

# Azoamicus gen. nov.

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Table 1: Complete list of names proposed in the current register list.

Proposed Taxon	Etymology	Description	Parent Taxon	Type	Registry URL
Genus <i>Azoamicus</i>	[A.zo.a'mi.cus] N.L. <b>pref. azo-</b> , pertaining to nitrogen; L. <b>masc. n. amicus</b> , friend; N.L. <b>masc. n. Azoamicus</b> , friend that pertains to nitrogen	' <i>Candidatus Azoamicus ciliaticola</i> ' is an obligate endosymbiont of an anaerobic ciliate and has a dedicated role in respiration and providing energy for its eukaryotic host. ' <i>Candidatus A. ciliaticola</i> ' contains a highly reduced 0.29-Mb genome that encodes core genes for central information processing, the electron transport chain, a truncated tricarboxylic acid cycle, ATP generation and iron-sulfur cluster biosynthesis. The genome encodes a respiratory denitrification pathway instead of aerobic terminal oxidases, which enables its host to breathe nitrate instead of oxygen. ' <i>Candidatus A. ciliaticola</i> ' and its ciliate host represent an example of a symbiosis that is based on the transfer of energy in the form of ATP, rather than nutrition.	<i>Azoamicaceae</i>	<i>Azoamicus ciliaticola</i> <sup>Ts</sup>	<a href="https://seqco.de/i:49071">seqco.de/i:49071</a>
Species <i>Azoamicus ciliaticola</i> <sup>Ts</sup>	[ci.li.a.ti.co'la] N.L. <b>fem. n. ciliata</b> , referring to a group of ciliated protozoa; N.L. <b>masc. suff. -cola</b> , dweller or inhabitant; N.L. <b>masc. adj. ciliaticola</b> , dwelling within a ciliate	<i>Azoamicus ciliaticola</i> , which is an obligate endosymbiont of an anaerobic ciliate and has a dedicated role in respiration and providing energy for its eukaryotic host. <i>A. ciliaticola</i> contains a highly reduced 0.29-Mb genome that encodes core genes for central information processing, the electron transport chain, a truncated tricarboxylic acid cycle, ATP generation and iron-sulfur cluster biosynthesis. The genome encodes a respiratory denitrification pathway instead of aerobic terminal oxidases, which enables its host to breathe nitrate instead of oxygen. <i>A. ciliaticola</i> and its ciliate host represent an example of a symbiosis that is based on the transfer of energy in the form of ATP, rather than nutrition.	<i>Azoamicus</i>	NCBI Assembly: GCF_902860225.1 <sup>Ts</sup>	<a href="https://seqco.de/i:49070">seqco.de/i:49070</a>