Species *Bostrichidicola ureolyticus*[Ts]

Etymology

[u.re.o.ly'ti.cus] **Gr. pref.** *ureo-*, indicating a relationship with urine; **N.L. masc. adj.** *lyticus*, able to break down or dissolve; **N.L. masc. adj.** *ureolyticus*, bacterium able to break down or dissolve urea

Nomenclatural type

NCBI Assembly: GCA_029851125.1 [Ts]

Description

Bostrichicola ureolyticus" is a taxonomic designation proposed for the second coobligate endosymbiont identified in Bostrichidae beetles of the subfamily Dinoderinae and Lyctinae. The genus name, "Bostrichicola," signifies its association with Bostrichid beetles, specifically those within the Dinoderinae and Lyctinae subfamilies. The species name, "ureolyticus," reflects its metabolic potential to recycle nitrogen from urea, as indicated by genomic data.

This taxonomic assignment conveys both the ecological association of the endosymbiont with Bostrichid beetles and its functional role in nitrogen recycling through ureolysis. In line with a systematic naming convention inspired by "Shikimatogenerans," a four-letter abbreviation representing the host species is proposed for strain identification. For instance, "B. ureolyticus LBRU" denotes the Bostrichicola endosymbiont found in Lyctus brunneus, highlighting the specificity of the strain associated with particular host species within the Bostrichidae family.

Classification

Bacteria » *Bacteroidota* » *Flavobacteriia* » *Flavobacteriales* » *Flavobacteriaceae* » *Bostrichidicola* » *Bostrichidicola ureolyticus*[Ts]

References

Effective publication: Kiefer et al., 2023 [1]
Assigned taxonomically: Kiefer et al., 2023 [1]

Registry URL

https://seqco.de/i:32945

References

1. Kiefer et al. (2023). Cuticle supplementation and nitrogen recycling by a dual bacterial symbiosis in a family of xylophagous beetles. *The ISME Journal*. DOI:10.1038/s41396-023-01415-y