

Uabimicrobium amorphum gen. nov. sp. 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>Uabimicrobium</i>	[U.a.bi.mi.cro'bi.um] N.L. masc. n. <i>Uabius</i> , derived from Uab; N.L. neut. n. <i>microbium</i> , a microbe; N.L. neut. n. <i>Uabimicrobium</i> , a microbe named after Uab, a hungry giant in Palauan mythology		<i>Uabimicrobiaceae</i>	<i>Uabimicrobium amorphum</i> ^{Ts}	seqco.de/i:768
Species <i>Uabimicrobium amorphum</i> ^{Ts}	[a.mor'phum] N.L. neut. adj. <i>amorphum</i> , without shape	Shiratori et al. (2019) : Marine free-living aerobic Gram-negative bacterium was collected from surface seawater in the Republic of Palau (7.181386° N, 134.336947° E). Cells are flattened and round or oval shape with granular cytoplasm. Flagellum is absent. Cells were 3.2–7.8 µm (4.5 ± 0.85 µm) in the long axis and 2.8–5.5 µm (4.0 ± 0.57 µm) in the short axis (<i>n</i> = 79). When prey bacteria were abundant in the culture, cells occasionally reached 10 µm in diameter. Cells attach to substrate and show gliding motility with changing shape. Cells reproduce by binary fission. Periplasm (or paryphoplasm) highly invaginates into the cytoplasm (or pirellulosome) and shows a reticulate pattern. The cytoplasm includes multiple nuclear bodies. The cell interior includes four types of fibrous structures: large striated fibres, small striated fibres, short bundle fibres and cylindrical structures that contain linear fibres. Cells can engulf bacteria and picoeukaryotes (<i>Bathycoccus prasinos</i>). Engulfed bacteria and algae can be found in phagosome-like vacuoles (PVs). Some PVs connect to other phagosome-like structures or outside of the cell by	<i>Uabimicrobium</i>	NCBI Assembly: GCF_009002475.1 ^{Ts}	seqco.de/i:43481

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		narrow ducts. Similarity of the 16S rRNA gene sequence (LC496071) to the closest species (the planctomycete ' <i>Candidatus</i> Kuenenia stuttgartiensis') is 79% . The genome of ' <i>Ca. Uab amorphum</i> ' (AP019860) is circular and 9,503,110 bp in size. The G + C content of the genome is 39.4 mol%. A co-culture of ' <i>Ca. Uab amorphum</i> ' has been deposited at the JCM as JCM 39082.			