

Dirk Bumann

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8921898/publications.pdf>

Version: 2024-02-01

51
papers

4,075
citations

159585

30
h-index

182427

51
g-index

53
all docs

53
docs citations

53
times ranked

7811
citing authors

#	ARTICLE	IF	CITATIONS
1	Definitions and guidelines for research on antibiotic persistence. <i>Nature Reviews Microbiology</i> , 2019, 17, 441-448.	28.6	748
2	Caspase-11 activation requires lysis of pathogen-containing vacuoles by IFN-induced GTPases. <i>Nature</i> , 2014, 509, 366-370.	27.8	416
3	Robust <i>Salmonella</i> metabolism limits possibilities for new antimicrobials. <i>Nature</i> , 2006, 440, 303-307.	27.8	327
4	Phenotypic Variation of <i>Salmonella</i> in Host Tissues Delays Eradication by Antimicrobial Chemotherapy. <i>Cell</i> , 2014, 158, 722-733.	28.9	259
5	Parallel Exploitation of Diverse Host Nutrients Enhances <i>Salmonella</i> Virulence. <i>PLoS Pathogens</i> , 2013, 9, e1003301.	4.7	163
6	Disparate Impact of Oxidative Host Defenses Determines the Fate of <i>Salmonella</i> during Systemic Infection in Mice. <i>Cell Host and Microbe</i> , 2014, 15, 72-83.	11.0	151
7	A community effort towards a knowledge-base and mathematical model of the human pathogen <i>Salmonella</i> Typhimurium LT2. <i>BMC Systems Biology</i> , 2011, 5, 8.	3.0	128
8	Dynamics in protein translation sustaining T cell preparedness. <i>Nature Immunology</i> , 2020, 21, 927-937.	14.5	120
9	Structural basis for maintenance of bacterial outer membrane lipid asymmetry. <i>Nature Microbiology</i> , 2017, 2, 1616-1623.	13.3	118
10	Host resistance factor SLC11A1 restricts <i>Salmonella</i> growth through magnesium deprivation. <i>Science</i> , 2019, 366, 995-999.	12.6	97
11	Heterogeneous Host-Pathogen Encounters: Act Locally, Think Globally. <i>Cell Host and Microbe</i> , 2015, 17, 13-19.	11.0	90
12	Antigen selection based on expression levels during infection facilitates vaccine development for an intracellular pathogen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 8739-8744.	7.1	85
13	<i>Salmonella enterica</i> Highly Expressed Genes Are Disease Specific. <i>Infection and Immunity</i> , 2006, 74, 1649-1660.	2.2	85
14	Immunity to Intracellular <i>Salmonella</i> Depends on Surface-associated Antigens. <i>PLoS Pathogens</i> , 2012, 8, e1002966.	4.7	74
15	<i>Shigella</i> reroutes host cell central metabolism to obtain high-flux nutrient supply for vigorous intracellular growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 9929-9934.	7.1	71
16	Molecular reprogramming and phenotype switching in <i>Staphylococcus aureus</i> lead to high antibiotic persistence and affect therapy success. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	62
17	Catechol siderophores repress the pyochelin pathway and activate the enterobactin pathway in <i>Pseudomonas aeruginosa</i> : an opportunity for siderophore-antibiotic conjugates development. <i>Environmental Microbiology</i> , 2016, 18, 819-832.	3.8	59
18	Myeloperoxidase targets oxidative host attacks to <i>Salmonella</i> and prevents collateral tissue damage. <i>Nature Microbiology</i> , 2017, 2, 16268.	13.3	58

#	ARTICLE	IF	CITATIONS
19	Host Delivery of Favorite Meals for Intracellular Pathogens. PLoS Pathogens, 2015, 11, e1004866.	4.7	56
20	The hepcidin-ferroportin axis controls the iron content of Salmonella-containing vacuoles in macrophages. Nature Communications, 2018, 9, 2091.	12.8	51
21	Solitary Intestinal Lymphoid Tissue Provides a Productive Port of Entry for <i>Salmonella enterica</i> Serovar Typhimurium. Infection and Immunity, 2007, 75, 1577-1585.	2.2	48
22	Classical Activation of Macrophages Leads to Lipid Droplet Formation Without de novo Fatty Acid Synthesis. Frontiers in Immunology, 2020, 11, 131.	4.8	46
23	Outer membrane permeability: Antimicrobials and diverse nutrients bypass porins in <i>Pseudomonas aeruginosa</i> . Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	44
24	Has nature already identified all useful antibacterial targets?. Current Opinion in Microbiology, 2008, 11, 387-392.	5.1	41
25	A Multidisciplinary Approach toward Identification of Antibiotic Scaffolds for <i>Acinetobacter baumannii</i> . Structure, 2019, 27, 268-280.e6.	3.3	41
26	System-level analysis of <i>Salmonella</i> metabolism during infection. Current Opinion in Microbiology, 2009, 12, 559-567.	5.1	39
27	Quantitative contribution of efflux to multi-drug resistance of clinical <i>Escherichia coli</i> and <i>Pseudomonas aeruginosa</i> strains. EBioMedicine, 2019, 41, 479-487.	6.1	37
28	Pathogen proteomes during infection: A basis for infection research and novel control strategies. Journal of Proteomics, 2010, 73, 2267-2276.	2.4	36
29	A Novel Genome-Editing Platform for Drug-Resistant <i>Acinetobacter baumannii</i> Reveals an AdeR-Unrelated Tigecycline Resistance Mechanism. Antimicrobial Agents and Chemotherapy, 2016, 60, 7263-7271.	3.2	36
30	Optimization of GFP levels for analyzing <i>Salmonella</i> gene expression during an infection. FEBS Letters, 2002, 521, 105-108.	2.8	35
31	The Central Metabolism Regulator EIIA _{Glc} Switches <i>Salmonella</i> from Growth Arrest to Acute Virulence through Activation of Virulence Factor Secretion. Cell Reports, 2014, 7, 1426-1433.	6.4	26
32	Intracellular <i>Salmonella</i> metabolism. Cellular Microbiology, 2017, 19, e12766.	2.1	25
33	Getting Drugs through Small Pores: Exploiting the Porins Pathway in <i>Pseudomonas aeruginosa</i> . ACS Infectious Diseases, 2018, 4, 1519-1528.	3.8	25
34	Extensive In Vivo Resilience of Persistent <i>Salmonella</i> . PLoS ONE, 2012, 7, e42007.	2.5	24
35	Regulation of chaperone function by coupled folding and oligomerization. Science Advances, 2020, 6, .	10.3	24
36	Heterogeneity of <i>Salmonella</i> -host interactions in infected host tissues. Current Opinion in Microbiology, 2017, 39, 57-63.	5.1	23

#	ARTICLE	IF	CITATIONS
37	FACS-isolation of Salmonella-infected cells with defined bacterial load from mouse spleen. Journal of Microbiological Methods, 2007, 71, 220-224.	1.6	20
38	The pathogen <i>Pseudomonas aeruginosa</i> optimizes the production of the siderophore pyochelin upon environmental challenges. Metallomics, 2020, 12, 2108-2120.	2.4	20
39	Identification of Protective Antigens for Vaccination against Systemic Salmonellosis. Frontiers in Immunology, 2014, 5, 381.	4.8	19
40	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
41	Efficient dual-negative selection for bacterial genome editing. BMC Microbiology, 2020, 20, 129.	3.3	16
42	Tissue compartmentalization enables <i>Salmonella</i> persistence during chemotherapy. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	16
43	Increased Production of Outer Membrane Vesicles by Salmonella Interferes with Complement-Mediated Innate Immune Attack. MBio, 2021, 12, e0086921.	4.1	14
44	Acquisition of ionic copper by the bacterial outer membrane protein OprC through a novel binding site. PLoS Biology, 2021, 19, e3001446.	5.6	14
45	Nutritional physiology and colony form in <i>Podocoryna carnea</i> (Cnidaria: Hydrozoa). Invertebrate Biology, 2008, 127, 368-380.	0.9	9
46	Antibiotic chemotherapy against heterogeneous pathogen populations in complex host tissues. F1000Research, 2019, 8, 1781.	1.6	9
47	<i>Salmonella</i> Single-Cell Metabolism and Stress Responses in Complex Host Tissues. Microbiology Spectrum, 2019, 7, .	3.0	8
48	Single-cell reporters for pathogen responses to antimicrobial host attacks. Current Opinion in Microbiology, 2021, 59, 16-23.	5.1	8
49	Intestinal Inflammation Responds to Microbial Tissue Load Independent of Pathogen/Non-Pathogen Discrimination. PLoS ONE, 2012, 7, e35992.	2.5	7
50	Non-specific interference of cobalt with siderophore-dependent iron uptake pathways. Metallomics, 2019, 11, 1937-1951.	2.4	7
51	Salmonella Single-Cell Metabolism and Stress Responses in Complex Host Tissues. , 2020, , 167-177.		0