Amyloruptor caecigallinarum gen. nov. sp. nov.

Submitted by Nguyen, Huong

Genus *Amyloruptor*

Etymology
[A.my.lo.rup'tor] **Gr. neut. n.** *amylon*, starch; **L. masc. n.** *ruptor*, breaker; **N.L. masc. n.** *Amyloruptor*, starch breaker

Nomenclatural type
Species *Amyloruptor caecigallinarum*[Ts]

Description
"*Amyloruptor*" (originally published as "Amulumruptor", but corrected by Oren & Garrity (2021)) is proposed as a novel genus within the family *Muribaculaceae* based on 89% 16S rRNA gene identity to its closest relative, *Muribaculum intestinale* YL27, which is below the widely accepted 94.5% cut-off for a novel genus. ANI results showed 76.11% to *M. intestinale* and 79.98% to *Barnesiella viscericola*. The genus name reflects the amylase-degrading features predicted for the bacterium. (Hinsu et al., 2019)

Classification
Bacteria » *Bacteroidota* » *Bacteroidia* » *Bacteroidales* » *Muribaculaceae* » *Amyloruptor*

References
Effective publication: Hinsu et al., 2019 [1]
Corrigendum: Oren, Garrity, 2021 [2] (from “Amulumruptor”)

Registry URL
https://seqco.de/i:39204

Species *Amyloruptor caecigallinarum*[Ts]

Etymology
[cae.ci.gal.li.na'rum] **L. neut. n.** *caecum*, caecum; **L. fem. n.** *gallina*, hen; **N.L. pl. gen. n.** *caecigallinarum*, of the caecum of poultry

Nomenclatural type
Genome sc|0006292 [Ts]

Description
Hinsu et al. (2019): The bacterium belongs to a novel genus within the *Muribaculaceae* family. We propose the name Candidatus *Amulumruptor caecigallinarius* (L. amulum: starch; ruptor: breaker; amulumruptor: starch-breaker; caeca: caecum; gallinarius: of a poultry; caecigallinarius: from the caecum of poultry) for this genome. The name is assigned based on the predicted ability of the organism to digest starch. It is represented by a composite genome (GenBank acc. no. PXWE01000000) obtained from the metagenome of caecum of chicken. The name was later corrected to *Amyloruptor caecigallinarum* by Oren & Garrity (2021).

Classification
Bacteria » *Bacteroidota* » *Bacteroidia* » *Bacteroidales* » *Muribaculaceae* » *Amyloruptor* » *Amyloruptor caecigallinarum*[Ts]

References
Effective publication: Hinsu et al., 2019 [1]
Corrigendum: Oren, Garrity, 2021 [2] (from “Amulumruptor caecigallinarius”)

Registry URL
https://seqco.de/i:41812

References

1. Hinsu et al. (2019). Genome reconstruction of a novel carbohydrate digesting bacterium from the chicken caecal microflora. *Meta Gene*. DOI: 10.1016/j.mgene.2019.01.002
2. Oren, Garrity (2021). Candidatus List No. 2. Lists of names of prokaryotic Candidatus taxa. *International Journal of Systematic and Evolutionary Microbiology*. DOI: 10.1099/ijsem.0.004671

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:wpcau2w5** submitted by **Nguyen, Huong** and including 2 new names has been successfully validated.

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