Dirk Bumann

List of Publications by Year
in descending order

51	4,075	159585 30	182427 51
papers	citations	h-index	g-index

53	53	53	7811
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Single-cell reporters for pathogen responses to antimicrobial host attacks. Current Opinion in Microbiology, 2021, 59, 16-23.	5.1	8
2	Molecular reprogramming and phenotype switching in Staphylococcus aureus lead to high antibiotic persistence and affect therapy success. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	62
3	Increased Production of Outer Membrane Vesicles by Salmonella Interferes with Complement-Mediated Innate Immune Attack. MBio, 2021, 12, e0086921.	4.1	14
4	Outer membrane permeability: Antimicrobials and diverse nutrients bypass porins in Pseudomonas aeruginosa. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	44
5	Acquisition of ionic copper by the bacterial outer membrane protein OprC through a novel binding site. PLoS Biology, 2021, 19, e3001446.	5.6	14
6	Tissue compartmentalization enables Salmonella persistence during chemotherapy. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	16
7	The pathogenPseudomonas aeruginosaoptimizes the production of the siderophore pyochelin upon environmental challenges. Metallomics, 2020, 12, 2108-2120.	2.4	20
8	Salmonella Single-Cell Metabolism and Stress Responses in Complex Host Tissues. , 2020, , 167-177.		0
9	Regulation of chaperone function by coupled folding and oligomerization. Science Advances, 2020, 6, .	10.3	24
10	Classical Activation of Macrophages Leads to Lipid Droplet Formation Without de novo Fatty Acid Synthesis. Frontiers in Immunology, 2020, 11, 131.	4.8	46
11	Dynamics in protein translation sustaining T cell preparedness. Nature Immunology, 2020, 21, 927-937.	14.5	120
12	Efficient dual-negative selection for bacterial genome editing. BMC Microbiology, 2020, 20, 129.	3.3	16
13	Quantitative contribution of efflux to multi-drug resistance of clinical Escherichia coli and Pseudomonas aeruginosa strains. EBioMedicine, 2019, 41, 479-487.	6.1	37
14	Salmonella Single-Cell Metabolism and Stress Responses in Complex Host Tissues. Microbiology Spectrum, 2019, 7, .	3.0	8
15	Definitions and guidelines for research on antibiotic persistence. Nature Reviews Microbiology, 2019, 17, 441-448.	28.6	748
16	Host resistance factor SLC11A1 restricts Salmonella growth through magnesium deprivation. Science, 2019, 366, 995-999.	12.6	97
17	Non-specific interference of cobalt with siderophore-dependent iron uptake pathways. Metallomics, 2019, 11, 1937-1951.	2.4	7
18	A Multidisciplinary Approach toward Identification of Antibiotic Scaffolds for Acinetobacter baumannii. Structure, 2019, 27, 268-280.e6.	3.3	41

#	Article	IF	Citations
19	Antibiotic chemotherapy against heterogeneous pathogen populations in complex host tissues. F1000Research, 2019, 8, 1781.	1.6	9
20	Getting Drugs through Small Pores: Exploiting the Porins Pathway in Pseudomonas aeruginosa. ACS Infectious Diseases, 2018, 4, 1519-1528.	3.8	25
21	The hepcidin-ferroportin axis controls the iron content of Salmonella-containing vacuoles in macrophages. Nature Communications, 2018, 9, 2091.	12.8	51
22	Myeloperoxidase targets oxidative host attacks to Salmonella and prevents collateral tissue damage. Nature Microbiology, 2017, 2, 16268.	13.3	58
23	Heterogeneity of Salmonella-host interactions in infected host tissues. Current Opinion in Microbiology, 2017, 39, 57-63.	5.1	23
24	Structural basis for maintenance of bacterial outer membrane lipid asymmetry. Nature Microbiology, 2017, 2, 1616-1623.	13.3	118
25	IntracellularSalmonellametabolism. Cellular Microbiology, 2017, 19, e12766.	2.1	25
26	Catechol siderophores repress the pyochelin pathway and activate the enterobactin pathway in <scp>P</scp>seudomonas aeruginosa: an opportunity for siderophoreâ€“antibiotic conjugates development. Environmental Microbiology, 2016, 18, 819-832.	3.8	59
27	A Novel Genome-Editing Platform for Drug-Resistant Acinetobacter baumannii Reveals an AdeR-Unrelated Tigecycline Resistance Mechanism. Antimicrobial Agents and Chemotherapy, 2016, 60, 7263-7271.	3.2	36
28	Combining Shigella Tn-seq data with gold-standard E. coli gene deletion data suggests rare transitions between essential and non-essential gene functionality. BMC Microbiology, 2016, 16, 203.	3.3	19
29	Host Delivery of Favorite Meals for Intracellular Pathogens. PLoS Pathogens, 2015, 11, e1004866.	4.7	56
30	Heterogeneous Host-Pathogen Encounters: Act Locally, Think Globally. Cell Host and Microbe, 2015, 17, 13-19.	11.0	90
31	Identification of Protective Antigens for Vaccination against Systemic Salmonellosis. Frontiers in Immunology, 2014, 5, 381.	4.8	19
32	The Central Metabolism Regulator EIIA Glc Switches Salmonella from Growth Arrest to Acute Virulence through Activation of Virulence Factor Secretion. Cell Reports, 2014, 7, 1426-1433.	6.4	26
33	Caspase-11 activation requires lysis of pathogen-containing vacuoles by IFN-induced GTPases. Nature, 2014, 509, 366-370.	27.8	416
34	Shigella reroutes host cell central metabolism to obtain high-flux nutrient supply for vigorous intracellular growth. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 9929-9934.	7.1	71
35	Phenotypic Variation of Salmonella in Host Tissues Delays Eradication by Antimicrobial Chemotherapy. Cell, 2014, 158, 722-733.	28.9	259
36	Disparate Impact of Oxidative Host Defenses Determines the Fate of Salmonella during Systemic Infection in Mice. Cell Host and Microbe, 2014, 15, 72-83.	11.0	151

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37	Parallel Exploitation of Diverse Host Nutrients Enhances Salmonella Virulence. PLoS Pathogens, 2013, 9, e1003301.	4.7	163
38	Immunity to Intracellular Salmonella Depends on Surface-associated Antigens. PLoS Pathogens, 2012, 8, e1002966.	4.7	74
39	Intestinal Inflammation Responds to Microbial Tissue Load Independent of Pathogen/Non-Pathogen Discrimination. PLoS ONE, 2012, 7, e35992.	2.5	7
40	Extensive In Vivo Resilience of Persistent Salmonella. PLoS ONE, 2012, 7, e42007.	2.5	24
41	A community effort towards a knowledge-base and mathematical model of the human pathogen Salmonella Typhimurium LT2. BMC Systems Biology, 2011, 5, 8.	3.0	128
42	Pathogen proteomes during infection: A basis for infection research and novel control strategies. Journal of Proteomics, 2010, 73, 2267-2276.	2.4	36
43	System-level analysis of Salmonella metabolism during infection. Current Opinion in Microbiology, 2009, 12, 559-567.	5.1	39
44	Nutritional physiology and colony form in Podocoryna carnea (Cnidaria: Hydrozoa). Invertebrate Biology, 2008, 127, 368-380.	0.9	9
45	Has nature already identified all useful antibacterial targets?. Current Opinion in Microbiology, 2008, 11, 387-392.	5.1	41
46	Solitary Intestinal Lymphoid Tissue Provides a Productive Port of Entry for Salmonella enterica Serovar Typhimurium. Infection and Immunity, 2007, 75, 1577-1585.	2.2	48
47	FACS-isolation of Salmonella-infected cells with defined bacterial load from mouse spleen. Journal of Microbiological Methods, 2007, 71, 220-224.	1.6	20
48	Robust Salmonella metabolism limits possibilities for new antimicrobials. Nature, 2006, 440, 303-307.	27.8	327
49	Salmonella enterica Highly Expressed Genes Are Disease Specific. Infection and Immunity, 2006, 74, 1649-1660.	2.2	85
50	Antigen selection based on expression levels during infection facilitates vaccine development for an intracellular pathogen. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 8739-8744.	7.1	85
51	Optimization of GFP levels for analyzingSalmonellagene expression during an infection. FEBS Letters, 2002, 521, 105-108.	2.8	35