

Polyhalogenation of isoflavonoids by the termite-associated *Actinomadura* sp. RB99.

Rak Lee S, Schalk F, Schwitalla JW, Benndorf R, Vollmers J, Kaster AK, de Beer ZW, Park M, Ahn MJ, Jung WH, Beemelmans C, Kim KH (2020) Polyhalogenation of isoflavonoids by the termite-associated *Actinomadura* sp. RB99. *J Nat Prod* 83(10), 3102-3110.

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Abstract

Based on high-resolution tandem mass spectrometry (HR-MS2) and global natural products social molecular networking (GNPS), we found that plant-derived daidzein and genistein derivatives are polyhalogenated by termite-associated *Actinomadura* species RB99. MS-guided purification from extracts of bacteria grown under optimized conditions led to the isolation of eight polychlorinated isoflavones, including six unreported derivatives, and seven novel polybrominated derivatives, two of which showed antimicrobial activity.

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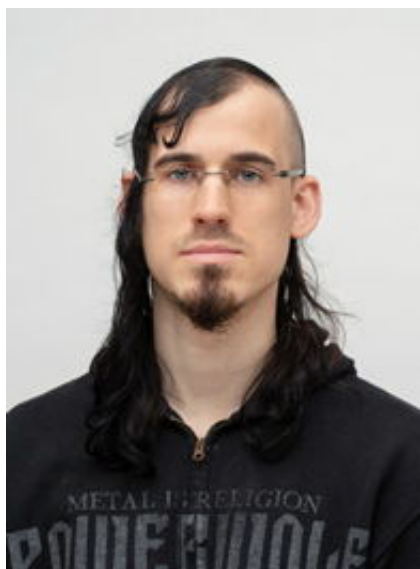
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