

Publications Ziebuhr (selected)

Original articles

Marciniak T, Kirchner L, Wolf SA, Walther B, Bischler T, Nyasinga J, Gunturu R, Semmler T, Grafenhan T, Whitelaw A, Scherf-Clavel O, Holzgrabe U, **Ziebuhr W**. (2025)
Emergence of transferable daptomycin resistance in Gram-positive bacteria.
NPJ Antimicrobials and Resistance 3(1):33. [PMC12033364](#)

Hubner AF, Weldert AC, Marciniak T, Hof F, Beck VS, Carien S, Mulartschik SN, Wolf E, **Ziebuhr W**, Barthels F. (2025)
Nanoscale Direct-to-Biology Optimization and Structural Insights into Selective S. aureus TrmD Inhibitors.
Journal of Medicinal Chemistry 68(24):26246-62. [PMC12751012](#)

Ocloo R, Newton-Foot M, Chabuka L, **Ziebuhr W**, Whitelaw AC. (2024)
Epidemiology and antibiotic resistance of staphylococci on commercial pig farms in Cape Town, South Africa.
Scientific Reports 14(1):19747. [PMC11347665](#)

Nyasinga J, Munshi Z, Kigen C, Nyerere A, Musila L, Whitelaw A, **Ziebuhr W**, Revathi G. (2024)
Displacement of Hospital-Acquired, Methicillin-Resistant Staphylococcus aureus Clones by Heterogeneous Community Strains in Kenya over a 13-Year Period.
Microorganisms 12(6). [PMC11205442](#)

Kirchner L, Marciniak T, Erk C, **Ziebuhr W**, Scherf-Clavel O, Holzgrabe U. (2024)
Structure Elucidation of the Daptomycin Products Generated upon Heterologous Expression of the Daptomycin Resistance Gene Cluster drcAB.
ACS Infectious Diseases 10(12):4271-8. [PMC11650644](#)

Hamdy A, Marciniak T, Alseqely M, **Ziebuhr W**, Abouelmagd E, Abouelfetouh A. (2024)
Phenotypic and genotypic characterization of commensal staphylococci isolated from young volunteers in Alexandria, Egypt.
Scientific Reports 14(1):14850. [PMC11211488](#)

Ocloo R, Newton-Foot M, **Ziebuhr W**, Whitelaw AC. (2023)
Molecular epidemiology and antibiotic resistance of staphylococci other than Staphylococcus aureus in children in Cape Town, South Africa.
Frontiers in Microbiology 14:1239666. [PMC10437061](#)

Kirchner L, Marciniak T, **Ziebuhr W**, Scherf-Clavel O, Holzgrabe U. (2023)
The solvent- and surface-dependent adsorption of the lipopeptide antibiotic daptomycin: The general necessity of adsorption tests.
Journal of Pharmaceutical and Biomedical Analysis 235:115657. [PMID 37619296](#)

Soundararajan M, Marincola G, Liong 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 Mammaliococcus 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

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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)

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

ChemMedChem 15, 10: 839-850

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

PLoS Pathogens 15, 3: e1007618

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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

Lerch MF, Schoenfelder SMK, Marincola G, Wencker FDR, Eckart M, Forstner KU, Sharma CM, Thormann KM, Kucklick M, Engelmann S, **Ziebuhr W** (2019)

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

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

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Antibiotic resistance profiles of coagulase-negative staphylococci in livestock environments

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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

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The end is not the end: remnants of tRNA precursors live on to sponge up small regulatory RNAs

Molecular Cell 58, 3: 389-390

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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.

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Methionine Biosynthesis in Staphylococcus aureus Is Tightly Controlled by a Hierarchical Network Involving an Initiator tRNA-Specific T-box Riboswitch

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The Influence of Fluoroquinolone Drugs on the Bacterial Growth of S. epidermidis Utilizing the Unique Potential of Vibrational Spectroscopy

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Spontaneous switch to PIA-independent biofilm formation in an ica-positive Staphylococcus epidermidis isolate

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Impact of the accessory gene regulatory system (Agr) on extracellular proteins, codY expression and amino acid metabolism in Staphylococcus epidermidis

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Clonal analysis of Staphylococcus epidermidis isolates carrying or lacking biofilm-mediating genes by multilocus sequence typing

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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

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Are coagulase-negative staphylococci virulent?
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Understanding the physiology and adaptation of staphylococci: A postgenomic approach
International Journal of Medical Microbiology 297: 483-501

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Philos Trans R Soc Lond B Biol Sci 355: 695-704

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In: The Handbook of Microbial Metabolism of Amino Acids, Edited by: JPF D'Mello, pp 179-197
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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. Publications Ziebuhr (selected)

Original articles

Soundararajan M, Marincola G, Liong 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,

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Journal of Pharmaceutical and Biomedical Analysis 227: 115293

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Shittu A, Revathi G, Abouelfetouh A, Whitelaw A (2022)

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Frontiers in Veterinary Science 9: 1059054

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How to survive pig farming: Mechanism of SCCmec element deletion and metabolic stress adaptation

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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

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Frontiers in Public Health 9: 684456

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(2021)

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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: *mecC*-MRSA with variations in the accessory gene regulator

(agr) functionality express kaleidoscopic phenotypes

Scientific Reports 10, 1: 14787

Barthels F, Marincola G, Marciniak T, Konhauser M, Hammerschmidt S, Bierlmeier J, Distler U, Wich

PR, Tenzer S, Schwarzer D, Ziebuhr W, Schirmeister T (2020)

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