

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

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**Table 1:** Complete list of names proposed in the current register list.

Proposed Taxon	Etymology	Description	Parent Taxon	Type	Registry URL
Class <i>Bdellonasia</i>	[Bdel.lo.na'si.a] <b>N.L. masc. n.</b> <i>Bdellonasus</i> , the type genus of the class; <b>L. neut. pl. suff.</b> - <i>ia</i> , ending to denote a class; <b>N.L. neut. pl. n.</b> <i>Bdellonasia</i> , the <i>Bdellonasus</i> class	The type genus of the class is <i>Bdellonasus</i> .	<i>Bdellovibrionota</i>	<i>Bdellonasus</i>	<a href="https://seqco.de/i:51324">seqco.de/i:51324</a>
Order <i>Bdellonasa</i> les	[Bdel.lo.na.sa'les] <b>N.L. masc. n.</b> <i>Bdellonasus</i> , the type genus of the order; <b>L. fem. pl. suff.</b> - <i>ales</i> , ending to denote an order; <b>N.L. fem. pl. n.</b> <i>Bdellonasa</i> les, the <i>Bdellonasus</i> order	The type genus of the order is <i>Bdellonasus</i> .	<i>Bdellonasia</i>	<i>Bdellonasus</i>	<a href="https://seqco.de/i:51325">seqco.de/i:51325</a>
Family <i>Bdellonasaceae</i>	[Bdel.lo.na.sa'ce.ae] <b>N.L. masc. n.</b> <i>Bdellonasus</i> , the type genus of the family; <b>L. fem. pl. suff.</b> - <i>aceae</i> , ending to denote a family; <b>N.L. fem. pl. n.</b> <i>Bdellonasaceae</i> , the <i>Bdellonasus</i> family	The type genus of the family is <i>Bdellonasus</i> .	<i>Bdellonasa</i> les	<i>Bdellonasus</i>	<a href="https://seqco.de/i:51326">seqco.de/i:51326</a>
	[Bdel.lo.na'sus] <b>Gr. fem. n.</b> <i>bdella</i> , leech, used here as a reference to the phylum <i>Bdellovibrionota</i> , to which the organism belongs; <b>L. masc. n.</b>	The genus description is the same as that of the			

Genus <i>Bdellonasus</i> <b>Proposed Taxon</b>	<i>nasus</i> , nose; <b>N.L. masc.</b> <b>n. <i>Bdellonasus</i></b> <b>Etymology</b> bacterium of	type species, <i>Bdellonasus magneticus</i> . <b>Description</b>	<i>Bdellonasaceae</i> <b>Parent Taxon</b>	<i>Bdellonasus magneticus</i> <b>Type</b> <sup>Ts</sup>	<a href="http://seqco.de/i:51327">seqco.de/i:51327</a> <b>Registry URL</b>
	Bdellovibrionota with a prominent anterior protrusion ("nose") at the cell tip				
Species <i>Bdellonasus magneticus</i> <sup>Ts</sup>	[mag.ne'ti.cus] <b>L. masc. adj. <i>magneticus</i></b> , magnetic, referring to the presence of magnetosomes	<i>Bdellonasus magneticus</i> 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.	<i>Bdellonasus</i>	NCBI Assembly: GCA_051382295.1 <sup>Ts</sup>	<a href="http://seqco.de/i:51323">seqco.de/i:51323</a>