

# Daisuke Shiomi

## List of Publications by Year in descending order

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Version: 2024-02-01

36  
papers

1,358  
citations

430874

18  
h-index

395702

33  
g-index

40  
all docs

40  
docs citations

40  
times ranked

1207  
citing authors

#	ARTICLE	IF	CITATIONS
1	Determination of bacterial rod shape by a novel cytoskeletal membrane protein. <i>EMBO Journal</i> , 2008, 27, 3081-3091.	7.8	150
2	Rapid, precise quantification of bacterial cellular dimensions across a genomic-scale knockout library. <i>BMC Biology</i> , 2017, 15, 17.	3.8	123
3	The ftsA* gain-of-function allele of <i>Escherichia coli</i> and its effects on the stability and dynamics of the Z ring. <i>Microbiology (United Kingdom)</i> , 2007, 153, 814-825.	1.8	105
4	Helical distribution of the bacterial chemoreceptor via colocalization with the Sec protein translocation machinery. <i>Molecular Microbiology</i> , 2006, 60, 894-906.	2.5	99
5	Identification of <i>Escherichia coli</i> ZapC (YcbW) as a Component of the Division Apparatus That Binds and Bundles FtsZ Polymers. <i>Journal of Bacteriology</i> , 2011, 193, 1393-1404.	2.2	97
6	An altered FtsA can compensate for the loss of essential cell division protein FtsN in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2007, 64, 1289-1305.	2.5	81
7	Dimerization or oligomerization of the actin-like FtsA protein enhances the integrity of the cytokinetic Z ring. <i>Molecular Microbiology</i> , 2007, 66, 1396-1415.	2.5	70
8	Dual Recognition of the Bacterial Chemoreceptor by Chemotaxis-specific Domains of the CheR Methyltransferase. <i>Journal of Biological Chemistry</i> , 2002, 277, 42325-42333.	3.4	66
9	Mutations in cell elongation genes <i>mreB</i> , <i>mrdA</i> and <i>mrdB</i> suppress the shape defect of <i>RodZ</i> -deficient cells. <i>Molecular Microbiology</i> , 2013, 87, 1029-1044.	2.5	64
10	Exclusion of assembled <i>MreB</i> by anionic phospholipids at cell poles confers cell polarity for bidirectional growth. <i>Molecular Microbiology</i> , 2017, 104, 472-486.	2.5	60
11	The C-Terminal Domain of MinC Inhibits Assembly of the Z Ring in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2007, 189, 236-243.	2.2	53
12	Visualization of bacteriophage P1 infection by cryo-electron tomography of tiny <i>Escherichia coli</i> . <i>Virology</i> , 2011, 417, 304-311.	2.4	53
13	Attractant binding alters arrangement of chemoreceptor dimers within its cluster at a cell pole. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 3462-3467.	7.1	51
14	Targeting of the chemotaxis methylesterase/deamidase CheB to the polar receptor-kinase cluster in an <i>Escherichia coli</i> cell. <i>Molecular Microbiology</i> , 2004, 53, 1051-1063.	2.5	35
15	Relation between rotation of MreB actin and cell width of <i>Escherichia coli</i> . <i>Genes To Cells</i> , 2019, 24, 259-265.	1.2	35
16	Stabilization of Polar Localization of a Chemoreceptor via Its Covalent Modifications and Its Communication with a Different Chemoreceptor. <i>Journal of Bacteriology</i> , 2005, 187, 7647-7654.	2.2	33
17	Compensation for the loss of the conserved membrane targeting sequence of FtsA provides new insights into its function. <i>Molecular Microbiology</i> , 2008, 67, 558-569.	2.5	31
18	The aspartate chemoreceptor Tar is effectively methylated by binding to the methyltransferase mainly through hydrophobic interaction. <i>Molecular Microbiology</i> , 2000, 36, 132-140.	2.5	21

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19	Simultaneous measurement of sensor-protein dynamics and motility of a single cell by on-chip microcultivation system. <i>Journal of Nanobiotechnology</i> , 2004, 2, 4.	9.1	19
20	Division site localization of RodZ is required for efficient Z ring formation in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2019, 111, 1229-1244.	2.5	15
21	Direct Observation of Conversion From Walled Cells to Wall-Deficient L-Form and Vice Versa in <i>Escherichia coli</i> Indicates the Essentiality of the Outer Membrane for Proliferation of L-Form Cells. <i>Frontiers in Microbiology</i> , 2021, 12, 645965.	3.5	13
22	RodZ: a key-player in cell elongation and cell division in <i>Escherichia coli</i> . <i>AIMS Microbiology</i> , 2019, 5, 358-367.	2.2	13
23	A mutation in the promoter region of <i>zipA</i> , a component of the divisome, suppresses the shape defect of <i>RodZ</i> -deficient cells. <i>MicrobiologyOpen</i> , 2013, 2, 798-810.	3.0	12
24	A Sweet Sensor for Size-Conscious Bacteria. <i>Cell</i> , 2007, 130, 216-218.	28.9	10
25	The periplasmic disordered domain of RodZ promotes its self-interaction in <i>Escherichia coli</i> . <i>Genes To Cells</i> , 2018, 23, 307-317.	1.2	9
26	Genetic mechanism regulating bacterial cell shape and metabolism. <i>Communicative and Integrative Biology</i> , 2009, 2, 219-220.	1.4	7
27	Alteration of Membrane Fluidity or Phospholipid Composition Perturbs Rotation of MreB Complexes in <i>Escherichia coli</i> . <i>Frontiers in Molecular Biosciences</i> , 2020, 7, 582660.	3.5	7
28	A mutation of <i>ispA</i> that is involved in isoprenoid biogenesis can improve growth of <i>Escherichia coli</i> at low temperatures. <i>Microbiology and Immunology</i> , 2011, 55, 885-888.	1.4	6
29	ARC6-mediated Z ring-like structure formation of prokaryote-descended chloroplast FtsZ in <i>Escherichia coli</i> . <i>Scientific Reports</i> , 2017, 7, 3492.	3.3	6
30	Intragenic suppressors of a mutation in the aspartate chemoreceptor gene that abolishes binding of the receptor to methyltransferase. <i>Microbiology (United Kingdom)</i> , 2002, 148, 3265-3275.	1.8	4
31	Polar localization of MreB actin is inhibited by anionic phospholipids in the rod-shaped bacterium <i>Escherichia coli</i> . <i>Current Genetics</i> , 2017, 63, 845-848.	1.7	3
32	Bacterial Heterologous Expression System for Reconstitution of Chloroplast Inner Division Ring and Evaluation of Its Contributors. <i>International Journal of Molecular Sciences</i> , 2018, 19, 544.	4.1	3
33	2P547 Single cell based analysis on the polarity of <i>Escherichia coli</i> cells(52. Bio-imaging,Poster) Tj ETQq1 1 0.784314 rgBT /Ovlock 10	0.1	0
34	OB-I-3Regulation of bacterial cell shape revealed by single cell observations. <i>Microscopy (Oxford)</i> Tj ETQq0 0 0 rgBT /Ovlock 10 Tf 50	1.5	0
35	Mechanisms Underlying Subcellular Localization of the Bacterial Transmembrane Chemoreceptor. <i>Seibutsu Butsuri</i> , 2008, 48, 030-034.	0.1	0
36	Regulations of Subcellular Localization and Functions of MreB Actin in <i>Escherichia coli</i> . <i>Seibutsu Butsuri</i> , 2019, 59, 100-102.	0.1	0