

# Eremiobacterota phy. nov. and Dormibacterota phy. nov.

Submitted by Ferrari, Belinda

## Phylum *Eremiobacterota*

---

### Etymology

[E.re.mi.o.bac.te.ro'ta] N.L. masc. n. *Eremiobacter*, a rod from a desert; N.L. suff. *-ota*, ending to denote a phylum; N.L. neut. pl. n. *Eremiobacterota*, the Eremiobacter phylum

### Nomenclatural type

Genus *Eremiobacter*

### Description

Lineage previously known as WPS-2, originally described from 16S by Nogales et al (2001). Phylum defined based on phylogenomic analysis of 38 conserved marker genes.

### Classification

*Bacteria* » *Eremiobacterota*

### References

Effective publication: Ji et al., 2017 [1]  
*Corrigendum*: Ji et al., 2021 [2] (from “Eremiobacteraeota”)  
Assigned taxonomically: Ji et al., 2017 [1]

### Registry URL

<https://seqco.de/i:46793>

## Phylum *Dormibacterota*

---

### Etymology

[Dor.mi.bac.te.ro'ta] N.L. masc. n. *Dormibacter*, a dormant rod; N.L. suff. *-ota*, ending denoting a phylum; N.L. neut. pl. n. *Dormibacterota*, the Dormibacter phylum

### Nomenclatural type

Genus *Dormibacter*

### Description

Type genus of Dormibacterota. Genus defined based on phylogenomics of 38 conserved marker genes and the lack of any named close relative at the time.

### Classification

*Bacteria* » *Dormibacterota*

### References

Effective publication: Ji et al., 2017 [1]  
*Corrigendum*: Montgomery et al., 2021 [3] (from “Dormibacteraeota”)

### Registry URL

<https://seqco.de/i:614>

## References

1. Ji et al. (2017). Atmospheric trace gases support primary production in Antarctic desert surface soil. *Nature*. [DOI:10.1038/nature25014](https://doi.org/10.1038/nature25014)
2. Ji et al. (2021). *Candidatus* Eremiobacterota, a metabolically and phylogenetically diverse terrestrial phylum with acid-tolerant adaptations. *The ISME Journal*. [DOI:10.1038/s41396-021-00944-8](https://doi.org/10.1038/s41396-021-00944-8)
3. Montgomery et al. (2021). Persistence and resistance: survival mechanisms of *Candidatus* Dormibacterota from nutrient-poor Antarctic soils. *Environmental Microbiology*. [DOI:10.1111/1462-2920.15610](https://doi.org/10.1111/1462-2920.15610)

### 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:ncltwzg8](https://seqco.de/r:ncltwzg8) submitted by Ferrari, Belinda and including 2 new names has been successfully validated.

Date of Priority: 2024-10-04 01:09 UTC

DOI: 10.57973/seqcode.r:ncltwzg8

