

## Microbiome Information for: Systemic Lupus Erythematosus

### For 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 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

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## Bacteria being reported because of atypical values.

These bacteria were reported atypical in studies of Systemic Lupus Erythematosus

*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.

| Bacteria Name       | Rank   | Shift | Taxonomy ID | Bacteria Name                    | Rank    | Shift | Taxonomy ID |
|---------------------|--------|-------|-------------|----------------------------------|---------|-------|-------------|
| Actinomycetes       | class  | Low   | 1760        | Mycoplasma                       | genus   | High  | 2093        |
| Bacilli             | class  | High  | 91061       | Neisseria                        | genus   | High  | 482         |
| Bacteroidia         | class  | Low   | 200643      | Oribacterium                     | genus   | High  | 265975      |
| Clostridia          | class  | Low   | 186801      | Parabacteroides                  | genus   | High  | 375288      |
| Gammaproteobacteria | class  | High  | 1236        | Paraprevotella                   | genus   | Low   | 577309      |
| Bacteroidaceae      | family | High  | 815         | Prevotella                       | genus   | High  | 838         |
| Catabacteriaceae    | family | Low   | 424536      | Propionibacterium                | genus   | High  | 1743        |
| Clostridiaceae      | family | High  | 31979       | Pseudobutyrvibrio                | genus   | Low   | 46205       |
| Enterobacteriaceae  | family | High  | 543         | Pseudoflavonifractor             | genus   | High  | 1017280     |
| Enterococcaceae     | family | High  | 81852       | Pseudomonas                      | genus   | Low   | 286         |
| Lachnospiraceae     | family | Low   | 186803      | Rhodococcus                      | genus   | High  | 1827        |
| Lactobacillaceae    | family | Low   | 33958       | Rhodococcus                      | genus   | High  | 1661425     |
| Porphyromonadaceae  | family | High  | 171551      | Roseburia                        | genus   | Low   | 841         |
| Rikenellaceae       | family | Low   | 171550      | Rothia                           | genus   | High  | 508215      |
| Ruminococcaceae     | family | Low   | 541000      | Ruminococcus                     | genus   | Low   | 1263        |
| Bacteroides         | genus  | High  | 816         | Shigella                         | genus   | High  | 620         |
| Bifidobacterium     | genus  | Low   | 1678        | Streptococcus                    | genus   | High  | 1301        |
| Bilophila           | genus  | High  | 35832       | Succinivibrio                    | genus   | High  | 83770       |
| Campylobacter       | genus  | High  | 194         | Veillonella                      | genus   | High  | 29465       |
| Clostridium         | genus  | High  | 1485        | Enterobacterales                 | order   | High  | 91347       |
| Coprobacter         | genus  | Low   | 1348911     | Eubacteriales                    | order   | Low   | 186802      |
| Coprococcus         | genus  | High  | 33042       | Lactobacillales                  | order   | High  | 186826      |
| Cryptococcus        | genus  | High  | 5206        | Actinomyces massiliensis         | species | High  | 461393      |
| Desulfovibrio       | genus  | Low   | 872         | Bacteroides fragilis             | species | High  | 817         |
| Dialister           | genus  | Low   | 39948       | Brevibacterium casei             | species | High  | 33889       |
| Eggerthella         | genus  | High  | 84111       | Burkholderia pseudomallei        | species | High  | 28450       |
| Eisenbergiella      | genus  | Low   | 1432051     | Candida albicans                 | species | High  | 5476        |
| Enterococcus        | genus  | High  | 1350        | Clostridium sp.                  | species | High  | 1506        |
| Escherichia         | genus  | High  | 561         | Corynebacterium sp.              | species | High  | 1720        |
| Eubacterium         | genus  | High  | 1730        | Intestinimonas butyriciproducens | species | High  | 1297617     |
| Ezakiella           | genus  | Low   | 1582879     | Klebsiella oxytoca               | species | High  | 571         |
| Faecalibacterium    | genus  | Low   | 216851      | Lacrimispora saccharolytica      | species | Low   | 84030       |
| Flavonifractor      | genus  | High  | 946234      | Lacrimispora xylanisolvans       | species | Low   | 384636      |
| Fusobacterium       | genus  | High  | 848         | Lactobacillus johnsonii          | species | Low   | 33959       |
| Gemmiger            | genus  | Low   | 204475      | Lancefieldella rimae             | species | High  | 1383        |
| Klebsiella          | genus  | High  | 570         | Mediterraneibacter gnavus        | species | High  | 33038       |
| Lachnospira         | genus  | Low   | 28050       | Ruminiclostridium cellulolyticum | species | Low   | 1521        |
| Lactobacillus       | genus  | Low   | 1578        | Shuttleworthella satelles        | species | High  | 177972      |
| Megasphaera         | genus  | High  | 906         | Staphylococcus aureus            | species | High  | 1280        |
| Mycobacterium       | genus  | High  | 1763        | Staphylococcus epidermidis       | species | High  | 1282        |
|                     |        |       |             | Ureaplasma urealyticum           | species | High  | 2130        |

## 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.

Antibiotics annotated with [CFS] have been used with various degree of success with Myalgic Encephalomyelitis, Chronic Fatigue Syndrome, Chronic Lyme, Chronic Q-Fever and Long COVID conditions. Rotation of antibiotics with 3 weeks off between courses is recommended.

Ethyl alcohol {Grain alcohol}

**Ferrum {Iron Supplements}** 400 mg/day

High-protein diet {Atkins low-carbohydrate diet}

ketogenic diet

**macrolide ()**

N-(phosphonomethyl)glycine {glyphosate}

Nitrogen Oxide x Particulate Matter {Urban air pollutant}

proton-pump inhibitors (prescription) 60 mg/day

**Pulvis ledebouriellae compositae {Bofutsushosan}**

Sucralose {Splenda} 340 mg/day

Tobacco consumption {Smoking}

**Tributyrin**

## 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->1)-beta-D-fructofuranan {Inulin}                         | Honey {Honey }                                             |
| 3,3',4',5,7-pentahydroxyflavone {Quercetin}                  | Hordeum vulgare {Barley}                                   |
| allium sativum {garlic}                                      | imipenem                                                   |
| amoxicillin [CFS]                                            | Lactacaseibacillus casei {L. casei}                        |
| ampicillin [CFS]                                             | Lactacaseibacillus paracasei {L.paracasei}                 |
| Azadirachta indica {Neem}                                    | lactobacillus acidophilus {L. acidophilus}                 |
| bacillus                                                     | Lactobacillus plantarum {L. plantarum}                     |
| bacillus subtilis {B.Subtilis }                              | lactobacillus rhamnosus gg,bifidobacterium animalis lactis |
| bacillus,lactobacillus,streptococcus,saccharomyces probiotic | ,lactobacillus paracasei {cvs maximum strength probiotic}  |
| benzylpenicillin sodium (antibiotic)                         | Limosilactobacillus fermentum {L. fermentum}               |
| Bifidobacterium animalis subsp. lactis {B. Lactis}           | Limosilactobacillus reuteri {L. Reuteri}                   |
| bifidobacterium longum {B.Longum }                           | meropenem                                                  |
| Cinnamomum zeylanicum {Ceylon Cinnamon}                      | Moringa Oleifera                                           |
| ciprofloxacin [CFS]                                          | oligosaccharides {oligosaccharides}                        |
| clindamycin [CFS]                                            | origanum vulgare {oregano}                                 |
| Curcuma longa {Turmeric}                                     | piperacillin-tazobactam                                    |
| dietary fiber                                                | Propolis {Bee glue}                                        |
| Diferuloylmethane {Curcumin}                                 | Punica granatum {pomegranate}                              |
| Fiber, total dietary                                         | rosmarinus officinalis {rosemary}                          |
| fruit                                                        | Slow digestible carbohydrates. {Low Glycemic}              |
| fruit/legume fibre                                           | Thymus vulgaris {thyme}                                    |
| gentamicin                                                   | vancomycin (antibiotic)[CFS]                               |
| green tea                                                    | whole-grain diet                                           |
|                                                              | yogurt                                                     |
|                                                              | Zingiber officinale Roscoe {ginger}                        |

## Sample of Literature Used

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Hypoxia  
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neuropathic pain  
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Psoriasis  
rheumatoid arthritis (RA),Spondyloarthritis (SpA)  
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