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Topics

Droplet-based micro-fluidics

Bioprocess development

Publications

Cao H, Dauben TJ, Helbing C, Jia Z, Zhang Y, Huang M, Müller L, Gu S, Zhang X, Qin H, Martin K, Bossert J, Jandt KD (2022) The antimicrobial effect of calcium-doped titanium is activated by fibrinogen adsorption. *Mater Horiz* 9(7), 1962-1968.

Details

Mahler L, Niehs SP, Martin K, Weber T, Scherlach K, Hertweck C, Roth M, Rosenbaum MA (2021) Highly parallelized droplet cultivation and prioritization of antibiotic producers from natural microbial communities. *eLife* 10, e64774.

Details

Reddersen K, Güllmar A, Tonndorf-Martini S, Sigusch BW, Ewald A, Dauben TJ, Martin K, Wiegand C (2021) Critical parameters in cultivation of experimental biofilms using the example of *Pseudomonas fluorescens*. *J Mater Sci Mater Med* 32(9), 96.

Details

OPEN ACCESS

PAPER

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.

Details

PubMed

OPEN ACCESS

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.

Details

PubMed

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Neupane S, Ghosh A, Gunther S, Martin K, Zurek L (2020) *Culicoidibacter larvae* gen. nov., sp. nov., from the gastrointestinal tract of the biting midge (*Culicoides sonorensis*) larva, belongs to a novel lineage *Culicoidibacteraceae* fam. nov., *Culicoidibacterales* ord. nov. and *Culicoidibacteria* classis nov. of the phylum *Firmicutes*. *Int J Syst Evol Microbiol* 70(12), 6482-6490.

Details

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.

Details

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

Mahler L, Wink K, Beulig RJ, Scherlach K, Tovar M, Zang E, Martin K, Hertweck C, Belder D, Roth M (2018) Publisher Correction: Detection of antibiotics synthetized in microfluidic picolitre-droplets by various actinobacteria. *Sci Rep* 8(1), 15859.

Details

Mohr KI, Wolf C, Nübel U, Szafrańska AK, Steglich M, Hennessen F, Gemperlein K, Kämpfer P, Martin K, Müller R, Wink J (2018) A polyphasic approach leads to seven new species of the cellulose-decomposing genus *Sorangium*, *Sorangium ambruticinum* sp. nov., *Sorangium arenae* sp. nov., *Sorangium bulgaricum* sp. nov., *Sorangium dawidii* sp. nov., *Sorangium kenyense* sp. nov.... *Int J Syst Evol Microbiol* 68(11), 3576-3586.

Details

News

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