'*Streptomyces caelicus*', an antibiotic-producing species of the genus *Streptomyces*, and *Streptomyces canchipurensis* Li et al. 2015 are later heterotypic synonyms of *Streptomyces muensis* Ningthoujam et al. 2014.

Wink J, Schumann P, Atasayar E, Klenk HP, Zaburannyi N, Westermann M, Martin K, Glaeser SP, Kämpfer P (2017) '*Streptomyces caelicus*', an antibiotic-producing species of the genus *Streptomyces*, and *Streptomyces canchipurensis* Li et al. 2015 are later heterotypic synonyms of *Streptomyces muensis* Ningthoujam et al. 2014. *Int J Syst Evol Microbiol* 67(3), 548-556.

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Abstract

'Streptomyces caelicus' DSM 40835 was first reported as the producer of the antibiotic griselimycin by some coworkers of Rhone Poulenc in 1971. The project on isolation of the antibiotic compound was stopped because of the bad solubility and selectivity of the compound towards Mycobacteria. At Sanofi-Aventis, Germany, the project was re-evaluated in 2007 and the gene cluster of griselimycin could be identified, characterized and was patented in 2013. At this time, 'S. caelicus' was an invalid name. During the strain characterization work, it was found that

'S. caelicus' belongs to the group of species of the genus Streptomyces which show an unusual heterogeneity of the 16S rRNA gene sequences. However, high 16S rRNA gene sequence similarities to Streptomyces muensis JCM 17576T and Streptomyces canchipurensis JCM 17575T were obvious. Here, we present a comparative description of 'Streptomyces caelicus' DS 9461 (=DSM 40835=NCCB 100592) with S. muensis and S. canchipurensis by use of a polyphasic taxonomy approach and additional comparison of some housekeeping genes by multilocus sequence analysis (MLSA). An emended description of Streptomyces muensis is provided as a result of this work.

Beteiligte Forschungseinheiten

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