

Cite this as: Cai-fang WEN, Li-xin XI, Shan ZHAO, Zhong-xiang HAO, Lu LUO, Hong LIAO, Zhen-rong CHEN, Rong SHE, Guo-quan HAN, San-jie CAO, Rui WU, Qi-gui YAN, Rong HOU, 2016. *Chryseobacterium chengduensis* sp. nov. isolated from the air of captive giant panda enclosures in Chengdu, China. *Journal of Zhejiang University-Science B (Biomedicine & Biotechnology)*. **17(8):610-618.**
<http://dx.doi.org/10.1631/jzus.B1500214>

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.