

Arsenophonus lipoptenae sp. nov.

Submitted by Rasmussen, Ejnar

Species *Arsenophonus lipoptenae*

Etymology

[li.po.ptɐ'nae] **N.L. gen. n.** *lipoptenae*, of the louse fly genus *Lipoptena*

Nomenclatural type

[Genome sc|0006250](#) ^{Is}

Description

Nováková et al., 2016: *Arsenophonus lipopteni* (*Enterobacteriaceae*, *Gammaproteobacteria*) is an obligate intracellular symbiont of the blood feeding deer ked, *Lipoptena cervi* (Diptera: Hippoboscidae). The bacteria reside in specialized cells derived from host gut epithelia (bacteriocytes) forming a compact symbiotic organ (bacteriome). Compared to the closely related complex symbiotic system in the sheep ked, involving four bacterial species, *Lipoptena cervi* appears to maintain its symbiosis exclusively with *Ca. Arsenophonus lipopteni*.

Classification

Bacteria » *Pseudomonadota* » *Gammaproteobacteria* » *Enterobacterales* » *Morganellaceae* » *Arsenophonus* » *Arsenophonus lipoptenae*

References

Effective publication: Nováková et al., 2016 [1]
Corrigendum: Oren, 2017 [2] (from “*Arsenophonus lipopteni*”)

Registry URL

<https://seqco.de/i:400>

References

1. Nováková et al. (2016). Genome sequence of Candidatus *Arsenophonus lipopteni*, the exclusive symbiont of a blood sucking fly *Lipoptena cervi* (Diptera: Hippoboscidae). *Standards in Genomic Sciences*. DOI: [10.1186/s40793-016-0195-1](https://doi.org/10.1186/s40793-016-0195-1)
2. Oren (2017). A plea for linguistic accuracy – also for Candidatus taxa. *International Journal of Systematic and Evolutionary Microbiology*. DOI: [10.1099/ijsem.0.001715](https://doi.org/10.1099/ijsem.0.001715)

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:tqpt_b83** submitted by **Rasmussen, Ejnar** and including 1 new name has been successfully validated.

Date of Priority: 2026-08-24 11:58 UTC

DOI: 10.57973/seqcode.r:tqpt_b83

