Vibrio galatheae sp. nov., a novel member of the Vibrionaceae family isolated from the Solomon Sea. - DTU Orbit (13/12/2018)

**Vibrio galatheae sp. nov., a novel member of the Vibrionaceae family isolated from the Solomon Sea.**

Based on genetic, chemotaxonomic and phenotypic characteristics, a novel species belonging to the genus *Vibrio* is described. The facultative anaerobic strain S2757T was isolated from a mussel collected in the Solomon Sea (Solomon Islands). Phylogenetic analyses based on sequences of 16S rRNA and fur genes indicated the affiliation of the strain to a new species. This observation was supported by a multilocus sequence analysis (MLSA) including sequences of the housekeeping genes 16S rRNA, gyrB, pyrH, recA and topA. *In silico* DNA-DNA hybridization (DDH) and Average Nucleotide Identity (ANI) values comparing the genomic sequence of strain S2757T with those of closely related type strains were lower than 23 and 82 %, respectively. The DNA G+C content of the strain was 45.3 mol%. Phenotypic and chemotaxonomic analyses clearly differentiated the strain from other *Vibrio* species. Hence, strain S2757T should be considered a novel species in the genus *Vibrio*. The name *Vibrio galatheae* sp. nov. is proposed, with S2757T (= DSM 100497T = LMG 28895T) as the type strain.

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