

# Geosyntrophus gen. nov.

Submitted by Anestis, Konstantinos

## Genus *Geosyntrophus*

### Etymology

[Ge.o.syn.tro'phus] **Gr. fem. n.** *gê*, earth, soil; **N.L. masc. n.** *syntrophus*, companion in nourishment; syntroph; **N.L. masc. n.** *Geosyntrophus*, a syntrophic organism associated with earth or soil

### Nomenclatural type

Species *Geosyntrophus acetoxidans*<sup>Ts</sup>

### Description

<https://www.nature.com/articles/s41467-026-70468-2>

### Classification

*Bacteria* » *Desulfobacterota* » *Desulfuromonadia* » *Geobacterales* » “Pseudopelobacteraceae” » *Geosyntrophus*

### References

Effective publication: Jovicic et al., 2026 [1]  
Assigned taxonomically: Jovicic et al., 2026 [1]

### Registry URL

<https://seqco.de/i:56153>

## Species *Geosyntrophus acetoxidans*<sup>Ts</sup>

### Etymology

[a.ce.to.xi.dans] **L. neut. n.** *acetum*, vinegar, here referring to acetate; **N.L. pres. part.** *oxidans*, oxidizing; **N.L. masc. part. adj.** *acetoxidans*, acetate-oxidizing

### Nomenclatural type

[NCBI Assembly: GCA\\_057407595.1](#)<sup>Ts</sup>

### Description

*Geosyntrophus acetoxidans* is the dominant bacterium of a conductive-particle dependent syntrophic consortium. More information are supplied in:  
<https://www.nature.com/articles/s41467-026-70468-2>

### Classification

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## References

1. Jovicic et al. (2026). Genome-centric metagenomics reveals electroactive syntrophs in a conductive particle-dependent consortium from coastal sediments. *Nature Communications*. DOI:[10.1038/s41467-026-70468-2](https://doi.org/10.1038/s41467-026-70468-2)

## 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:mgfhah0c** submitted by **Anestis, Konstantinos** and including 2 new names has been successfully validated.

**Date of Priority:** 2026-06-10 10:00 UTC

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