

List of published preliminary research relevant to the research program

Völker, Uwe

Peer-reviewed Publications (selection)

1. Mekonnen SA, Palma Medina LM, Michalik S, Loreti MG, Gesell Salazar M, van Dijl JM, **Völker U**. 2019. Metabolic niche adaptation of community- and hospital-associated methicillin-resistant *Staphylococcus aureus*. *J Proteomics* 193:154-161
2. Palma Medina LM, Becker AK, Michalik S, Yedavally H, Raineri EJM, Hildebrandt P, Gesell Salazar M, Surmann K, Pfortner H, Mekonnen SA, Salvati A, **Kaderali L**, van Dijl JM, **Völker U**. 2019. Metabolic Cross-talk Between Human Bronchial Epithelial Cells and Internalized *Staphylococcus aureus* as a Driver for Infection. *Mol Cell Proteomics* 18:892-908
3. Nagel A, Michalik S, Debarbouille M, Hertlein T, Gesell Salazar M, Rath H, Msadek T, Ohlsen K, van Dijl JM, **Völker U***, Mäder U*. 2018. Inhibition of Rho Activity Increases Expression of SaeRS-Dependent Virulence Factor Genes in *Staphylococcus aureus*, Showing a Link between Transcription Termination, Antibiotic Action, and Virulence. *MBio* 9: pii:e01332-18.
4. Gerth U, Krieger E, Zuhlke D, Reder A, **Völker U**, Hecker M. 2017. Stability of Proteins Out of Service: the GapB Case of *Bacillus subtilis*. *J Bacteriol* 199:pii:e00148-17
5. Schmidt F, Meyer T, Sundaramoorthy N, Michalik S, Surmann K, Depke M, Dhople V, Gesell Salazar M, Holtappels G, Zhang N, **Bröker BM**, Bachert C, **Völker U**. 2017. Characterization of human and *Staphylococcus aureus* proteins in respiratory mucosa by in vivo- and immunoproteomics. *J Proteomics* 155: 31-39
6. Mäder U, Nicolas P, Depke M, Pane-Farre J, Debarbouille M, van der Kooi-Pol MM, Guerin C, Derozier S, Hiron A, Jarmer H, Leduc A, Michalik S, Reilman E, Schaffer M, Schmidt F, Bessieres P, Noirot P, Hecker M, Msadek T, **Völker U***, van Dijl JM*. 2016. *Staphylococcus aureus* transcriptome architecture: From laboratory to infection-mimicking conditions. *PLoS Genet* 12:e1005962
7. Surmann K, Simon M, Hildebrandt P, Pfortner H, Michalik S, Stentzel S, Steil L, Dhople VM, Bernhardt J, Schluter R, Depke M, Gierok P, Lalk M, **Bröker BM**, Schmidt F, **Völker U**. 2015. A proteomic perspective of the interplay of *Staphylococcus aureus* and human alveolar epithelial cells during infection. *J Proteomics* 128: 203-217
8. Tuchscher L, Bischoff M, Lattar SM, Noto Llana M, Pfortner H, Niemann S, Geraci J, Van de Vyver H, Fraunholz MJ, Cheung AL, Herrmann M, **Völker U**, Sordelli DO, Peters G, Löffler B. 2015. Sigma factor SigB is crucial to mediate *Staphylococcus aureus* adaptation during chronic infections. *PLoS Pathogens* 11:e1004870.
9. Pfortner H, Burian MS, Michalik S, Depke M, Hildebrandt P, Dhople VM, Pane-Farre J, Hecker M, Schmidt F, **Völker U**. 2014. Activation of the alternative sigma factor SigB of *Staphylococcus aureus* following internalization by epithelial cells - An *in vivo* proteomics perspective. *Int J Med Microbiol* 304:177-187
10. Schmidt F, Scharf SS, Hildebrandt P, Burian M, Bernhardt J, Dhople V, Kalinka J, Gutjahr M, Hammer E, **Völker U**. 2010. Time-resolved quantitative proteome profiling of host-pathogen interactions: The response of *Staphylococcus aureus* RN1HG to internalisation by human airway epithelial cells. *Proteomics* 10: 2801-2811

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