

## Microbiome Information for: myasthenia gravis

### For non-prescribing Medical professionals Review

The suggestions below 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 over 1,800,000 facts with backward chaining to sources of information. The typical sources are studies published on the US National Library of Medicine.

Many recent studies has found that symptoms and symptom severity has strong associations to the microbiome for many conditions. Correcting the microbiome dysfunction is beleived to reduce the severity of symptoms. In some cases, this correction may cause symptoms to disappear.

These are a *a priori suggestions* that are predicted to independently reduce microbiome dysfunction. 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

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Best practise for making microbiome adjustments is to obtain the individuals microbiome. The following are the best microbiome to use with this expert system model. The suggestions below are intended as temporary suggestions until a test result in received.

In the USA

Ombre (<https://www.ombrelab.com/>)

Thome (<https://www.thome.com/products/dp/gut-health-test>)

Worldwide: BiomeSight (<https://biomesight.com>) - Discount Code 'MICRO'

### Analysis Provided by Microbiome Prescription

A Microbiome Analysis Company

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[Our Facebook Discussion Page](#)

## Bacteria being reported because of atypical values.

These bacteria were reported atypical in studies of myasthenia gravis

*Nota Bena:* Many studies are done with a small sample size or mixtures of condition subsets which can greatly diminish the ability to detect bacteria shifts.

<b>Bacteria Name</b>	<b>Rank</b>	<b>Shift</b>	<b>Taxonomy</b>	<b>ID</b>
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Clostridiaceae	family	Low		31979
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Defluviitaleaceae	family	Low		1185407
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<b>Bacteria Name</b>	<b>Rank</b>	<b>Shift</b>	<b>Taxonomy</b>	<b>ID</b>
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Enterobacteriaceae	family	Low		543
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Barnesiella	genus	Low		397864
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Lachnoclostridium	genus	High		1506553
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## 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.

<b>bacillus subtilis (probiotics)</b> 10 BCFU/day	<b>lactobacillus plantarum (probiotics)</b> 60 BCFU/day
<b>bifidobacterium longum (probiotics)</b> 10 BCFU/day	<b>lactobacillus reuteri (probiotics)</b> 22 BCFU/day
<b>chitosan,(sugar)</b> 3 gram/day	<b>lactobacillus rhamnosus gg (probiotics)</b> 48 BCFU/day
<b>cinnamon (oil. spice)</b> 6 gram/day	<b>mutaflor escherichia coli nissle 1917 (probiotics)</b> 4 capsules/day
<b>clostridium butyricum (probiotics),Miya,Miyarisan</b> 1.gram/day	<b>oregano (organum vulgare, oil)  </b>
<b>Curcumin</b> 3 gram/day	<b>rosmarinus officinalis,rosemary</b>
<b>fructo-oligosaccharides (prebiotic)</b> 15 gram/day	<b>soy</b> 25 gram/day
<b>garlic (allium sativum)</b> 4 gram/day	<b>tannic acid</b>
<b>inulin (prebiotic)</b> 32 gram/day	<b>tea</b>
<b>lactobacillus casei (probiotics)</b> 48 BCFU/day	<b>triphala</b> 9000 mg/day
<b>lactobacillus paracasei (probiotics)</b> 40 BCFU/day	<b>Vitamin B-12</b> 10 mg/day
	<b>whey</b> 60 gram/day

## Retail Probiotics

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

Global Healing Center / FloraTrex  
 newrhythm / probiotics 20 stains  
 garden of life / primal defense  
 SuperSmart / Full Spectrum Probiotic Formula  
 vita miracle / ultra-30 probiotics  
 Physician Choice / 60 Billion Probiotics  
 Garden of Life / Dr. Formulated Once Daily Women's  
 hyperbiotics / pro-15  
 nature's way (au) / restore probiotic 100 billion  
 theramedix / probiotic  
 fairvital / microflora basic  
 organic 3 / primal gut  
 naturopathica (au) / gastrohealth probiotic dairy free 50 billion  
 seed / female version  
 quantum wellness / restora flora  
 renew life men's probiotic - ultimate  
 douglas laboratories / multi probiotic 40 billion  
 Lake Avenue Nutrition / Probiotics 10 Strain Blend  
 fürstenmed / lacto-bifido  
 HLH BIOPHARMA(DE) / LACTOBACT ® PREMIUM  
 bioglan bio (au) / happy probiotic 100  
 Advanced Bio-Cultures / Advance Multi Strain Probiotics  
 elixa / probiotic  
 bioray / cytoflora  
 renew life / ultimate flora  
 up4 / ultra  
 Jetson (US) / Immunity Probiotics  
 spain (es) / vivomixx  
 Realdose  
 SuperSmart / Lactoxira  
 naturopathica (au) / gastrohealth probiotic ultimate daily care 100billion  
 udo's choice / super 8 gold  
 Krauterhaus / Lactopro  
 probiotic pur (de) / realdose nutrition  
 Winlove Probiotics / Ecologic®825  
 ASEA VIA / BIOME  
 Wholesome Wellness / Raw Probiotic  
 nature's way (au) / restore probiotic bowel & colon health 30s  
 visbiome  
 7 AM Ultra Probiotics  
 Thryve Inside/ L.Reu,Rham,Casi; B.Lactis  
 jarro formulas / jarro-dophilus® ultra  
 Ombre / Heart Health  
 1 md / complete probiotics platinum  
 HLH BIOPHARMA(DE) / LACTOBACT ® 60PLUS  
 Northwest Natural Products / PB8  
 Bio Schwartz / Advance Strength Probiotics (40 BCFU)  
 OMNI-BIOTIC®/ 10 AAD  
 seed / male version  
 solaray / microbiome probiotic colon formula  
 MegaFood / MegaFlora  
 Physis / Advance Probiotics  
 bioglan bio (au) / happy probiotic 50  
 Dr. Mercola / Complete Probiotics

vinco / probiotic eight 65  
blackmore (au) / probiotics+ daily health  
lifted naturals / mood boosting probiotic  
NOW FOODS / Clinical GI Probiotic  
nature's bounty / probioti 10  
SuperSmart / Derma Relief  
young living/life 9  
Ombre / Metabolic Booster  
Invivo / Bio.Me Femme UT  
OMNI-BIOTIC®/ TRAVEL  
SuperSmart / Probio Forte  
organic 3 / gutpro  
SuperSmart / Oral Health  
Ombre / Healthy Gut  
naturopathica (au) / gastrohealth probiotic dairy free 20 bcfu  
solgar / advanced 40+ acidophilus  
Seeking Health / Probiota HistaminX  
bravo europe / starter and complex  
optibac / for every day  
jarrow formulas / jarro-dophilus eps  
up4 / adult  
ferring / vsl#3  
jamieson (can) / probiotic 10 bcfu  
HLH BIOPHARMA(DE) / LACTOBACT ® METABOLIC  
jarrow formula / jarro-dophilus original  
aor / probiotic-3  
Bromatech (IT) / Rotanelle plus  
Swiss BioEnergetics / Full Spectrum Probiotic Defence  
blackmores (au) / probiotics + adults daily (90 capsules)  
LiveWell Nutrition / Pro-45  
Smidge / Sensitive Probiotic  
solgar / advanced multi-billion dophilus  
Ombre / Mood Enhancer  
jarrow formulas / bifidus balance® + fos  
ProbioMax® Daily DF  
SuperSmart / Lactobacillus Plantarum Postbiotic (Pasturized)  
JGL / Lactogyn  
organic 3 / primal soil  
SuperSmart / Bacillus Subtilis  
culturelle / culturelle  
spain (es) / bivos  
optibac / for your cholesterol  
INVIVO THERAPEUTICS / Bio.Me IB +  
jarrow formulas / fem dophilus  
Ombre / Ultimate Immunity  
PharmExtracta (IT) / Butirisan  
spain (es) / aquilea intimus  
BIO-BOTANICAL RESEARCH / Megacidin  
reserveage nutrition / beautiflora  
amy meyers / primal earth probiotic  
PrecisionBiotics / Zenflora  
PharmExtracta / Bowell  
Jetson / Gut Prep  
Bromatech (IT) / Psicobrain  
Schwabe Pharma Italia / MegaStress  
HLH BIOPHARMA(DE) / LACTOBACT ® AAD  
naturopathica (au) / gastrohealth probiotic adults 50+  
nature's way (au) / restore probiotic daily health 90s

optibac / for daily immunity  
Bromatech(IT) / FEMELLE  
Sun Wave Pharma/Bio Sun Instant  
SuperSmart / Candalb  
custom probiotics / four strain lactobacilli  
Bromatech (IT) / Aflugenex  
Botica Alternativa / Lactobacilos Reuteri  
Metabolics / Lactobacillus Plantarum Powder  
microbiome labs / restorflora  
spain (es) / suerobivos  
zint nutrition / probiotic collagen +  
Metabolics / Bifidobacterium Longum Powder  
vitamin angels / just thrive  
CustomProbiotics.com / L. Casei Probiotic Powder  
bio-k+  
Thryve LPCasei Th1, LPCasei Th2,L.Ferm IBF1, L.acidoph  
Resbiotic /resB® Lung Support  
custom probiotics / d-Hactate free probiotics powder  
klaire labs / target gb-x  
mutaflor / mutaflor  
Ombre / Restore  
spain (es) / gastrus  
CustomProbiotics.com / L. Paracasei Probiotic Powder  
spain (es) / I3.1  
naturopathica (au) / gastrohealth fibrepro  
philips / colon health  
Sash Vitality /Bio-Cultures Probiotics for Adults  
blackmore (au) / probiotics+ eczema relief  
SuperSmart / Vaginal Health  
Schwabe Pharma Italia / EnteroDophilus  
Microbiome Labs / MEGA Genesis  
Jetson / FIT  
Prescript-Assist®/SBO Probiotic  
jarrow formula / ideal bowel support® Ip299v®  
spain (es) / reuteri gotas  
CVSHealth / Daily Probiotic  
Bromatech (IT) / Serobiome  
biospec / probiotic-5  
corebiotic  
blackmores (au) / probiotics+ immune defence  
CustomProbiotics.com / L. Plantarum Probiotic Powder  
PoolPharma (IT) / ProbioTKMIO  
custom probiotics / six strain probiotic powder  
Bromatech (IT) / Citogenex  
spain (es) / casenbiotic  
ImmuneBiotech Medical Sweden AB / GutMagnific®  
PharmExtracta (IT) / Gliadines buccal stickpacks  
ISCON Elegance/ Ochek Capsule 10  
just for tummies / live bacteria  
danactive drink  
Nutrition Essentials / Probiotic (900 BCFU)  
klaire labs / ther-biotic factor 4  
InnovixLabs / Mood Probiotic  
blackmore (au) / probiotics+ womens flora balance  
naturopathica (au) / gastrohealth antacid  
Pendulum / Pendulum Glucose Control  
SuperSmart / Lactobacillus reuteri  
bravo europe / freeze-dried bravo

wakamoto (jp) / wakamoto pharmaceutical intestinal drug  
 custom probiotics / five strain bifidobacteria  
 Bromatech (IT) / Bifiselle  
 BioGaia / BioGaia Products  
 enviromedica terrafloa sbo probiotic  
 PureGG  
 Microbiome Labs / ZENBIOME Dual  
 canada (ca) / calmbiotic  
 Jetson (US) / Mood Probiotics  
 jarow formulas / fem-dophilus®  
 global health trax / threelac  
 nature's way (au) / restore probiotic 30 billion 30s  
 SuperSmart / H. Pylori Fight  
 Law of Nature / Best Days Formula  
 BioGaia / BioGaia Osfortis  
 HLH BIOPHARMA(DE) / LACTOBACT ® OMNI FOS  
 Dr.Max / ProtectMax ATB  
 naturopathica (au)/ gastrohealth probiotic daily care  
 CustomProbiotics.com / L. Reuteri Probiotic Powder  
 digestive care  
 perfect pass / perfect pass probiotic bacillus spore  
 PharmExtracta (IT) / INatal Sachets  
 NaturalPharma / Profit Probiotics  
 spain (es) / ns florabiotic instant  
 optibac / for women  
 Bromatech (IT) / Adomelle  
 Energybalance / ColoBiotica 28 Colon Support  
 naturopathica (au) / gastrohealth women's probiotic with cranberry  
 jarow formulas / jarro-dophilus mood  
 mwsb / candida yeast support  
 microbiome labs/ megasporebiotic  
 optibac / bifidobacteria & fibre  
 Sanogermina / AB-Kolicare  
 claire labs / biospora  
 miyarian (jp) / miyarian  
 spain (es) / kaleidon  
 up4 /women's  
 RepHresh /Pro-B Probiotic Supplement for Women  
 ecology\_allergycare  
 PrecisionBiotics / Immune  
 Genesis Bifidobacterium Complex BB Probiotic  
 spain (es) / gum periobalance  
 cytoplan(uk) /dentavital bifidophilus  
 SuperSmart / Lactobacillus rhamnosus GG  
 Eden's / 3-in-1 Synbiotic Superblend  
 nature's instincts / ultra spore probiotic  
 bio-botanical research / proflo4r restorative probiotic  
 microbiome labs /hu58  
 CustomProbiotics.com / B. Longum Probiotic Powder  
 HLH BIOPHARMA(DE) / LACTOBACT ® LDL-CONTROL  
 powerlabs (au) / ultra blend

**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.

aspartame (sweetner)

carob

Ferric citrate

ku ding cha tea

l-proline

mannooligosaccharide (prebiotic)

non-starch polysaccharides

symbioflor 2 e.coli probiotics

vegetarians

vitamin a

## Sample of Literature Used

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

### Causal relationship between gut microbiota and myasthenia gravis: a bidirectional mendelian randomization study.

**Cell & bioscience** , Volume: 13 Issue: 1 2023 Nov 7

Authors Su T,Yin X,Ren J,Lang Y,Zhang W,Cui L

Modulation of the Gut Microbiota by the Plantaricin-Producing Lactiplantibacillus plantarum D13, Analysed in the DSS-Induced Colitis Mouse Model.

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Authors Butorac K,Novak J,Banic M,Leboš Pavunc A,Culjak N,Oršolic N,Odeh D,Perica J,Šuškovc J,Kos B

Bifidobacterium longum subsp. longum 5<sup>1A</sup> attenuates intestinal injury against irinotecan-induced mucositis in mice.

**Life sciences** , Volume: 289 2022 Jan 15

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Bacillus subtilis Attenuates Hepatic and Intestinal Injuries and Modulates Gut Microbiota and Gene Expression Profiles in Mice Infected with Schistosoma japonicum.

**Frontiers in cell and developmental biology** , Volume: 9 2021

Authors Lin D,Song Q,Zhang Y,Liu J,Chen F,Du S,Xiang S,Wang L,Wu X,Sun X

Bacillus pumilus and Bacillus subtilis Promote Early Maturation of Cecal Microbiota in Broiler Chickens.

**Microorganisms** , Volume: 9 Issue: 9 2021 Sep 7

Authors Bilal M,Achard C,Barbe F,Chevaux E,Ronholm J,Zhao X

The role of genotype and diet in shaping gut microbiome in a genetic Vitamin A deficient mouse model.

**Journal of genetics and genomics = Yi chuan xue bao** , 2021 Sep 16

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Dose-response and functional role of whey permeate as a source of lactose and milk oligosaccharides on intestinal health and growth of nursery pigs.

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Black garlic melanoidins prevent obesity, reduce serum LPS levels and modulate the gut microbiota composition in high-fat diet-induced obese C57BL/6J mice.

**Food & function** , Volume: 11 Issue: 11 2020 Nov 18

Authors Wu J,Liu Y,Dou Z,Wu T,Liu R,Sui W,Jin Y,Zhang M

Carboxymethyl chitosan perturbs inflammation profile and colonic microbiota balance in mice.

**Journal of food and drug analysis** , Volume: 28 Issue: 1 2020 Jan

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Spent Coffee Grounds Extract, Rich in Mannooligosaccharides, Promotes a Healthier Gut Microbial Community in a Dose-Dependent Manner.

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In vitro potentiation of carbapenems with tannic acid against carbapenemase-producing enterobacteriaceae: exploring natural products as potential carbapenemase inhibitors.

**Journal of applied microbiology** , Volume: 126 Issue: 2 2019 Feb

Authors Somboro AM,Osei Sekyere J,Amoako DG,Kumalo HM,Khan R,Bester LA,Essack SY

The Phosphate Binder Ferric Citrate Alters the Gut Microbiome in Rats with Chronic Kidney Disease.

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**Journal of microbiology, immunology, and infection = Wei mian yu gan ran za zhi , 2018 Jun 23**

Authors Kao L,Liu TH,Tsai TY,Pan TM

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Authors Xia X,Chen J,Xia J,Wang B,Liu H,Yang L,Wang Y,Ling Z

[Role of \*Lactobacillus reuteri\* in Human Health and Diseases.](#)

**Frontiers in microbiology , Volume: 9 2018**

Authors Mu Q,Tavella VJ,Luo XM

[Lactobacillus plantarum MTCC 9510 supplementation protects from chronic unpredictable and sleep deprivation-induced behaviour, biochemical and selected gut microbial aberrations in mice.](#)

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Authors Dhaliwal J,Singh DP,Singh S,Pinnaka AK,Boparai RK,Bishnoi M,Kondepudi KK,Chopra K

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**Journal of animal science and biotechnology , Volume: 9 2018**

Authors Ji Y,Guo Q,Yin Y,Blachier F,Kong X

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**3 Biotech , Volume: 8 Issue: 1 2018 Jan**

Authors Prayoonthien P,Nitisingprasert S,Keawsompong S

[Clostridium butyricum CGMCC0313.1 Protects against Autoimmune Diabetes by Modulating Intestinal Immune Homeostasis and Inducing Pancreatic Regulatory T Cells.](#)

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Authors Jia L,Shan K,Pan LL,Feng N,Lv Z,Sun Y,Li J,Wu C,Zhang H,Chen W,Diana J,Sun J,Chen YQ

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**The British journal of nutrition , Volume: 118 Issue: 7 2017 Oct**

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**Journal of food science , Volume: 82 Issue: 8 2017 Aug**

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**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

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**Journal of translational medicine , Volume: 15 Issue: 1 2017 Apr 8**

Authors Singh RK,Chang HW,Yan D,Lee KM,Ucmak D,Wong K,Abrouk M,Farahnik B,Nakamura M,Zhu TH,Bhutani T,Liao W

[Carob pods \(Ceratonia siliqua L.\) improve growth performance, antioxidant status and caecal characteristics in growing rabbits.](#)

**Journal of animal physiology and animal nutrition , Volume: 101 Issue: 6 2017 Dec**

Authors Abu Hafsa SH,Ibrahim SA,Hassan AA

[Insights from 100 Years of Research with Probiotic E. Coli](#)

**European Journal of Microbiology & Immunology** , Volume: 6 Issue: 3 2016 Sep 29

Authors Wassenaar TM

Dietary Chitosan Supplementation Increases Microbial Diversity and Attenuates the Severity of *Citrobacter rodentium* Infection in Mice.

**Mediators of inflammation** , Volume: 2016 2016

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**Journal of clinical biochemistry and nutrition** , Volume: 59 Issue: 2 2016 Sep

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**Journal of the science of food and agriculture** , Volume: 97 Issue: 8 2017 Jun

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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

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Infection Susceptibility in Gastric Intrinsic Factor (Vitamin B12)-Defective Mice Is Subject to Maternal Influences.

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Authors Mottram L,Speak AO,Selek RM,Cambridge EL,McIntyre Z,Kane L,Mukhopadhyay S,Grove C,Colin A,Brandt C,Duque-Correa MA,Forbester J,Nguyen TA,Hale C,Vasiliou GS,Arends MJ,Wren BW,Dougan G,Clare S

Short communication: Modulation of the small intestinal microbial community composition over short-term or long-term administration with *Lactobacillus plantarum* ZDY2013.

**Journal of dairy science** , Volume: 99 Issue: 9 2016 Sep

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Screening of Bifidobacteria and Lactobacilli Able to Antagonize the Cytotoxic Effect of *Clostridium difficile* upon Intestinal Epithelial HT29 Monolayer.

**Frontiers in microbiology** , Volume: 7 2016

Authors Valdés-Varela L,Alonso-Guervos M,García-Suárez O,Gueimonde M,Ruas-Madiedo P

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**Poultry science** , Volume: 95 Issue: 11 2016 Nov 1

Authors Forte C,Acuti G,Manuali E,Casagrande Proietti P,Pavone S,Trabalza-Marinucci M,Moscato L,Onofri A,Lorenzetti C,Franciosi MP

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**Journal of animal science and biotechnology** , Volume: 7 2016

Authors Cobellis G,Yu Z,Forte C,Acuti G,Trabalza-Marinucci M

*Lactobacillus rhamnosus* GG Intake Modifies Preschool Children`s Intestinal Microbiota, Alleviates Penicillin-Associated Changes, and Reduces Antibiotic Use.

**PloS one** , Volume: 11 Issue: 4 2016

Authors Korpela K,Salonen A,Virta LJ,Kumpu M,Kekkonen RA,de Vos WM

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

Antimicrobial activities of six essential oils commonly used as condiments in Brazil against *Clostridium perfringens*.

**Brazilian journal of microbiology : [publication of the Brazilian Society for Microbiology]** , Volume: 47 Issue: 2 2016 Apr-Jun

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Amyotrophic lateral sclerosis (ALS) Motor Neuron

Ankylosing spondylitis

Anorexia Nervosa

Antiphospholipid syndrome (APS)

Asthma

Atherosclerosis

Atrial fibrillation

Autism

Autoimmune Disease

Barrett esophagus cancer

benign prostatic hyperplasia

Bipolar Disorder

Brain Trauma

Breast Cancer

Carcinoma

Celiac Disease

Cerebral Palsy

Chronic Fatigue Syndrome

Chronic Kidney Disease

Chronic Lyme

Chronic Obstructive Pulmonary Disease (COPD)

Chronic Urticaria (Hives)  
Coagulation / Micro clot triggering bacteria  
Colorectal Cancer  
Constipation  
Coronary artery disease  
COVID-19  
Crohn's Disease  
cystic fibrosis  
deep vein thrombosis  
Depression  
Dermatomyositis  
Eczema  
Endometriosis  
Eosinophilic Esophagitis  
Epilepsy  
erectile dysfunction  
Fibromyalgia  
Functional constipation / chronic idiopathic constipation  
gallstone disease (gsd)  
Gastroesophageal reflux disease (Gerd) including Barrett's esophagus  
Generalized anxiety disorder  
Gout  
Graves' disease  
Hashimoto's thyroiditis  
Heart Failure  
Hidradenitis Suppurativa  
Histamine Issues,Mast Cell Issue, DAO Insufficiency  
hypercholesterolemia (High Cholesterol)  
hyperglycemia  
Hyperlipidemia (High Blood Fats)  
hypersomnia  
hypertension (High Blood Pressure)  
Hypoxia  
IgA nephropathy (IgAN)  
Inflammatory Bowel Disease  
Insomnia  
Intelligence  
Intracranial aneurysms  
Irritable Bowel Syndrome  
Juvenile idiopathic arthritis  
Liver Cirrhosis  
Long COVID  
Low bone mineral density  
Lung Cancer  
ME/CFS with IBS  
ME/CFS without IBS  
Menopause  
Metabolic Syndrome  
Mood Disorders  
Multiple Sclerosis  
Multiple system atrophy (MSA)  
myasthenia gravis  
Neuropathy (all types)  
neuropsychiatric disorders (PANDAS, PANS)  
Nonalcoholic Fatty Liver Disease (nafld) Nonalcoholic  
NonCeliac Gluten Sensitivity  
Obesity  
obsessive-compulsive disorder

Osteoarthritis  
Osteoporosis  
pancreatic cancer  
Parkinson's Disease  
Polycystic ovary syndrome  
Postural orthostatic tachycardia syndrome  
Premenstrual dysphoric disorder  
primary biliary cholangitis  
Psoriasis  
rheumatoid arthritis (RA), Spondyloarthritis (SpA)  
Rosacea  
Schizophrenia  
scoliosis  
sensorineural hearing loss  
Sjögren syndrome  
Sleep Apnea  
Small Intestinal Bacterial Overgrowth (SIBO)  
Stress / posttraumatic stress disorder  
Systemic Lupus Erythematosus  
Tic Disorder  
Tourette syndrome  
Type 1 Diabetes  
Type 2 Diabetes  
Ulcerative colitis  
Unhealthy Ageing