

Gut Microbiota

Our gut is home for **trillions of microorganisms** including at least **1000 species of known bacteria**. Rather than being harmful, the microbiota is an organ by itself with an extensive metabolic capability. Research has put forward its importance for **health maintenance** and protection against diseases.

Bacterial diversity and abundance vary across life stages



There is more than **100 000 000 000 000** microorganisms in the gut

Other factors include:

- Geographical location
- Eating patterns
- Intestinal diseases
- Medication
- Smoking

What it does?

- Communicates with the brain in a bidirectional way
- Regulation of food intake and gut response to stressors
- Ferments complex carbohydrates (mostly fibres)
- Production of short chain fatty acids, used for energy and bacterial growth
- Metabolizes some drugs and antioxidants
- Protection of cells against oxidative damage
- Produces some vitamins (such as B12 and folate)
- Support of health status
- Regulates gastrointestinal function
- Facilitator of intestinal motility
- Develops and regulates the immune system
- Improvement of overall health
- Protects against pathogens
- Prevention of gut-related illness

How to improve?

- Probiotics (supplements or fermented foods)
- Prebiotics (fiber-rich foods and human milk)
- Diet diversity (focus on whole foods)
- Regular exercise
- Reduced stress
- Cut back on artificial sweeteners

Your microbiota is as unique as you are! Take care of it!

Aim for **50 grams of fibers** per day

We love beans and legumes!

And what about giving kimchi and kefir a try?

Do as I do, breastfeed your baby!

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