

Register list for *Polarisedimenticola svalbardensis* gen. nov. sp. nov. and their lineage

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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>Polarisedimenticola</i>	N.L. masc. n. <i>Polarisedimenticola</i> , the type genus of the class; L. neut. pl. suff. -ia , ending to denote a class; N.L. neut. pl. n. <i>Polarisedimenticola</i> , the <i>Polarisedimenticola</i> class	<i>Polarisedimenticola</i> was previously known as GTDB class Mor1 or Acidobacteria subdivision 22. The type genus of this class is <i>Polarisedimenticola</i> , which was predicted to be a facultative or aerotolerant anaerobe that degrades proteins and respire oxygen, nitrate, sulfur/polysulfide or metal-oxides based on genome analysis.	<i>Acidobacteriota</i>	<i>Polarisedimenticola</i>	seqco.de/i:23543
Order <i>Polarisedimenticolales</i>	N.L. masc. n. <i>Polarisedimenticola</i> , the type genus of the order; L. fem. pl. suff. -ales , ending to denote an order; N.L. fem. pl. n. <i>Polarisedimenticolales</i> , the <i>Polarisedimenticola</i> order	<i>Polarisedimenticolales</i> was previously known as GTDB order Mor1. The type genus of this order is <i>Polarisedimenticola</i> , which was predicted to be a facultative or aerotolerant anaerobe that degrades proteins and respire oxygen, nitrate, sulfur/polysulfide or metal-oxides based on genome analysis.	<i>Polarisedimenticola</i>	<i>Polarisedimenticola</i>	seqco.de/i:23542
Family <i>Polarisedimenticolaceae</i>	N.L. masc. n. <i>Polarisedimenticola</i> , the type genus of the family; L. fem. pl. suff. -aceae , ending to denote a family; N.L. fem. pl. n.	<i>Polarisedimenticolaceae</i> was previously known as GTDB family Mor1. The type genus of this family is <i>Polarisedimenticola</i> , which was predicted to be a facultative or aerotolerant anaerobe that	<i>Polarisedimenticolales</i>	<i>Polarisedimenticola</i>	seqco.de/i:23541

Proposed Taxon	Etymology	Description	Parent Taxon	Type	Registry URL
	<i>Polarisedimenticolaceae</i> , the <i>Polarisedimenticola</i> family	degrades proteins and respire oxygen, nitrate, sulfur/polysulfide or metal-oxides based on genome analysis.			
Genus <i>Polarisedimenticola</i>	[Po.la.ri.se.di.men.ti'co.la.] L. masc. adj. <i>polaris</i> , polar; L. neut. n. <i>sedimentum</i> , sediment; L. masc. suff. <i>-cola</i> , inhabitant, dweller; N.L. masc. n. <i>Polarisedimenticola</i> , an inhabitant of polar sediments	The genus description is the same as that of the type species, <i>Polarisedimenticola svalbardensis</i> .	<i>Polarisedimenticolaceae</i>	<i>Polarisedimenticola svalbardensis</i> ^{Ts}	seqco.de/i:23540
Species <i>Polarisedimenticola svalbardensis</i> ^{Ts}	[sval.bar.den'sis.] N.L. masc. adj. <i>svalbardensis</i> , pertaining to Svalbard	<i>Polarisedimenticola svalbardensis</i> MAG AM4 was recovered from marine sediment from Van Keulenfjorden, Svalbard (sampling date: July, 2016, location: latitude: 77°32.260' N longitude: 15°39.434' E, water depth: 55 m, sediment depth: 0-5 cm, sediment temperature: – 1.7°C to + 3°C). Genome-based metabolic reconstruction suggested this species is a facultative or aerotolerant anaerobe that degrades proteins and respire oxygen, nitrate, sulfur/polysulfide or metal-oxides.	<i>Polarisedimenticola</i>	NCBI Assembly: GCA_014764515.1 ^{Ts}	seqco.de/i:23539