

Register list proposing *Elulimicrobium humile* sp. nov. gen. nov. and their lineage

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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
Phylum <i>Elulimicrobiota</i>	[E.lu.li.mi.cro.bi.o'ta] N.L. neut. n. <i>Elulimicrobium</i> , referring to the type genus <i>Elulimicrobium</i> ; <i>-ota</i> , ending to denote a phylum; N.L. neut. pl. n. <i>Elulimicrobiota</i> , the <i>Elulimicrobium</i> phylum	The phylum is defined on the basis of comparative genome analysis on the genus <i>Elulimicrobium</i> with respect to currently determined genomes from the closest relatives within the "Patescibacteria" clade. <i>Elulimicrobium</i> is the designated type genus of the phylum.	<i>Bacteria</i>	<i>Elulimicrobium</i>	seqco.de/i:575
Class <i>Elulimicrobiia</i>	[E.lu.li.mi.cro.bi'i.a] N.L. neut. n. <i>Elulimicrobium</i> , referring to the type genus <i>Elulimicrobium</i> ; <i>-ia</i> , ending to denote a class; N.L. neut. pl. n. <i>Elulimicrobiia</i> , the <i>Elulimicrobium</i> class	The class is defined on the basis of comparative genome analysis on the genus <i>Elulimicrobium</i> with respect to currently determined genomes from the closest relatives within the "Patescibacteria" clade. <i>Elulimicrobium</i> is the designated type genus of the class.	<i>Elulimicrobiota</i>	<i>Elulimicrobium</i>	seqco.de/i:574
Order <i>Elulimicrobiales</i>	[E.lu.li.mi.cro.bi.a'les] N.L. neut. n. <i>Elulimicrobium</i> , referring to the type genus <i>Elulimicrobium</i> ; <i>-ales</i> , ending to denote an order; N.L. fem. pl. n. <i>Elulimicrobiales</i> , the <i>Elulimicrobium</i> order	The properties of the order are the same as for the representative genus <i>Elulimicrobium</i> , which is the designated type genus of the order.	<i>Elulimicrobiia</i>	<i>Elulimicrobium</i>	seqco.de/i:573
Family <i>Elulimicrobiaceae</i>	[E.lu.li.mi.cro.bi.a.ce'ae] N.L. neut. n. <i>Elulimicrobium</i> , referring to the type genus <i>Elulimicrobium</i> ; <i>-aceae</i> , ending to denote a family; N.L. fem. pl. n. <i>Elulimicrobiaceae</i> , the <i>Elulimicrobium</i> family	The properties of the family are the same as for the representative genus <i>Elulimicrobium</i> , which is the designated type genus of the family.	<i>Elulimicrobiales</i>	<i>Elulimicrobium</i>	seqco.de/i:572

Proposed Taxon	Etymology	Description	Parent Taxon	Type	Registry URL
Genus <i>Elulimicrobium</i>	[E.lu.li.mi.cro'bi.um] N.L. fem. n. <i>elula</i> , from Akkadian n. elūlu, and from there to Hebrew n. Elul (עֲלֻל), the month of harvest in the Akkadian calendar typically corresponding to the annual period of detection for this group (August-September); N.L. neut. n. <i>microbium</i> , microbe; N.L. neut. n. <i>Elulimicrobium</i> , a microbe from the month of harvest	The genus is established on the basis of phylogenetic reconstruction including the type species <i>Elulimicrobium humile</i> and other members of the group "Patescibacteria". The type species is <i>Elulimicrobium humile</i>	<i>Elulimicrobiaceae</i>	<i>Elulimicrobium humile</i> ^{Ts}	seqco.de/i:515
Species <i>Elulimicrobium humile</i> ^{Ts}	[hu.mi'le] L. neut. adj. <i>humile</i> , humble, low	This species displays a consistently low abundance when detected between the months of July and October, and a geographic range restricted to the tree northernmost lakes on the Chattahoochee River (USA): lakes Lanier, West Point, and Eufaula. According to the genome assembly, WB6_2A_207 is 3.79 Mbp long with 1,298 contigs (N50: 4 kbp) and 34.3% G+C content. It includes 4,108 predicted proteins as well as 90 non-coding RNA loci (87 tRNA, 1 rRNA, and 2 tmRNA). The estimated coding density is 94.1%. Based on genome annotation, this organism is predicted to have sucrose and oxidase activity and the capability of gelatin and arginine dihydrolase activity. The type material is the genome WB6_2A_207, deposited in the NCBI database with Genome Accession RGCK00000000 and BioSample SAMN10223143.	<i>Elulimicrobium</i>	NCBI Assembly: GCA_009919195.1 ^{Ts}	seqco.de/i:516