Dr. Teresa Lehnert

Alumni

Publications

Lehnert T, Praußе MTE, Hünniger K, Praetorius JP, Kurzai O, Figge MT (2021) Comparative assessment of immune evasion mechanisms in human whole-blood infection assays by a systems biology approach. *PLOS One* 16(4), e0249372.

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PAPER

Lehnert T[*], Leonhardt I[*], Timme S, Thomas-Rüddel D, Bloos F, Sponholz C, Kurzai O, Figge MT[#], Hünniger K[#] (2021) *Ex vivo* immune profiling in patient blood enables quantification of innate immune effector functions. *Sci Rep* 11(1), 12039.

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Sreekantapuram S[*], Lehnert T[*], Praße MTE, Berndt A, Berens C, Figge MT[**], Jacobsen ID[**]; [*] authors contributed equally; [**] corresponding authors (2020) Dynamic interplay of host and pathogens in an avian whole blood model. *Front Immunol* 11, 500.

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Tille A, Lehnert T, Zipfel PF, Figge MT (2020) Quantification of factor H mediated self versus non-self discrimination by mathematical modeling. *Front Immunol* 11, 1911.

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Praße MTE, Lehnert T, Timme S, Hünniger K, Leonhardt I, Kurzai O, Figge MT (2018) Predictive virtual infection modeling of fungal immune evasion in human whole blood. *Front Immunol* 9, 560.

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Timme S, Lehnert T, Praußе MTE, Hünniger K, Leonhardt I, Kurzai O, Figge MT (2018) Quantitative simulations predict treatment strategies against fungal infections in virtual neutropenic patients. *Front Immunol* 9, 667.

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Lehnert T, Figge MT (2017) Dimensionality of motion and binding valency govern receptor-ligand kinetics as revealed by agent-based modeling. *Front Immunol* 8, 1692.

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Duggan S, Essig F, Hünniger K, Mokhtari Z, Bauer L, Lehnert T, Brandes S, Häder A, Jacobsen ID, Martin R, Figge MT, Kurzai O (2015) Neutrophil activation by Candida glabrata but not Candida albicans promotes fungal uptake by monocytes. *Cell Microbiol* 17(9), 1259-1276.

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Lehnert T*, Timme S*, Pollmächer J, Hünniger K, Kurzai O, Figge MT (2015) Bottom-up modeling approach for the quantitative estimation of parameters in pathogen-host interactions. *Frontiers in Microbiology* 6(608), *authors contributed equally.

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- 2
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