Register list for 5 new names including Bdellonasia class. nov, Bdellonasales 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 *Bdellonasales*

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.** *Bdellonasales*, the Bdellonasus order

Nomenclatural type
Genus *Bdellonasus*

Description
The type genus of the order is *Bdellonasus.*

Classification
Bacteria » *Bdellovibrionota* » *Bdellonasia* » *Bdellonasales*

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* » *Bdellonasales* » *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* » *Bdellonasales* » *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, bottlenose-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* » *Bdellonasales* » *Bdellonasaceae* » *Bdellonasus* » *Bdellonasus magneticus*[Ts]

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.

Date of Priority: 2026-04-26 01:56 UTC
DOI: 10.57973/seqcode.r:0m3zv347