

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

Submitted by Lim, Yeonjung

## Order *Lucifugimonadales*

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### Etymology

[Lu.ci.fu.gi.mo.na.da'les] N.L. fem. n. *Lucifugimonas*, referring to the type genus *Lucifugimonas*; *-ales*, ending to denote an order; N.L. fem. pl. n. *Lucifugimonadales*, the *Lucifugimonas* order

### Nomenclatural type

Genus *Lucifugimonas*

### Description

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.

### Classification

*Bacteria* » *Chloroflexota* » *Dehalococcoidia* » *Lucifugimonadales*

### References

Effective publication: Lim et al., 2023 [1]

Assigned taxonomically: Lim et al., 2023 [1]

### Registry URL

<https://seqco.de/i:44172>

## Family *Lucifugimonadaceae*

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### Etymology

[Lu.ci.fu.gi.mo.na.da'ce.ae] N.L. fem. n. *Lucifugimonas*, referring to the type genus *Lucifugimonas*; *-aceae*, ending to denote a family; N.L. fem. pl. n. *Lucifugimonadaceae*, the *Lucifugimonas* family

### Nomenclatural type

Genus *Lucifugimonas*

### Description

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### Classification

*Bacteria* » *Chloroflexota* » *Dehalococcoidia* » *Lucifugimonadales* » *Lucifugimonadaceae*

### References

Effective publication: Lim et al., 2023 [1]

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### Registry URL

<https://seqco.de/i:44171>

## Genus *Lucifugimonas*

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### Etymology

[Lu.ci.fu.gi.mo'nas] L. fem. n. *lucis*, light; L. fem. n. *fuga*, avoidance; L. fem. n. *monas*, a unit, monad; N.L. fem. n. *Lucifugimonas*, a monad that prefers dark habitats

### Nomenclatural type

Species *Lucifugimonas marina*<sup>Ts</sup>

### Description

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### Classification

*Bacteria* » *Chloroflexota* » *Dehalococcoidia* » *Lucifugimonadales* » *Lucifugimonadaceae* » *Lucifugimonas*

### References

Effective publication: Lim et al., 2023 [1]

Assigned taxonomically: Lim et al., 2023 [1]

### Registry URL

<https://seqco.de/i:44170>

## Species *Lucifugimonas marina*<sup>Ts</sup>

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### Etymology

[ma.ri'na] L. fem. adj. *marina*, marine, of the sea

### Nomenclatural type

[INSDC Nucleotide: CP046146.1](#)<sup>Ts</sup>

### Reference Strain

JH545

### Description

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### Classification

*Bacteria* » *Chloroflexota* » *Dehalococcoidia* » *Lucifugimonadales* » *Lucifugimonadaceae* » *Lucifugimonas* » *Lucifugimonas marina*<sup>Ts</sup>

### References

Effective publication: Lim et al., 2023 [1]

Assigned taxonomically: Lim et al., 2023 [1]

### Registry URL

<https://seqco.de/i:44169>

## References

1. Lim et al. (2023). Cultivation of marine bacteria of the SAR202 clade. *Nature Communications*. [DOI:10.1038/s41467-023-40726-8](https://doi.org/10.1038/s41467-023-40726-8)

## Register List Certificate of Validation

On behalf of the *Committee on the Systematics of Prokaryotes Described from Sequence Data* (SeqCode Committee), we hereby certify that the Register List [seqco.de/r:tq6vmkw1](https://seqco.de/r:tq6vmkw1) submitted by **Lim, Yeonjung** and including 4 new names has been successfully validated.

**Date of Priority:** 2024-06-12 05:21 UTC

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