

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*^{Ts}

Description

Same as the sole member: [Geosyntrophus acetoxidans](#) (Ts).

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*^{Ts}

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

[Genome sc|0006002](#) ^{Ts}

Description

Jovicic et al., 2026: *Geosyntrophus acetoxidans* is the dominant bacterium of a conductive-particle dependent syntrophic consortium.

Classification

Bacteria » *Desulfobacterota* » *Desulfuromonadia* » *Geobacterales* » “*Pseudopelobacteraceae*” » *Geosyntrophus* » *Geosyntrophus acetoxidans*^{Ts}

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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.

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