

Publications

Koceva H, Amiratashani M, Akbarimoghaddam P, Hoffmann B, Zhurgenbayeva G, Gresnigt MS, Marcelino VR, Eggeling C, Figge MT, Amorim MJ, Mosig AS[#] (2025) Deciphering respiratory viral infections by harnessing organ-on-chip technology to explore the gut–lung axis. *Open Biol* 15(3), 240231.

Praetorius JP^{*}, Hitzler SUJ^{*}, Gresnigt MS[#], Figge MT[#] (2025) Image-based quantification of *Candida albicans* filamentation and hyphal length using the open-source visual programming language JIPipe. *FEMS Yeast Res* [Accepted]

Rosati D, Valentine M, Bruno M, Pradhan A, Dietschmann A, Jaeger M, Leaves I, van de Veerdonk FL, Joosten LAB, Roy S, Stappers MHT, Gow NAR, Hube B, Brown AJP, Gresnigt MS, Netea MG (2025) Lactic acid in the vaginal milieu modulates the *Candida*-host interaction. *Virulence* 16(1), 2451165.

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)

Cheng KO, Montaña DE, Zelante T, Dietschmann A, Gresnigt MS (2024) Inflammatory cytokine signalling in vulvovaginal candidiasis: a hot mess driving immunopathology. *Oxf Open Immunol* 5(1), iqae010. (Review)

Hitzler SUJ, Fernández C, Montaña DE, Dietschmann A, Gresnigt MS (2024) Microbial adaptive pathogenicity strategies to the host inflammatory environment. *FEMS Microbiol Rev* 49, fuae032. (Review)

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Kaden T, Alonso-Román R, Stallhofer J, Gresnigt MS, Hube B, Mosig AS (2024) Leveraging organ-on-chip models to investigate host-microbiota dynamics and targeted therapies for inflammatory bowel disease. *Adv Healthc Mater*, e2402756. (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.

Pekmezović M, Hube B, Gresnigt MS (2024) Pathogenicity strategies of *Candida* species during interactions with epithelial cells. In: Brakhage AA, Kniemeyer O, Zipfel PF (eds.) *The Mycota - Human and Animal Relationships* 3. 6, pp. 35-49. Springer, Cham. ISBN: 978-3-031-64852. (Review)

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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)

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