Thorsten Mascher

List of Publications by Year
in descending order

82 papers	5,585 citations	94433 37 h-index	85541 71 g-index
90 all docs	90 docs citations	90 times ranked	4468 citing authors

#	Article	IF	Citations
1	Stimulus Perception in Bacterial Signal-Transducing Histidine Kinases. Microbiology and Molecular Biology Reviews, 2006, 70, 910-938.	6.6	592
2	The third pillar of bacterial signal transduction: classification of the extracytoplasmic function (ECF) Ïƒ factor protein family. Molecular Microbiology, 2009, 74, 557-581.	2.5	374
3	Cell envelope stress response in Gram-positive bacteria. FEMS Microbiology Reviews, 2008, 32, 107-146.	8.6	323
4	Cell wall stress responses in <i>Bacillus subtilis</i>: the regulatory network of the bacitracin stimulon. Molecular Microbiology, 2003, 50, 1591-1604.	2.5	290
5	Antibiotic-Inducible Promoter Regulated by the Cell Envelope Stress-Sensing Two-Component System LiaRS of <i>Bacillus subtilis</i>. Antimicrobial Agents and Chemotherapy, 2004, 48, 2888-2896.	3.2	277
6	The Bacillus BioBrick Box: generation and evaluation of essential genetic building blocks for standardized work with Bacillus subtilis. Journal of Biological Engineering, 2013, 7, 29.	4.7	195
7	Regulation of LiaRS-Dependent Gene Expression in Bacillus subtilis : Identification of Inhibitor Proteins, Regulator Binding Sites, and Target Genes of a Conserved Cell Envelope Stress-Sensing Two-Component System. Journal of Bacteriology, 2006, 188, 5153-5166.	2.2	189
8	Cultivation and functional characterization of 79 planctomycetes uncovers their unique biology. Nature Microbiology, 2020, 5, 126-140.	13.3	164
9	Bacitracin sensing in <i>Bacillus subtilis</i>. Molecular Microbiology, 2008, 68, 768-785.	2.5	162
10	Intramembrane-sensing histidine kinases: a new family of cell envelope stress sensors in Firmicutes bacteria. FEMS Microbiology Letters, 2006, 264, 133-144.	1.8	143
11	The<i>Streptococcus pneumoniae cia</i>Regulon: CiaR Target Sites and Transcription Profile Analysis. Journal of Bacteriology, 2003, 185, 60-70.	2.2	142
12	Signaling diversity and evolution of extracytoplasmic function (ECF) Ïƒ factors. Current Opinion in Microbiology, 2013, 16, 148-155.	5.1	138
13	Coevolution of ABC Transporters and Two-Component Regulatory Systems as Resistance Modules against Antimicrobial Peptides in Firmicutes Bacteria. Journal of Bacteriology, 2011, 193, 3851-3862.	2.2	135
14	Regulatory Overlap and Functional Redundancy among<i>Bacillus subtilis</i>Extracytoplasmic Function Ïƒ Factors. Journal of Bacteriology, 2007, 189, 6919-6927.	2.2	112
15	Identification of Proteins Likely To Be Involved in Morphogenesis, Cell Division, and Signal Transduction in Planctomycetes by Comparative Genomics. Journal of Bacteriology, 2012, 194, 6419-6430.	2.2	110
16	In-Depth Profiling of the LiaR Response of <i>Bacillus subtilis</i>. Journal of Bacteriology, 2010, 192, 4680-4693.	2.2	107
17	Peptide Antibiotic Sensing and Detoxification Modules of <i>Bacillus subtilis</i>. Antimicrobial Agents and Chemotherapy, 2011, 55, 515-525.	3.2	105
18	The CiaRH System of<i>Streptococcus pneumoniae</i>Prevents Lysis during Stress Induced by Treatment with Cell Wall Inhibitors and by Mutations in<i>pbp2x</i>Involved in Î²-Lactam Resistance. Journal of Bacteriology, 2006, 188, 1959-1968.	2.2	99

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19	Daptomycin versus Friulimicin B: In-Depth Profiling of <i>Bacillus subtilis</i> Cell Envelope Stress Responses. Antimicrobial Agents and Chemotherapy, 2009, 53, 1619-1623.	3.2	87
20	The Bacillus BioBrick Box 2.0: expanding the genetic toolbox for the standardized work with Bacillus subtilis. Scientific Reports, 2017, 7, 15058.	3.3	82
21	Anatomy of the bacitracin resistance network in <scp><i>B</i></scp><i>acillus subtilis</i>. Molecular Microbiology, 2016, 100, 607-620.	2.5	67
22	Antibiotic research in the age of omics: from expression profiles to interspecies communication. Journal of Antimicrobial Chemotherapy, 2011, 66, 2689-2704.	3.0	60
23	A New Way of Sensing: Need-Based Activation of Antibiotic Resistance by a Flux-Sensing Mechanism. MBio, 2015, 6, e00975.	4.1	60
24	Bacterial (intramembrane-sensing) histidine kinases: signal transfer rather than stimulus perception. Trends in Microbiology, 2014, 22, 559-565.	7.7	59
25	The cell envelope stress response of Bacillus subtilis: from static signaling devices to dynamic regulatory network. Current Genetics, 2017, 63, 79-90.	1.7	58
26	Defence against antimicrobial peptides: different strategies in <scp><i>F</i></scp><i>irmicutes</i>. Environmental Microbiology, 2014, 16, 1225-1237.	3.8	54
27	Environmental Sensing in Actinobacteria: a Comprehensive Survey on the Signaling Capacity of This Phylum. Journal of Bacteriology, 2015, 197, 2517-2535.	2.2	54
28	The LIKE system, a novel protein expression toolbox for Bacillus subtilis based on the liaI promoter. Microbial Cell Factories, 2012, 11, 143.	4.0	53
29	The Pneumococcal Cell Envelope Stress-Sensing System LiaFSR Is Activated by Murein Hydrolases and Lipid II-Interacting Antibiotics. Journal of Bacteriology, 2010, 192, 1761-1773.	2.2	50
30	General stress response in Î±â€proteobacteria: PhyR and beyond. Molecular Microbiology, 2010, 78, 271-277.	2.5	48
31	Antimicrobial peptide sensing and detoxification modules: unravelling the regulatory circuitry of <i>Staphylococcus aureus</i>. Molecular Microbiology, 2011, 81, 581-587.	2.5	48
32	Stoichiometry and perturbation studies of the <scp>LiaFSR</scp> system of <scp><i>B</i></scp><i>acillus subtilis</i>. Molecular Microbiology, 2013, 87, 769-788.	2.5	47
33	Subcellular localization, interactions and dynamics of the phageâ€shock proteinâ€like <scp>Lia</scp> response in <scp><i>B</i></scp><i>acillus subtilis</i>. Molecular Microbiology, 2014, 92, 716-732.	2.5	45
34	Cell Envelope Stress Response in Cell Wall-Deficient L-Forms of Bacillus subtilis. Antimicrobial Agents and Chemotherapy, 2012, 56, 5907-5915.	3.2	44
35	Substitution of the native srfA promoter by constitutive P in two B. subtilis strains and evaluation of the effect on Surfactin production. Journal of Biotechnology, 2016, 224, 14-17.	3.8	44
36	Characterization of a Regulatory Network of Peptide Antibiotic Detoxification Modules in Lactobacillus casei BL23. Applied and Environmental Microbiology, 2013, 79, 3160-3170.	3.1	41

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37	LiaRS-dependent gene expression is embedded in transition state regulation in Bacillus subtilis. Microbiology (United Kingdom), 2007, 153, 2530-2540.	1.8	40
38	Extracytoplasmic function Ïƒ factors of the widely distributed group ECF41 contain a fused regulatory domain. MicrobiologyOpen, 2012, 1, 194-213.	3.0	40
39	A dynaminâ€‘like protein involved in bacterial cell membrane surveillance under environmental stress. Environmental Microbiology, 2016, 18, 2705-2720.	3.8	40
40	Regulation of the Bacillus subtilis Extracytoplasmic Function Protein Ïƒ Y and Its Target Promoters. Journal of Bacteriology, 2003, 185, 4883-4890.	2.2	37
41	The applied side of antimicrobial peptide-inducible promoters from Firmicutes bacteria: expression systems and whole-cell biosensors. Applied Microbiology and Biotechnology, 2016, 100, 4817-4829.	3.6	34
42	Cannibalism stress response in Bacillus subtilis. Microbiology (United Kingdom), 2016, 162, 164-176.	1.8	34
43	Cell Envelope Stress Response in Bacillus licheniformis : Integrating Comparative Genomics, Transcriptional Profiling, and Regulon Mining To Decipher a Complex Regulatory Network. Journal of Bacteriology, 2006, 188, 7500-7511.	2.2	33
44	The peroxide stress response of <i>Bacillus licheniformis</i>. Proteomics, 2011, 11, 2851-2866.	2.2	32
45	The Bacillus subtilis GntR Family Repressor YtrA Responds to Cell Wall Antibiotics. Journal of Bacteriology, 2011, 193, 5793-5801.	2.2	32
46	Engineering orthogonal synthetic timer circuits based on extracytoplasmic function Ïƒ factors. Nucleic Acids Research, 2018, 46, 7450-7464.	14.5	32
47	Expansion and re-classification of the extracytoplasmic function (ECF) Ïƒ factor family. Nucleic Acids Research, 2021, 49, 986-1005.	14.5	32
48	The ciaR/ciaH regulatory network of Streptococcus pneumoniae. Journal of Molecular Microbiology and Biotechnology, 2002, 4, 211-6.	1.0	31
49	Coordinated Cell Death in Isogenic Bacterial Populations: Sacrificing Some for the Benefit of Many?. Journal of Molecular Biology, 2019, 431, 4656-4669.	4.2	30
50	The Epipeptide YydF Intrinsically Triggers the Cell Envelope Stress Response of Bacillus subtilis and Causes Severe Membrane Perturbations. Frontiers in Microbiology, 2020, 11, 151.	3.5	29
51	(Actino)Bacterial â€œintelligenceâ€: using comparative genomics to unravel the information processing capacities of microbes. Current Genetics, 2016, 62, 487-498.	1.7	27
52	Defining the regulon of genes controlled by Ïƒ^E, a key regulator of the cell envelope stress response in <i>Streptomyces coelicolor</i>. Molecular Microbiology, 2019, 112, 461-481.	2.5	27
53	Membrane chaperoning by members of the PspA/IM30 protein family. Communicative and Integrative Biology, 2017, 10, e1264546.	1.4	25
54	ECF Ïƒ factors with regulatory extensions: the oneâ€component systems of the Ïƒ universe. Molecular Microbiology, 2019, 112, 399-409.	2.5	23

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55	Bacillus SEVA siblings: A Golden Gate-based toolbox to create personalized integrative vectors for Bacillus subtilis. Scientific Reports, 2017, 7, 14134.	3.3	22
56	Immediate and Heterogeneous Response of the LiaFSR Two-Component System of Bacillus subtilis to the Peptide Antibiotic Bacitracin. PLoS ONE, 2013, 8, e53457.	2.5	20
57	Sporobeads: The Utilization of the <i>Bacillus subtilis</i> Endospore Crust as a Protein Display Platform. ACS Synthetic Biology, 2018, 7, 452-461.	3.8	20
58	The <i>Bacillus subtilis</i> endospore crust: protein interaction network, architecture and glycosylation state of a potential glycoprotein layer. Molecular Microbiology, 2019, 112, 1576-1592.	2.5	19
59	The role of Câ€terminal extensions in controlling ECF Ïƒ factor activity in the widely conserved groups ECF41 and ECF42. Molecular Microbiology, 2019, 112, 498-514.	2.5	19
60	Application of a Bacillus subtilis Whole-Cell Biosensor (PliaI-lux) for the Identification of Cell Wall Active Antibacterial Compounds. Methods in Molecular Biology, 2017, 1520, 121-131.	0.9	17
61	Environmental Sensing and the Role of Extracytoplasmic Function Sigma Factors. , 2008, , 233-261.		16
62	The Essential UPP Phosphatase Pair BcrC and UppP Connects Cell Wall Homeostasis during Growth and Sporulation with Cell Envelope Stress Response in Bacillus subtilis. Frontiers in Microbiology, 2017, 8, 2403.	3.5	16
63	Characterization of the Widely Distributed Novel ECF42 Group of Extracytoplasmic Function Ïƒ Factors in Streptomyces venezuelae. Journal of Bacteriology, 2018, 200, .	2.2	16
64	The rhamnolipid stress response of Bacillus subtilis. FEMS Microbiology Letters, 2011, 323, 113-123.	1.8	15
65	The threeâ€component system EsrISR regulates a cell envelope stress response in <i>Corynebacterium glutamicum</i>. Molecular Microbiology, 2017, 106, 719-741.	2.5	15
66	Amphotericin B Specifically Induces the Two-Component System LnrJK: Development of a Novel Whole-Cell Biosensor for the Detection of Amphotericin-Like Polyenes. Frontiers in Microbiology, 2020, 11, 2022.	3.5	13
67	The Epipeptide Biosynthesis Locus <i>epeXEPAB</i> Is Widely Distributed in <i>Firmicutes</i> and Triggers Intrinsic Cell Envelope Stress. Microbial Physiology, 2021, 31, 306-318.	2.4	13
68	Development of a novel heterologous Î²-lactam-specific whole-cell biosensor in Bacillus subtilis. Journal of Biological Engineering, 2020, 14, 21.	4.7	12
69	Phyletic Distribution and Diversification of the Phage Shock Protein Stress Response System in Bacteria and Archaea. MSystems, 2022, 7, .	3.8	11
70	A balancing act times two: sensing and regulating cell envelope homeostasis inBacillus subtilis. Molecular Microbiology, 2014, 94, 1201-1207.	2.5	10
71	Bacillus subtilis as a Platform for Molecular Characterisation of Regulatory Mechanisms of Enterococcus faecalis Resistance against Cell Wall Antibiotics. PLoS ONE, 2014, 9, e93169.	2.5	9
72	Silver (I) N-Heterocyclic Carbenes Carbosilane Dendritic Systems and Their Imidazolium-Terminated Analogues as Antibacterial Agents: Study of Their Mode of Action. Pharmaceutics, 2020, 12, 968.	4.5	9

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73	Extracytoplasmic Function Ïƒ Factors Can Be Implemented as Robust Heterologous Genetic Switches in Bacillus subtilis. IScience, 2019, 13, 380-390.	4.1	8
74	From Modules to Networks: a Systems-Level Analysis of the Bacitracin Stress Response in Bacillus subtilis. MSystems, 2020, 5, .	3.8	8
75	Insulation and wiring specificity of BceRâ€like response regulators and their target promoters in <i>Bacillus subtilis</i>. Molecular Microbiology, 2017, 104, 16-31.	2.5	7
76	Extracytoplasmic Function Ïƒ Factors Come of Age. Microbe Magazine, 2010, 5, 164-170.	0.4	7
77	Regulation of heterologous subtilin production in Bacillus subtilis W168. Microbial Cell Factories, 2022, 21, 57.	4.0	7
78	Regulatory Characteristics of Bacillus pumilus Protease Promoters. Current Microbiology, 2017, 74, 550-559.	2.2	4
79	Promoter RNA sequencing (PRSeq) for the massive and quantitative promoter analysis in vitro. Scientific Reports, 2019, 9, 3118.	3.3	3
80	ABC Transporter DerAB of Lactobacillus casei Mediates Resistance against Insect-Derived Defensins. Applied and Environmental Microbiology, 2020, 86, .	3.1	3
81	Low phosphatase activity of LiaS and strong LiaR-DNA affinity explain the unusual LiaS to LiaR in vivo stoichiometry. BMC Microbiology, 2020, 20, 104.	3.3	3
82	The REACT Suite: A Software Toolkit for Microbial REgulon Annotation and Comparative Transcriptomics. , 0, , .		0