,Michalke B,Schmitt-Kopplin P,Fedorak R,Haller D
- The Effects of Inulin on Characteristics of Lactobacillus paracasei TD3 (IBRC-M 10784) as Probiotic Bacteria in vitro.**  
**Archives of Iranian medicine** , Volume: 19 Issue: 2 2016 Feb  
Authors Mahboubi M,Kazempour N
- Antibacterial activity of cinnamaldehyde and clove oil: effect on selected foodborne pathogens in model food systems and watermelon juice.**  
**Journal of food science and technology** , Volume: 52 Issue: 9 2015 Sep  
Authors Siddiqua S,Anusha BA,Ashwini LS,Negi PS
- 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
- In vitro and in vivo examination of anticolonization of pathogens by Lactobacillus paracasei FJ861111.1.**  
**Journal of dairy science** , Volume: 98 Issue: 10 2015 Oct  
Authors Deng K,Chen T,Wu Q,Xin H,Wei Q,Hu P,Wang X,Wang X,Wei H,Shah NP
- In vitro fermentation of lupin seeds (Lupinus albus) and broad beans (Vicia faba): dynamic modulation of the intestinal microbiota and metabolomic output.**  
**Food & function** , Volume: 6 Issue: 10 2015 Oct  
Authors Gullón P,Gullón B,Tavaria F,Vasconcelos M,Gomes AM
- Butyrylated starch intake can prevent red meat-induced O6-methyl-2-deoxyguanosine adducts in human rectal tissue: a randomised clinical trial.**  
**The British journal of nutrition** , Volume: 114 Issue: 2 2015 Jul  
Authors Le Leu RK,Winter JM,Christophersen CT,Young GP,Humphreys KJ,Hu Y,Gratz SW,Miller RB,Topping DL,Bird AR,Conlon MA
- 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
- Antimicrobial activity and chemical composition of the essential oils of Portuguese Foeniculum vulgare fruits.**  
**Natural product communications** , Volume: 10 Issue: 4 2015 Apr  
Authors Mota AS,Martins MR,Arantes S,Lopes VR,Bettencourt E,Pombal S,Gomes AC,Silva LA
- Empirical prediction and validation of antibacterial inhibitory effects of various plant essential oils on common pathogenic bacteria.**  
**International journal of food microbiology** , Volume: 202 2015 Jun 2  
Authors Akdemir Evrendilek G

**Diets high in resistant starch and arabinoxylan modulate digestion processes and SCFA pool size in the large intestine and faecal microbial composition in pigs.**

**The British journal of nutrition , Volume: 112 Issue: 11 2014 Dec 14**

*Authors Nielsen TS,Lærke HN,Theil PK,Sørensen JF,Saarinen M,Forssten S,Knudsen KE*

**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*

**Xylan utilization in human gut commensal bacteria is orchestrated by unique modular organization of polysaccharide-degrading enzymes.**

**Proceedings of the National Academy of Sciences of the United States of America , Volume: 111 Issue: 35 2014 Sep 2**

*Authors Zhang M,Chekan JR,Dodd D,Hong PY,Radlinski L,Revindran V,Nair SK,Mackie RI,Cann I*

**Impact of diet and individual variation on intestinal microbiota composition and fermentation products in obese men**

**The ISME Journal , Volume: 8 Issue: 11 2014 Apr 24**

*Authors Salonen A,Lahti L,Salojärvi J,Holtrup G,Korpela K,Duncan SH,Date P,Farquharson F,Johnstone AM,Lobley GE,Louis P,Flint HJ,de Vos WM*

**RNA-stable-isotope probing shows utilization of carbon from inulin by specific bacterial populations in the rat large bowel.**

**Applied and environmental microbiology , Volume: 80 Issue: 7 2014 Apr**

*Authors Tannock GW,Lawley B,Munro K,Sims IM,Lee J,Butts CA,Roy N*

**Lactobacillus paracasei subsp. paracasei LC01 positively modulates intestinal microflora in healthy young adults.**

**Journal of microbiology (Seoul, Korea) , Volume: 51 Issue: 6 2013 Dec**

*Authors Zhang H,Sun J,Liu X,Hong C,Zhu Y,Liu A,Li S,Guo H,Ren F*

**Association of dietary type with fecal microbiota in vegetarians and omnivores in Slovenia.**

**European journal of nutrition , Volume: 53 Issue: 4 2014 Jun**

*Authors Matijašič BB,Obermajer T,Lipoglavšek L,Grabnar I,Avguštin G,Rogelj I*

**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*

**Probiotic features of two oral Lactobacillus isolates.**

**Brazilian journal of microbiology : [publication of the Brazilian Society for Microbiology] , Volume: 43 Issue: 1 2012 Jan**

*Authors Zavisic G,Petricevic S,Radulovic Z,Begovic J,Golic N,Topisirovic L,Strahinic I*

**The inhibitory effect of polyphenols on human gut microbiota.**

**Journal of physiology and pharmacology : an official journal of the Polish Physiological Society , Volume: 63 Issue: 5 2012 Oct**

*Authors Duda-Chodak A*

**Effect of garlic powder on the growth of commensal bacteria from the gastrointestinal tract.**

**Phytomedicine : international journal of phytotherapy and phytopharmacology , Volume: 19 Issue: 8-9 2012 Jun 15**

*Authors Filocamo A,Nueno-Palop C,Bisignano C,Mandalari G,Narbad A*

**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*

**Arabinoxylans and inulin differentially modulate the mucosal and luminal gut microbiota and mucin-degradation in humanized rats.**

**Environmental microbiology , Volume: 13 Issue: 10 2011 Oct**

*Authors Van den Abbeele P,Gérard P,Rabot S,Bruneau A,El Aidy S,Derrien M,Kleerebezem M,Zoetendal EG,Smidt H,Verstraete W,Van de Wiele T,Possemiers S*

**A vegan or vegetarian diet substantially alters the human colonic faecal microbiota.**

**European journal of clinical nutrition , Volume: 66 Issue: 1 2012 Jan**

*Authors Zimmer J,Lange B,Frick JS,Sauer H,Zimmermann K,Schwiertz A,Rusch K,Klosterhalfen S,Enck P*

**Antimicrobial activity of plant essential oils against bacterial and fungal species involved in food poisoning and/or food decay.**

**Roumanian archives of microbiology and immunology , Volume: 69 Issue: 4 2010 Oct-Dec**

*Authors Lixandru BE,Dracea NO,Dragomirescu CC,Dragulescu EC,Coldea IL,Anton L,Dobre E,Rovinaru C,Codita I*

- Biodegradable gelatin-chitosan films incorporated with essential oils as antimicrobial agents for fish preservation.**  
**Food microbiology** , Volume: 27 Issue: 7 2010 Oct  
Authors Gómez-Estaca J,López de Lacey A,López-Caballero ME,Gómez-Guillén MC,Montero P
- 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
- In vitro antimicrobial activity and chemical composition of the essential oil of Foeniculum vulgare Mill.**  
**Revista medico-chirurgicala a Societatii de Medici si Naturalisti din Iasi** , Volume: 112 Issue: 3 2008 Jul-Sep  
Authors Aprotosoiaie AC,Hancianu M,Poata A,Tuchilus C,Spac A,Cioana O,Gille E,Stanescu U
- The antimicrobial efficacy of plant essential oil combinations and interactions with food ingredients.**  
**International journal of food microbiology** , Volume: 124 Issue: 1 2008 May 10  
Authors Gutierrez J,Barry-Ryan C,Bourke P
- Vapor-phase activities of cinnamon, thyme, and oregano essential oils and key constituents against foodborne microorganisms.**  
**Journal of agricultural and food chemistry** , Volume: 55 Issue: 11 2007 May 30  
Authors López P,Sanchez C,Batlle R,Nerín C
- Bioassay-guided purification and identification of antimicrobial components in Chinese green tea extract.**  
**Journal of chromatography. A** , Volume: 1125 Issue: 2 2006 Sep 1  
Authors Si W,Gong J,Tsao R,Kalab M,Yang R,Yin Y
- Antimicrobial and antiplasmid activities of essential oils.**  
**Fitoterapia** , Volume: 77 Issue: 4 2006 Jun  
Authors Schelz Z,Molnar J,Hohmann J
- In vitro antimicrobial activity of essential oils from aromatic plants against selected foodborne pathogens.**  
**Journal of food protection** , Volume: 67 Issue: 6 2004 Jun  
Authors Rota C,Carramiñana JJ,Burillo J,Herrera A
- Probiotic activities of Lactobacillus casei rhamnosus: in vitro adherence to intestinal cells and antimicrobial properties.**  
**Research in microbiology** , Volume: 152 Issue: 2 2001 Mar  
Authors Forestier C,De Champs C,Vatoux C,Joly B
- Antimicrobial activity of essential oils and other plant extracts.**  
**Journal of applied microbiology** , Volume: 86 Issue: 6 1999 Jun  
Authors Hammer KA,Carson CF,Riley TV
- Antimicrobial compounds from Lactobacillus casei and Lactobacillus helveticus.**  
**The new microbiologica** , Volume: 16 Issue: 2 1993 Apr  
Authors Vescovo M,Scolari GL,Caravaggi L,Bottazzi V
- Fermentation of mucins and plant polysaccharides by anaerobic bacteria from the human colon.**  
**Applied and environmental microbiology** , Volume: 34 Issue: 5 1977 Nov  
Authors Salyers AA,West SE,Vercellotti JR,Wilkins TD
- Misc articles**
- WebMd.com** , Volume: Issue: Jan 2018  
Authors WebMd.com
- Curcumin consumption reduces gut microbial diversity among patients with colorectal adenomas**  
**The FASEB Journal** , Volume: 26 Issue: 1 2012 Apr 1  
Authors April McLauchlin,Felix Araujo-Perez,Nikki McCoy,Kevin Smith,Bob Sandler,Gary Asher,Temitope Keku
- Curated database of commensal, symbiotic and pathogenic microbiota**  
**Generative Bioinformatics** , Volume: Issue: 2014 Jun  
Authors D'Adamo Peter