René Benndorf

Alumni

Publications

Murphy R, Benndorf R, De Beer ZW, Vollmers J, Kaster AK, Beemelmanns C, Poulsen M (2021) Comparative genomics reveals sanitary and catabolic capabilities of *Actinobacteria* within the fungus-farming termite symbiosis. *mSphere* 6(2), e01233-20.

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Um S, Guo H, Thiengmag S, Benndorf R, Murphy R, Rischer M, Braga D, Poulsen M, de Beer ZW, Lackner G, Beemelmanns C (2021) Comparative genomic and metabolic analysis of *Streptomyces* sp. RB110 morphotypes illuminates genomic rearrangements and formation of a new 46-membered antimicrobial macrolide. *ACS Chem Biol* 16(8), 1482-1492.

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Benndorf R, Martin K, Küfner M, de Beer ZW, Vollmers J, Kaster AK, Beemelmanns 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* 70(10), 5255-5262.

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Benndorf R, Schwitalla JW, Martin K, de Beer ZW, Vollmers J, Kaster AK, Poulsen M, Beemelmanns 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* 70(10), 5226-5234.

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Guo H, Schwitalla JW, Benndorf R, Baunach M, Steinbeck C, Görls H, de Beer ZW, Regestein L, Beemelmanns C (2020) Gene cluster activation in a bacterial symbiont leads to halogenated angucyclic maduralactomycins and spirocyclic actinospirols. *Org Lett* 22(7), 2634-2638.

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Schwitalla JW, Benndorf R, Martin K, Vollmers J, Kaster AK, de Beer ZW, Poulsen M, Beemelmanns C (2020) *Steptomyces smaragdinus* sp. nov. isolated from the gut of fungus growing-termite *Macrotermes natalensis*. *Int J Syst Evol Microbiol* 70(11), 5806-5811.

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Yoon SY, Lee SR, Hwang JY, Benndorf R, Beemelmanns C, Chung SJ, Kim KH (2019) Fridamycin A, a microbial natural product, stimulates glucose uptake without inducing adipogenesis. *Nutrients* 11(4), 765.

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Benndorf R, Guo H, Sommerwerk E, Weigel C, Garcia-Altares M, Martin K, Hu H, Kuefner M, de Beer ZW, Poulsen M, Beemelmanns C (2018) Natural products from Actinobacteria associated with fungus-growing termites. *Antibiotics* 7(3), 83.

Details

Guo H, Benndorf R, König S, Leichnitz D, Weigel C, Peschel G, Berthel P, Kaiser M, Steinbeck C, Werz O, Poulsen M, Beemelmanns C (2018) Expanding the rubterolone family: Intrinsic reactivity and directed diversification of PKS-derived pyrans. *Chem Eur J* 24(44), 11319-11324.

Details

Publication list as PDF