

## **Publications Ziebuhr (selected)**

### **Original articles**

Soundararajan M, Marincola G, Liang O, Marciniak T, Wencker FDR, Hofmann F, Schollenbruch H, Kobusch I, Linnemann S, Wolf SA, Helal M, Semmler T, Walther B, Schoen C, Nyasinga J, Revathi G, Boelhauve M, **Ziebuhr W** (2023)

*Farming Practice Influences Antimicrobial Resistance Burden of Non-Aureus Staphylococci in Pig Husbandries*

**Microorganisms** 11: 31

Kirchner L, Marciniak T, **Ziebuhr W**, Scherf-Clavel O, Holzgrabe U (2023)

*Development, validation and application of a selective and sensitive LC-MS/MS method for the quantification of daptomycin in a suspension of *Mammallicoccus sciuri* in Mueller-Hinton broth*

**Journal of Pharmaceutical and Biomedical Analysis** 227: 115293

Ocloo R, Nyasinga J, Munshi Z, Hamdy A, Marciniak T, Soundararajan M, Newton-Foot M, **Ziebuhr W**, Shittu A, Revathi G, Abouelfetouh A, Whitelaw A (2022)

*Epidemiology and antimicrobial resistance of staphylococci other than *Staphylococcus aureus* from domestic animals and livestock in Africa: a systematic review*

**Frontiers in Veterinary Science** 9: 1059054

Huber C, Wolf SA, **Ziebuhr W**, Holmes MA, Assmann J, Lubke-Becker A, Thurmer A, Semmler T, Brombach J, Bethe A, Bischoff M, Wieler LH, Epping L, Walther B (2022)

*How to survive pig farming: Mechanism of SCCmec element deletion and metabolic stress adaptation in livestock-associated MRSA*

**Frontiers in Microbiology** 13: 969961

Wencker FDR, Marincola G, Schoenfelder SMK, Maass S, Becher D, **Ziebuhr W** (2021)

*Another layer of complexity in *Staphylococcus aureus* methionine biosynthesis control: unusual RNase III-driven T-box riboswitch cleavage determines met operon mRNA stability and decay*

**Nucleic Acids Research** 49, 4: 2192-2212

Marincola G, Liang O, Schoen C, Abouelfetouh A, Hamdy A, Wencker FDR, Marciniak T, Becker K, Kock R, **Ziebuhr W** (2021)

*Antimicrobial Resistance Profiles of Coagulase-Negative Staphylococci in Community-Based Healthy Individuals in Germany*

**Frontiers in Public Health** 9: 684456

Marincola G, Jaschkowitz G, Kieninger AK, Wencker FDR, Fessler AT, Schwarz S, **Ziebuhr W** (2021)

*Plasmid-Chromosome Crosstalk in *Staphylococcus aureus*: A Horizontally Acquired Transcription Regulator Controls Polysaccharide Intercellular Adhesin-Mediated Biofilm Formation*

**Frontiers in Cellular Infection Microbiology** 11: 660702

Barthels F, Meyr J, Hammerschmidt SJ, Marciniak T, Rader HJ, **Ziebuhr W**, Engels B, Schirmeister T (2021)

*2-Sulfonylpyrimidines as Privileged Warheads for the Development of *S. aureus* Sortase A Inhibitors*

**Frontiers in Molecular Biosciences** 8: 804970

Huber C, Stamm I, **Ziebuhr W**, Marincola G, Bischoff M, Strommenger B, Jaschkowitz G, Marciniak T, Cuny C, Witte W, Doellinger J, Schaudinn C, Thurmer A, Epping L, Semmler T, Lubke-Becker A, Wieler LH, Walther B (2020)

*Silence as a way of niche adaptation: meC-MRSA with variations in the accessory gene regulator (agr) functionality express kaleidoscopic phenotypes*

**Scientific Reports** 10, 1: 14787

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*Asymmetric Disulfanylbenzamides as Irreversible and Selective Inhibitors of Staphylococcus aureus Sortase A*

**ChemMedChem** 15, 10: 839-850

Schoenfelder SMK, Lange C, Prakash SA, Marincola G, Lerch MF, Wencker FDR, Forstner KU, Sharma CM, **Ziebuhr W** (2019)

*The small non-coding RNA RsaE influences extracellular matrix composition in Staphylococcus epidermidis biofilm communities*

**PLoS Pathogens** 15, 3: e1007618

Marincola G, Wencker FDR, **Ziebuhr W** (2019)

*The Many Facets of the Small Non-coding RNA RsaE (RoxS) in Metabolic Niche Adaptation of Gram-Positive Bacteria*

**Journal of Molecular Biology** 431, 23: 4684-4698

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*A non-coding RNA from the intercellular adhesion (ica) locus of Staphylococcus epidermidis controls polysaccharide intercellular adhesion (PIA)-mediated biofilm formation*

**Molecular Microbiology** 111, 6: 1571-1591

Balasubramanian S, Skaf J, Holzgrabe U, Bharti R, Forstner KU, **Ziebuhr W**, Humeida UH, Abdelmohsen UR, Oelschlaeger TA (2018)

*A New Bioactive Compound From the Marine Sponge-Derived Streptomyces sp. SBT348 Inhibits Staphylococcal Growth and Biofilm Formation*

**Frontiers in Microbiology** 9: 1473

Schoenfelder SM, Dong Y, Fessler AT, Schwarz S, Schoen C, Kock R, **Ziebuhr W** (2017)

*Antibiotic resistance profiles of coagulase-negative staphylococci in livestock environments*

**Veterinary Microbiology** 200: 79-87

Fessler AT, Zhao Q, Schoenfelder S, Kadlec K, Brenner Michael G, Wang Y, **Ziebuhr W**, Shen J, Schwarz S (2017)

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**Veterinary Microbiology** 200: 95-100

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*Occurrence of cfr-mediated multiresistance in staphylococci from veal calves and pigs, from humans at the corresponding farms, and from veterinarians and their family members*

**Veterinary Microbiology** 200: 88-94

Balasubramanian S, Othman EM, Kampik D, Stopper H, Hentschel U, **Ziebuhr W**, Oelschlaeger TA, Abdelmohsen UR (2017)  
*Marine Sponge-Derived Streptomyces sp. SBT343 Extract Inhibits Staphylococcal Biofilm Formation*  
**Frontiers in Microbiology** 8: 236

**Ziebuhr W**, Vogel J (2015)  
*The end is not the end: remnants of tRNA precursors live on to sponge up small regulatory RNAs*  
**Molecular Cell** 58, 3: 389-390

Rajan V, Schoenfelder SM, **Ziebuhr W**, Gopal S (2015)  
*Genotyping of community-associated methicillin resistant Staphylococcus aureus (CA-MRSA) in a tertiary care centre in Mysore, South India: ST2371-SCCmec IV emerges as the major clone*  
**Infection Genetics and Evolution** 34: 230-235

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*The burden of zoonotic MRSA colonization and infection in Germany. MRSA als Erreger von Zoonosen in Deutschland.*  
**Berliner und Münchener Tierärztliche Wochenschrift** 9, 10: 384–398

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**International Journal of Medical Microbiology** 304, 7: 777-786

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**PLoS Pathogens** 9, 9: e1003606

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**PLoS One** 8, 8: e71644

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*Functional variation reflects intra-strain diversity of Staphylococcus aureus small colony variants in the host-pathogen interaction*  
**International Journal of Medical Microbiology** 303, 2: 61-69.

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**Proteomics** 10, 8: 1634-1644

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*Hypervariability of biofilm formation and oxacillin resistance in a *Staphylococcus epidermidis* strain causing persistent severe infection in an immunocompromised patient*  
**J Clin Microbiol** 48, 7: 2407-2412

Kozytska S, Stauss D, Pawlik MC, Hensen S, Eckart M, **Ziebuhr W**, Witte W, Ohlsen K (2010)  
*Identification of specific genes in *Staphylococcus aureus* strains associated with bovine mastitis*  
**Vet Microbiol** 145, 3-4: 360-365

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*Characterization of the Transposase Encoded by IS256, the Prototype of a Major Family of Bacterial Insertion Sequence Elements*  
**J Bacteriol** 192, 16: 4153-4163

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**Proteomics** 9, 5: 1152-1176

Lorenz U, Huttinger C, Schafer T, **Ziebuhr W**, Thiede A, Hacker J, Engelmann S, Hecker M, Ohlsen K (2008)  
*The alternative sigma factor sigma B of *Staphylococcus aureus* modulates virulence in experimental central venous catheter-related infections*  
**Microbes and Infection** 10, 3: 217-223

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*Molecular characterization of regulatory genes associated with biofilm variation in a *Staphylococcus aureus* strain*  
**Journal of Microbiology and Biotechnology** 18, 1: 28-34

Hennig S, Ziebuhr W (2008)  
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**J Bacteriol** 190, 4: 1488-1490

Neugebauer U, Schmid U, Baumann K, **Ziebuhr W**, Kozitskaya S, Holzgrabe U, Schmitt M, Popp J (2007)  
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**The Journal of Physical Chemistry A** 111, 15: 2898-2906

Neugebauer U, Schmid U, Baumann K, **Ziebuhr W**, Kozitskaya S, Deckert V, Schmitt M, Popp J (2007)  
*Towards a detailed understanding of bacterial metabolism--spectroscopic characterization of *Staphylococcus epidermidis**  
**Chemphyschem** 8, 1: 124-137

Hoerr V, **Ziebuhr W**, Kozitskaya S, Katzwitsch E, Holzgrabe U (2007)  
*Laser-induced fluorescence-capillary electrophoresis and fluorescence microplate reader measurement: two methods to quantify the effect of antibiotics*  
**Analytical Chemistry** 79, 19: 7510-7518

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*Spontaneous switch to PIA-independent biofilm formation in an ica-positive *Staphylococcus epidermidis* isolate*  
**International Journal of Medical Microbiology** 297, 2: 117-122

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*Characterization of bacterial growth and the influence of antibiotics by means of UV resonance Raman spectroscopy*  
**Biopolymers** 82, 4: 306-311

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**Proteomics** 6, 12: 3602-3613

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*Clonal analysis of *Staphylococcus epidermidis* isolates carrying or lacking biofilm-mediating genes by multilocus sequence typing*  
**Journal of Clinical Microbiology** 43, 9: 4751-4757

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**Infection and Immunity** 72, 2: 1210-1215

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*Impact of antibiotics on conjugational resistance gene transfer in *Staphylococcus aureus* in sewage*  
**Environmental Microbiology** 5, 8: 711-716

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*Detection of *Staphylococcus aureus* by 16S rRNA directed in situ hybridisation in a patient with a brain abscess caused by small colony variants*  
**Journal of Neurology Neurosurgery and Psychiatry** 74, 7: 1000-1002

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**Journal of Bacteriology** 184, 17: 4709-4714

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*Detection of the icaADBC gene cluster and biofilm formation in *Staphylococcus epidermidis* isolates from catheter-related urinary tract infections*  
**International Journal of Antimicrobial Agents** 19, 6: 570-575

**Ziebuhr W**, Loessner I, Krimmer V, Hacker J (2001)  
*Methods to detect and analyze phenotypic variation in biofilm-forming Staphylococci*  
**Methods in Enzymology** 336, 195-205

**Ziebuhr W**, Dietrich K, Trautmann M, Wilhelm M (2000)  
*Chromosomal rearrangements affecting biofilm production and antibiotic resistance in a Staphylococcus epidermidis strain causing shunt-associated ventriculitis*  
**International Journal of Medical Microbiology** 290, 1: 115-120

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*Effect of subinhibitory antibiotic concentrations on polysaccharide intercellular adhesin expression in biofilm-forming Staphylococcus epidermidis*  
**Antimicrobial Agents and Chemotherapy** 44, 12: 3357-3363

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*Alternative transcription factor sigma(B) is involved in regulation of biofilm expression in a Staphylococcus aureus mucosal isolate*  
**Journal of Bacteriology** 182, 23: 6824-6826.

**Ziebuhr W**, Krimmer V, Rachid S, Loessner I, Götz F, Hacker J (1999)  
*A novel mechanism of phase variation of virulence in Staphylococcus epidermidis: evidence for control of the polysaccharide intercellular adhesin synthesis by alternating insertion and excision of the insertion sequence element IS256*  
**Molecular Microbiology** 32, 2: 345-356

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*Detection of Staphylococcus aureus and Staphylococcus epidermidis in clinical samples by 16S rRNA-directed in situ hybridization*  
**Journal of Clinical Microbiology** 37, 8: 2667-2673

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**Antimicrobial Agents and Chemotherapy** 42, 11: 2817-2823

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**Infection and Immunity** 65, 3: 890-896

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**Peritoneal Dialysis International** 16, 2: 179-181

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**Antimicrobial Agents and Chemotherapy** 38, 6: 1251-1255

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**FEMS Microbiology Letters** 74, 2-3: 181-185

### Review articles

Heilmann C, **Ziebuhr W**, Becker K (2019)  
*Are coagulase-negative staphylococci virulent?*  
**Clinical Microbiology and Infection** 25, 9: 1071-1080

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*Success through diversity - how *Staphylococcus epidermidis* establishes as a nosocomial pathogen*  
**International Journal of Medical Microbiology** 300, 6: 380-386. S1438-4221

Becker K, Bierbaum G, von Eiff C, Engelmann S, Götz F, Hacker J, Hecker M, Peters G, Rosenstein R, **Ziebuhr W** (2007)  
*Understanding the physiology and adaptation of staphylococci: A postgenomic approach*  
**International Journal of Medical Microbiology** 297: 483-501

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*Nosocomial infections by *Staphylococcus epidermidis*: how a commensal bacterium turns into a pathogen*  
**International Journal of Antimicrobial Agents** 28 Suppl 1:S14-20

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*Genome variability in gram-positive pathogenic bacteria – impact on virulence and evolution.*  
**Current Genomics** 5 (7): 589-600.

**Ziebuhr W**, Xiao K, Coulibaly B, Schwarz R, Dandekar T (2004)  
*Pharmacogenomic strategies against resistance development in microbial infections*  
**Pharmacogenomics** 5: 361-79

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*Die Suche nach neuen Wirkstoffen gegen Infektionskrankheiten*  
**Biospektrum** 8 (Sonderausgabe): 489-491

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*Evolution of microbial pathogens*  
**Philos Trans R Soc Lond B Biol Sci** 355: 695-704

**Ziebuhr W**, Ohlsen K, Karch H, Korhonen T, Hacker J (1999)  
*Evolution of bacterial pathogenesis*  
**Cellular and Molecular Life Sciences** 56: 719-728

## **Book chapters**

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*Methionine Synthesis in Microbes.*

*In:* The Handbook of Microbial Metabolism of Amino Acids, Edited by: JPF D'Mello, pp 179-197

Boston: CAB International

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**Ziebuhr W**, Böhm A, Vogel J (2013)

*Regulatory Mechanisms of Special Significance: Role of Small RNAs in Virulence Regulation*

*In:* Regulation of Bacterial Virulence. Edited by: M. L. Vasil and A. J. Darwin. pp 493-527.

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*In:* Genome Plasticity and Infectious Diseases. Edited by: J. Hacker, U. Dobrindt and R. Kurth. pp 44-57.

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*In:* Hospital Epidemiology and Infection Control. Edited by: C. G. Mayhall. pp 443-462

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*In:* Pathogenomics Edited by J. Hacker and U. Dobrindt, pp. 175-202.

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*Mikrobiologische Aspekte und Resistenzentwicklung*

*In:* Septische Knochen- und Gelenkchirurgie. Edited by C. Hendrich, S. Frommelt, and J. Eulert, pp. 20-26.

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*Escherichia coli in urinary tract infections*

pp. 585-603 Edited by M. Sussman et al. Mol. Med. Microbiol., Acad. Press.

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*Staphylococcus aureus and Staphylococcus epidermidis: emerging pathogens in nosocomial infections.*

pp. 102-107. *In* I. Mühlendorfer and K.P. Schäfer (eds.) Contrib. Microbiol. Vol. 8. Karger, Basel.

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pp. 224-226. *In* J. Hacker, J. Heesemann (eds.) Molekulare Infektionsbiologie. Interaktionen zwischen Mikroorganismen und Zellen. Spektrum Akademischer Verlag Heidelberg, Berlin.

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*Mobile elements, phages and genomic islands of Staphylococci and Streptococci*  
pp. 265-287. In J. Kaper and J. Hacker (eds.) Pathogenicity islands and other mobile virulence elements.  
ASM-Press, Washington D.C.