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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.

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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.

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Benndorf R, Martin K, K fner 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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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 fungus growing-termite *Macrotermes natalensis*. *Int J Syst Evol Microbiol* 70(11), 5806-5811.

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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, Beemelmans C (2018) Natural products from Actinobacteria associated with fungus-growing termites. *Antibiotics* 7(3), 83.

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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 synthesized in microfluidic picolitre-droplets by various actinobacteria. *Sci Rep* 8(1), 15859.

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Mohr KI, Wolf C, Nübel U, Szafrńska 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.

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