# Sabine Ehrt

List of Publications by Year
in descending order



| 98 | 11,347 | 38742 50 | 40979 93 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 120 | 120 | 120 | 9429 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Host-pathogen genetic interactions underlie tuberculosis susceptibility in genetically diverse mice. ELife, 2022, 11, . | 6.0 | 44 |
| 2 | Chemicalâ€“genetic interaction mapping links carbon metabolism and cell wall structure to tuberculosis drug efficacy. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2201632119. | 7.1 | 20 |
| 3 | CinA mediates multidrug tolerance in Mycobacterium tuberculosis. Nature Communications, 2022, 13, 2203. | 12.8 | 22 |
| 4 | A periplasmic cinched protein is required for siderophore secretion and virulence of Mycobacterium tuberculosis. Nature Communications, 2022, 13, 2255. | 12.8 | 8 |
| 5 | Nonredundant functions of <i>Mycobacterium tuberculosis</i> chaperones promote survival under stress. Molecular Microbiology, 2021, 115, 272-289. | 2.5 | 14 |
| 6 | Rv0954 Is a Member of the Mycobacterial Cell Division Complex. Frontiers in Microbiology, 2021, 12, 626461. | 3.5 | 4 |
| 7 | Metabolic bifunctionality of Rv0812 couples folate and peptidoglycan biosynthesis in <i>Mycobacterium tuberculosis</i>. Journal of Experimental Medicine, 2021, 218, . | 8.5 | 4 |
| 8 | Genetic models of latent tuberculosis in mice reveal differential influence of adaptive immunity. Journal of Experimental Medicine, 2021, 218, . | 8.5 | 6 |
| 9 | Multiform antimicrobial resistance from a metabolic mutation. Science Advances, 2021, 7, . | 10.3 | 25 |
| 10 | Growth of<i>Mycobacterium tuberculosis</i>at acidic pH depends on lipid assimilation and is accompanied by reduced GAPDH activity. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 7.1 | 31 |
| 11 | Genome-wide gene expression tuning reveals diverse vulnerabilities of M.Âtuberculosis. Cell, 2021, 184, 4579-4592.e24. | 28.9 | 131 |
| 12 | Multiple acyl-CoA dehydrogenase deficiency kills Mycobacterium tuberculosis in vitro and during infection. Nature Communications, 2021, 12, 6593. | 12.8 | 11 |
| 13 | Mycobacterium tuberculosis infection is exacerbated in mice lacking lecithin:retinol acyltransferase. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2020, 1866, 165909. | 3.8 | 2 |
| 14 | Two Interacting ATPases Protect Mycobacterium tuberculosis from Glycerol and Nitric Oxide Toxicity. Journal of Bacteriology, 2020, 202, . | 2.2 | 8 |
| 15 | Depletion of the DarG antitoxin in <i>Mycobacterium tuberculosis</i> triggers the DNAâ€damage response and leads to cell death. Molecular Microbiology, 2020, 114, 641-652. | 2.5 | 24 |
| 16 | Peptidoglycan Hydrolases RipA and Ami1 Are Critical for Replication and Persistence of Mycobacterium tuberculosis in the Host. MBio, 2020, 11, . | 4.1 | 32 |
| 17 | Tissue Distribution of Doxycycline in Animal Models of Tuberculosis. Antimicrobial Agents and Chemotherapy, 2020, 64, . | 3.2 | 20 |
| 18 | Mycobacterium tuberculosis releases an antacid that remodels phagosomes. Nature Chemical Biology, 2019, 15, 889-899. | 8.0 | 53 |

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|---|---|---|---|
| 19 | Transient drug-tolerance and permanent drug-resistance rely on the trehalose-catalytic shift in Mycobacterium tuberculosis. Nature Communications, 2019, 10, 2928. | 12.8 | 74 |
| 20 | Plasticity of the Mycobacterium tuberculosis respiratory chain and its impact on tuberculosis drug development. Nature Communications, 2019, 10, 4970. | 12.8 | 82 |
| 21 | Large-scale chemicalâ€“genetics yields new M. tuberculosis inhibitor classes. Nature, 2019, 571, 72-78. | 27.8 | 119 |
| 22 | Statistical analysis of variability in TnSeq data across conditions using zero-inflated negative binomial regression. BMC Bioinformatics, 2019, 20, 603. | 2.6 | 15 |
| 23 | Persistent Mycobacterium tuberculosis infection in mice requires PerM for successful cell division. ELife, 2019, 8, . | 6.0 | 15 |
| 24 | Metabolic principles of persistence and pathogenicity in Mycobacterium tuberculosis. Nature Reviews Microbiology, 2018, 16, 496-507. | 28.6 | 162 |
| 25 | Targeting protein biotinylation enhances tuberculosis chemotherapy. Science Translational Medicine, 2018, 10, . | 12.4 | 24 |
| 26 | Critical Impact of Peptidoglycan Precursor Amidation on the Activity of <scp>l,d</scp>â€•Transpeptidases from <i>Enterococcus faecium</i> and <i>Mycobacterium tuberculosis</i>. Chemistry - A European Journal, 2018, 24, 5743-5747. | 3.3 | 44 |
| 27 | Identification of Enolase as the Target of 2-Aminothiazoles in Mycobacterium tuberculosis. Frontiers in Microbiology, 2018, 9, 2542. | 3.5 | 7 |
| 28 | Comprehensive Essentiality Analysis of the <i>Mycobacterium tuberculosis</i> Genome via Saturating Transposon Mutagenesis. MBio, 2017, 8, . | 4.1 | 496 |
| 29 | <i>Mycobacterium tuberculosis</i> protease MarP activates a peptidoglycan hydrolase during acidÂstress. EMBO Journal, 2017, 36, 536-548. | 7.8 | 54 |
| 30 | PPE Surface Proteins Are Required for Heme Utilization by <i>Mycobacterium tuberculosis</i>. MBio, 2017, 8, . | 4.1 | 69 |
| 31 | Fumarase Deficiency Causes Protein and Metabolite Succination and Intoxicates Mycobacterium tuberculosis. Cell Chemical Biology, 2017, 24, 306-315. | 5.2 | 44 |
| 32 | Glyoxylate detoxification is an essential function of malate synthase required for carbon assimilation in <i>Mycobacterium tuberculosis</i>. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E2225-E2232. | 7.1 | 82 |
| 33 | Chemical Genetic Interaction Profiling Reveals Determinants of Intrinsic Antibiotic Resistance in Mycobacterium tuberculosis. Antimicrobial Agents and Chemotherapy, 2017, 61, . | 3.2 | 70 |
| 34 | Distinct Spatiotemporal Dynamics of Peptidoglycan Synthesis between <i>MycobacteriumÂsmegmatis</i> and <i>MycobacteriumÂtuberculosis</i>. MBio, 2017, 8, . | 4.1 | 51 |
| 35 | Mycobacterium tuberculosis Thioredoxin Reductase Is Essential for Thiol Redox Homeostasis but Plays a Minor Role in Antioxidant Defense. PLoS Pathogens, 2016, 12, e1005675. | 4.7 | 55 |
| 36 | Validation of CoaBC as a Bactericidal Target in the Coenzyme A Pathway of <i>Mycobacterium tuberculosis</i>. ACS Infectious Diseases, 2016, 2, 958-968. | 3.8 | 62 |

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| 37 | A broader spectrum of tuberculosis. Nature Medicine, 2016, 22, 1076-1077. | 30.7 | 13 |
| 38 | Trehalose-6-Phosphate-Mediated Toxicity Determines Essentiality of OtsB2 in Mycobacterium tuberculosis In Vitro and in Mice. PLoS Pathogens, 2016, 12, e1006043. | 4.7 | 35 |
| 39 | Surface hydrolysis of sphingomyelin by the outer membrane protein <scp>R</scp>v0888 supports replication of <scp><i>M</i></scp><i>ycobacterium tuberculosis</i> in macrophages. Molecular Microbiology, 2015, 97, 881-897. | 2.5 | 63 |
| 40 | Identification of Rv3852 as an Agrimophol-Binding Protein in Mycobacterium tuberculosis. PLoS ONE, 2015, 10, e0126211. | 2.5 | 13 |
| 41 | Target-Based Screen Against a Periplasmic Serine Protease That Regulates Intrabacterial pH Homeostasis in <i>Mycobacterium tuberculosis</i>. ACS Chemical Biology, 2015, 10, 364-371. | 3.4 | 33 |
| 42 | Mycobacterial genes essential for the pathogen's survival in the host. Immunological Reviews, 2015, 264, 319-326. | 6.0 | 59 |
| 43 | Disruption of an M. tuberculosis Membrane Protein Causes a Magnesium-dependent Cell Division Defect and Failure to Persist in Mice. PLoS Pathogens, 2015, 11, e1004645. | 4.7 | 47 |
| 44 | Two enzymes with redundant fructose bisphosphatase activity sustain gluconeogenesis and virulence in Mycobacterium tuberculosis. Nature Communications, 2015, 6, 7912. | 12.8 | 54 |
| 45 | Construction of Conditional Knockdown Mutants in Mycobacteria. Methods in Molecular Biology, 2015, 1285, 151-175. | 0.9 | 36 |
| 46 | Inactivation of Fructose-1,6-Bisphosphate Aldolase Prevents Optimal Co-catabolism of Glycolytic and Gluconeogenic Carbon Substrates in Mycobacterium tuberculosis. PLoS Pathogens, 2014, 10, e1004144. | 4.7 | 64 |
| 47 | LprG-Mediated Surface Expression of Lipoarabinomannan Is Essential for Virulence of Mycobacterium tuberculosis. PLoS Pathogens, 2014, 10, e1004376. | 4.7 | 82 |
| 48 | An outer membrane channel protein of <i>Mycobacterium tuberculosis</i> with exotoxin activity. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6750-6755. | 7.1 | 102 |
| 49 | Triosephosphate Isomerase Is Dispensable <i>In Vitro</i> yet Essential for Mycobacterium tuberculosis To Establish Infection. MBio, 2014, 5, e00085. | 4.1 | 48 |
| 50 | Regulated Expression Systems for Mycobacteria and Their Applications. Microbiology Spectrum, 2014, 2, . | 3.0 | 36 |
| 51 | A genetic strategy to identify targets for the development of drugs that prevent bacterial persistence. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 19095-19100. | 7.1 | 167 |
| 52 | Substrate Specificity of MarP, a Periplasmic Protease Required for Resistance to Acid and Oxidative Stress in Mycobacterium tuberculosis. Journal of Biological Chemistry, 2013, 288, 12489-12499. | 3.4 | 31 |
| 53 | Perturbation of Cytochrome <i>c</i> Maturation Reveals Adaptability of the Respiratory Chain in Mycobacterium tuberculosis. MBio, 2013, 4, e00475-13. | 4.1 | 58 |
| 54 | Glucose Phosphorylation Is Required for Mycobacterium tuberculosis Persistence in Mice. PLoS Pathogens, 2013, 9, e1003116. | 4.7 | 97 |

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| 55 | Whole Cell Screen for Inhibitors of pH Homeostasis in Mycobacterium tuberculosis. PLoS ONE, 2013, 8, e68942. | 2.5 | 60 |
| 56 | Mycobacterium Tuberculosis Metabolism and Host Interaction: Mysteries and Paradoxes. Current Topics in Microbiology and Immunology, 2012, 374, 163-188. | 1.1 | 51 |
| 57 | Virulence of Mycobacterium tuberculosis Depends on Lipoamide Dehydrogenase, a Member of Three Multienzyme Complexes. Cell Host and Microbe, 2011, 9, 21-31. | 11.0 | 115 |
| 58 | Mycobacterium tuberculosis gene Rv2136c is dispensable for acid resistance and virulence in mice. Tuberculosis, 2011, 91, 343-347. | 1.9 | 7 |
| 59 | Central carbon metabolism in Mycobacterium tuberculosis: an unexpected frontier. Trends in Microbiology, 2011, 19, 307-314. | 7.7 | 156 |
| 60 | Glycolytic and Non-glycolytic Functions of Mycobacterium tuberculosis Fructose-1,6-bisphosphate Aldolase, an Essential Enzyme Produced by Replicating and Non-replicating Bacilli. Journal of Biological Chemistry, 2011, 286, 40219-40231. | 3.4 | 69 |
| 61 | Evaluating the Sensitivity of Mycobacterium tuberculosis to Biotin Deprivation Using Regulated Gene Expression. PLoS Pathogens, 2011, 7, e1002264. | 4.7 | 127 |
| 62 | Structural Insight into Serine Protease Rv3671c thatÂProtects M. tuberculosis from Oxidative and Acidic Stress. Structure, 2010, 18, 1353-1363. | 3.3 | 40 |
| 63 | Metabolomics of Mycobacterium tuberculosis Reveals Compartmentalized Co-Catabolism of Carbon Substrates. Chemistry and Biology, 2010, 17, 1122-1131. | 6.0 | 313 |
| 64 | Spectrum of latent tuberculosis â€" existing tests cannot resolve the underlying phenotypes: author's reply. Nature Reviews Microbiology, 2010, 8, 242-242. | 28.6 | 15 |
| 65 | Simultaneous Analysis of Multiple Mycobacterium tuberculosis Knockdown Mutants In Vitro and In Vivo. PLoS ONE, 2010, 5, e15667. | 2.5 | 76 |
| 66 | Gluconeogenic carbon flow of tricarboxylic acid cycle intermediates is critical for <i>Mycobacterium tuberculosis</i> to establish and maintain infection. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 9819-9824. | 7.1 | 299 |
| 67 | The Mycobacterium tuberculosis Proteasome Active Site Threonine Is Essential for Persistence Yet Dispensable for Replication and Resistance to Nitric Oxide. PLoS Pathogens, 2010, 6, e1001040. | 4.7 | 78 |
| 68 | Improved tetracycline repressors for gene silencing in mycobacteria. Nucleic Acids Research, 2009, 37, 1778-1788. | 14.5 | 87 |
| 69 | Acid-Susceptible Mutants of<i>Mycobacterium tuberculosis</i>Share Hypersusceptibility to Cell Wall and Oxidative Stress and to the Host Environment. Journal of Bacteriology, 2009, 191, 625-631. | 2.2 | 155 |
| 70 | Acid Resistance in<i>Mycobacterium tuberculosis</i>. Journal of Bacteriology, 2009, 191, 4714-4721. | 2.2 | 209 |
| 71 | The spectrum of latent tuberculosis: rethinking the biology and intervention strategies. Nature Reviews Microbiology, 2009, 7, 845-855. | 28.6 | 1,179 |
| 72 | Mycobacterial survival strategies in the phagosome: defence against host stresses. Cellular Microbiology, 2009, 11, 1170-1178. | 2.1 | 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. | 30.7 | 300 |
| 75 | Selective Killing of Nonreplicating Mycobacteria. Cell Host and Microbe, 2008, 3, 137-145. | 11.0 | 180 |
| 76 | Biosynthesis and Recycling of Nicotinamide Cofactors in Mycobacterium tuberculosis. Journal of Biological Chemistry, 2008, 283, 19329-19341. | 3.4 | 152 |
| 77 | Mycobacterial Nonhomologous End Joining Mediates Mutagenic Repair of Chromosomal Double-Strand DNA Breaks. Journal of Bacteriology, 2007, 189, 5237-5246. | 2.2 | 84 |
| 78 | Silencing Essential Protein Secretion in Mycobacterium smegmatis by Using Tetracycline Repressors. Journal of Bacteriology, 2007, 189, 4614-4623. | 2.2 | 104 |
| 79 | Mycobacterium tuberculosis virulence: lipids inside and out. Nature Medicine, 2007, 13, 284-285. | 30.7 | 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. | 30.7 | 227 |
| 81 | Controlling gene expression in mycobacteria. Future Microbiology, 2006, 1, 177-184. | 2.0 | 27 |
| 82 | Introduction: genomic approaches in infectious diseases. Microbes and Infection, 2006, 8, 1611-1612. | 1.9 | 0 |
| 83 | Dihydrolipoamide Acyltransferase Is Critical for Mycobacterium tuberculosis Pathogenesis. Infection and Immunity, 2006, 74, 56-63. | 2.2 | 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. | 2.2 | 17 |
| 85 | Controlling gene expression in mycobacteria with anhydrotetracycline and Tet repressor. Nucleic Acids Research, 2005, 33, e21-e21. | 14.5 | 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. | 7.1 | 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 <i>Mycobacterium tuberculosis</i> within Macrophages. Journal of Experimental Medicine, 2003, 198, 693-704. | 8.5 | 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. | 7.1 | 205 |

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|---|---|---|---|
| 91 | The Proteasome of Mycobacterium tuberculosis Is Required for Resistance to Nitric Oxide. Science, 2003, 302, 1963-1966. | 12.6 | 489 |
| 92 | A parallel intraphagosomal survival strategy shared by Mycobacterium tuberculosis and Salmonella enterica. Molecular Microbiology, 2002, 35, 1375-1382. | 2.5 | 138 |
| 93 | Energy transfer between fluorescent proteins using a co-expression system in Mycobacterium smegmatis. Gene, 2001, 278, 115-124. | 2.2 | 58 |
| 94 | Recombinant Mycobacterium tuberculosis protein associated with mammalian cell entry. Cellular Microbiology, 2001, 3, 247-254. | 2.1 | 161 |
| 95 | Reprogramming of the Macrophage Transcriptome in Response to Interferon-Î³ and Mycobacterium tuberculosis. Journal of Experimental Medicine, 2001, 194, 1123-1140. | 8.5 | 437 |
| 96 | Cloning of the mspA gene encoding a porin from Mycobacterium smegmatis. Molecular Microbiology, 1999, 33, 933-945. | 2.5 | 143 |
| 97 | <i>noxR3</i> , a Novel Gene from <i>Mycobacterium tuberculosis</i> , Protects <i>Salmonella typhimurium</i> from Nitrosative and Oxidative Stress. Infection and Immunity, 1999, 67, 3276-3283. | 2.2 | 58 |
| 98 | Regulated Expression Systems for Mycobacteria and Their Applications. , 0, , 225-238. | | 1 |