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Chryseobacterium chengduensis sp. nov. isolated from the air of captive giant panda enclosures in Chengdu, China

Key words: *Chryseobacterium chengduensis*, Giant panda, 16S rRNA sequencing, Phylogenetic analysis, Strain 25-1^{T}

Research Summary

This study identified a novel member of the genus *Chryseobacterium using* a polyphasic taxonomy approach, including evaluation of its morphological, biochemical and phylogenetic characteristics.The type strain is 25-1^T (CCTCC AB2015133^T = DSM 100396^T)



Transmission electron micrograph of a negatively stained cell of strain 25-1^T, showing the absence of flagella

Innovation points

A series of tables and figures were generated to summarize the results of this study.

Table 1 | Characteristics of strain 25-1^{T} and *C. lathyri* RBA2-6 ^{T}.

Table 2 | Cellular fatty acid content of strain 25-1^{T} and *C. lathyri* RBA2-6^{T}.

Fig 1 | Phylogenetic tree showing the relationship between strain 25-1^{T} and the type strains of a selection of recognized *Chryseobacterium* species.

Fig 2 | Total polar lipid analysis of strain *Chryseobacterium chengduensis* 25-1^{T}.

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