

Publications

Kaden T, Alonso-Román R, Stallhofer J, Gresnigt MS, Hube B, Mosig AS (2025) Leveraging organ-on-chip models to investigate host-microbiota dynamics and targeted therapies for inflammatory bowel disease. *Adv Healthc Mater* 14(10), e2402756. (Review)

Lange T, Sprague JL, Vij R, Alonso-Roman R, Jablonowski N, Radosa S, Krüger T, Kniemeyer O, Hillmann F, Brakhage AA, Allert S, Brunke S, Hube B (2025) "Pour some sugar on me"-Environmental *Candida albicans* isolates and the evolution of increased pathogenicity and antifungal resistance through sugar adaptation. *PLoS Pathog* 21(10), e1013542.

Alonso-Roman R, Mosig AS, Figge MT, Papenfort K, Eggeling C, Schacher FH, Hube B[#], Gresnigt MS (2024) Organ-on-chip models for infectious disease research. *Nat Microbiol* 9(4), 891-904. (Review)

Kaden T^{*}, Alonso-Roman R^{*}, Akbarimoghaddam P^{*}, Mosig AS, Graf K, Raasch M, Hoffmann B, Figge MT[#], Hube B[#], Gresnigt MS[#] (2024) Modeling of intravenous caspofungin administration using an intestine-on-chip reveals altered *Candida albicans* microcolonies and pathogenicity. *Biomaterials* 307, 122525.

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.

García-Díaz M, Cendra MDM, Alonso-Roman R, Urdániz M, Torrents E, Martínez E (2022) Mimicking the intestinal host-pathogen interactions in a 3D *in vitro* model: The role of the Mucus layer. *Pharmaceutics* 14(8), 1552.

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