Lotte Sogaard-Andersen

List of Publications by Year
in descending order

116 papers	5,954 citations	61857 43 h-index	91712 69 g-index
135 all docs	135 docs citations	135 times ranked	4631 citing authors

#	Article	IF	Citations
1	Bacterial solutions to multicellularity: a tale of biofilms, filaments and fruiting bodies. Nature Reviews Microbiology, 2014, 12, 115-124.	13.6	379
2	Architecture of the type IVa pilus machine. Science, 2016, 351, aad2001.	6.0	347
3	The RNA-Binding Protein Hfq of Listeria monocytogenes: Role in Stress Tolerance and Virulence. Journal of Bacteriology, 2004, 186, 3355-3362.	1.0	232
4	Correlated cryogenic photoactivated localization microscopy and cryo-electron tomography. Nature Methods, 2014, 11, 737-739.	9.0	201
5	Identification of small Hfq-binding RNAs in Listeria monocytogenes. Rna, 2006, 12, 1383-1396.	1.6	150
6	Extracellular biology of<i>Myxococcus xanthus</i>. FEMS Microbiology Reviews, 2010, 34, 89-106.	3.9	146
7	Regulation of the type IV pili molecular machine by dynamic localization of two motor proteins. Molecular Microbiology, 2009, 74, 691-706.	1.2	143
8	PilB and PilT Are ATPases Acting Antagonistically in Type IV Pilus Function in <i>Myxococcus xanthus</i>. Journal of Bacteriology, 2008, 190, 2411-2421.	1.0	137
9	The FruA signal transduction protein provides a checkpoint for the temporal co-ordination of inter-cellular signals inMyxococcus xanthusdevelopment. Molecular Microbiology, 1998, 30, 807-817.	1.2	136
10	Bioinformatics and Experimental Analysis of Proteins of Two-Component Systems in <i>Myxococcus xanthus</i>. Journal of Bacteriology, 2008, 190, 613-624.	1.0	122
11	Identification of the C-signal, a contact-dependent morphogen coordinating multiple developmental responses in Myxococcus xanthus. Genes and Development, 2003, 17, 2151-2161.	2.7	121
12	High-Force Generation Is a Conserved Property of Type IV Pilus Systems. Journal of Bacteriology, 2009, 191, 4633-4638.	1.0	116
13	Arginine-rhamnosylation as new strategy to activate translation elongation factor P. Nature Chemical Biology, 2015, 11, 266-270.	3.9	116
14	Regulation of dynamic polarity switching in bacteria by a Ras-like G-protein and its cognate GAP. EMBO Journal, 2010, 29, 2276-2289.	3.5	111
15	Comparative Genomic Analysis of Fruiting Body Formation in Myxococcales. Molecular Biology and Evolution, 2011, 28, 1083-1097.	3.5	111
16	<scp>PomZ</scp>, a <scp>ParA</scp>â€like protein, regulates <scp>Z</scp>â€ring formation and cell division in <i><scp>M</scp>yxococcus xanthus</i>. Molecular Microbiology, 2013, 87, 235-253.	1.2	103
17	A flexible partnership: the CytR antiâ€activator and the cAMPâ€“CRP activator protein, comrades in transcription control. Molecular Microbiology, 1996, 20, 461-466.	1.2	102
18	Coupling of protein localization and cell movements by a dynamically localized response regulator in Myxococcus xanthus. EMBO Journal, 2007, 26, 4433-4444.	3.5	94

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19	Pattern formation by a cell surface-associated morphogen in Myxococcus xanthus. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 2032-2037.	3.3	90
20	Structural analysis of the Ras-like G protein MglA and its cognate GAP MglB and implications for bacterial polarity. EMBO Journal, 2011, 30, 4185-4197.	3.5	90
21	Regulation of cell polarity in bacteria. Journal of Cell Biology, 2014, 206, 7-17.	2.3	83
22	Outside-In Assembly Pathway of the Type IV Pilus System in Myxococcus xanthus. Journal of Bacteriology, 2014, 196, 378-390.	1.0	83
23	C-signal: a cell surface-associated morphogen that induces and co-ordinates multicellular fruiting body morphogenesis and sporulation in Myxococcus xanthus. Molecular Microbiology, 2001, 40, 156-168.	1.2	82
24	Temporal and spatial oscillations in bacteria. Nature Reviews Microbiology, 2011, 9, 565-577.	13.6	78
25	CesRK, a Two-Component Signal Transduction System in Listeria monocytogenes, Responds to the Presence of Cell Wall-Acting Antibiotics and Affects Î²-Lactam Resistance. Antimicrobial Agents and Chemotherapy, 2003, 47, 3421-3429.	1.4	77
26	Regulation of Cell Polarity in Motility and Cell Division in <i>Myxococcus xanthus</i>. Annual Review of Microbiology, 2017, 71, 61-78.	2.9	75
27	Profiling the Outer Membrane Proteome during Growth and Development of the Social Bacterium <i>Myxococcus xanthus</i> by Selective Biotinylation and Analyses of Outer Membrane Vesicles. Journal of Proteome Research, 2010, 9, 5197-5208.	1.8	69
28	Tracking of Chromosome and Replisome Dynamics in Myxococcus xanthus Reveals a Novel Chromosome Arrangement. PLoS Genetics, 2013, 9, e1003802.	1.5	69
29	Peptidoglycan-binding protein TsaP functions in surface assembly of type IV pili. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E953-61.	3.3	68
30	PilY1 and minor pilins form a complex priming the type IVa pilus in Myxococcus xanthus. Nature Communications, 2020, 11, 5054.	5.8	67
31	Coupling gene expression and multicellular morphogenesis during fruiting body formation in Myxococcus xanthus. Molecular Microbiology, 2003, 48, 1-8.	1.2	66
32	Complete Genome Sequence of the Fruiting Myxobacterium Corallococcus coralloides DSM 2259. Journal of Bacteriology, 2012, 194, 3012-3013.	1.0	65
33	The PomXYZ Proteins Self-Organize on the Bacterial Nucleoid to Stimulate Cell Division. Developmental Cell, 2017, 41, 299-314.e13.	3.1	62
34	A Response Regulator Interfaces between the Frz Chemosensory System and the MglA/MglB GTPase/GAP Module to Regulate Polarity in Myxococcus xanthus. PLoS Genetics, 2012, 8, e1002951.	1.5	60
35	Regulated proteolysis in bacterial development. FEMS Microbiology Reviews, 2014, 38, 493-522.	3.9	60
36	The Type IV Pilus Assembly ATPase PilB of Myxococcus xanthus Interacts with the Inner Membrane Platform Protein PilC and the Nucleotide-binding Protein PilM. Journal of Biological Chemistry, 2016, 291, 6946-6957.	1.6	60

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37	Protein-protein interactions in gene regulation: The cAMP-CRP complex sets the specificity of a second DNA-binding protein, the CytR repressor. Cell, 1993, 75, 557-566.	13.5	59
38	Pattern formation: fruiting body morphogenesis in Myxococcus xanthus. Current Opinion in Microbiology, 2000, 3, 637-642.	2.3	59
39	AraC-like transcriptional activator CuxR binds c-di-GMP by a PilZ-like mechanism to regulate extracellular polysaccharide production. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E4822-E4831.	3.3	58
40	Bactofilin-mediated organization of the ParABS chromosome segregation system in Myxococcus xanthus. Nature Communications, 2017, 8, 1817.	5.8	58
41	The small G-protein MglA connects to the MreB actin cytoskeleton at bacterial focal adhesions. Journal of Cell Biology, 2015, 210, 243-256.	2.3	56
42	Cyclic Di-GMP Regulates Multiple Cellular Functions in the Symbiotic Alphaproteobacterium Sinorhizobium meliloti. Journal of Bacteriology, 2016, 198, 521-535.	1.0	56
43	Two Small GTPases Act in Concert with the Bactofilin Cytoskeleton to Regulate Dynamic Bacterial Cell Polarity. Developmental Cell, 2013, 25, 119-131.	3.1	55
44	The DevT Protein Stimulates Synthesis of FruA, a Signal Transduction Protein Required for Fruiting Body Morphogenesis in Myxococcus xanthus. Journal of Bacteriology, 2002, 184, 1540-1546.	1.0	53
45	The orphan histidine protein kinase SgmT is a câ€diâ€GMP receptor and regulates composition of the extracellular matrix together with the orphan DNA binding response regulator DigR in Myxococcus xanthus. Molecular Microbiology, 2012, 84, 147-165.	1.2	52
46	Regulated Secretion of a Protease Activates Intercellular Signaling during Fruiting Body Formation in M. xanthus. Developmental Cell, 2008, 15, 627-634.	3.1	51
47	Evolution and Diversity of the Ras Superfamily of Small GTPases in Prokaryotes. Genome Biology and Evolution, 2015, 7, 57-70.	1.1	51
48	Close encounters: contactâ€dependent interactions in bacteria. Molecular Microbiology, 2011, 81, 297-301.	1.2	50
49	Contact- and Protein Transfer-Dependent Stimulation of Assembly of the Gliding Motility Machinery in Myxococcus xanthus. PLoS Genetics, 2015, 11, e1005341.	1.5	49
50	A Minimal Threshold of c-di-GMP Is Essential for Fruiting Body Formation and Sporulation in Myxococcus xanthus. PLoS Genetics, 2016, 12, e1006080.	1.5	46
51	Cyclic Di-GMP Regulates Type IV Pilus-Dependent Motility in Myxococcus xanthus. Journal of Bacteriology, 2016, 198, 77-90.	1.0	45
52	Cell polarity, intercellular signalling and morphogenetic cell movements in Myxococcus xanthus. Current Opinion in Microbiology, 2004, 7, 587-593.	2.3	44
53	A TonB-dependent transporter is required for secretion of protease PopC across the bacterial outer membrane. Nature Communications, 2019, 10, 1360.	5.8	43
54	Pattern-formation mechanisms in motility mutants of <i>Myxococcus xanthus</i>. Interface Focus, 2012, 2, 774-785.	1.5	42

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55	Cell behavior and cellâ€“cell communication during fruiting body morphogenesis in Myxococcus xanthus. Journal of Microbiological Methods, 2003, 55, 829-839.	0.7	41
56	Spatial control of the GTPase MglA by localized RomRâ€“RomX GEF and MglB GAP activities enables Myxococcus xanthus motility. Nature Microbiology, 2019, 4, 1344-1355.	5.9	36
57	Physiological Heterogeneity Triggers Sibling Conflict Mediated by the Type VI Secretion System in an Aggregative Multicellular Bacterium. MBio, 2018, 9, .	1.8	33
58	Regulation of Bacterial Cell Polarity by Small GTPases. Biochemistry, 2014, 53, 1899-1907.	1.2	32
59	cAMP-CRP activator complex and the CytR repressor protein bind co-operatively to the cytRP promoter in Escherichia coli and CytR antagonizes the cAMP-CRP-induced DNA bend. Journal of Molecular Biology, 1992, 227, 396-406.	2.0	31
60	Complete Genome Sequence of Myxococcus stipitatus Strain DSM 14675, a Fruiting Myxobacterium. Genome Announcements, 2013, 1, e0010013.	0.8	30
61	Comprehensive Set of Integrative Plasmid Vectors for Copper-Inducible Gene Expression in Myxococcus xanthus. Applied and Environmental Microbiology, 2012, 78, 2515-2521.	1.4	29
62	The Orphan Response Regulator DigR Is Required for Synthesis of Extracellular Matrix Fibrils in Myxococcus xanthus. Journal of Bacteriology, 2006, 188, 4384-4394.	1.0	28
63	GTPases in bacterial cell polarity and signalling. Current Opinion in Microbiology, 2011, 14, 726-733.	2.3	27
64	TodK, a Putative Histidine Protein Kinase, Regulates Timing of Fruiting Body Morphogenesis in Myxococcus xanthus. Journal of Bacteriology, 2003, 185, 5452-5464.	1.0	25
65	The small GTPase MglA together with the TPR domain protein SgmX stimulates type IV pili formation in <i>M. xanthus</i>. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 23859-23868.	3.3	25
66	Coupling of multicellular morphogenesis and cellular differentiation by an unusual hybrid histidine protein kinase in Myxococcus xanthus. Molecular Microbiology, 2005, 56, 1358-1372.	1.2	24
67	Two intercellular signals required for fruiting body formation in <i>Myxococcus xanthus</i> act sequentially but nonâ€hierarchically. Molecular Microbiology, 2012, 86, 65-81.	1.2	24
68	A RelAâ€dependent twoâ€tiered regulated proteolysis cascade controls synthesis of a contactâ€dependent intercellular signal in <i>Myxococcus xanthus</i>. Molecular Microbiology, 2012, 84, 260-275.	1.2	24
69	Reversing cells and oscillating motility proteins. Molecular BioSystems, 2008, 4, 1009.	2.9	23
70	Four signalling domains in the hybrid histidine protein kinase RodK of Myxococcus xanthus are required for activity. Molecular Microbiology, 2006, 60, 525-534.	1.2	21
71	MglC, a Paralog of Myxococcus xanthus GTPase-Activating Protein MglB, Plays a Divergent Role in Motility Regulation. Journal of Bacteriology, 2016, 198, 510-520.	1.0	21
72	Identification of the nucleotide sequence recognized by the cAMP-CRP dependent CytR repressor protein in thedeoP2promoter inE.coli. Nucleic Acids Research, 1993, 21, 879-885.	6.5	20

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73	Design of CytR regulated, cAMP-CRP dependent class II promoters in Escherichia coli: RNA polymerase-promoter interactions modulate the efficiency of CytR repression. Journal of Molecular Biology, 1997, 266, 866-876.	2.0	20
74	Making waves: pattern formation by a cell-surface-associated signal. Trends in Microbiology, 2005, 13, 249-252.	3.5	20
75	Characterization of the Exopolysaccharide Biosynthesis Pathway in Myxococcus xanthus. Journal of Bacteriology, 2020, 202, .	1.0	19
76	Biosynthesis and function of cell-surface polysaccharides in the social bacterium Myxococcus xanthus. Biological Chemistry, 2020, 401, 1375-1387.	1.2	19
77	The gene encoding the periplasmic cyclophilin homologue, PPlase A, in Escherichia coli, is expressed from four promoters, three of which are activated by the cAMP?CRP complex and negatively regulated by the CytR repressor. Molecular Microbiology, 1994, 14, 989-997.	1.2	18
78	Identification of the lipopolysaccharide Oâ€antigen biosynthesis priming enzyme and the Oâ€antigen ligase inMyxococcus xanthus: critical role of LPS Oâ€antigen in motility and development. Molecular Microbiology, 2019, 112, 1178-1198.	1.2	17
79	The Atypical Hybrid Histidine Protein Kinase RodK in Myxococcus xanthus : Spatial Proximity Supersedes Kinetic Preference in Phosphotransfer Reactions. Journal of Bacteriology, 2009, 191, 1765-1776.	1.0	16
80	Seven-transmembrane receptor protein RgsP and cell wall-binding protein RgsM promote unipolar growth in Rhizobiales. PLoS Genetics, 2018, 14, e1007594.	1.5	16
81	CdbA is a DNA-binding protein and c-di-GMP receptor important for nucleoid organization and segregation in Myxococcus xanthus. Nature Communications, 2020, 11, 1791.	5.8	16
82	Protein-protein interaction network controlling establishment and maintenance of switchable cell polarity. PLoS Genetics, 2020, 16, e1008877.	1.5	15
83	Spatiotemporal regulation of switching frontâ€"rear cell polarity. Current Opinion in Cell Biology, 2022, 76, 102076.	2.6	15
84	Novel Transcriptome Patterns Accompany Evolutionary Restoration of Defective Social Development in the Bacterium Myxococcus xanthus. Molecular Biology and Evolution, 2008, 25, 1274-1281.	3.5	13
85	Programmed Cell Death: Role for MazF and MrpC in Myxococcus Multicellular Development. Current Biology, 2008, 18, R337-R339.	1.8	12
86	Identification of the Wzx flippase, Wzy polymerase and sugarâ€modifying enzymes for spore coat polysaccharide biosynthesis in Myxococcus xanthus. Molecular Microbiology, 2020, 113, 1189-1208.	1.2	11
87	Effect of the Min System on Timing of Cell Division in Escherichia coli. PLoS ONE, 2014, 9, e103863.	1.1	10
88	A noncanonical cytochrome <i>c</i> stimulates calcium binding by PilY1 for type IVa pili formation. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	10
89	Three PilZ Domain Proteins, PlpA, PixA, and PixB, Have Distinct Functions in Regulation of Motility and Development in Myxococcus xanthus. Journal of Bacteriology, 2021, 203, e0012621.	1.0	8
90	CRP-Like Transcriptional Regulator MrpC Curbs c-di-GMP and 3â€²,3â€²-cGAMP Nucleotide Levels during Development in Myxococcus xanthus. MBio, 2022, 13, e0004422.	1.8	8

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91	HthA, a putative DNA-binding protein, and HthB are important for fruiting body morphogenesis in Myxococcus xanthus. Microbiology (United Kingdom), 2004, 150, 2171-2183.	0.7	7
92	SMC and the bactofilin/PadC scaffold have distinct yet redundant functions in chromosome segregation and organization in <i>Myxococcus xanthus</i>. Molecular Microbiology, 2020, 114, 839-856.	1.2	7
93	Contact-Dependent Signaling in Myxococcus xanthus: the Function of the C-Signal in Fruiting Body Morphogenesis. , 0, , 77-91.		7
94	Restored DNA-binding of the CAMP-CRP activator complex reestablishes negative regulation by the CytR repressor in the deoP2 promoter in Escherichia coli. Molecular Genetics and Genomics, 1991, 231, 76-80.	2.4	6
95	Complete Genome Sequence of the Fruiting Myxobacterium Myxococcus macrosporus Strain DSM 14697, Generated by PacBio Sequencing. Genome Announcements, 2017, 5, .	0.8	6
96	Fluorescence Live-cell Imaging of the Complete Vegetative Cell Cycle of the Slow-growing Social Bacterium Myxococcus xanthus. Journal of Visualized Experiments, 2018, , .	0.2	6
97	Directional intracellular trafficking in bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 7283-7284.	3.3	5
98	Transcriptomic analysis of the Myxococcus xanthus FruA regulon, and comparative developmental transcriptomic analysis of two fruiting body forming species, Myxococcus xanthus and Myxococcus stipitatus. BMC Genomics, 2021, 22, 784.	1.2	5
99	A Model of Oscillatory Protein Dynamics in Bacteria. Bulletin of Mathematical Biology, 2012, 74, 2183-2203.	0.9	4
100	Four different mechanisms for switching cell polarity. PLoS Computational Biology, 2021, 17, e1008587.	1.5	4
101	Architecture of the Type IVA Pilus Machine. Biophysical Journal, 2016, 110, 468a-469a.	0.2	3
102	Whole-Genome Sequence of the Fruiting Myxobacterium Cystobacter fuscus DSM 52655. Genome Announcements, 2017, 5, .	0.8	3
103	Type IV Pili-Dependent Motility as a Tool to Determine the Activity of c-di-GMP Modulating Enzymes in Myxococcus xanthus. Methods in Molecular Biology, 2017, 1657, 157-165.	0.4	3
104	Regulation by Cyclic di-GMP in Myxococcus xanthus. , 2020, , 293-309.		3
105	Growth and developmentâ€"prokaryotes. Current Opinion in Microbiology, 2008, 11, 532-534.	2.3	2
106	<scp>A</scp>lexander <scp>B</scp>Ã¶hm (1971â€"2012). Molecular Microbiology, 2013, 88, 219-221.	1.2	2
107	Complete Genome Sequence of the Fruiting Myxobacterium Melittangium boletus DSM 14713. Genome Announcements, 2017, 5, .	0.8	2
108	Stably bridging a great divide: localization of the <scp>SpoIIQ</scp> landmark protein in <i>Bacillus subtilis</i>. Molecular Microbiology, 2013, 89, 1019-1024.	1.2	1

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109	A STRATEGY FOR IDENTIFYING FLUORESCENCE INTENSITY PROFILES OF SINGLE ROD-SHAPED CELLS. Journal of Bioinformatics and Computational Biology, 2013, 11, 1250024.	0.3	1
110	A model for spatio-temporal dynamics in a regulatory network for cell polarity. Mathematical Biosciences, 2014, 258, 189-200.	0.9	1
111	Draft Genome Sequence of the Fruiting Myxobacterium Nannocystis exedens DSM 71. Genome Announcements, 2017, 5, .	0.8	1
112	Coupling of protein localization and cell movements by a dynamically localized response regulator in Myxococcus xanthus. EMBO Journal, 2009, 28, 1192-1192.	3.5	0
113	Title is missing!. , 2020, 16, e1008877.		0
114	Title is missing!. , 2020, 16, e1008877.		0
115	Title is missing!. , 2020, 16, e1008877.		0
116	Title is missing!. , 2020, 16, e1008877.		0