

## Antelmann, Haike

### General Information

Name: Antelmann, Haike  
Academic title: Prof. Dr. rer. nat. habil.  
Gender: Female  
Institute address: Institut für Biologie-Mikrobiologie,  
Freie Universität Berlin,  
Königin-Luise-Straße 12-16  
Homepage: <http://www.haike-antelmann.de>  
Telephone number: 030-838-51221  
E-Mail address: haike.antelmann@fu-berlin.de  
Current position/status: W3 professor for Molecular Microbiology



### Academic Education and Qualifications

1988-1993 Study of Diplom-Biopharmakologie, Ernst-Moritz-Arndt-University of Greifswald  
1994-1998 PhD thesis, Supervisor: Prof. Michael Hecker, Institute for Microbiology, Ernst-Moritz-Arndt-University of Greifswald  
13.03.1998 PhD Dr. rer. nat. in Microbiology (*magna cum laude*)  
19.02.2009 Habilitation in Microbiology, Ernst-Moritz-Arndt-University of Greifswald

### Professional Career

01/1999-12/2005 Postdoctoral Researcher, Institute for Microbiology, Ernst-Moritz-Arndt-University of Greifswald  
1/2006-09/2015 Independent Group Leader for "Oxidative Stress physiology of bacteria", Institute for Microbiology, Ernst-Moritz-Arndt-University of Greifswald  
Since 10/2015 Full W3-professor for Molecular Microbiology, Institute for Biology-Microbiology, Freie University Berlin

### Professional Awards

1998 Promotionspreis der Ernst-Moritz-Arndt-Universität Greifswald  
2009-2012 Käthe-Kluth-Stipendium der Ernst-Moritz-Arndt-Universität Greifswald  
2013 ERC Consolidator Grant Award

### Publications [5 most important publications out of >80 publications, H-index: 38]

1. Gaballa, A., Newton, J., **Antelmann, H.**, Parsonage, D., Upton, H., Rawat, M., Claiborne, A., Fahey, R., and Helmann, J.D.\* Biosynthesis and functions of Bacillithiol: a major low molecular weight thiol in Bacilli, *Proc. Natl. Acad. Sci.* **2010**)
2. Chi, B.K., Gronau, K., Mäder, U., Hessling, B., Becher, D., **Antelmann, H.**\* S-bacillithiolation protects against hypochlorite stress in *Bacillus subtilis* as revealed by transcriptomics and redox proteomics. *Mol. Cell. Proteomics*, 10: M111.009506 **(2011)**
3. Palm, G. J., Chi, B. K., Waack, P.; Gronau, K., Becher, D., Albrecht, D., Hinrichs, W., Read, R.J., **Antelmann, H.**\* *Structural insights into the redox-switch mechanism of the MarR/DUF24-type regulator HypR.* *Nucleic Acids Research* 40: 4178-4192 **(2012)**

4. Chi, B.K., Roberts, A., Huyen,T.T.T., Gronau, K., Becher, D., Albrecht, D., Hamilton, C. and **Antelmann, H.**\* S-bacillithiolation protects conserved and essential proteins against hypochlorite stress in *Firmicutes* bacteria. *Antioxidants & Redox Signaling*, 18: 1273-1295 (2013)
5. Chi, B. K., Busche. T., Van Laer, K., Bäsell, K., Becher, D., Clermont, L., Seibold, G., Persicke, M., Kalinowski, J., Messens, J. and **Antelmann, H.**\* Protein S-mycothiolation functions as redox-switch and thiol protection mechanism in *Corynebacterium glutamicum* under hypochlorite stress. *Antioxidants & Redox Signaling* 20: 589-605, doi:10.1089/ars.2013.5423 (2014)