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Genomics-Driven Discovery of Secondary Metabolites from Burkholderia spp. that Interact with Fungi

Mushrooms such as the white button mushroom *Agaricus bisporus* are an important food source due to high protein and mineral contents. However, mushroom infections caused by microbes can lead to huge economic losses. To prevent the infection, the structure and biological function of virulence factors need to be identified. The aim of this project is to gain insight into the metabolic potential of various mushroompathogenic bacteria, for example *Burkholderia gladioli* pv. *agaricicola*, which causes cavity disease in *A. bisporus*, by a combination of genome mining and chemical analysis.

Publications

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Zhang Y, Scherlach K, Müller R, Hertweck C (2018) Two Types of Threonine-Tagged Lipopeptides Synergize in Host Colonization by Pathogenic Burkholderia Species. *ACS Chem Biol* 13(5), 1370-1379. Details PubMed

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