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included simultaneous multicolor localization microscopy and the production of penicillin via genetic insertion of the 17-kb biosynthetic gene cluster. In addition, the feasibility of the approach has been successfully demonstrated in the biotechnological relevant *Penicillium chrysogenum* and the plant pathogen *Fusarium oxysporum*. Currently, a CRISPR/Cas9 mediated upgrade has been established and investigations on the use of the system in further biotechnological important species such as *Aspergillus niger*, *Trichoderma reesei* and *Escherichia coli* are ongoing.

Patent Situation

Patents are pending in EP and US (priority June 2018).

Further Reading

Birštonas et al. (2020), mBio 11:e00230-20