

Jakob Sprague

Microbial Pathogenicity Mechanisms +49 3641 532-1202 jakob.sprague@leibniz-hki.de

Topics

Pathomechanisms at the mucosal interphase

Publications

Sprague JL, Schille TB, Allert S, Trümper V, Lier A, Großmann P, Priest EL, Tsavou A, Panagiotou G, Naglik JR, Wilson D, Schäuble S, Kasper L[*], Hube B[*#] (2024) *Candida albicans* translocation through the intestinal epithelial barrier is promoted by fungal zinc acquisition and limited by NFκBmediated barrier protection. *Plos Pathogens* 20(3), e1012031.

Details



Alonso-Roman R, Last A, Mirhakkak MH, Sprague JL, Möller L, Großmann P, Graf K, Gratz R, Mogavero S, Vylkova S, Panagiotou G, Schäuble S, Hube B, Gresnigt MS (2022) *Lactobacillus rhamnosus* colonisation antagonizes *Candida albicans* by forcing metabolic adaptations that compromise pathogenicity. *Nat Commun* 13(1), 3192.

Details



Declas N, Maynard JRJ, Menin L, Gasilova N, Götze S, Sprague JL, Stallforth P, Matile S, Waser J[*] (2022) Tyrosine bioconjugation with hypervalent iodine. *Chem Sci* 13(43), 12808-12817.

Details



PAPER

Sprague JL, Kasper L, Hube B (2022) From intestinal colonization to systemic infections: *Candida albicans* translocation and dissemination. *Gut Microbes* 14(1), 2154548. (Review)

Details

PubMed OPEN ACCESS

PAPER

Radosa S, Sprague JL, Lau SH, Tóth R, Linde J, Krüger T, Sprenger M, Kasper L, Westermann M, Kniemeyer O, Hube B, Brakhage AA, Gácser A, Hillmann F (2021) The fungivorous amoeba *Protostelium aurantium* targets redox homeostasis and cell wall integrity during intracellular killing of *Candida parapsilosis*. *Cell Microbiol* 23(11), e13389.

Details

PubMed OPEN ACCESS

Radosa S, Ferling I, Sprague JL, Westermann M, Hillmann F (2019) The different morphologies of yeast and filamentous fungi trigger distinct killing and feeding mechanisms in a fungivorous amoeba. *Environ Microbiol* 21(5), 1809-1820.

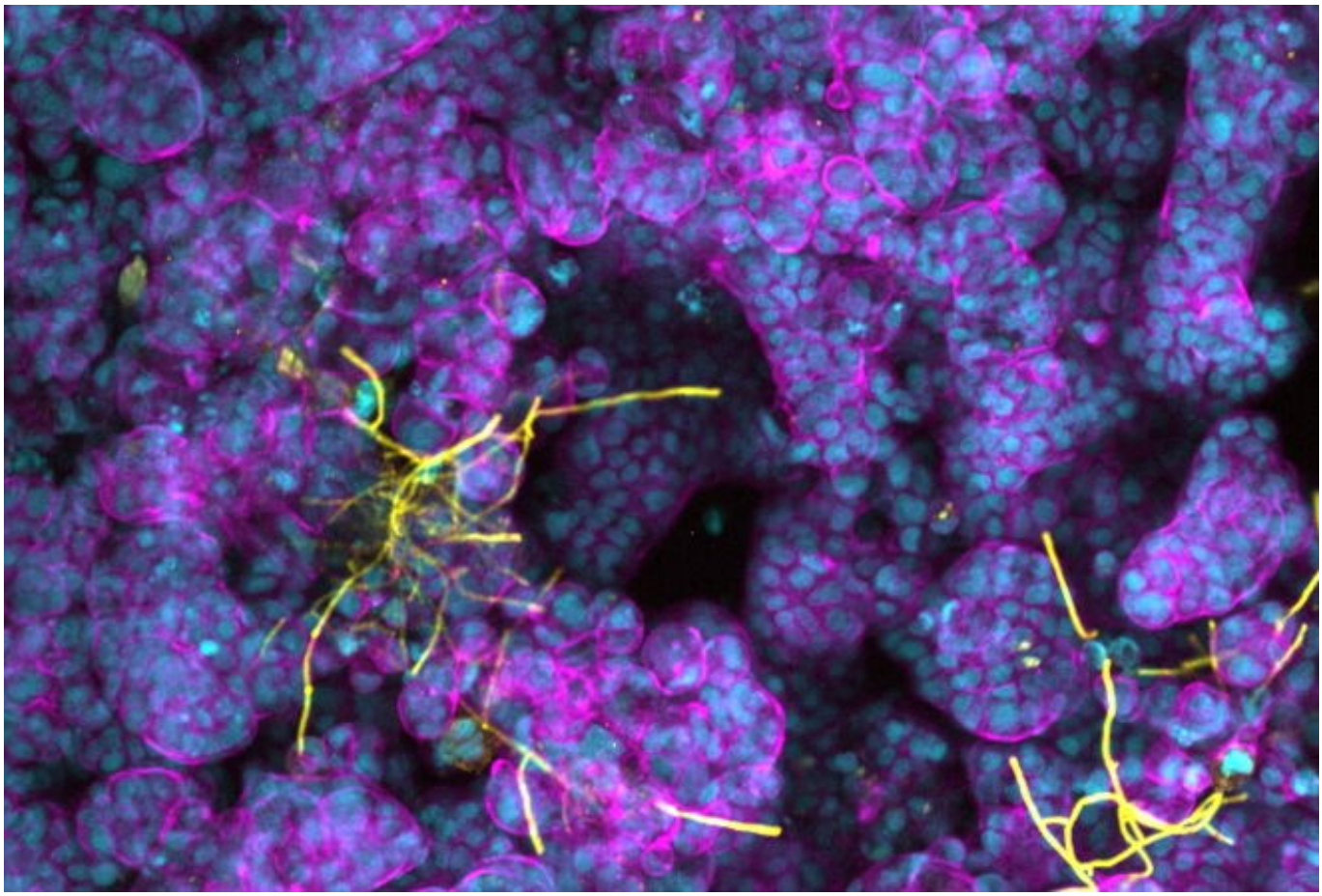
Details

Publication list as PDF

News



medac Research Award 2022: Successful Collaboration Four groundbreaking research projects at the Leibniz Institute for Natural Product Research and Infection Biology (Leibniz-HKI) were awarded the medac... 12/12/2022 Read more



Fragile balance in the gut The presence of probiotics such as lactic acid bacteria changes the environment in the intestine and forces the yeast fungus Candida albicans to chang...
06/15/2022 Read more