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Topics

Functional microbiome research and molecular biotechnology

Publications

Krespach MKC, Stroe MC, Netzker T, Rosin M, Zehner LM, Komor AJ, Beilmann JM, Krüger T, Scherlach K, Kniemeyer O, Schroeckh V, Hertweck C, Brakhage AA (2023) *Streptomyces* polyketides mediate bacteria-fungi interactions across soil environments. *Nat Microbiol* 8(7), 1348-1361.

Details

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PAPER

Brangsch H, Höller M, Krauße T, Waqas M, Schroeckh V, Brakhage AA, Bunk B, Spröer C, Overmann J, Kothe E (2022) Extremophile metal resistance: Plasmid-encoded functions in *Streptomyces mirabilis*. *Appl Environ Microbiol* 88(11), e0008522.

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Valente S, Piombo E, Schroeckh V, Meloni GR, Heinekamp T, Brakhage AA, Spadaro D (2021) CRISPR-Cas9-based discovery of the verrucosidin biosynthesis gene cluster in *Penicillium polonicum*. *Front Microbiol* 12, 660871.

Details

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Flak M, Krespach MKC, Pschibul A, Schroeckh V, Brakhage AA (2020) New avenues towards drug discovery in fungi. In: The Mycota 2, pp. 267-295. Springer, Cham. ISBN: 978-3-030-49923. (Review)

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Krespach MKC, García-Altares M, Flak M, Schoeler H, Scherlach K, Netzker T, Schmalzl A, Mattern DJ, Schroeckh V, Komor AJ, Mittag M, Hertweck C, Brakhage AA (2020) Lichen-like association of *Chlamydomonas reinhardtii* and *Aspergillus nidulans* protects algal cells from bacteria. *ISME J* 14(11), 2794-2805.

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Stefani N, Schroeckh V, Neugebauer U, Bohnert J, Brakhage AA (2020) Genome sequence of *Escherichia coli* KI683, Isolated from a urosepsis patient. *Microbiol Resour Announc* 9(9), e01297-19.

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Stroe MC, Netzker T, Schroeckh V, Hanf B, Brakhage AA (2019) Microbial co-cultures as source of novel drugs for infections. In: Elsevier Science (ed.) Comprehensive Natural Products III: Chemistry and Biology 3, pp. Chapter 30015. Elsevier. (Review)

Details

Fischer J, Müller SY, Netzker T, Jäger N, Gacek-Matthews A, Scherlach K, Stroe MC, García-Altares M, Pezzini F, Schoeler H, Reichelt M, Gershenzon, Krespach MK, Shelest E, Schroeckh V, Valiante V, Heinzel T, Hertweck C, Strauss J, Brakhage AA (2018) Chromatin mapping identifies BasR, a key regulator of bacteria-triggered production of fungal secondary metabolites. *eLife* 7, e40969.

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Netzker T, Flak M, Krespach MK, Stroe MC, Weber J, Schroeckh V, Brakhage AA (2018) Microbial interactions trigger the production of antibiotics. *Curr Opin Microbiol* 45, 117-123. (Review)

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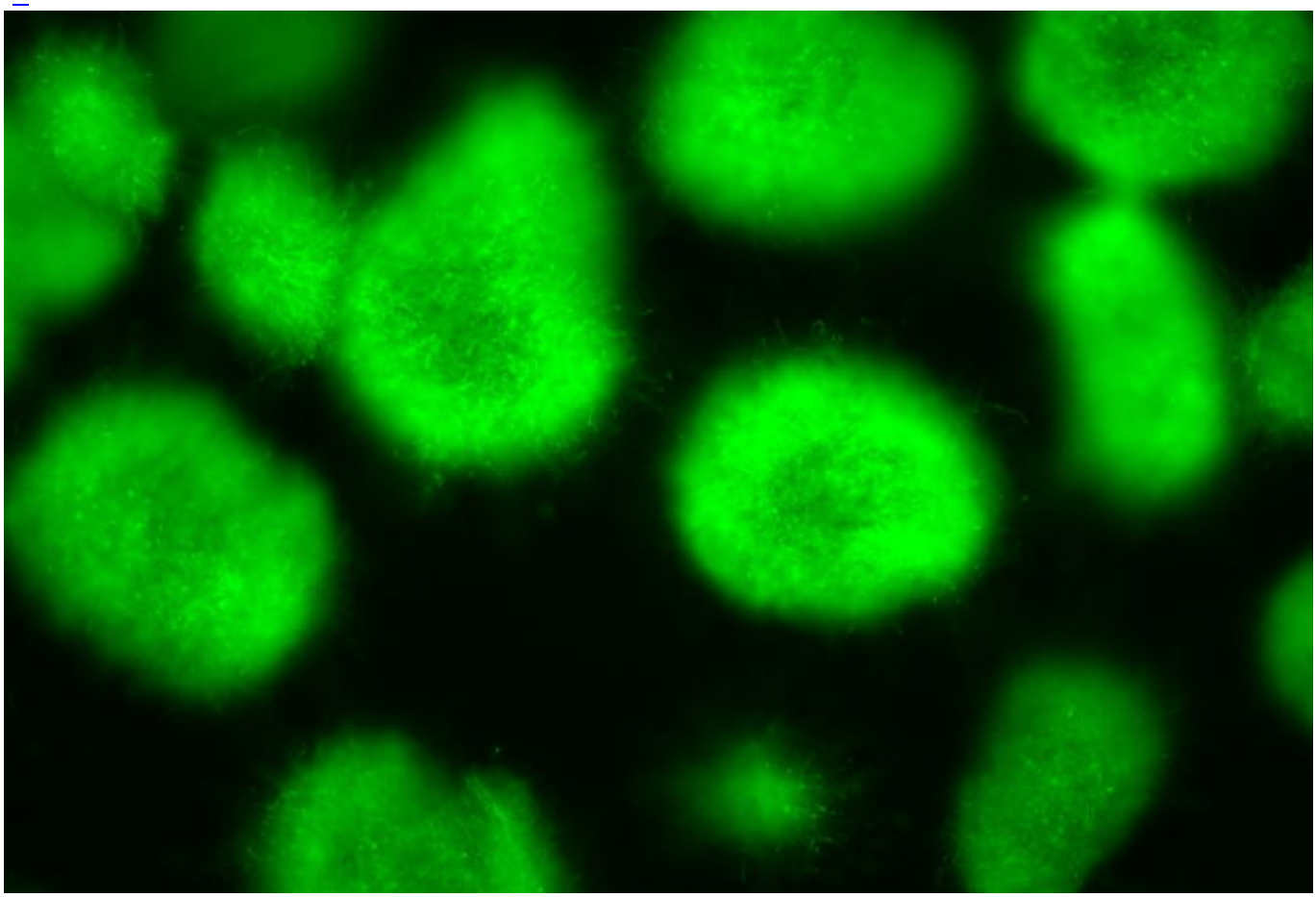
Fischer J, Schroeckh V, Brakhage AA (2016) Awakening of fungal secondary metabolite gene clusters. In: Schmoll M., Dattenböck C. (eds.) Gene Expression Systems in Fungi: Advancements and Applications (Part II), pp. 253-273. Springer, Cham. ISBN: 978-3-319-27949. (Review)

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