

Register list for 5 new names including **Bdellonasia class. nov, Bdellonasaales ord. nov, Bdellonasaceae fam. nov., Bdellonasus gen. nov and Bdellonasus magneticus sp. nov**

Submitted by Monteil, Caroline L.

Class *Bdellonasia*

Etymology

[Bdel.lo.na'si.a] **N.L. masc. n.** *Bdellonasus*, the type genus of the class; **L. neut. pl. suff. -ia**, ending to denote a class; **N.L. neut. pl. n.** *Bdellonasia*, the Bdellonasus class

Nomenclatural type

Genus *Bdellonasus*

Description

The type genus of the class is *Bdellonasus*.

Classification

Bacteria » *Bdellovibrionota* » *Bdellonasia*

References

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

Registry URL

<https://seqco.de/i:51324>

Order *Bdellonasaales*

Etymology

[Bdel.lo.na.sa'les] **N.L. masc. n.** *Bdellonasus*, the type genus of the order; **L. fem. pl. suff. -ales**, ending to denote an order; **N.L. fem. pl. n.** *Bdellonasaales*, the Bdellonasus order

Nomenclatural type

Genus *Bdellonasus*

Description

The type genus of the order is *Bdellonasus*.

Classification

Bacteria » *Bdellovibrionota* » *Bdellonasia* » *Bdellonasaales*

References

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

Registry URL

<https://seqco.de/i:51325>

Family *Bdellonasaceae*

Etymology

[Bdel.lo.na.sa'ce.ae] **N.L. masc. n.** *Bdellonasus*, the type genus of the family; **L. fem. pl. suff.** *-aceae*, ending to denote a family; **N.L. fem. pl. n.** *Bdellonasaceae*, the *Bdellonasus* family

Nomenclatural type

Genus *Bdellonasus*

Description

The type genus of the family is *Bdellonasus*.

Classification

Bacteria » *Bdellovibrionota* » *Bdellonasia* » *Bdellonales* » *Bdellonasaceae*

References

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

Registry URL

<https://seqco.de/i:51326>

Genus *Bdellonasus*

Etymology

[Bdel.lo.na'sus] **Gr. fem. n.** *bdella*, leech, used here as a reference to the phylum *Bdellovibrionota*, to which the organism belongs; **L. masc. n.** *nasus*, nose; **N.L. masc. n.** *Bdellonasus*, a bacterium of *Bdellovibrionota* with a prominent anterior protrusion (“nose”) at the cell tip

Nomenclatural type

Species *Bdellonasus magneticus*^{Ts}

Description

The genus description is the same as that of the type species, *Bdellonasus magneticus*.

Classification

Bacteria » *Bdellovibrionota* » *Bdellonasia* » *Bdellonales* » *Bdellonasaceae* » *Bdellonasus*

References

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

Registry URL

<https://seqco.de/i:51327>

Species *Bdellonasus magneticus*^{Ts}

Etymology

[mag.ne'ti.cus] **L. masc. adj.** *magneticus*, magnetic, referring to the presence of magnetosomes

Nomenclatural type

[NCBI Assembly: GCA_051382295.1](#)^{Ts}

Description

Bdellonasus magneticus cells are vibrioid with an approximative length and width of 1.45 µm and 0.40 µm, respectively. They produce a single polar ~53.2 nm thick flagellum and are characterized by the presence of a 200-300 nm-long a sharp, asymmetrical and elongated anterior pole, bottleneck-shaped. Cells are magnetotactic and produce a single chain of approximately 5 bullet-shaped magnetite particles ~70 nm long. The genome of this species possesses a gene coding for an aerobic carbon monoxide dehydrogenase, a formate dehydrogenase, and genes involved in aerobic respiration as well as in possible iron reduction. They are heterotrophs and have a Kil system involved in predation.

Classification

Bacteria » *Bdellovibrionota* » *Bdellonasia* » *Bdellonales* » *Bdellonaceae* » *Bdellonasus* » *Bdellonasus magneticus*^{Ss}

References

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

Registry URL

<https://seqco.de/i:51323>

References

1. Bergot et al. (2026). Magnetotactic *Bdellovibrionota* from a ferruginous spring. *ISME Communications*. DOI:10.1093/ismeco/ycag116

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:0m3zv347** submitted by **Monteil, Caroline L.** and including 5 new names has been successfully validated.

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