

Pillotina corrugata sp. nov., Hollandina grandis sp. nov. and Hollandinoides gharagozlouae gen. nov. sp. nov.

Submitted by Treitli, Sebastian Cristian

Genus *Hollandinoides*

Etymology

[Ho.lan.di.no.i'des] **N.L. fem. n.** *Hollandina*, a genus of spirochetes; **L. neut. adj. suff. -oides**, resembling; **N.L. neut. n.** *Hollandinoides*, a *Hollandina*-like genus

Nomenclatural type

Species *Hollandinoides gharagozlouae*^{Ts}

Description

Large helical cells that colonize the hindgut of the termite *Reticulitermes flavipes*. They can be detected with the 16S rRNA-targeted oligonucleotide probe Rf-HoD1-990 (5'-GGCTCCCCACTATGTCAA-3'). The type genome is from the hindgut of the termite *Reticulitermes flavipes*.

Classification

Bacteria » *Spirochaetota* » *Spirochaetia* » *Spirochaetales* » "Breznakiellaceae" » *Hollandinoides*

References

Effective publication: Treitli et al., 2026 [1]

Registry URL

<https://seqco.de/i:54983>

Species *Hollandina grandis*

Etymology

[gran'dis] **L. fem. adj.** *grandis*, large

Nomenclatural type

[NCBI Assembly: GCA_054669045.1](#)^{Ts}

Description

Helical cells are rounded to oblong in cross sections, with a diameter of 0.5–0.7 μm at the widest point. The length varies between 30 and 80 μm. Approx. 70–80 periplasmic flagella. The rounded protoplasmic cylinder is 0.4–0.5 μm in diameter. Members of this species colonize the hindgut of the genus *Incisitermes*. They can be detected with the 16S rRNA-targeted oligonucleotide probe It-Ho1-183 (5'-CCATGCCACAGCACGATAAG-3'). The type genome is from the hindgut of the termite *Incisitermes tabogae*.

Includes all genomes that show ≥95% average nucleotide identity (ANI) to the type genome. The type genome has an estimated size of 3.72 Mbp and a GC content of 49.1 mol%.

Classification

Bacteria » *Spirochaetota* » *Spirochaetia* » *Spirochaetales* » *Spirochaetaceae* » *Hollandina* » *Hollandina grandis*

References

Effective publication: Treitli et al., 2026 [1]

Registry URL

<https://seqco.de/i:51495>

Species *Hollandinoides gharagozlouae*^{Ts}

Etymology

[gha.ra.goz.lou'ae] **N.L. gen. n.** *gharagozlouae*, of Gharagozlou, in honor of Iran Dokht Gharagozlou, an Iranian/French structural biologist

Nomenclatural type

[NCBI Assembly: GCA_054965555.1](#)^{Ts}

Description

Large helical cells that colonize the hindgut of the termite *Reticulitermes flavipes*. They can be detected with the 16S rRNA-targeted oligonucleotide probe Rf-HoID1-990 (5'-GGCTTCCCCACTATGTCAA-3'). The type genome is from the hindgut of the termite *Reticulitermes flavipes*.

Classification

Bacteria » *Spirochaetota* » *Spirochaetia* » *Spirochaetales* » "Breznakiellaceae" » *Hollandinoides* » *Hollandinoides gharagozlouae*^{Ts}

References

Effective publication: Treitli et al., 2026 [1]

Registry URL

<https://seqco.de/i:54982>

Species *Pillotina corrugata*

Etymology

[cor.ru.ga'ta] **L. fem. part. adj.** *corrugata*, wrinkled, corrugated

Nomenclatural type

[NCBI Assembly: GCA_054669185.1](#)^{Ts}

Description

Helical cells are 0.9–1.2 µm in diameter, with 26–30 parallel ridges. The length varies between 40 and 90 µm. Approx. 70–100 periplasmic flagella. The protoplasmic cylinder is 0.4–0.5 µm in diameter. Members of this species colonize the hindgut of the genus *Kaloterme*s. They can be detected with the 16S rRNA-targeted oligonucleotide probe Kf-Pil-1449 (5'-GCAGCGCCCTCCTTTTACAA-3'). The type genome is from *Kaloterme*s *flavicollis*.

Includes all genomes that show ≥95% average nucleotide identity (ANI) to the type genome. The type genome has an estimated genome size of 3.14 Mbp and a GC content of 43.2 mol%.

Classification

Bacteria » *Spirochaetota* » *Spirochaetia* » *Spirochaetales* » *Spirochaetaceae* » *Pillotina* » *Pillotina corrugata*

References

Effective publication: Treitli et al., 2026 [1]

Registry URL

<https://seqco.de/i:51288>

References

1. Treitli et al. (2026). Metabolic capacities of large "pillotinaceous" spirochetes from termite guts and their placement among Breznakiellaceae. *BMC Biology*. [DOI:10.1186/s12915-026-02591-x](https://doi.org/10.1186/s12915-026-02591-x)

Register List Certificate of Validation

On behalf of the *Committee on the Systematics of Prokaryotes Described from Sequence Data* (SeqCode Committee), we hereby certify that the Register List **seqco.de/r:udhxf-g0** submitted by **Treitli, Sebastian Cristian** and including 4 new names has been successfully validated.

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