# Register list for Arenidesulfomonas baltica 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 |
|---|---|---|---|---|---|
| Order *Arenidesulfomonadales* | [A.re.ni.de.sul.fo.mo.na.da'les] **N.L. fem. n.** *Arenidesulfomonas*, referring to the type genus *Arenidesulfomonas*; *-ales*, ending to denote an order; **N.L. fem. pl. n.** *Arenidesulfomonadales*, the *Arenidesulfomonas* order | The order *Arenidesulfomonadales* is defined based on its type family *Arenidesulfomonadaceae*. | *Thermodesulfovibrionia* | *Arenidesulfomonas* | seqco.de/i:56279 |
| Family *Arenidesulfomonadaceae* | [A.re.ni.de.sul.fo.mo.na.da'ce.ae] **N.L. fem. n.** *Arenidesulfomonas*, referring to the type genus *Arenidesulfomonas*; *-aceae*, ending to denote a family; **N.L. fem. pl. n.** *Arenidesulfomonadaceae*, the *Arenidesulfomonas* family | The family *Arenidesulfomonadaceae* is defined based on its type genus *Arenidesulfomonas*. | *Arenidesulfomonadales* | *Arenidesulfomonas* | seqco.de/i:56280 |
| Genus *Arenidesulfomonas* | [A.re.ni.de.sul.fo.mo'nas] **L. fem. n.** *arena*, sand; **N.L. pref.** *desulfo-*, desulfuricating, here referring to sulfate reduction; **L. fem. n.** *monas*, a single unit; **N.L. fem. n.** *Arenidesulfomonas*, sulfate reducer occurring in sands | The genus *Arenidesulfomonas* is defined based on its nomenclatural type *Arenidesulfomonas baltica* that is represented by a MAG from sandy sediments in the Baltic Sea involved in sulfate reduction. | *Arenidesulfomonadaceae* | *Arenidesulfomonas baltica*$^{Ts}$ | seqco.de/i:56281 |
| | | The MAG of *Arenidesulfomonas baltica* was reconstructed from sediment metagenomes from the Odra Bank in the | | | |

| Proposed Taxon | Etymology | Description | Parent Taxon | Type | Registry URL |
|---|---|---|---|---|---|
| Species *Arenidesulfomonas baltica*[Ts] | [bal.ti'ca] **N.L. fem. adj.** *baltica*, pertaining to the Baltic Sea or Baltic region | Baltic Sea (salinity 5-8 psu). Metatranscriptomic analyses showed that *Arenidesulfomonas baltica* plays a crucial role in sulfate reduction in the sandy sediments at this location. | *Arenidesulfomonas* | NCBI Assembly: GCA_985800395.1 [Ts] | segco.de/t:56278 |