# Species *Xiheibacterium phototrophicum*[Ts]

**Etymology**
[pho.to'tro.phi.cum] **Gr. n.** *phos*, photos light; **Gr. adj.** *trophikos*, nursing, tending or feeding; **N.L. neut. adj.** *phototrophicum*, referring to the likely ability to use light for energy generation

**Nomenclatural type**
NCBI Assembly: GCA_016709225.1 [Ts]

**Description**
The nomenclatural type for the species is the genomic assembly LLY-WYZ-10_1 (GCA_016709225.1). Genome is predicted to 9.61 Mb in 12 scaffolds. The GC content is 71.15%. Genome has complete bacteriochlorophyll synthesis pathways, and encodes reaction center proteins and other key enzymes, suggesting potential phototrophic lifestyle. Genomic assemblies for this species originated from activated sludge.

**Classification**
*Bacteria* » *Myxococcota* » *Polyangiia* » *Nannocystales* » *Nannocystaceae* » *Xiheibacterium* » *Xiheibacterium phototrophicum*[Ts]

**References**
Effective publication: Li et al., 2023 [1]

**Registry URL**
https://seqco.de/i:32850

# References

1. Li et al. (2023). Globally distributed Myxococcota with photosynthesis gene clusters illuminate the origin and evolution of a potentially chimeric lifestyle. *Nature Communications*. DOI:10.1038/s41467-023-42193-7