

List of published preliminary research relevant to the research program

Hammerschmidt, Sven

Peer-reviewed Publications (selection)

1. Kanwal S, Jensch I, Palm GJ, Bronstrup M, Rohde M, Kohler TP, Somplatzki D, Tegge W, Jenkinson HF, **Hammerschmidt S**. 2017. Mapping the recognition domains of pneumococcal fibronectin-binding proteins PavA and PavB demonstrates a common pattern of molecular interactions with fibronectin type III repeats. *Mol Microbiol* 105:839-859
2. Binsker U, Kohler TP, Krauel K, Kohler S, Habermeyer J, Schwertz H, **Hammerschmidt S**. 2017. Serotype 3 pneumococci sequester platelet-derived human thrombospondin-1 via the adhesin and immune evasion protein Hic. *J Biol Chem* 292:5770-5783
3. Kohler TP, Scholz A, Kiachludis D, **Hammerschmidt S**. 2016. Induction of Central Host Signaling Kinases during Pneumococcal Infection of Human THP-1 Cells. *Front Cell Infect Microbiol* 6:48
4. Binsker U, Kohler TP, Krauel K, Kohler S, Schwertz H, **Hammerschmidt S**. 2015. Pneumococcal adhesins PavB and PspC are important for the interplay with human thrombospondin-1. *J Biol Chem* 290:14542-14555
5. Kohler S, Hallstrom T, Singh B, Riesbeck K, Sparta G, Zipfel PF, **Hammerschmidt S**. 2015. Binding of vitronectin and Factor H to Hic contributes to immune evasion of *Streptococcus pneumoniae* serotype 3. *Thromb Haemost* 113:125-142
6. Pribyl T, Moche M, Dreisbach A, Bijlsma JJ, Saleh M, Abdullah MR, Hecker M, van Dijk JM, Becher D, **Hammerschmidt S**. 2014. Influence of impaired lipoprotein biogenesis on surface and exoproteome of *Streptococcus pneumoniae*. *J Proteome Res* 13:650-667
7. Bergmann S, Schoenen H, **Hammerschmidt S**. 2013. The interaction between bacterial enolase and plasminogen promotes adherence of *Streptococcus pneumoniae* to epithelial and endothelial cells. *Int J Med Microbiol* 303:452-462
8. Asmat TM, Agarwal V, Saleh M, **Hammerschmidt S**. 2014. Endocytosis of *Streptococcus pneumoniae* via the polymeric immunoglobulin receptor of epithelial cells relies on clathrin and caveolin dependent mechanisms. *Int J Med Microbiol* 304:1233-1246
9. Bergmann S, Rohde M, Preissner KT, **Hammerschmidt S**. 2005. The nine residue plasminogen-binding motif of the pneumococcal enolase is the major cofactor of plasmin-mediated degradation of extracellular matrix, dissolution of fibrin and transmigration. *Thromb Haemost* 94:304-311
10. Bergmann S, Wild D, Diekmann O, Frank R, Bracht D, Chhatwal GS, **Hammerschmidt S**. 2003. Identification of a novel plasmin(ogen)-binding motif in surface displayed alpha-enolase of *Streptococcus pneumoniae*. *Mol Microbiol* 49:411-423