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	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
2	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
3	Spatiotemporal regulation of switching frontâ€“rear cell polarity. Current Opinion in Cell Biology, 2022, 76, 102076.	2.6	15
4	Four different mechanisms for switching cell polarity. PLoS Computational Biology, 2021, 17, e1008587.	1.5	4
5	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
6	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
7	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
8	PilY1 and minor pilins form a complex priming the type IVa pilus in Myxococcus xanthus. Nature Communications, 2020, 11, 5054.	5.8	67
9	Characterization of the Exopolysaccharide Biosynthesis Pathway in Myxococcus xanthus. Journal of Bacteriology, 2020, 202, .	1.0	19
10	Protein-protein interaction network controlling establishment and maintenance of switchable cell polarity. PLoS Genetics, 2020, 16, e1008877.	1.5	15
11	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
12	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
13	Regulation by Cyclic di-GMP in Myxococcus xanthus. , 2020, , 293-309.		3
14	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
15	Biosynthesis and function of cell-surface polysaccharides in the social bacterium Myxococcus xanthus. Biological Chemistry, 2020, 401, 1375-1387.	1.2	19
16	Title is missing!. , 2020, 16, e1008877.		0
17	Title is missing!. , 2020, 16, e1008877.		0
18	Title is missing!. , 2020, 16, e1008877.		0

#	Article	IF	Citations
19	Title is missing!. , 2020, 16, e1008877.		0
20	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
21	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
22	A TonB-dependent transporter is required for secretion of protease PopC across the bacterial outer membrane. Nature Communications, 2019, 10, 1360.	5.8	43
23	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
24	Seven-transmembrane receptor protein RgsP and cell wall-binding protein RgsM promote unipolar growth in Rhizobiales. PLoS Genetics, 2018, 14, e1007594.	1.5	16
25	Physiological Heterogeneity Triggers Sibling Conflict Mediated by the Type VI Secretion System in an Aggregative Multicellular Bacterium. MBio, 2018, 9, .	1.8	33
26	The PomXYZ Proteins Self-Organize on the Bacterial Nucleoid to Stimulate Cell Division. Developmental Cell, 2017, 41, 299-314.e13.	3.1	62
27	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
28	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
29	Whole-Genome Sequence of the Fruiting Myxobacterium Cystobacter fuscus DSM 52655. Genome Announcements, 2017, 5, .	0.8	3
30	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
31	Complete Genome Sequence of the Fruiting Myxobacterium Myxococcus macrosporus Strain DSM 14697, Generated by PacBio Sequencing. Genome Announcements, 2017, 5, .	0.8	6
32	Bactofilin-mediated organization of the ParABS chromosome segregation system in Myxococcus xanthus. Nature Communications, 2017, 8, 1817.	5.8	58
33	Complete Genome Sequence of the Fruiting Myxobacterium Melittangium boletus DSM 14713. Genome Announcements, 2017, 5, .	0.8	2
34	Draft Genome Sequence of the Fruiting Myxobacterium Nannocystis exedens DSM 71. Genome Announcements, 2017, 5, .	0.8	1
35	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
36	Cyclic Di-GMP Regulates Multiple Cellular Functions in the Symbiotic Alphaproteobacterium Sinorhizobium meliloti. Journal of Bacteriology, 2016, 198, 521-535.	1.0	56

#	Article	IF	Citations
37	Architecture of the type IVa pilus machine. Science, 2016, 351, aad2001.	6.0	347
38	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
39	Architecture of the Type IVA Pilus Machine. Biophysical Journal, 2016, 110, 468a-469a.	0.2	3
40	Cyclic Di-GMP Regulates Type IV Pilus-Dependent Motility in Myxococcus xanthus. Journal of Bacteriology, 2016, 198, 77-90.	1.0	45
41	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
42	Arginine-rhamnosylation as new strategy to activate translation elongation factor P. Nature Chemical Biology, 2015, 11, 266-270.	3.9	116
43	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
44	Evolution and Diversity of the Ras Superfamily of Small GTPases in Prokaryotes. Genome Biology and Evolution, 2015, 7, 57-70.	1.1	51
45	Contact- and Protein Transfer-Dependent Stimulation of Assembly of the Gliding Motility Machinery in Myxococcus xanthus. PLoS Genetics, 2015, 11, e1005341.	1.5	49
46	Effect of the Min System on Timing of Cell Division in Escherichia coli. PLoS ONE, 2014, 9, e103863.	1.1	10
47	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
48	Regulated proteolysis in bacterial development. FEMS Microbiology Reviews, 2014, 38, 493-522.	3.9	60
49	Regulation of Bacterial Cell Polarity by Small GTPases. Biochemistry, 2014, 53, 1899-1907.	1.2	32
50	Bacterial solutions to multicellularity: a tale of biofilms, filaments and fruiting bodies. Nature Reviews Microbiology, 2014, 12, 115-124.	13.6	379
51	A model for spatio-temporal dynamics in a regulatory network for cell polarity. Mathematical Biosciences, 2014, 258, 189-200.	0.9	1
52	Regulation of cell polarity in bacteria. Journal of Cell Biology, 2014, 206, 7-17.	2.3	83
53	Outside-In Assembly Pathway of the Type IV Pilus System in Myxococcus xanthus. Journal of Bacteriology, 2014, 196, 378-390.	1.0	83
54	Correlated cryogenic photoactivated localization microscopy and cryo-electron tomography. Nature Methods, 2014, 11, 737-739.	9.0	201

#	Article	IF	Citations
55	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
56	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
57	<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
58	Complete Genome Sequence of Myxococcus stipitatus Strain DSM 14675, a Fruiting Myxobacterium. Genome Announcements, 2013, 1, e0010013.	0.8	30
59	Tracking of Chromosome and Replisome Dynamics in Myxococcus xanthus Reveals a Novel Chromosome Arrangement. PLoS Genetics, 2013, 9, e1003802.	1.5	69
60	<scp>A</scp>lexander <scp>B</scp>Ã¶hm (1971â€“2012). Molecular Microbiology, 2013, 88, 219-221.	1.2	2
61	A STRATEGY FOR IDENTIFYING FLUORESCENCE INTENSITY PROFILES OF SINGLE ROD-SHAPED CELLS. Journal of Bioinformatics and Computational Biology, 2013, 11, 1250024.	0.3	1
62	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
63	Pattern-formation mechanisms in motility mutants of <i>Myxococcus xanthus</i>. Interface Focus, 2012, 2, 774-785.	1.5	42
64	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
65	Complete Genome Sequence of the Fruiting Myxobacterium Corallococcus coralloides DSM 2259. Journal of Bacteriology, 2012, 194, 3012-3013.	1.0	65
66	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
67	A Model of Oscillatory Protein Dynamics in Bacteria. Bulletin of Mathematical Biology, 2012, 74, 2183-2203.	0.9	4
68	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
69	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
70	GTPases in bacterial cell polarity and signalling. Current Opinion in Microbiology, 2011, 14, 726-733.	2.3	27
71	Temporal and spatial oscillations in bacteria. Nature Reviews Microbiology, 2011, 9, 565-577.	13.6	78
72	Close encounters: contactâ€dependent interactions in bacteria. Molecular Microbiology, 2011, 81, 297-301.	1.2	50

#	Article	IF	Citations
73	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
74	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
75	Comparative Genomic Analysis of Fruiting Body Formation in Myxococcales. Molecular Biology and Evolution, 2011, 28, 1083-1097.	3.5	111
76	Extracellular biology of<i>Myxococcus xanthus</i>. FEMS Microbiology Reviews, 2010, 34, 89-106.	3.9	146
77	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
78	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
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	High-Force Generation Is a Conserved Property of Type IV Pilus Systems. Journal of Bacteriology, 2009, 191, 4633-4638.	1.0	116
81	Regulation of the type IV pili molecular machine by dynamic localization of two motor proteins. Molecular Microbiology, 2009, 74, 691-706.	1.2	143
82	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
83	Programmed Cell Death: Role for MazF and MrpC in Myxococcus Multicellular Development. Current Biology, 2008, 18, R337-R339.	1.8	12
84	Reversing cells and oscillating motility proteins. Molecular BioSystems, 2008, 4, 1009.	2.9	23
85	Growth and developmentâ€"prokaryotes. Current Opinion in Microbiology, 2008, 11, 532-534.	2.3	2
86	Regulated Secretion of a Protease Activates Intercellular Signaling during Fruiting Body Formation in M. xanthus. Developmental Cell, 2008, 15, 627-634.	3.1	51
87	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
88	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
89	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
90	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

#	Article	IF	Citations
91	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
92	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
93	Identification of small Hfq-binding RNAs in Listeria monocytogenes. Rna, 2006, 12, 1383-1396.	1.6	150
94	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
95	Making waves: pattern formation by a cell-surface-associated signal. Trends in Microbiology, 2005, 13, 249-252.	3.5	20
96	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
97	The RNA-Binding Protein Hfq of Listeria monocytogenes: Role in Stress Tolerance and Virulence. Journal of Bacteriology, 2004, 186, 3355-3362.	1.0	232
98	Cell polarity, intercellular signalling and morphogenetic cell movements in Myxococcus xanthus. Current Opinion in Microbiology, 2004, 7, 587-593.	2.3	44
99	Coupling gene expression and multicellular morphogenesis during fruiting body formation in Myxococcus xanthus. Molecular Microbiology, 2003, 48, 1-8.	1.2	66
100	Cell behavior and cellâ€“cell communication during fruiting body morphogenesis in Myxococcus xanthus. Journal of Microbiological Methods, 2003, 55, 829-839.	0.7	41
101	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
102	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
103	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
104	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
105	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
106	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
107	Pattern formation: fruiting body morphogenesis in Myxococcus xanthus. Current Opinion in Microbiology, 2000, 3, 637-642.	2.3	59
108	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

#	Article	IF	Citations
109	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
110	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
111	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
112	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
113	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
114	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
115	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
116	Contact-Dependent Signaling in Myxococcus xanthus: the Function of the C-Signal in Fruiting Body Morphogenesis. , 0, , 77-91.		7