Dr Sascha Brunke

Microbial Pathogenicity Mechanisms · Deputy head of department +49 3641 532-1222
sascha.brunke@leibniz-hki.de

Publications

Böttcher B, Kienast SD, Leufken J, Eggers C, Sharma P, Leufken CM, Morgner B, Drexler HCA, Schulz D, Allert S, Jacobsen ID, Vylkova S, Leidel SA, Brunke S[#] (2024) A highly conserved tRNA modification contributes to *C. albicans* filamentation and virulence. *Microbiol Spectr* [Epub ahead of print]

Details

PubMed

Sekeresova Kralova J, Donic C, Dassa B, Livyatan I, Jansen PM, Ben-Dor S, Fidel L, Trzebanski S, Narunsky-Haziza L, Asraf O, Brenner O, Dafni H, Jona G, Boura-Halfon S, Stettner N, Segal E, Brunke S, Pilpel Y, Straussman R, Zeevi D, Bacher P, Hube B, Shlezinger N, Jung S (2024) Competitive fungal commensalism mitigates candidiasis pathology. *J Exp Med* 221(5), e20231686.

Details

Alings F, Scharmann K, Eggers C, Böttcher B, Sokołowski M, Shvetsova E, Sharma P, Roth J, Rashiti L, Glatt S, Brunke S, Leidel SA (2023) Ncs2* mediates *in vivo* virulence of pathogenic yeast through sulphur modification of cytoplasmic transfer RNA. *Nucleic Acids Res* 51(15), 8133-8149.

Details

Götze S, Vij R, Burow K, Thome N, Urbat L, Schlosser N, Pflanze S, Müller R, Hänsch VG, Schlabach K, Fazlikhani L, Walther G, Dahse HM, Regestein L, Brunke S, Hube B, Hertweck C, Franken P, Stallforth P (2023) Ecological niche-inspired genome mining leads to the discovery of

crop-protecting nonribosomal lipopeptides featuring a transient amino acid building block. *J Am Chem Soc* 145(4), 2342-2353.

Details

Lange T, Kasper L, Gresnigt MS, Brunke S, Hube B (2023) "Under Pressure" - How fungi evade, exploit, and modulate cells of the innate immune system. *Semin Immunol* 66, 101738. (Review)

Details

Martini GR, Tikhonova E, Rosati E, DeCelie MB, Sievers LK, Tran F, Lessing M, Bergfeld A, Hinz S, Nikolaus S, Kümpers J, Matysiak A, Hofmann P, Saggau C, Schneiders S, Kamps AK, Jacobs G, Lieb W, Maul J, Siegmund B, Seegers B, Hinrichsen H, Oberg HH, Wesch D, Bereswill S, Heimesaat MM, Rupp J, Kniemeyer O, Brakhage AA, Brunke S, Hube B, Aden K, Franke A, Iliev ID, Scheffold A, Schreiber S, Bacher P (2023) Selection of cross-reactive T cells by commensal and food-derived yeasts drives cytotoxic TH1 cell responses in Crohn's disease. *Nat Med* 29(10), 2602-2614.

Details

Schwarz C, Eschenhagen P, Schmidt H, Hohnstein T, Iwert C, Grehn C, Roehmel J, Steinke E, Stahl M, Lozza L, Tikhonova E, Rosati E, Stervbo U, Babel N, Mainz JG, Wisplinghoff H, Ebel F, Jia LJ, Blango MG, Hortschansky P, Brunke S, Hube B, Brakhage AA, Kniemeyer O, Scheffold A, Bacher P (2023) Antigen specificity and cross-reactivity drive functionally diverse anti-*Aspergillus fumigatus* T cell responses in cystic fibrosis. *J Clin Invest* 133(5), e161593.

Details

Seelbinder B[#], Lohinai Z[*], Vazquez-Uribe R, Brunke S, Chen X, Mirhakkak M, Lopez-Escalera S, Dome B, Megyesfalvi Z, Berta J, Galffy G, Dulka E, Wellejus A, Weiss GJ, Bauer M, Hube B, Sommer MOA, Panagiotou G (2023) *Candida* expansion in the gut of lung cancer patients associates with an ecological signature that supports growth under dysbiotic conditions. *Nat Commun* 14(1), 2673.

Details

Sonnberger J, Kasper L, Lange T, Brunke S, Hube B (2023) "We've got to get out"-Strategies of human pathogenic fungi to escape from phagocytes. *Mol Microbiol* 121(3), 341-358. (Review)

Details

Allert S, Schulz D, Kämmer P, Großmann P, Wolf T, Schäuble S, Panagiotou G, Brunke S, Hube B (2022) From environmental adaptation to host survival: Attributes that mediate pathogenicity of *Candida auris*. *Virulence* 13(1), 191-214.

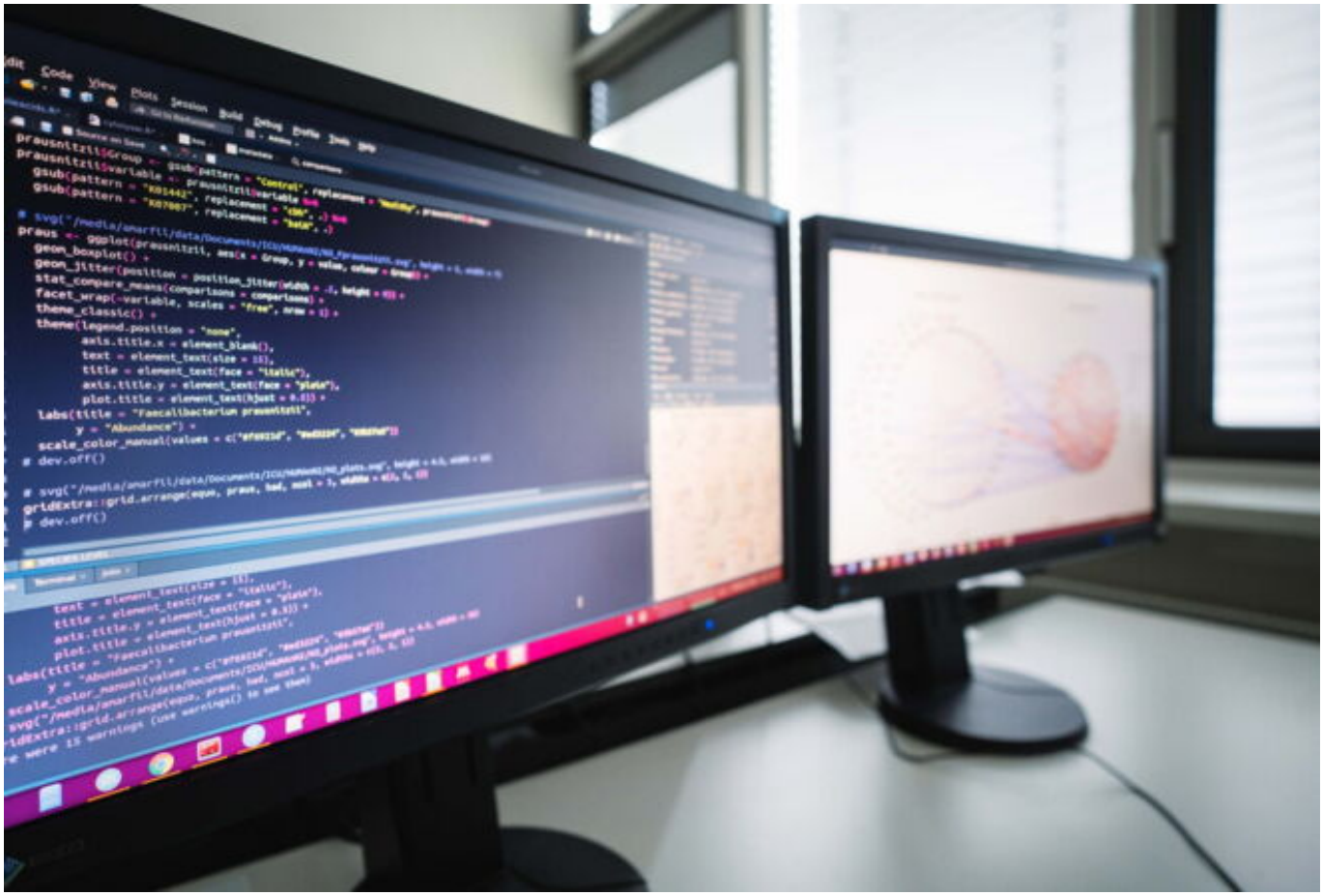
Details

- **1**
- 2
- 3
- 4
- 5
- 6
- 7
- Load more
- Last

Publication list as PDF

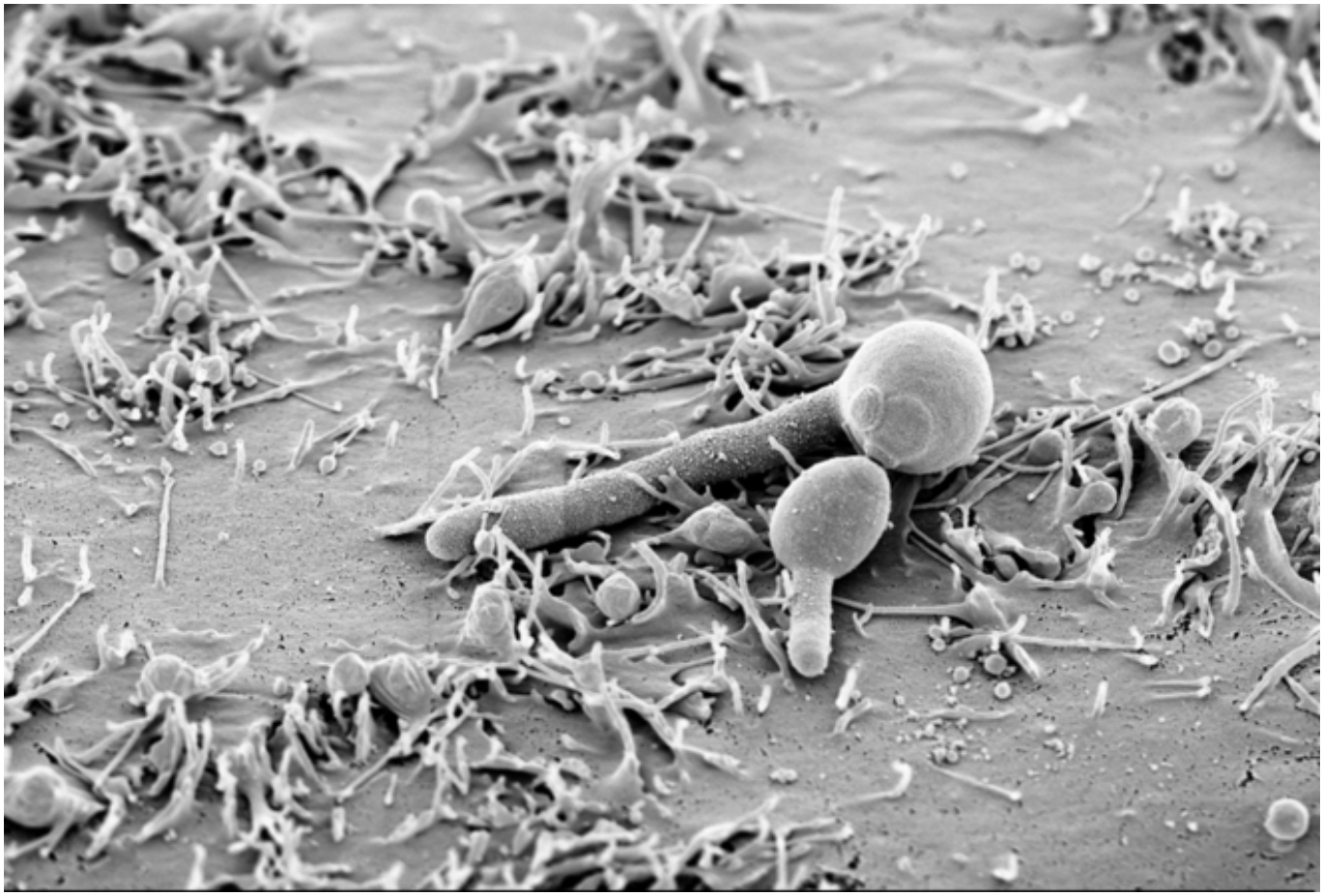
News

medac research award 2023 for cutting-edge research The Leibniz Institute for Natural Product Research and Infection Biology (Leibniz-HKI) has awarded the medac research award to the institute's bes... 03/07/2024 Read more



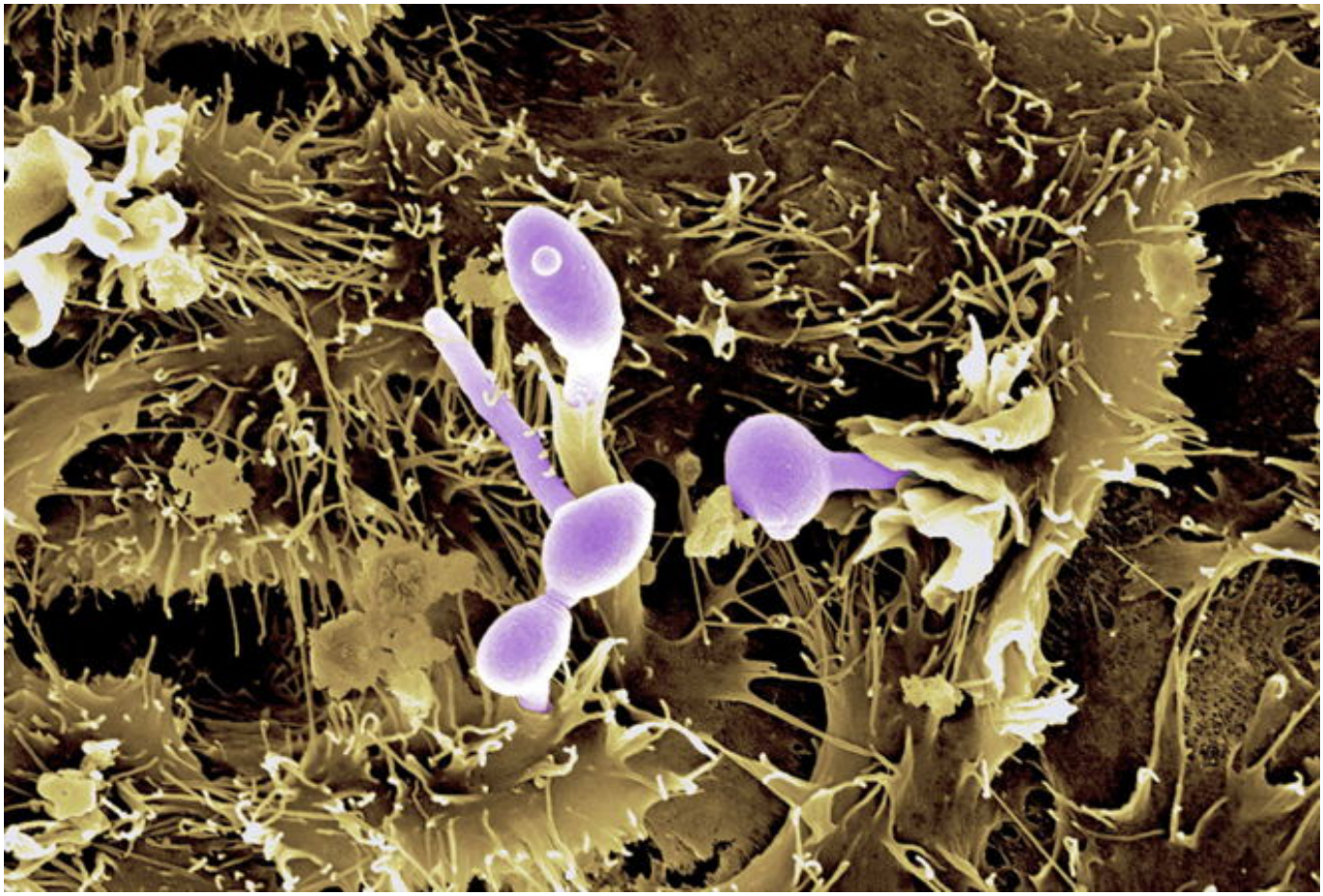
Intestinal bacteria influence the growth of fungi The bacteria present in the intestine provide information about the quantities of fungi of the potentially disease-causing Candida genus. Among them, … 05/11/2023 Read more

Keanu Reeves - the molecule Bacteria of the genus Pseudomonas produce a strong antimicrobial natural product, as researchers at the Leibniz Institute for Natural Product Research…
02/06/2023 Read more



Cellular altruism New immune defense against Candida Infections identified. More information in the german press release.

03/22/2021 Read more



Antibiotics affect balance of intestinal microbiome Interplay between fungi and bacteria impaired 09/15/2020 Read more