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Projects

Former Projects

Investigation of secondary metabolites from insect-associated microbes and their contribution to insect homeostasis and defense

[Details](#)

Publications

Benndorf R, Martin K, Küfner M, de Beer ZW, Vollmers J, Kaster AK, Beemelmans C (2020) *Actinomadura rubteroloni* sp. nov. and *Actinomadura macrotermitis* sp. nov., isolated from the gut of the fungus growing-termite *Macrotermes natalensis*. *Int J Syst Evol Microbiol* , [Details](#) [PubMed](#)

Benndorf R, Schwitalla JW, Martin K, de Beer ZW, Vollmers J, Kaster AK, Poulsen M, Beemelmans C (2020) *Nocardia macrotermitis* sp. nov. and *Nocardia aurantia* sp. nov., isolated from the gut of the fungus-growing termite *Macrotermes natalensis*. *Int J Syst Evol Microbiol* , [Details](#) [PubMed](#)

Guo H, Schwitalla JW, Benndorf R, Baunach M, Steinbeck C, Görls H, de Beer ZW, Regestein L, Beemelmans C (2020) Gene Cluster Activation in a Bacterial Symbiont Leads to Halogenated Angucyclic

Maduralactomycins and Spirocyclic Actinospirols. *Org Lett* 22(7), 2634-2638. [Details PubMed](#)

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* , [Details PubMed](#)

Schwitalla JW, Benndorf R, Martin K, Vollmers J, Kaster AK, de Beer ZW, Poulsen M, Beemelmans C (2020) *Streptomyces smaragdinus* sp. nov., isolated from the gut of the fungus growing-termite *Macrotermes natalensis*. *Int J Syst Evol Microbiol* , [Details PubMed](#)

Benndorf R, Guo H, Sommerwerk E, Weigel C, Garcia-Altares M, Martin K, Hu H, Kufner M, de Beer ZW, Poulsen M, Beemelmans C (2018) Natural Products from Actinobacteria Associated with Fungus-Growing Termites. *Antibiotics (Basel)* 7(3), [Details PubMed](#)

Guo H, Benndorf R, König S, Lechnitz D, Weigel C, Peschel G, Berthel P, Kaiser M, Steinbeck C, Werz O, Poulsen M, Beemelmans C (2018) Expanding the Rubterolone Family - Intrinsic Reactivity and Directed Diversification of PKS-derived Pyrans. *Chemistry* 24, 11319-11324. [Details PubMed](#)

Lee SR, Lee D, Yu JS, Benndorf R, Lee S, Lee DS, Huh J, de Beer ZW, Kim YH, Beemelmans C, Kang KS, Kim KH (2018) Natalenamides A⁻C, Cyclic Tripeptides from the Termite-Associated *Actinomadura* sp. RB99. *Molecules* 23(11), [Details PubMed](#)

Guo H, Benndorf R, Lechnitz D, Klassen JL, Vollmers J, Görls H, Steinacker M, Weigel C, Dahse HM, Kaster AK, de Beer ZW, Poulsen M, Beemelmans C (2017) Isolation, Biosynthesis and Chemical Modifications of Rubterolones A-F: Rare Tropolone Alkaloids from *Actinomadura* sp. 5-2. *Chemistry* , [Details PubMed](#)

Kang HR, Lee D, Benndorf R, Jung WH, Beemelmans C, Kang KS, Kim KH (2016) Termisoflavones A-C, Isoflavonoid Glycosides from Termite-Associated *Streptomyces* sp. RB1. *J Nat Prod* 79(12), 3072-3078. [Details PubMed](#)