

Outlineoffungi.org – Notes 545, *Cyberloma*

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Cyberloma D.W. Minter

Cyberloma was proposed by [Minter \(2020\)](#) mainly based on its position in a separate branch in the phylogenetic trees presented by [Lom & Nilsen \(2003, fig. 30\)](#) and [Brown et al. \(2010, fig. 71\)](#). Until more definitive evidence becomes available, the new genus is placed in the family *Glugeidae* within the poorly-known phylum *Microsporidia*, which, currently, contains c. 170 genera and over 1300 species. Two species are redispersed to this genus: *Cyberloma acerinae* (previously named as *Pleistophora acerinae* in 1901 by Vaney & Conte; *Glugea acerinae* in 1930 by Jírovec; *Loma acerinae* (Jírovec) in 1999 by Lom & Pekkarinen), as type species, and *C. psittaci* ([Casal et al. 2009](#)). *Cyberloma acerinae* has been recorded infecting fish of the families Atherinidae, Gobiidae and Percidae in freshwater, brackish coastal lagoons, and inshore marine areas of Europe. A summary of the main features was provided by [Brown et al. \(2010, table 4\)](#). Additionally, a thorough morphological analysis using transmission electron microscopy was provided by Lom & Pekkarinen (1999).

References

- Brown AMV, Kent ML, Adamson ML 2010 – Description of five new *Loma* (Microsporidia) species in Pacific fishes with redesignation of the type species *Loma morhua* Morrison & Sprague, 1981, based on morphological and molecular species-boundaries tests. *Journal of Eukaryotic Microbiology* 57, 529–553. [DOI:10.1111/j.1550-7408.2010.00508.x](https://doi.org/10.1111/j.1550-7408.2010.00508.x)
- Casal G, Matos E, Teles-Grilo ML, Azevedo C 2009 – Morphological and genetical description of *Loma psittaca* sp. n. isolated from the Amazonian fish species *Colomesus psittacus*. *Parasitology Research* 105, 1265. <https://link.springer.com/article/10.1007/s00436-009-1547-1>
- Jírovec O 1930 – Über eine neue Mikrosporidienart (*Glugea acerinae* n. sp.) aus *Acerina cernua*. *Archiv für Protistenkunde* 72, 198–213.
- Lom J, Nilsen F 2003 – Fish microsporidia: fine structural diversity and phylogeny. *International Journal for Parasitology* 33, 107–127. <https://www.sciencedirect.com/science/article/abs/pii/S0020751902002527>
- Lom J, Pekkarinen M 1999 – Ultrastructural observations on *Loma acerinae* (Jírovec, 1930) comb. nov. (phylum Microsporidia). *Acta Protozoologica* 38, 61–74.
- Minter DW 2020 – *Cyberloma acerinae*. *IMI Descriptions of Fungi and Bacteria* 225, 2241. <https://www.cabdirect.org/cabdirect/abstract/20210012856>
- Vaney C, Conte A 1901 – *Pleistophora acerinae*. *Bulletin de la Société Linnéenne de Lyon* 47, 105.

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