

# Sabine Ehrt

## List of Publications by Year in descending order

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Version: 2024-02-01

98  
papers

11,347  
citations

38660

50  
h-index

40881

93  
g-index

120  
all docs

120  
docs citations

120  
times ranked

9429  
citing authors

#	ARTICLE	IF	CITATIONS
1	Host-pathogen genetic interactions underlie tuberculosis susceptibility in genetically diverse mice. <i>ELife</i> , 2022, 11, .	2.8	44
2	Chemicalâ€“genetic interaction mapping links carbon metabolism and cell wall structure to tuberculosis drug efficacy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2201632119.	3.3	20
3	CinA mediates multidrug tolerance in <i>Mycobacterium tuberculosis</i> . <i>Nature Communications</i> , 2022, 13, 2203.	5.8	22
4	A periplasmic cinched protein is required for siderophore secretion and virulence of <i>Mycobacterium tuberculosis</i> . <i>Nature Communications</i> , 2022, 13, 2255.	5.8	8
5	Nonredundant functions of <i>Mycobacterium tuberculosis</i> chaperones promote survival under stress. <i>Molecular Microbiology</i> , 2021, 115, 272-289.	1.2	14
6	Rv0954 Is a Member of the Mycobacterial Cell Division Complex. <i>Frontiers in Microbiology</i> , 2021, 12, 626461.	1.5	4
7	Metabolic bifunctionality of Rv0812 couples folate and peptidoglycan biosynthesis in <i>Mycobacterium tuberculosis</i> . <i>Journal of Experimental Medicine</i> , 2021, 218, .	4.2	4
8	Genetic models of latent tuberculosis in mice reveal differential influence of adaptive immunity. <i>Journal of Experimental Medicine</i> , 2021, 218, .	4.2	6
9	Multiform antimicrobial resistance from a metabolic mutation. <i>Science Advances</i> , 2021, 7, .	4.7	25
10	Growth of <i>Mycobacterium tuberculosis</i> at acidic pH depends on lipid assimilation and is accompanied by reduced GAPDH activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	31
11	Genome-wide gene expression tuning reveals diverse vulnerabilities of <i>M. tuberculosis</i> . <i>Cell</i> , 2021, 184, 4579-4592.e24.	13.5	131
12	Multiple acyl-CoA dehydrogenase deficiency kills <i>Mycobacterium tuberculosis</i> in vitro and during infection. <i>Nature Communications</i> , 2021, 12, 6593.	5.8	11
13	<i>Mycobacterium tuberculosis</i> infection is exacerbated in mice lacking lecithin:retinol acyltransferase. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2020, 1866, 165909.	1.8	2
14	Two Interacting ATPases Protect <i>Mycobacterium tuberculosis</i> from Glycerol and Nitric Oxide Toxicity. <i>Journal of Bacteriology</i> , 2020, 202, .	1.0	8
15	Depletion of the DarG antitoxin in <i>Mycobacterium tuberculosis</i> triggers the DNA damage response and leads to cell death. <i>Molecular Microbiology</i> , 2020, 114, 641-652.	1.2	24
16	Peptidoglycan Hydrolases RipA and Ami1 Are Critical for Replication and Persistence of <i>Mycobacterium tuberculosis</i> in the Host. <i>MBio</i> , 2020, 11, .	1.8	32
17	Tissue Distribution of Doxycycline in Animal Models of Tuberculosis. <i>Antimicrobial Agents and Chemotherapy</i> , 2020, 64, .	1.4	20
18	<i>Mycobacterium tuberculosis</i> releases an antacid that remodels phagosomes. <i>Nature Chemical Biology</i> , 2019, 15, 889-899.	3.9	53

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19	Transient drug-tolerance and permanent drug-resistance rely on the trehalose-catalytic shift in <i>Mycobacterium tuberculosis</i> . <i>Nature Communications</i> , 2019, 10, 2928.	5.8	74
20	Plasticity of the <i>Mycobacterium tuberculosis</i> respiratory chain and its impact on tuberculosis drug development. <i>Nature Communications</i> , 2019, 10, 4970.	5.8	82
21	Large-scale chemical genetics yields new <i>M. tuberculosis</i> inhibitor classes. <i>Nature</i> , 2019, 571, 72-78.	13.7	119
22	Statistical analysis of variability in TnSeq data across conditions using zero-inflated negative binomial regression. <i>BMC Bioinformatics</i> , 2019, 20, 603.	1.2	15
23	Persistent <i>Mycobacterium tuberculosis</i> infection in mice requires PerM for successful cell division. <i>ELife</i> , 2019, 8, .	2.8	15
24	Metabolic principles of persistence and pathogenicity in <i>Mycobacterium tuberculosis</i> . <i>Nature Reviews Microbiology</i> , 2018, 16, 496-507.	13.6	162
25	Targeting protein biotinylation enhances tuberculosis chemotherapy. <i>Science Translational Medicine</i> , 2018, 10, .	5.8	24
26	Critical Impact of Peptidoglycan Precursor Amidation on the Activity of Transpeptidases from <i>Enterococcus faecium</i> and <i>Mycobacterium tuberculosis</i> . <i>Chemistry - A European Journal</i> , 2018, 24, 5743-5747.	1.7	44
27	Identification of Enolase as the Target of 2-Aminothiazoles in <i>Mycobacterium tuberculosis</i> . <i>Frontiers in Microbiology</i> , 2018, 9, 2542.	1.5	7
28	Comprehensive Essentiality Analysis of the <i>Mycobacterium tuberculosis</i> Genome via Saturating Transposon Mutagenesis. <i>MBio</i> , 2017, 8, .	1.8	496
29	<i>Mycobacterium tuberculosis</i> protease MarP activates a peptidoglycan hydrolase during acid stress. <i>EMBO Journal</i> , 2017, 36, 536-548.	3.5	54
30	PPE Surface Proteins Are Required for Heme Utilization by <i>Mycobacterium tuberculosis</i> . <i>MBio</i> , 2017, 8, .	1.8	69
31	Fumarase Deficiency Causes Protein and Metabolite Succination and Intoxicates <i>Mycobacterium tuberculosis</i> . <i>Cell Chemical Biology</i> , 2017, 24, 306-315.	2.5	44
32	Glyoxylate detoxification is an essential function of malate synthase required for carbon assimilation in <i>Mycobacterium tuberculosis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E2225-E2232.	3.3	82
33	Chemical Genetic Interaction Profiling Reveals Determinants of Intrinsic Antibiotic Resistance in <i>Mycobacterium tuberculosis</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	1.4	70
34	Distinct Spatiotemporal Dynamics of Peptidoglycan Synthesis between <i>Mycobacterium smegmatis</i> and <i>Mycobacterium tuberculosis</i> . <i>MBio</i> , 2017, 8, .	1.8	51
35	<i>Mycobacterium tuberculosis</i> Thioredoxin Reductase Is Essential for Thiol Redox Homeostasis but Plays a Minor Role in Antioxidant Defense. <i>PLoS Pathogens</i> , 2016, 12, e1005675.	2.1	55
36	Validation of CoaBC as a Bactericidal Target in the Coenzyme A Pathway of <i>Mycobacterium tuberculosis</i> . <i>ACS Infectious Diseases</i> , 2016, 2, 958-968.	1.8	62

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37	A broader spectrum of tuberculosis. <i>Nature Medicine</i> , 2016, 22, 1076-1077.	15.2	13
38	Trehalose-6-Phosphate-Mediated Toxicity Determines Essentiality of OtsB2 in <i>Mycobacterium tuberculosis</i> In Vitro and in Mice. <i>PLoS Pathogens</i> , 2016, 12, e1006043.	2.1	35
39	Surface hydrolysis of sphingomyelin by the outer membrane protein <i>MsbA</i> supports replication of <i>Mycobacterium tuberculosis</i> in macrophages. <i>Molecular Microbiology</i> , 2015, 97, 881-897.	1.2	63
40	Identification of Rv3852 as an Agrimophol-Binding Protein in <i>Mycobacterium tuberculosis</i> . <i>PLoS ONE</i> , 2015, 10, e0126211.	1.1	13
41	Target-Based Screen Against a Periplasmic Serine Protease That Regulates Intrabacterial pH Homeostasis in <i>Mycobacterium tuberculosis</i> . <i>ACS Chemical Biology</i> , 2015, 10, 364-371.	1.6	33
42	<i>Mycobacterium tuberculosis</i> genes essential for the pathogen's survival in the host. <i>Immunological Reviews</i> , 2015, 264, 319-326.	2.8	59
43	Disruption of an <i>M. tuberculosis</i> Membrane Protein Causes a Magnesium-dependent Cell Division Defect and Failure to Persist in Mice. <i>PLoS Pathogens</i> , 2015, 11, e1004645.	2.1	47
44	Two enzymes with redundant fructose biphosphatase activity sustain gluconeogenesis and virulence in <i>Mycobacterium tuberculosis</i> . <i>Nature Communications</i> , 2015, 6, 7912.	5.8	54
45	Construction of Conditional Knockdown Mutants in <i>Mycobacteria</i> . <i>Methods in Molecular Biology</i> , 2015, 1285, 151-175.	0.4	36
46	Inactivation of Fructose-1,6-Bisphosphate Aldolase Prevents Optimal Co-catabolism of Glycolytic and Gluconeogenic Carbon Substrates in <i>Mycobacterium tuberculosis</i> . <i>PLoS Pathogens</i> , 2014, 10, e1004144.	2.1	64
47	LprG-Mediated Surface Expression of Lipoarabinomannan Is Essential for Virulence of <i>Mycobacterium tuberculosis</i> . <i>PLoS Pathogens</i> , 2014, 10, e1004376.	2.1	82
48	An outer membrane channel protein of <i>Mycobacterium tuberculosis</i> with exotoxin activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 6750-6755.	3.3	102
49	Triosephosphate Isomerase Is Dispensable <i>In Vitro</i> yet Essential for <i>Mycobacterium tuberculosis</i> To Establish Infection. <i>MBio</i> , 2014, 5, e00085.	1.8	48
50	Regulated Expression Systems for <i>Mycobacteria</i> and Their Applications. <i>Microbiology Spectrum</i> , 2014, 2, .	1.2	36
51	A genetic strategy to identify targets for the development of drugs that prevent bacterial persistence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 19095-19100.	3.3	167
52	Substrate Specificity of MarP, a Periplasmic Protease Required for Resistance to Acid and Oxidative Stress in <i>Mycobacterium tuberculosis</i> . <i>Journal of Biological Chemistry</i> , 2013, 288, 12489-12499.	1.6	31
53	Perturbation of Cytochrome <i>c</i> Maturation Reveals Adaptability of the Respiratory Chain in <i>Mycobacterium tuberculosis</i> . <i>MBio</i> , 2013, 4, e00475-13.	1.8	58
54	Glucose Phosphorylation Is Required for <i>Mycobacterium tuberculosis</i> Persistence in Mice. <i>PLoS Pathogens</i> , 2013, 9, e1003116.	2.1	97

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55	Whole Cell Screen for Inhibitors of pH Homeostasis in <i>Mycobacterium tuberculosis</i> . <i>PLoS ONE</i> , 2013, 8, e68942.	1.1	60
56	<i>Mycobacterium Tuberculosis</i> Metabolism and Host Interaction: Mysteries and Paradoxes. <i>Current Topics in Microbiology and Immunology</i> , 2012, 374, 163-188.	0.7	51
57	Virulence of <i>Mycobacterium tuberculosis</i> Depends on Lipoamide Dehydrogenase, a Member of Three Multienzyme Complexes. <i>Cell Host and Microbe</i> , 2011, 9, 21-31.	5.1	115
58	<i>Mycobacterium tuberculosis</i> gene Rv2136c is dispensable for acid resistance and virulence in mice. <i>Tuberculosis</i> , 2011, 91, 343-347.	0.8	7
59	Central carbon metabolism in <i>Mycobacterium tuberculosis</i> : an unexpected frontier. <i>Trends in Microbiology</i> , 2011, 19, 307-314.	3.5	156
60	Glycolytic and Non-glycolytic Functions of <i>Mycobacterium tuberculosis</i> Fructose-1,6-bisphosphate Aldolase, an Essential Enzyme Produced by Replicating and Non-replicating Bacilli. <i>Journal of Biological Chemistry</i> , 2011, 286, 40219-40231.	1.6	69
61	Evaluating the Sensitivity of <i>Mycobacterium tuberculosis</i> to Biotin Deprivation Using Regulated Gene Expression. <i>PLoS Pathogens</i> , 2011, 7, e1002264.	2.1	127
62	Structural Insight into Serine Protease Rv3671c that Protects <i>M. tuberculosis</i> from Oxidative and Acidic Stress. <i>Structure</i> , 2010, 18, 1353-1363.	1.6	40
63	Metabolomics of <i>Mycobacterium tuberculosis</i> Reveals Compartmentalized Co-Catabolism of Carbon Substrates. <i>Chemistry and Biology</i> , 2010, 17, 1122-1131.	6.2	313
64	Spectrum of latent tuberculosis "existing tests cannot resolve the underlying phenotypes: author's reply. <i>Nature Reviews Microbiology</i> , 2010, 8, 242-242.	13.6	15
65	Simultaneous Analysis of Multiple <i>Mycobacterium tuberculosis</i> Knockdown Mutants In Vitro and In Vivo. <i>PLoS ONE</i> , 2010, 5, e15667.	1.1	76
66	Gluconeogenic carbon flow of tricarboxylic acid cycle intermediates is critical for <i>Mycobacterium tuberculosis</i> to establish and maintain infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 9819-9824.	3.3	299
67	The <i>Mycobacterium tuberculosis</i> Proteasome Active Site Threonine Is Essential for Persistence Yet Dispensable for Replication and Resistance to Nitric Oxide. <i>PLoS Pathogens</i> , 2010, 6, e1001040.	2.1	78
68	Improved tetracycline repressors for gene silencing in mycobacteria. <i>Nucleic Acids Research</i> , 2009, 37, 1778-1788.	6.5	87
69	Acid-Susceptible Mutants of <i>Mycobacterium tuberculosis</i> Share Hypersusceptibility to Cell Wall and Oxidative Stress and to the Host Environment. <i>Journal of Bacteriology</i> , 2009, 191, 625-631.	1.0	155
70	Acid Resistance in <i>Mycobacterium tuberculosis</i> . <i>Journal of Bacteriology</i> , 2009, 191, 4714-4721.	1.0	209
71	The spectrum of latent tuberculosis: rethinking the biology and intervention strategies. <i>Nature Reviews Microbiology</i> , 2009, 7, 845-855.	13.6	1,179
72	<i>Mycobacterial</i> survival strategies in the phagosome: defence against host stresses. <i>Cellular Microbiology</i> , 2009, 11, 1170-1178.	1.1	377

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73	Mycobacterial survival strategies in the phagosome: defence against host stresses. , 2009, 11, 1170.		1
74	A membrane protein preserves intrabacterial pH in intraphagosomal Mycobacterium tuberculosis. Nature Medicine, 2008, 14, 849-854.	15.2	300
75	Selective Killing of Nonreplicating Mycobacteria. Cell Host and Microbe, 2008, 3, 137-145.	5.1	180
76	Biosynthesis and Recycling of Nicotinamide Cofactors in Mycobacterium tuberculosis. Journal of Biological Chemistry, 2008, 283, 19329-19341.	1.6	152
77	Mycobacterial Nonhomologous End Joining Mediates Mutagenic Repair of Chromosomal Double-Strand DNA Breaks. Journal of Bacteriology, 2007, 189, 5237-5246.	1.0	84
78	Silencing Essential Protein Secretion in Mycobacterium smegmatis by Using Tetracycline Repressors. Journal of Bacteriology, 2007, 189, 4614-4623.	1.0	104
79	Mycobacterium tuberculosis virulence: lipids inside and out. Nature Medicine, 2007, 13, 284-285.	15.2	54
80	In vivo gene silencing identifies the Mycobacterium tuberculosis proteasome as essential for the bacteria to persist in mice. Nature Medicine, 2007, 13, 1515-1520.	15.2	227
81	Controlling gene expression in mycobacteria. Future Microbiology, 2006, 1, 177-184.	1.0	27
82	Introduction: genomic approaches in infectious diseases. Microbes and Infection, 2006, 8, 1611-1612.	1.0	0
83	Dihydrolipoamide Acyltransferase Is Critical for Mycobacterium tuberculosis Pathogenesis. Infection and Immunity, 2006, 74, 56-63.	1.0	99
84	Cytosolic Phospholipase A2 Enzymes Are Not Required by Mouse Bone Marrow-Derived Macrophages for the Control of Mycobacterium tuberculosis In Vitro. Infection and Immunity, 2006, 74, 1751-1756.	1.0	17
85	Controlling gene expression in mycobacteria with anhydrotetracycline and Tet repressor. Nucleic Acids Research, 2005, 33, e21-e21.	6.5	334
86	Ancestral antibiotic resistance in Mycobacterium tuberculosis. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 12200-12205.	3.3	283
87	Isolation of Plasmids from E. coli by Boiling Lysis. , 2003, 235, 79-82.		4
88	Isolation of Plasmids from E. coli by Alkaline Lysis. , 2003, 235, 75-78.		25
89	Transcriptional Adaptation of Mycobacterium tuberculosis within Macrophages. Journal of Experimental Medicine, 2003, 193, 693-704.	4.2	1,311
90	Hypervirulent mutant of Mycobacterium tuberculosis resulting from disruption of the mce1 operon. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 15918-15923.	3.3	205

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91	The Proteasome of <i>Mycobacterium tuberculosis</i> Is Required for Resistance to Nitric Oxide. <i>Science</i> , 2003, 302, 1963-1966.	6.0	489
92	A parallel intraphagosomal survival strategy shared by <i>Mycobacterium tuberculosis</i> and <i>Salmonella enterica</i> . <i>Molecular Microbiology</i> , 2002, 35, 1375-1382.	1.2	138
93	Energy transfer between fluorescent proteins using a co-expression system in <i>Mycobacterium smegmatis</i> . <i>Gene</i> , 2001, 278, 115-124.	1.0	58
94	Recombinant <i>Mycobacterium tuberculosis</i> protein associated with mammalian cell entry. <i>Cellular Microbiology</i> , 2001, 3, 247-254.	1.1	161
95	Reprogramming of the Macrophage Transcriptome in Response to Interferon- $\gamma$ and <i>Mycobacterium tuberculosis</i> . <i>Journal of Experimental Medicine</i> , 2001, 194, 1123-1140.	4.2	437
96	Cloning of the <i>mspA</i> gene encoding a porin from <i>Mycobacterium smegmatis</i> . <i>Molecular Microbiology</i> , 1999, 33, 933-945.	1.2	143
97	<i>noxB</i> , a Novel Gene from <i>Mycobacterium tuberculosis</i> , Protects <i>Salmonella typhimurium</i> from Nitrosative and Oxidative Stress. <i>Infection and Immunity</i> , 1999, 67, 3276-3283.	1.0	58
98	Regulated Expression Systems for Mycobacteria and Their Applications. , 0, , 225-238.		1