THE BIG BREAKUP OF Lactobacillus Scientists re-classify one genus into twenty-five genera

twenty-five genera

New names for some prominent Lactobacillus probiotic species

Former name	New name
Lactobacillus casei	Lacticaseibacillus casei
Lactobacillus paracasei	Lacticaseibacillus paracasei
Lactobacillus rhamnosus	Lacticaseibacillus rhamnosus
Lactobacillus plantarum	Lactiplantibacillus plantarum
Lactobacillus brevis	Levilactobacillus brevis
Lactobacillus salivarius	Ligilactobacillus salivarius
Lactobacillus fermentum	Limosilactobacillus fermentum
Lactobacillus reuteri	Limosilactobacillus reuteri

These probiotic Lactobacillus have not changed names:

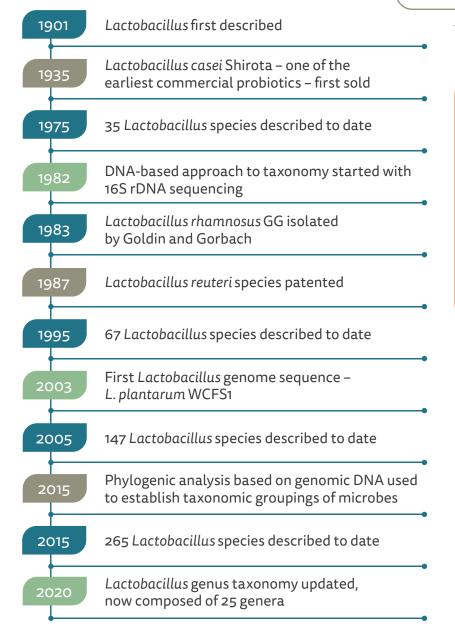
- Lactobacillus acidophilus
- Lactobacillus delbrueckii subsp. bulgaricus (aka Lactobacillus bulgaricus)
- Lactobacillus crispatus
- Lactobacillus gasseri
- Lactobacillus johnsonii
- Lactobacillus helveticus

All new genera proposed for this group begin with the letter "L", so the abbreviated form of genus/species such as L. rhamnosus - remain unchanged.

Species names and strain designations have not changed.

The new groupings may facilitate our understanding of common mechanisms that could mediate probiotic health benefits, because species that are more closely related (and therefore are more likely to share physiological traits) are grouped under the same genus.

Lactobacillus timeline



You can find new Lactobacillus names easily here: http://lactobacillus.uantwerpen.be

What do the changes mean for scientists?

- New publications on Lactobacillus strains should use the new genus names. You may need to provide a brief explanation of the changes to editors or reviewers.
- When searching the scientific literature for a specific strain, it may be necessary to search under both the old genus name and the new genus name.

These Lactobacillus taxonomic changes are described in the following scientific paper: Zheng et al. 2020. A taxonomic note on the genus Lactobacillus: Description of 23 novel genera, emended description of the genus Lactobacillus Beijerink 1901, and union of Lactobacillaceae and Leuconostocaceae. IISEM. https://doi.org/10.1099/ijsem.0.004107



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