

Register list for 7 new names including Azoamicales ord. 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
Order <i>Azoamicales</i>	[A.zo.a.mi.ca'les] N.L. masc. n. <i>Azoamicus</i> , referring to the type genus <i>Azoamicus</i> ; -ales, ending to denote an order; N.L. fem. pl. n. <i>Azoamicales</i> , the <i>Azoamicus</i> order	' <i>Candidatus Azoamicales</i> ' (A.zo.a.mi.ca.les. N.L. masc. n. <i>Azoamicus</i> . type genus of the order; N.L. suff. -ales to denote an order; N.L. masc. pl. n. <i>Azoamicales</i> , the order of the genus <i>Azoamicus</i>). A bacterial order identified by metagenomic analyses and delineated according to Relative Evolutionary Distance by the Genome Taxonomy Database (GTDB). Phylogenetic analyses in this work have shown that the previously published ' <i>Candidatus Azoamicus ciliaticola</i> ' is assigned to an uncharacterized order with provisional designation UBA6186. Consequently, we propose to rename the UBA6186 order to ' <i>Candidatus Azoamicales</i> '. the type genus of the order is ' <i>Candidatus Azoamicus</i> '. The order is assigned to the class Gammaproteobacteria.	<i>Gammaproteobacteria</i>	<i>Azoamicus</i>	seqco.de/i:49082
Family <i>Azoamicaceae</i>	[A.zo.a.mi.ca'ce.ae] N.L. masc. n. <i>Azoamicus</i> , referring to the type genus <i>Azoamicus</i> ; -aceae, ending to denote a family; N.L. fem. pl. n. <i>Azoamicaceae</i> , the <i>Azoamicus</i> family	The description of the family ' <i>Candidatus Azoamicaceae</i> ' is the same as that of the genus ' <i>Candidatus Azoamicus</i> '. The type genus is ' <i>Candidatus Azoamicus</i> '.	<i>Azoamicales</i>	<i>Azoamicus</i>	seqco.de/i:49081
Genus <i>Azosocius</i>	[A.zo.so.ci'us] N.L. pref. azo- , pertaining to nitrogen; L. masc. n. <i>socius</i> , associate; N.L. masc. n. <i>Azosocius</i> , associate that pertains to nitrogen	A bacterial genus identified by metagenomic analyses and delineated according to Relative Evolutionary Distance by the Genome Taxonomy Database (GTDB). The type species of the genus is ' <i>Candidatus Azosocius agrarius</i> '.	<i>Azoamicaceae</i>	<i>Azosocius agrarius</i> ^{TS}	seqco.de/i:49077

Proposed Taxon	Etymology	Description	Parent Taxon	Type	Registry URL
Species <i>Azosocius aquiferis</i>	[a.qui.fe'ris] N.L. gen. n. aquiferis , of an aquifer	<i>Azosocius aquiferis</i> (N.L. gen. masc. n. aquiferis, of an aquifer). A bacterial species identified by metagenomic analyses. This species includes all bacteria with genomes that show $\geq 95\%$ average nucleotide identity to the type genome for the species to which is available via NCBI BioSample SAMN39831648 and NCBI GenBank accession GCA_043390185.1 .	<i>Azosocius</i>	NCBI Assembly: GCA_043390185.1 Ts	seqco.de/i:49080
Species <i>Azoamicus viridis</i>	[vi.ri'dis] L. gen. n. viridis , pertaining to green, in reference to Greene county, where the sample containing the species was taken	' <i>Candidatus Azoamicus soli</i> ' (L. masc. n. soli, of the earth). A bacterial species identified by metagenomic analyses. This species includes all bacteria with genomes that show $\geq 95\%$ average nucleotide identity to the type genome for the species to which is available via NCBI BioSample SAMN39831885 and NCBI GenBank accession GCA_043390165.1	<i>Azoamicus</i>	NCBI Assembly: GCA_043390165.1 Ts	seqco.de/i:49076
Species <i>Azosocius agrarius</i> ^{Ts}	[a.gra.ri'us] L. masc. adj. agrarius , of the land or field	' <i>Azosocius agrarius</i> ' (L. masc. adj. agrarius, of the soil). A bacterial species identified by metagenomic analyses. This species includes all bacteria with genomes that show $\geq 95\%$ average nucleotide identity to the type genome for the species to which is available via NCBI BioSample SAMN15435421 and NCBI GenBank accession GCA_016432505.1.	<i>Azosocius</i>	NCBI Assembly: GCA_016432505.1 Ts	seqco.de/i:49078
Species <i>Azoamicus soli</i>	[so'li] L. gen. n. soli , of soil	<i>Azoamicus soli</i> (L. masc. n. soli, of the earth). A bacterial species identified by metagenomic analyses. This species includes all bacteria with genomes that show $\geq 95\%$ average nucleotide identity to the type genome for the species to which is available via NCBI BioSample SAMN39831885 and NCBI GenBank accession GCA_043390205.1	<i>Azoamicus</i>	NCBI Assembly: GCA_043390205.1 Ts	seqco.de/i:49079