

Publications

Chao YY, Puhach A, Frieser D, Arunkumar M, Lehner L, Seeholzer T, Garcia-Lopez A, van der Wal M, Fibi-Smetana S, Dietschmann A, Sommermann T, Ćiković T, Taher L, Gresnigt MS, Vastert SJ, van Wijk F, Panagiotou G, Krappmann D, Groß O, Zielinski CE (2023) Human TH17 cells engage gasdermin E pores to release IL-1 α on NLRP3 inflammasome activation. *Nat Immunol* [Epub ahead of print]

Matzaraki V, Beno A, Jaeger M, Gresnigt MS, Keur N, Boahen C, Cunha C, Gonçalves SM, Leite L, Lacerda JF, Campos A, van de Veerdonk FL, Joosten L, Netea MG, Carvalho A, Kumar V (2022) Genetic determinants of fungi-induced ROS production are associated with the risk of invasive pulmonary aspergillosis. *Redox Biol* 55, 102391.

Pekmezovic M, Dietschmann A, Gresnigt MS (2022) Type I interferons during host-fungus interactions: Is antifungal immunity going viral? *PLOS Pathog* 18(8), e1010740.

Akoumianaki T, Vaporidi K, Diamantaki E, Pène F, Beau R, Gresnigt MS, Gkoutzinopoulou M, Venichaki M, Drakos E, El-Benna J, Samonis G, Le KTT, Kumar V, Georgopoulos D, van de Veerdonk FL, Netea MG, Latge JP, Chamilos G (2021) Uncoupling of IL-6 signaling and LC3-associated phagocytosis drives immunoparalysis during sepsis. *Cell Host Microbe* 29(8), 1277-1293.

Alonso-Monge R, Gresnigt MS, Román E, Hube B, Pla J (2021) *Candida albicans* colonization of the gastrointestinal tract: A double-edged sword. *PLOS Pathog* 17(7), e1009710.

Austermeier S, Pekmezović M, Porschitz P, Lee S, Kichik N, Moyes DL, Ho J, Kotowicz NK, Naglik JR, Hube B, Gresnigt MS (2021) Albumin neutralizes hydrophobic toxins and modulates *Candida albicans* pathogenicity. *mBio* 12(3), e0053121.

Bruno M, Dewi IMW, Matzaraki V, Ter Horst R, Pekmezovic M, Rösler B, Groh L, Röring RJ, Kumar V, Li Y, Carvalho A, Netea MG, Latgé JP, Gresnigt MS, van de Veerdonk FL (2021) Comparative host transcriptome in response to pathogenic fungi identifies common and species-specific transcriptional antifungal host response pathways. *Comput Struct Biotechnol J* 19, 647-663.

Bruno M, Horst R, Pekmezovic M, Kumar V, Li Y, Netea MG, Latgé JP, Gresnigt MS, van de Veerdonk FL (2021) Data of common and species-specific transcriptional host responses to pathogenic fungi. *Data Brief* 35, 106928.

Cavalli G, Tengesdal IW, Gresnigt M, Nemkov T, Arts RJW, Domínguez-Andrés J, Molteni R, Stefanoni D, Cantoni E, Cassina L, Giugliano S, Schraa K, Mills TS, Pietras EM, Eisenmüsser EZ, Dagna L, Boletta A, D'Alessandro A, Joosten LAB, Netea MG, Dinarello CA (2021) The anti-inflammatory cytokine interleukin-37 is an inhibitor of trained immunity. *Cell Rep* 35(1), 108955.

Dewi IMW, Cunha C, Jaeger M, Gresnigt MS, Gkoutzinopoulou ME, Garishah FM, Duarte-Oliveira C, Campos CF, Vanderbeke L, Sharpe AR, Brüggemann RJ, Verweij PE, Lagrou K, Vande Velde G, de Mast Q, Joosten LAB, Netea MG, van der Ven AJAM, Wauters J, Carvalho A, van de Veerdonk FL (2021) Neuraminidase and SIGLEC15 modulate the host defense against pulmonary aspergillosis. *Cell Rep Med* 2(5), 100289.

Fischer J, Gresnigt MS, Werz O, Hube B, Garscha U (2021) *Candida albicans*-induced

leukotriene biosynthesis in neutrophils is restricted to the hyphal morphology. *FASEB J* 35(10), e21820.

Last A, Maurer M, Mosig AS, Gresnigt MS, Hube B (2021) *In vitro* infection models to study fungal-host interactions. *FEMS Microbiol Rev* 45(5), fuab005. (Review)

Pekmezovic M, Hovhannisyan H, Gresnigt MS, Iracane E, Oliveira-Pacheco J, Siscar-Lewin S, Seemann E, Qualmann B, Kalkreuter T, Müller S, Kamradt T, Mogavero S, Brunke S, Butler G, Gabaldón T, Hube B (2021) *Candida* pathogens induce protective mitochondria-associated type I interferon signalling and a damage-driven response in vaginal epithelial cells. *Nat Microbiol* 6(5), 643-657.

Austermeier S, Kasper L, Westman J, Gresnigt MS (2020) I want to break free - macrophage strategies to recognize and kill *Candida albicans*, and fungal counter-strategies to escape. *Curr Opin Microbiol* 58, 15-23. (Review)

Domínguez-Andrés J, Novakovic B, Li Y, Scicluna BP, Gresnigt MS, Arts RJW, Oosting M, Moorlag SJCFM, Groh LA, Zwaag J, Koch RM, Ter Horst R, Joosten LAB, Wijmenga C, Michelucci A, van der Poll T, Kox M, Pickkers P, Kumar V, Stunnenberg H, Netea MG (2019) The itaconate pathway is a central regulatory node linking innate immune tolerance and trained immunity. *Cell Metab* 29(1), 211-220.e5.

Grondman I, Arts RJW, Koch RM, Leijte GP, Gerretsen J, Bruse N, Kempkes RWM, Ter Horst R, Kox M, Pickkers P, Netea MG, Gresnigt MS (2019) Frontline science: Endotoxin-induced immunotolerance is associated with loss of monocyte metabolic plasticity and reduction of oxidative burst. *J Leukoc Biol* 106(1), 11-25.

Jaeger M, Matzaraki V, Aguirre-Gamboa R, Gresnigt MS, Chu X, Johnson MD, Oosting M, Smeekens SP, Withoff S, Jonkers I, Perfect JR, van de Veerdonk FL, Kullberg BJ, Joosten LAB, Li Y, Wijmenga C, Netea MG, Kumar V (2019) A genome-wide functional genomics approach identifies susceptibility pathways to fungal bloodstream infection in humans. *J Infect Dis* 220(5), 862-872.

Assendorp EL, Gresnigt MS, Sprengeler EGG, Meis JF, Dors N, van der Linden JWM, Henriët SSV (2018) Adjunctive interferon- γ immunotherapy in a pediatric case of *Aspergillus terreus* infection. *Eur J Clin Microbiol Infect Dis* 37(10), 1915-1922.

Kasper L, König A, Koenig PA, Gresnigt MS, Westman J, Drummond RA, Lionakis MS, Groß O, Ruland J, Naglik JR, Hube B (2018) The fungal peptide toxin Candidalysin activates the NLRP3 inflammasome and causes cytolysis in mononuclear phagocytes. *Nat Commun* 9(1), 4260.

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