

Publications

Ishida K, Shabuer G, Schieferdecker S, Pidot SJ, Stinear TP, Knuepfer U, Cyrulies M, Hertweck C (2020) Oak-associated negativicute equipped with ancestral aromatic polyketide synthase produces antimycobacterial dendrubins. *Chem Eur J* 26(58), 13147-13151.

Schieferdecker S, Shabuer G, Knuepfer U, Hertweck C (2019) Clostrindolin is an antimycobacterial pyrone alkaloid from *Clostridium beijerinckii*. *Org Biomol Chem* 17(25), 6119-6121.

Garvey M, Baumann M, Wulff M, Kumar ST, Markx D, Morgado I, Knüpfer U, Horn U, Mawrin C, Fändrich M, Balbach J (2016) Molecular architecture of A β fibrils grown in cerebrospinal fluid solution and in a cell culture model of A β plaque formation. *Amyloid* 23(2), 76-85.

Luo T, Krüger T, Knüpfer U, Kasper L, Wielsch N, Hube B, Kortgen A, Bauer M, Giamarellos-Bourboulis EJ, Dimopoulos G, Brakhage AA, Kniemeyer O (2016) Immunoproteomic analysis of antibody responses to extracellular proteins of *Candida albicans* revealed the importance of glycosylation for antigen recognition. *J Proteome Res* 15(8), 2394-2406.

Wulff M, Baumann M, Thümmeler A, Yadav JK, Heinrich L, Knüpfer U, Schlenzig D, Schierhorn A, Rahfeld JU, Horn U, Balbach J, Demuth HU, Fändrich M (2016) Enhanced Fibril Fragmentation of N-Terminally Truncated and Pyroglutamyl-Modified A β Peptides. *Angew Chem Int Ed* 55(16), 5081-5084.

Biermann M, Bardl B, Vollstädt S, Linnemann J, Knüpfer U, Seidel G, Horn U (2013) Simultaneous analysis of the non-canonical amino acids norleucine and norvaline in biopharmaceutical-related fermentation processes by a new ultra-high performance liquid chromatography approach. *Amino Acids* 44(4), 1225-1231.

Biermann M, Linnemann J, Knüpfer U, Vollstädt S, Bardl B, Seidel G, Horn U (2013) Trace element associated reduction of norleucine and norvaline accumulation during oxygen limitation in a recombinant *Escherichia coli* fermentation. *Microb Cell Fact* 12, 116.

Garvey M, Tepper K, Haupt C, Knüpfer U, Klement K, Meinhardt J, Horn U, Balbach J, Fändrich M (2011) Phosphate and HEPES buffers potentially affect the fibrillation and oligomerization mechanism of Alzheimer's A β peptide. *Biochem Biophys Res Commun* 409(3), 385-388.

Borowski A, Kuepper M, Horn U, Knüpfer U, Zissel G, Höhne K, Luttmann W, Krause S, Virchow JC, Friedrich K (2008) Interleukin-13 acts as an apoptotic effector on lung epithelial cells and induces pro-fibrotic gene expression in lung fibroblasts. *Clin Exp Allergy* 38(4), 619-628.

Richter ME, Traitcheva N, Knüpfer U, Hertweck C (2008) Sequential asymmetric polyketide heterocyclization catalyzed by a single cytochrome P450 monooxygenase (AurH). *Angew Chem Int Ed Engl* 47(46), 8872-8875.

Kraft M, Knüpfer U, Wenderoth R, Kacholdt A, Pietschmann P, Hock B, Horn U (2007) A dual expression platform to optimize the soluble production of heterologous proteins in the periplasm of *Escherichia coli*. *Appl Microbiol Biotechnol* 76(6), 1413-1422.

Kraft M, Knüpfer U, Wenderoth R, Pietschmann P, Hock B, Horn U (2007) An online monitoring system based on a synthetic sigma32-dependent tandem promoter for visualization of insoluble

proteins in the cytoplasm of Escherichia coli. *Appl Microbiol Biotechnol* 75(2), 397-406.

*equal contribution #corresponding author