

Genus *Brotaphodocola*

Etymology

[Brot.a.pho.do.co.la] N.L. masc. n. *Brotaphodocola*, a microbe from the faeces of humans

Nomenclatural type

Species *Brotaphodocola catenula*^T

Description

The closest species to this genus based on 16S rRNA gene sequence comparison was *Clostridium fessum* (94.25%) and *Lacrimispora amygdalina* (94.20%). GTDB-Tk assigned the genome as an unknown species within genus 'UBA9502' (family *Lachnospiraceae*). None of the close relatives had ANI values above 95% to the isolate. Whilst the genome tree analysis placed the isolate next to *Hungatella hathewayi*, the POCP value to this species was only 40.5%. A similar value (40.4%) was also calculated to *H. effluvii* (the type species of the genus *Hungatella*), confirming the novel genus status of this isolate within family *Lachnospiraceae*. Note that both *H. effluvii* and *C. fessum* are assigned within the family *Clostridiaceae* in LPSN. However, our genome tree and the recent publication by Haas and Blanchard (2020) placed *Hungatella* spp. within family *Lachnospiraceae*. The type species is *Brotaphodocola catenula*.

Classification

Bacteria » *Bacillota* » *Clostridia* » *Eubacteriales* » *Lachnospiraceae* » *Brotaphodocola*

Registry URL

<https://seqco.de/i:23487>