Regine Hengge

List of Publications by Year
in descending order

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73
papers

7,880
citations

71102
41
h-index

82547
72
g-index

81
all docs

81
docs citations

81
times ranked

7064
citing authors

#	Article	IF	Citations
1	High-specificity local and global c-di-GMP signaling. Trends in Microbiology, 2021, 29, 993-1003.	7.7	74
2	Bacterial Multicellularity: The Biology of <i>Escherichia coli</i> Building Large-Scale Biofilm Communities. Annual Review of Microbiology, 2021, 75, 269-290.	7.3	36
3	Adaptation of <i>Escherichia coli</i> Biofilm Growth, Morphology, and Mechanical Properties to Substrate Water Content. ACS Biomaterials Science and Engineering, 2021, 7, 5315-5325.	5.2	14
4	Crosstalking second messengers. Nature Microbiology, 2021, 6, 9-10.	13.3	3
5	A Novel Locally c-di-GMP-Controlled Exopolysaccharide Synthase Required for Bacteriophage N4 Infection of <i>Escherichia coli</i>. MBio, 2021, 12, e0324921.	4.1	14
6	Common plant flavonoids prevent the assembly of amyloid curli fibres and can interfere with bacterial biofilm formation. Environmental Microbiology, 2020, 22, 5280-5299.	3.8	28
7	Local c-di-GMP Signaling in the Control of Synthesis of the E. coli Biofilm Exopolysaccharide pEtN-Cellulose. Journal of Molecular Biology, 2020, 432, 4576-4595.	4.2	53
8	Non-lethal exposure to H2O2 boosts bacterial survival and evolvability against oxidative stress. PLoS Genetics, 2020, 16, e1008649.	3.5	59
9	Linking bacterial growth, survival, and multicellularity â€“ small signaling molecules as triggers and drivers. Current Opinion in Microbiology, 2020, 55, 57-66.	5.1	59
10	Targeting Bacterial Biofilms by the Green Tea Polyphenol EGCG. Molecules, 2019, 24, 2403.	3.8	60
11	Cellulose in Bacterial Biofilms. Biologically-inspired Systems, 2019, , 355-392.	0.2	17
12	The <i>Escherichia coli</i> MarA protein regulates the <i>ycgZ</i>â€•<i>ymgABC</i> operon to inhibit biofilm formation. Molecular Microbiology, 2019, 112, 1609-1625.	2.5	17
13	Recent Advances and Current Trends in Nucleotide Second Messenger Signaling in Bacteria. Journal of Molecular Biology, 2019, 431, 908-927.	4.2	41
14	Genetic dissection of Escherichia coli's master diguanylate cyclase DgcE: Role of the N-terminal MASE1 domain and direct signal input from a GTPase partner system. PLoS Genetics, 2019, 15, e1008059.	3.5	28
15	A c-di-GMP-Based Switch Controls Local Heterogeneity of Extracellular Matrix Synthesis which Is Crucial for Integrity and Morphogenesis of Escherichia coli Macrocolony Biofilms. Journal of Molecular Biology, 2019, 431, 4775-4793.	4.2	41
16	Transmembrane redox control and proteolysis of PdeC, a novel type of câ€•diâ€•<scp>GMP</scp> phosphodiesterase. EMBO Journal, 2018, 37, .	7.8	37
17	Phosphoethanolamine cellulose: A naturally produced chemically modified cellulose. Science, 2018, 359, 334-338.	12.6	208
18	Discovery of Phosphoethanolamine Cellulose and the Genetic Basis for its Biosynthesis in E. coli Biofilms. Biophysical Journal, 2018, 114, 158a.	0.5	0

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19	The Intestinal Roundworm Ascaris suum Releases Antimicrobial Factors Which Interfere With Bacterial Growth and Biofilm Formation. Frontiers in Cellular and Infection Microbiology, 2018, 8, 271.	3.9	41
20	Spatial organization of different sigma factor activities and c-di-GMP signalling within the three-dimensional landscape of a bacterial biofilm. Open Biology, 2018, 8, .	3.6	61
21	More than Enzymes That Make or Break Cyclic Di-GMPâ€”Local Signaling in the Interactome of GGDEF/EAL Domain Proteins of <i>Escherichia coli</i>. MBio, 2017, 8, .	4.1	136
22	Experimental Detection and Visualization of the Extracellular Matrix in Macrocolony Biofilms. Methods in Molecular Biology, 2017, 1657, 133-145.	0.9	19
23	The green tea polyphenol EGCG inhibits <scp><i>E</i></scp><i>. coli</i> biofilm formation by impairing amyloid curli fibre assembly and downregulating the biofilm regulator CsgD via the Ïƒ^Eâ€dependent sRNA RybB. Molecular Microbiology, 2016, 101, 136-151.	2.5	107
24	Trigger phosphodiesterases as a novel class of c-di-GMP effector proteins. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150498.	4.0	71
25	Bacterial Signal Transduction by Cyclic Di-GMP and Other Nucleotide Second Messengers. Journal of Bacteriology, 2016, 198, 15-26.	2.2	127
26	Genome-Based Comparison of Cyclic Di-GMP Signaling in Pathogenic and Commensal Escherichia coli Strains. Journal of Bacteriology, 2016, 198, 111-126.	2.2	59
27	Systematic Nomenclature for GGDEF and EAL Domain-Containing Cyclic Di-GMP Turnover Proteins of Escherichia coli. Journal of Bacteriology, 2016, 198, 7-11.	2.2	96
28	Vertical stratification of matrix production is essential for physical integrity and architecture of macrocolony biofilms of <scp><i>E</i></scp><i>scherichia coli</i>. Environmental Microbiology, 2015, 17, 5073-5088.	3.8	44
29	Logical-continuous modelling of post-translationally regulated bistability of curli fiber expression in Escherichia coli. BMC Systems Biology, 2015, 9, 39.	3.0	11
30	Small RNAs in the control of RpoS, CsgD, and biofilm architecture of<i>Escherichia coli</i>. RNA Biology, 2014, 11, 494-507.	3.1	146
31	Stress responses go three dimensional â€“ the spatial order of physiological differentiation in bacterial macrocolony biofilms. Environmental Microbiology, 2014, 16, 1455-1471.	3.8	153
32	Cyclicâ€diâ€<scp>GMP</scp> signalling and biofilmâ€related properties of the Shiga toxinâ€producing 2011 German outbreak <i><scp>E</scp>scherichia coli</i> O104:H4. EMBO Molecular Medicine, 2014, 6, 1622-1637.	6.9	60
33	Novel tricks played by the second messenger c-di-GMP in bacterial biofilm formation. EMBO Journal, 2013, 32, 322-323.	7.8	10
34	Reply to â€œPrecedence for the Structural Role of Flagella in Biofilmsâ€ MBio, 2013, 4, e00245-13.	4.1	1
35	Small Regulatory RNAs in the Control of Motility and Biofilm Formation in E. coli and Salmonella. International Journal of Molecular Sciences, 2013, 14, 4560-4579.	4.1	142
36	The EAL domain protein YciR acts as a trigger enzyme in a c-di-GMP signalling cascade in E. coli biofilm control. EMBO Journal, 2013, 32, 2001-2014.	7.8	157

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37	Microanatomy at Cellular Resolution and Spatial Order of Physiological Differentiation in a Bacterial Biofilm. MBio, 2013, 4, e00103-13.	4.1	286
38	Cellulose as an Architectural Element in Spatially Structured Escherichia coli Biofilms. Journal of Bacteriology, 2013, 195, 5540-5554.	2.2	291
39	The global repressor FliZ antagonizes gene expression by Ïƒ S -containing RNA polymerase due to overlapping DNA binding specificity. Nucleic Acids Research, 2012, 40, 4783-4793.	14.5	38
40	â€˜Life-styleâ€™ control networks in Escherichia coli: Signaling by the second messenger c-di-GMP. Journal of Biotechnology, 2012, 160, 10-16.	3.8	94
41	The enemy within us: lessons from the 2011 European <i>Escherichia coli</i> O104:H4 outbreak. EMBO Molecular Medicine, 2012, 4, 841-848.	6.9	215
42	Targeting of <i>csgD</i> by the small regulatory RNA RprA links stationary phase, biofilm formation and cell envelope stress in <i>Escherichia coli</i>. Molecular Microbiology, 2012, 84, 51-65.	2.5	111
43	Molecular function and potential evolution of the biofilmâ€modulating blue lightâ€signalling pathway of <i>Escherichia coli</i>. Molecular Microbiology, 2012, 85, 893-906.	2.5	46
44	Stationary-Phase Gene Regulation in <i>Escherichia coli</i> ÂÂ§. EcoSal Plus, 2011, 4, .	5.4	48
45	Rare codons play a positive role in the expression of the stationary phase sigma factor RpoS (ÏƒS) in<i>Escherichia coli</i>. RNA Biology, 2011, 8, 913-921.	3.1	25
46	Escherichia coli Ïƒ 70 senses sequence and conformation of the promoter spacer region. Nucleic Acids Research, 2011, 39, 5109-5118.	14.5	58
47	Cyclic-di-GMP Reaches Out into the Bacterial RNA World. Science Signaling, 2010, 3, pe44.	3.6	35
48	The influence of Hfq and ribonucleases on the stability of the small non-coding RNA OxyS and its target<i>rpoS</i>in<i>E. coli</i>is growth phase dependent. RNA Biology, 2009, 6, 584-594.	3.1	34
49	Gene expression patterns and differential input into curli fimbriae regulation of all GGDEF/EAL domain proteins in Escherichia coli. Microbiology (United Kingdom), 2009, 155, 1318-1331.	1.8	150
50	Principles of c-di-GMP signalling in bacteria. Nature Reviews Microbiology, 2009, 7, 263-273.	28.6	1,320
51	The BLUF-EAL protein YcgF acts as a direct anti-repressor in a blue-light response of <i>Escherichia coli</i>. Genes and Development, 2009, 23, 522-534.	5.9	165
52	Proteolysis of ÏƒS (RpoS) and the general stress response in Escherichia coli. Research in Microbiology, 2009, 160, 667-676.	2.1	157
53	Proteolysis in prokaryotes â€“ from molecular machines to a systems perspective. Research in Microbiology, 2009, 160, 615-617.	2.1	4
54	Bacterial nucleotide-based second messengers. Current Opinion in Microbiology, 2009, 12, 170-176.	5.1	158

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55	A role for Lon protease in the control of the acid resistance genes of <i>Escherichia coli</i>. Molecular Microbiology, 2008, 69, 534-547.	2.5	35
56	Inverse regulatory coordination of motility and curli-mediated adhesion in <i>Escherichia coli</i>. Genes and Development, 2008, 22, 2434-2446.	5.9	299
57	The ÏƒS subunit of RNA polymerase as a signal integrator and network master regulator in the general stress response in Escherichia coli. Science Progress, 2007, 90, 103-127.	1.9	65
58	Stationary phase reorganisation of the Escherichia coli transcription machinery by Crl protein, a fine-tuner of Ïƒs activity and levels. EMBO Journal, 2007, 26, 1569-1578.	7.8	107
59	The ?35 sequence location and the Fis?sigma factor interface determine ?Sselectivity of the proP (P2) promoter in Escherichia coli. Molecular Microbiology, 2007, 63, 780-96.	2.5	28
60	The molecular basis of selective promoter activation by the ?Ssubunit of RNA polymerase. Molecular Microbiology, 2007, 63, 1296-1306.	2.5	147
61	Cellular levels and activity of the flagellar sigma factor FliA ofEscherichia coliare controlled by FlgM-modulated proteolysis. Molecular Microbiology, 2007, 65, 76-89.	2.5	75
62	Role of the spacer between the -35 and -10 regions in sigmas promoter selectivity in Escherichia coli. Molecular Microbiology, 2006, 59, 1037-1051.	2.5	73
63	Poly(A)â€polymerase I links transcription with mRNA degradation via Ïƒ S proteolysis. Molecular Microbiology, 2006, 60, 177-188.	2.5	24
64	Cyclic-di-GMP-mediated signalling within the ?Snetwork of Escherichia coli. Molecular Microbiology, 2006, 62, 1014-1034.	2.5	250
65	Genome-Wide Analysis of the General Stress Response Network in<i>Escherichia coli</i>: Ïƒ^S-Dependent Genes, Promoters, and Sigma Factor Selectivity. Journal of Bacteriology, 2005, 187, 1591-1603.	2.2	743
66	A two-component phosphotransfer network involving ArcB, ArcA, and RssB coordinates synthesis and proteolysis of Ïƒ^S (RpoS) in <i>E. coli</i>. Genes and Development, 2005, 19, 2770-2781.	5.9	169
67	Differential ability of Ïƒs and Ïƒ70 of Escherichia coli to utilize promoters containing half or full UP-element sites. Molecular Microbiology, 2004, 55, 250-260.	2.5	37
68	Sequential recognition of two distinct sites in ÂS by the proteolytic targeting factor RssB and ClpX. EMBO Journal, 2003, 22, 4111-4120.	7.8	91
69	Dynamic control of Dps protein levels by ClpXP and ClpAP proteases in Escherichia coli. Molecular Microbiology, 2003, 49, 1605-1614.	2.5	70
70	Multiple stress signal integration in the regulation of the complex ÏƒS-dependent csiD-ygaF-gabDTP operon in Escherichia coli. Molecular Microbiology, 2003, 51, 799-811.	2.5	62
71	The General Stress Response in Gram-Negative Bacteria. , 0, , 251-289.		41
72	Role of Cyclic Di-GMP in the Regulatory Networks of <i>Escherichia coli</i>. , 0, , 230-252.		9

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73	General Stress Response in<i>Bacillus subtilis</i>and Related Gram-Positive Bacteria. , 0, , 301-318.		23