

Termitispirillum cryptocerci 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
Family <i>Termitispirillaceae</i>	[Ter.mi.ti.spi.ril.la'ce.ae] N.L. neut. dim. n. <i>Termitispirillum</i> , the type genus of the family; -aceae , ending to denote a family; N.L. fem. pl. n. <i>Termitispirillaceae</i> , the <i>Termitispirillum</i> family	Members of this family are uncultured and inhabit the guts of insects, including termites and <i>Cryptocercus</i> cockroaches. This family is a sister clade of the family <i>Mucispirillaceae</i> in the phylum <i>Deferribacterota</i> . The type genus of this family is <i>Termitispirillum</i> .	<i>Deferribacterales</i>	<i>Termitispirillum</i>	seqco.de/i:54891
Genus <i>Termitispirillum</i>	[Ter.mi.ti.spi.ril'lum] L. masc. n. <i>termes</i> , termite; L. neut. dim. n. <i>spirillum</i> , a small spiral; N.L. neut. dim. n. <i>Termitispirillum</i> , a spiral bacterium from termites	Members of this genus are uncultured and spiral or curved long rods that specifically attach to parabasalid protists in the guts of termites and <i>Cryptocercus</i> cockroaches. Cells measure 3–13 µm in length and 0.4 µm in width. Genomic analyses indicated that these bacteria possess a Gram-negative-type cell wall and chemoheterotrophic metabolism with fermentation and respiratory pathways. Motility was inferred from the presence of genes involved in flagellar assembly and chemotaxis. Taxonomic assignment is based on the 16S rRNA gene sequence and specific detection by FISH using the oligonucleotide probe RStz2-092-190 or Deferri-term-661 (Table S2). The nomenclatural type is <i>Termitispirillum cryptocerci</i> with its genome sequence as the type material.	<i>Termitispirillaceae</i>	<i>Termitispirillum cryptocerci</i> ^{TS}	seqco.de/i:54887
Species <i>Termitispirillum cryptocerci</i> ^{TS}	[cryp.to.cer'ci] N.L. gen. n. <i>cryptocerci</i> , of <i>Cryptocercus</i> , referring to the host cockroach genus	The bacterium specifically attaches to the cell surfaces of <i>Trichonympha acuta</i> and <i>Trichonympha lata</i> in the gut of <i>Cryptocercus punctulatus</i> . The cell dimensions are 3–13 µm by 0.4 µm. This assignment is based on the 16S rRNA gene sequence (LC866555, LC866555) and detection by FISH using the oligonucleotide probe Deferri-term-661 (Table S2). A complete genome sequence (AP043677) was obtained. This species	<i>Termitispirillum</i>	INSDC Nucleotide: AP043677 ^{TS}	seqco.de/i:54886

Proposed Taxon	Etymology	Description	Parent Taxon	Type	Registry URL
		includes phylotypes CpT06-9, CpT15-2, and CpT32-4.			