

# Anne Marie Krachler

## List of Publications by Year in descending order

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Version: 2024-02-01

55  
papers

2,213  
citations

257450

24  
h-index

243625

44  
g-index

62  
all docs

62  
docs citations

62  
times ranked

3306  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Mechanisms of outer membrane vesicle entry into host cells. <i>Cellular Microbiology</i> , 2016, 18, 1508-1517.  | 2.1 | 229       |
| 2  | Targeting the bacteriaâ€“host interface. <i>Virulence</i> , 2013, 4, 284-294.  | 4.4 | 191       |
| 3  | Outer membrane adhesion factor multivalent adhesion molecule 7 initiates host cell binding during infection by Gram-negative pathogens. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 11614-11619. | 7.1 | 128       |
| 4  | Outer Membrane Vesicle-Host Cell Interactions. <i>Microbiology Spectrum</i> , 2019, 7, .   | 3.0 | 120       |
| 5  | Manipulation of kinase signaling by bacterial pathogens. <i>Journal of Cell Biology</i> , 2011, 195, 1083-1092.  | 5.2 | 117       |
| 6  | Host attachment and fluid shear are integrated into a mechanical signal regulating virulence in <i>Escherichia coli</i> O157:H7. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 5503-5508.          | 7.1 | 117       |
| 7  | Type III Effector VopC Mediates Invasion for <i>Vibrio</i> Species. <i>Cell Reports</i> , 2012, 1, 453-460.  | 6.4 | 110       |
| 8  | Against the tide: the role of bacterial adhesion in host colonization. <i>Biochemical Society Transactions</i> , 2016, 44, 1571-1580.  | 3.4 | 90        |
| 9  | Allosteric $\beta$ -propeller signalling in TolB and its manipulation by translocating colicins. <i>EMBO Journal</i> , 2009, 28, 2846-2857.  | 7.8 | 81        |
| 10 | Functional Characterization of the Interaction between Bacterial Adhesin Multivalent Adhesion Molecule 7 (MAM7) Protein and Its Host Cell Ligands. <i>Journal of Biological Chemistry</i> , 2011, 286, 38939-38947.                                      | 3.4 | 73        |
| 11 | The zebrafish as a model for gastrointestinal tractâ€“microbe interactions. <i>Cellular Microbiology</i> , 2020, 22, e13152.   | 2.1 | 69        |
| 12 | Lipopolysaccharide structure impacts the entry kinetics of bacterial outer membrane vesicles into host cells. <i>PLoS Pathogens</i> , 2017, 13, e1006760.  | 4.7 | 63        |
| 13 | Ex vivo reversal of in vivo transdifferentiation in mesothelial cells grown from peritoneal dialysate effluents. <i>Nephrology Dialysis Transplantation</i> , 2006, 21, 2943-2947.   | 0.7 | 54        |
| 14 | The first engagement of partners in the <i>Escherichia coli</i> O157:H7- <i>Vibrio fischeri</i> symbiosis is a two-step process initiated by a few environmental symbiont cells. <i>Environmental Microbiology</i> , 2013, 15, 2937-2950.                | 3.8 | 51        |
| 15 | Bacterial fitness shapes the population dynamics of antibiotic-resistant and -susceptible bacteria in a model of combined antibiotic and anti-virulence treatment. <i>Journal of Theoretical Biology</i> , 2015, 372, 1-11.                              | 1.7 | 51        |
| 16 | cAMP Receptor Protein Controls <i>Vibrio cholerae</i> Gene Expression in Response to Host Colonization. <i>MBio</i> , 2018, 9, .   | 4.1 | 46        |
| 17 | Fatal Attraction: How Bacterial Adhesins Affect Host Signaling and What We Can Learn from Them. <i>International Journal of Molecular Sciences</i> , 2015, 16, 2626-2640.  | 4.1 | 45        |
| 18 | Self-association of TPR domains: Lessons learned from a designed, consensus-based TPR oligomer. <i>Proteins: Structure, Function and Bioinformatics</i> , 2010, 78, NA-NA.   | 2.6 | 41        |

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|----|---|------|-----------|
| 19 | TolA Modulates the Oligomeric Status of YbgF in the Bacterial Periplasm. <i>Journal of Molecular Biology</i> , 2010, 403, 270-285.  | 4.2  | 34        |
| 20 | Preparation and antimicrobial evaluation of polyion complex (PIC) nanoparticles loaded with polymyxin B. <i>European Polymer Journal</i> , 2017, 87, 478-486.   | 5.4  | 33        |
| 21 | Targeting bacterial adherence inhibits multidrug-resistant <i>Pseudomonas aeruginosa</i> infection following burn injury. <i>Scientific Reports</i> , 2016, 6, 39341.   | 3.3  | 32        |
| 22 | Enzyme-responsive polyion complex (PIC) nanoparticles for the targeted delivery of antimicrobial polymers. <i>Polymer Chemistry</i> , 2016, 7, 2684-2690.   | 3.9  | 31        |
| 23 | Zebrafish ( <i>Danio rerio</i> ) as a Vertebrate Model Host To Study Colonization, Pathogenesis, and Transmission of Foodborne <i>Escherichia coli</i> O157. <i>MSphere</i> , 2017, 2, .  | 2.9  | 30        |
| 24 | Turnabout is fair play. <i>Virulence</i> , 2012, 3, 68-71.  | 4.4  | 26        |
| 25 | In vitro characterization of multivalent adhesion molecule 7-based inhibition of multidrug-resistant bacteria isolated from wounded military personnel. <i>Virulence</i> , 2012, 3, 389-399.  | 4.4  | 25        |
| 26 | The Multivalent Adhesion Molecule SSO1327 plays a key role in <i>Shigella sonnei</i> pathogenesis. <i>Molecular Microbiology</i> , 2016, 99, 658-673.   | 2.5  | 25        |
| 27 | Polymyxin B containing polyion complex (PIC) nanoparticles: Improving the antimicrobial activity by tailoring the degree of polymerisation of the inert component. <i>Scientific Reports</i> , 2017, 7, 9396.   | 3.3  | 24        |
| 28 | Structural and regulatory mutations in <i>Vibrio parahaemolyticus</i> type III secretion systems display variable effects on virulence. <i>FEMS Microbiology Letters</i> , 2014, 361, 107-114.  | 1.8  | 21        |
| 29 | Optimal translational fidelity is critical for <i>Salmonella</i> virulence and host interactions. <i>Nucleic Acids Research</i> , 2019, 47, 5356-5367.  | 14.5 | 21        |
| 30 | A MAM7 Peptide-Based Inhibitor of <i>Staphylococcus aureus</i> Adhesion Does Not Interfere with In Vitro Host Cell Function. <i>PLoS ONE</i> , 2013, 8, e81216.   | 2.5  | 21        |
| 31 | Using the Protozoan <i>Paramecium caudatum</i> as a Vehicle for Food-borne Infections in Zebrafish Larvae. <i>Journal of Visualized Experiments</i> , 2019, , .   | 0.3  | 20        |
| 32 | Mathematical modelling of the antibiotic-induced morphological transition of <i>Pseudomonas aeruginosa</i> . <i>PLoS Computational Biology</i> , 2018, 14, e1006012.  | 3.2  | 19        |
| 33 | Multivalent Adhesion Molecule 7 Clusters Act as Signaling Platform for Host Cellular GTPase Activation and Facilitate Epithelial Barrier Dysfunction. <i>PLoS Pathogens</i> , 2014, 10, e1004421.   | 4.7  | 18        |
| 34 | 3-Sulfogalactosyl-dependent adhesion of <i>Escherichia coli</i> HS multivalent adhesion molecule is attenuated by sulfatase activity. <i>Journal of Biological Chemistry</i> , 2017, 292, 19792-19803.  | 3.4  | 16        |
| 35 | The <i>E. coli</i> transcription factor GrIA is regulated by subcellular compartmentalization and activated in response to mechanical stimuli. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 9519-9528. | 7.1  | 15        |
| 36 | Defective phagocyte association during infection of <i>Galleria mellonella</i> with <i>Yersinia pseudotuberculosis</i> is detrimental to both insect host and microbe. <i>Virulence</i> , 2021, 12, 638-653.  | 4.4  | 13        |

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|----|---|-----|-----------|
| 37 | Aggregation of <i>Vibrio cholerae</i> by Cationic Polymers Enhances Quorum Sensing but Overrides Biofilm Dissipation in Response to Autoinduction. <i>ACS Chemical Biology</i> , 2018, 13, 3021-3029.                                   | 3.4 | 12        |
| 38 | <i>Vibrio parahaemolyticus</i> virulence determinants. , 2015, , 230-260.   |     | 10        |
| 39 | Predictive modelling of a novel anti-adhesion therapy to combat bacterial colonisation of burn wounds. <i>PLoS Computational Biology</i> , 2018, 14, e1006071.  | 3.2 | 10        |
| 40 | Made to Stick: Anti-Adhesion Therapy for Bacterial Infections. <i>Microbe Magazine</i> , 2013, 8, 286-290.  | 0.4 | 10        |
| 41 | Displacement of Pathogens by an Engineered Bacterium Is a Multifactorial Process That Depends on Attachment Competition and Interspecific Antagonism. <i>Infection and Immunity</i> , 2016, 84, 1704-1711.                              | 2.2 | 9         |
| 42 | Mechanosensing regulates virulence in <i>Escherichia coli</i> O157:H7. <i>Gut Microbes</i> , 2016, 7, 63-67.  | 9.8 | 9         |
| 43 | Engineering microbial physiology with synthetic polymers: cationic polymers induce biofilm formation in <i>Vibrio cholerae</i> and downregulate the expression of virulence genes. <i>Chemical Science</i> , 2017, 8, 5291-5298.        | 7.4 | 9         |
| 44 | Structural Determinants of the Stability of Enzyme-Responsive Polyion Complex Nanoparticles Targeting <i>Pseudomonas aeruginosa</i> 's Elastase. <i>ChemNanoMat</i> , 2018, 4, 807-814.   | 2.8 | 9         |
| 45 | Mathematical model predicts anti-adhesion-antibiotic-debridement combination therapies can clear an antibiotic resistant infection. <i>PLoS Computational Biology</i> , 2019, 15, e1007211.   | 3.2 | 8         |
| 46 | Dual function of a bacterial protein as an adhesin and extracellular effector of host GTPase signaling. <i>Small GTPases</i> , 2015, 6, 153-156.  | 1.6 | 7         |
| 47 | Outer Membrane Vesicle-Host Cell Interactions. , 0, , 201-214.  |     | 7         |
| 48 | BamB and outer membrane biogenesis - The Achilles' heel for targeting <i>Klebsiella</i> infections?. <i>Virulence</i> , 2016, 7, 508-511.   | 4.4 | 4         |
| 49 | Bacterial adhesion inhibitor prevents infection in a rodent surgical incision model. <i>Virulence</i> , 2020, 11, 695-706.  | 4.4 | 2         |
| 50 | Sexual Health-Get Involved: A Kinesthetic Learning Experience of STI Transmission and Prevention. <i>Journal of Microbiology and Biology Education</i> , 2016, 17, 302-304.   | 1.0 | 1         |
| 51 | Allosteric $\hat{2}$ -propeller signalling in TolB and its manipulation by translocating colicins. <i>EMBO Journal</i> , 2009, 28, 2858-2858.   | 7.8 | 0         |
| 52 | There's More to Science than Research: A Team-Based Role Game to Develop School Students' Understanding of Science Careers in Pharmaceutical Quality Control. <i>Journal of Microbiology and Biology Education</i> , 2015, 16, 263-265. | 1.0 | 0         |
| 53 | Adhesins During Infection. , 2018, , 28-28.   |     | 0         |
| 54 | Pathogen-induced lipid coalescence in the host membrane causes downstream activation of Rho GTPase (LB229). <i>FASEB Journal</i> , 2014, 28, LB229.   | 0.5 | 0         |

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|----|--|-----|-----------|
| 55 | Mathematical Modelling of <i>Pseudomonas aeruginosa</i> L-forms Reveals Complex Interplay Between Host Defence Mechanisms and Putative Treatments. <i>Frontiers in Systems Biology</i> , 0, 2, . | 0.7 | 0         |