

Publications

Herzog E, Ishida K, Scherlach K, Chen X, Bartels B, Niehs SP, Cheaib B, Panagiotou G, Hertweck C (2025) Antibacterial siderophores of *Pandora* pathogens and their impact on the diseased lung microbiota. *Angew Chem Int Ed Engl*, e202505714.

Nikitashina L, Chen X, Radosa L, Li K, Straßburger M, Seelbinder B, Böhnke W, Vielreicher S, Nietzsche S, Heinekamp T, Jacobsen ID, Panagiotou G, Brakhage AA (2025) The murine lung microbiome is disbalanced by the human-pathogenic fungus *Aspergillus fumigatus* resulting in enrichment of anaerobic bacteria. *Cell Rep* 44(3), 115442.

Nychas E*, Marfil-Sánchez A*, Chen X, Mirhakkak M, Li H, Jia Q, Xu A, Nielsen HB, Niewdorp M, Loomba R, Ni Y#, Panagiotou G# (2025) Discovery of robust and highly specific microbiome signatures of non-alcoholic fatty liver disease. *Microbiome* 13(1), 10.

Peng H, Schmiederer J, Chen X, Panagiotou G, Kries H# (2024) Controlling substrate- and stereospecificity of condensation domains in nonribosomal peptide synthetases. *ACS Chem Bio* 19(3), 599-606.

Csader S*, Chen X*, Leung H*, Männistö V, Pentikäinen H, Tauriainen MM, Savonen K, El-Nezami H, Schwab U#, Panagiotou G# (2023) Gut ecological networks reveal associations between bacteria, exercise and clinical profile in non-alcoholic fatty liver disease patients. *mSystems* 8(5), e0022423.

Mirhakkak MH*, Chen X*, Heinekamp T, Sae-Ong T, Xu LL, Ni Y, Kurzai O, Barber AE, Brakhage AA, Boutin S, Schäuble S#, Panagiotou G# (2023) Genome-scale Metabolic modeling of *Aspergillus fumigatus* strains reveals growth dependencies on the lung microbiome. *Nat Commun* 14(1), 4369.

Seelbinder B#, Lohinai Z*, Vazquez-Urbe R, Brunke S, Chen X, Mirhakkak M, Lopez-Escalera S, Dome B, Megyesfalvi Z, Berta J, Galfy G, Dulka E, Wellejus A, Weiss GJ, Bauer M, Hube B, Sommer MOA, Panagiotou G (2023) *Candida* expansion in the gut of lung cancer patients associates with an ecological signature that supports growth under dysbiotic conditions. *Nat Commun* 14(1), 2673.

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