

# Register list for *Lucifugimonas marina* gen. nov. sp. nov. and their lineage

Submitted by Lim, Yeonjung

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

Proposed Taxon	Etymology	Description	Parent Taxon	Type	Registry URL
Order <i>Lucifugimonadales</i>	[Lu.ci.fu.gi.mo.na.da'les] N.L. fem. n. <i>Lucifugimonas</i> , referring to the type genus <i>Lucifugimonas</i> ; <i>-ales</i> , ending to denote an order; N.L. fem. pl. n. <i>Lucifugimonadales</i> , the <i>Lucifugimonas</i> order	Aerobic, oligotrophic, and chemoheterotrophic. Gram-negative with a monoderm envelope. Cells are non-motile and dimorphic with short rods of $\sim 0.8 \times 0.4 \mu\text{m}$ and cocci of $\sim 0.5 \mu\text{m}$ diameter. Do not form colonies on solid agar plates. Grows very slowly and reaches stationary phase at $\sim 50$ days of growth in artificial seawater medium. Light inhibits cellular growth.	<i>Dehalococcoidia</i>	<i>Lucifugimonas</i>	<a href="https://seqco.de/i:44172">seqco.de/i:44172</a>
Family <i>Lucifugimonadaceae</i>	[Lu.ci.fu.gi.mo.na.da'ce.ae] N.L. fem. n. <i>Lucifugimonas</i> , referring to the type genus <i>Lucifugimonas</i> ; <i>-aceae</i> , ending to denote a family; N.L. fem. pl. n. <i>Lucifugimonadaceae</i> , the <i>Lucifugimonas</i> family	Aerobic, oligotrophic, and chemoheterotrophic. Gram-negative with a monoderm envelope. Cells are non-motile and dimorphic with short rods of $\sim 0.8 \times 0.4 \mu\text{m}$ and cocci of $\sim 0.5 \mu\text{m}$ diameter. Do not form colonies on solid agar plates. Grows very slowly and reaches stationary phase at $\sim 50$ days of growth in artificial seawater medium. Light inhibits cellular growth.	<i>Lucifugimonadales</i>	<i>Lucifugimonas</i>	<a href="https://seqco.de/i:44171">seqco.de/i:44171</a>
Genus <i>Lucifugimonas</i>	[Lu.ci.fu.gi.mo'nas] L. fem. n. <i>lucis</i> , light; L. fem. n. <i>fuga</i> , avoidance; L. fem. n. <i>monas</i> , a unit, monad; N.L. fem. n. <i>Lucifugimonas</i> , a monad that prefers dark habitats	Aerobic, oligotrophic, and chemoheterotrophic. Gram-negative with a monoderm envelope. Cells are non-motile and dimorphic with short rods of $\sim 0.8 \times 0.4 \mu\text{m}$ and cocci of $\sim 0.5 \mu\text{m}$ diameter. Do not form colonies on solid agar plates. Grows very slowly and reaches stationary phase at $\sim 50$ days of growth in artificial seawater medium. Light inhibits cellular growth.	<i>Lucifugimonadaceae</i>	<i>Lucifugimonas marina</i> <sup>Ts</sup>	<a href="https://seqco.de/i:44170">seqco.de/i:44170</a>
Species <i>Lucifugimonas marina</i> <sup>Ts</sup>	[ma.ri'na] L. fem. adj. <i>marina</i> , marine, of the sea	Aerobic, oligotrophic, and chemoheterotrophic. Gram-negative with a monoderm envelope. Cells are non-motile and dimorphic with short rods of $\sim 0.8 \times 0.4 \mu\text{m}$ and cocci of $\sim 0.5 \mu\text{m}$ diameter. Do not form colonies on solid agar plates. Grows very slowly and reaches stationary phase at $\sim 50$ days of growth in artificial seawater medium. Light inhibits cellular growth.	<i>Lucifugimonas</i>	INSDC Nucleotide: CP046146.1 <sup>Ts</sup>	<a href="https://seqco.de/i:44169">seqco.de/i:44169</a>