

## List of published preliminary research relevant to the research program

### Surmann, Kristin

#### Peer-reviewed Publications (selection)

1. **Surmann K\***, Stopp M\*, Wörner S, Dhople VM, **Völker U**, Uden G, Hammer E. 2020. Fumarate dependent protein composition under aerobic and anaerobic growth conditions in *Escherichia coli*. *J Proteomics* 212:103583. doi: 10.1016/j.jprot.2019.103583. Epub 2019 Nov 14.
2. Herkt CE, Caffrey BE, **Surmann K**, Blankenburg S, Gesell Salazar M, Jung AL, Herbel SM, Hoffmann K, Schulte LN, Chen W, Sittka-Stark A, **Völker U**, Vingron M, Marsico A, Bertrams W, Schmeck B. 2020. A MicroRNA Network Controls *Legionella pneumophila* Replication in Human Macrophages via LGALS8 and MX1. *MBio* 11(2):e03155-19. doi: 10.1128/mBio.03155-19.
3. **Surmann K**, Depke M, Dhople VM, Pané-Farré J, Hildebrandt P, Gumz J, Schaible UE, **Völker U**, Schmidt F. 2018. Analysis of *Staphylococcus aureus* proteins secreted inside infected human epithelial cells. *Int J Med Microbiol*. 308:664-674. doi: 10.1016/j.ijmm.2018.06.002.
4. Wörner S\*, **Surmann K\***, Ebert-Jung A, **Völker U**, Uden G. 2017. Cellular concentrations of the transporters DctA, DcuB, and the sensor DcuS of *Escherichia coli* and the contributions of free and complexed DcuS to transcriptional regulation by DcuR. *J Bacteriol* 200:e00612-17. doi: 10.1128/JB.00612-17.
5. Ćudić E\*, **Surmann K\***, Panasia G, Hammer E, Hunke S. 2017. The role of the two-component systems Cpx and Arc in protein alterations upon gentamicin treatment in *Escherichia coli*. *BMC Microbiol* 17:197.
6. Hildebrandt P\*, **Surmann K\***, Gesell Salazar MG, Normann N, **Völker U**, Schmidt F. 2016. Alternative fluorescent labeling strategies for sorting, counting, and microscopic tracking of the Gram-positive pathogen *Staphylococcus aureus* for subsequent omics analyses. *Cytometry A* 89:932-940.
7. **Surmann K\***, Ćudić E\*, Hammer E, Hunke S. 2016. Molecular and proteome analyses highlight the importance of the Cpx envelope stress system for acid stress and cell wall stability in *Escherichia coli*. *Microbiologyopen* 5:582-596.
8. **Surmann K**, Simon M, Hildebrandt P, Pfortner H, Michalik S, Stentzel S, Steil L, Dhople VM, Bernhardt J, Schlüter R, Depke M, Gierok P, Lalk M, **Bröker BM**, Schmidt F, **Völker U**. 2016. A proteomic perspective of the interplay of *Staphylococcus aureus* and human alveolar epithelial cells during infection. *J Proteomics* 128:203-217.
9. **Surmann K**, Michalik S, Hildebrandt P, Gierok P, Depke M, Brinkmann L, Bernhardt J, Salazar MG, Sun Z, Shteynberg D, Kusebauch U, Moritz RL, Wollscheid B, Lalk M, **Völker U**, Schmidt F. 2014. Comparative proteome analysis reveals conserved and specific adaptation patterns of *Staphylococcus aureus* after internalization by different types of human non-professional phagocytic host cells. *Front Microbiol* 5:392.
10. **Surmann K\***, Laermann V\*, Zimmann P, Altendorf K, Hammer E. 2014. Absolute quantification of the Kdp subunits of *Escherichia coli* by multiple reaction monitoring. *Proteomics* 14:1630-1638.

(\*equal contributions)