

Hironori Niki

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

109
papers

5,644
citations

38
h-index

73
g-index

115
ext. papers

6,275
ext. citations

6.3
avg, IF

5.32
L-index

#	Paper	IF	Citations
109	Internal microbial zonation during the massive growth of marimo, a lake ball of in Lake Akan. <i>IScience</i> , 2021 , 24, 102720	6.1	0
108	DNA replication machinery prevents Rad52-dependent single-strand annealing that leads to gross chromosomal rearrangements at centromeres. <i>Communications Biology</i> , 2020 , 3, 202	6.7	4
107	Batch-Learning Self-Organizing Map Identifies Horizontal Gene Transfer Candidates and Their Origins in Entire Genomes. <i>Frontiers in Microbiology</i> , 2020 , 11, 1486	5.7	3
106	In Vivo and In Vitro Assay for Monitoring the Topological Loading of Bacterial Condensins on DNA. <i>Methods in Molecular Biology</i> , 2019 , 2004, 181-196	1.4	
105	Asymmetric diversification of mating pheromones in fission yeast. <i>PLoS Biology</i> , 2019 , 17, e3000101	9.7	8
104	Division-site localization of RodZ is required for efficient Z ring formation in Escherichia coli. <i>Molecular Microbiology</i> , 2019 , 111, 1229-1244	4.1	6
103	Exonuclease III (XthA) Enforces DNA Cloning of Escherichia coli To Create Cohesive Ends. <i>Journal of Bacteriology</i> , 2019 , 201,	3.5	27
102	The periplasmic disordered domain of RodZ promotes its self-interaction in Escherichia coli. <i>Genes To Cells</i> , 2018 , 23, 307-317	2.3	8
101	The Ras1-Cdc42 pathway is involved in hyphal development of Schizosaccharomyces japonicus. <i>FEMS Yeast Research</i> , 2018 , 18,	3.1	7
100	Exclusion of assembled MreB by anionic phospholipids at cell poles confers cell polarity for bidirectional growth. <i>Molecular Microbiology</i> , 2017 , 104, 472-486	4.1	27
99	Open and Closed Questions about Open and Closed SMC. <i>Structure</i> , 2017 , 25, 569-570	5.2	2
98	Release of condensin from mitotic chromosomes requires the Ran-GTP gradient in the reorganized nucleus. <i>Biology Open</i> , 2017 , 6, 1614-1628	2.2	1
97	Multiple cis-Acting rDNAs Contribute to Nucleoid Separation and Recruit the Bacterial Condensin Smc-ScpAB. <i>Cell Reports</i> , 2017 , 21, 1347-1360	10.6	6
96	: A Distinct Dimorphic Yeast among the Fission Yeasts. <i>Cold Spring Harbor Protocols</i> , 2017 , 2017, pdb.top082651	0.8	51
95	The Mechanism of Regulation of Pantothenate Biosynthesis by the PanD-PanZ/AcCoA Complex Reveals an Additional Mode of Action for the Antimetabolite N-Pentyl Pantothenamide (N5-Pan). <i>Biochemistry</i> , 2017 , 56, 4931-4939	3.2	12
94	Transformation of. <i>Cold Spring Harbor Protocols</i> , 2017 , 2017, pdb.prot091850	1.2	4
93	Mating response and construction of heterothallic strains of the fission yeast Schizosaccharomyces octosporus. <i>FEMS Yeast Research</i> , 2017 , 17,	3.1	8

92	Rapid, precise quantification of bacterial cellular dimensions across a genomic-scale knockout library. <i>BMC Biology</i> , 2017 , 15, 17	7.3	81
91	Mating, Spore Dissection, and Selection of Diploid Cells in. <i>Cold Spring Harbor Protocols</i> , 2017 , 2017, pdb.prot091843		
90	Induction of Hyphal Growth in. <i>Cold Spring Harbor Protocols</i> , 2017 , 2017, pdb.prot091868	1.2	2
89	In vitro topological loading of bacterial condensin MukB on DNA, preferentially single-stranded DNA rather than double-stranded DNA. <i>Scientific Reports</i> , 2016 , 6, 29469	4.9	20
88	Genome sequence and overview of Shr3 in the eighth class of the phylum. <i>Standards in Genomic Sciences</i> , 2016 , 11, 90		6
87	Growth and sporulation defects in <i>Bacillus subtilis</i> mutants with a single <i>rrn</i> operon can be suppressed by amplification of the <i>rrn</i> operon. <i>Microbiology (United Kingdom)</i> , 2016 , 162, 35-45	2.9	4
86	Complete Genome Sequence of <i>Aurantimicrobium minutum</i> Type Strain KNCT, a Planktonic Ultramicrobacterium Isolated from River Water. <i>Genome Announcements</i> , 2016 , 4,		13
85	The structure of the PanD/PanZ protein complex reveals negative feedback regulation of pantothenate biosynthesis by coenzyme A. <i>Chemistry and Biology</i> , 2015 , 22, 492-503		21
84	<i>Aurantimicrobium minutum</i> gen. nov., sp. nov., a novel ultramicrobacterium of the family Microbacteriaceae, isolated from river water. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2015 , 65, 4072-4079	2.2	18
83	<i>Schizosaccharomyces japonicus</i> : the fission yeast is a fusion of yeast and hyphae. <i>Yeast</i> , 2014 , 31, 83-90	3.4	20
82	Mutations in cell elongation genes <i>mreB</i> , <i>mrda</i> and <i>mrdb</i> suppress the shape defect of RodZ-deficient cells. <i>Molecular Microbiology</i> , 2013 , 87, 1029-44	4.1	49
81	RecA protein recruits structural maintenance of chromosomes (SMC)-like RecN protein to DNA double-strand breaks. <i>Journal of Biological Chemistry</i> , 2013 , 288, 29229-37	5.4	28
80	Multiple rRNA operons are essential for efficient cell growth and sporulation as well as outgrowth in <i>Bacillus subtilis</i> . <i>Microbiology (United Kingdom)</i> , 2013 , 159, 2225-2236	2.9	39
79	Synchronous activation of cell division by light or temperature stimuli in the dimorphic yeast <i>Schizosaccharomyces japonicus</i> . <i>Eukaryotic Cell</i> , 2013 , 12, 1235-43		19
78	A mutation in the promoter region of <i>zipA</i> , a component of the divisome, suppresses the shape defect of RodZ-deficient cells. <i>MicrobiologyOpen</i> , 2013 , 2, 798-810	3.4	8
77	Regulation of nuclear envelope dynamics via APC/C is necessary for the progression of semi-open mitosis in <i>Schizosaccharomyces japonicus</i> . <i>Genes To Cells</i> , 2013 , 18, 733-52	2.3	9
76	Microflorae of aquatic moss pillars in a freshwater lake, East Antarctica, based on fatty acid and 16S rRNA gene analyses. <i>Polar Biology</i> , 2012 , 35, 425-433	2	32
75	Genome-wide identification and characterization of replication origins by deep sequencing. <i>Genome Biology</i> , 2012 , 13, R27	18.3	73

74	Hyphal differentiation induced via a DNA damage checkpoint-dependent pathway engaged in crosstalk with nutrient stress signaling in <i>Schizosaccharomyces japonicus</i> . <i>Current Genetics</i> , 2012 , 58, 291-303	2.9	7
73	An activator for pyruvoyl-dependent L-aspartate β -decarboxylase is conserved in a small group of the β -proteobacteria including <i>Escherichia coli</i> . <i>MicrobiologyOpen</i> , 2012 , 1, 298-310	3.4	30
72	Formation of a heterooctameric complex between aspartate β -decarboxylase and its cognate activating factor, PanZ, is CoA-dependent. <i>Biochemical and Biophysical Research Communications</i> , 2012 , 426, 350-5	3.4	6
71	Diversity of RuBisCO gene responsible for CO ₂ fixation in an Antarctic moss pillar. <i>Polar Biology</i> , 2012 , 35, 1641-1650	2	8
70	Eukaryotic phylotypes in aquatic moss pillars inhabiting a freshwater lake in East Antarctica, based on 18S rRNA gene analysis. <i>Polar Biology</i> , 2012 , 35, 1495-1504	2	24
69	Construction of an insertion marker collection of <i>Sz. japonicus</i> (IMACS) for genetic mapping and a fosmid library covering its genome. <i>Yeast</i> , 2012 , 29, 241-9	3.4	6
68	Unbalanced Charge Distribution as a Determinant for Dependence of a Subset of <i>Escherichia coli</i> Membrane Proteins on the Membrane Insertase YidC. <i>MBio</i> , 2012 , 3,	7.8	1
67	Direct PCR amplification of the 16S rRNA gene from single microbial cells isolated from an Antarctic iceberg using laser microdissection microscopy. <i>Polar Science</i> , 2011 , 5, 375-382	2.3	5
66	Comparative functional genomics of the fission yeasts. <i>Science</i> , 2011 , 332, 930-6	33.3	364
65	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, 885-8	2.7	5
64	Breakage of the nuclear envelope by an extending mitotic nucleus occurs during anaphase in <i>Schizosaccharomyces japonicus</i> . <i>Genes To Cells</i> , 2011 , 16, 911-26	2.3	55
63	Visualization of bacteriophage P1 infection by cryo-electron tomography of tiny <i>Escherichia coli</i> . <i>Virology</i> , 2011 , 417, 304-11	3.6	43
62	Structural basis for the DNA-binding activity of the bacterial β -propeller protein YncE. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2011 , 67, 1045-53		8
61	Construction of diploid zygotes by interallelic complementation of <i>ade6</i> in <i>Schizosaccharomyces japonicus</i> . <i>Yeast</i> , 2011 , 28, 747-54	3.4	4
60	Unbalanced charge distribution as a determinant for dependence of a subset of <i>Escherichia coli</i> membrane proteins on the membrane insertase YidC. <i>MBio</i> , 2011 , 2,	7.8	20
59	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, 1393-404	3.5	84
58	Partitioning of P1 plasmids by gradual distribution of the ATPase ParA. <i>Molecular Microbiology</i> , 2010 , 78, 1182-98	4.1	45
57	The DNA damage checkpoint regulates a transition between yeast and hyphal growth in <i>Schizosaccharomyces japonicus</i> . <i>Molecular and Cellular Biology</i> , 2010 , 30, 2909-17	4.8	27

56	NBRP databases: databases of biological resources in Japan. <i>Nucleic Acids Research</i> , 2010 , 38, D26-32	20.1	37
55	DDK phosphorylates checkpoint clamp component Rad9 and promotes its release from damaged chromatin. <i>Molecular Cell</i> , 2010 , 40, 606-18	17.6	30
54	Novel episomal vectors and a highly efficient transformation procedure for the fission yeast <i>Schizosaccharomyces japonicus</i> . <i>Yeast</i> , 2010 , 27, 1049-60	3.4	30
53	Replication initiator DnaA of <i>Escherichia coli</i> changes its assembly form on the replication origin during the cell cycle. <i>Journal of Bacteriology</i> , 2009 , 191, 4807-14	3.5	19
52	Genetic mechanism regulating bacterial cell shape and metabolism. <i>Communicative and Integrative Biology</i> , 2009 , 2, 219-20	1.7	4
51	A genome-scale proteomic screen identifies a role for DnaK in chaperoning of polar autotransporters in <i>Shigella</i> . <i>Journal of Bacteriology</i> , 2009 , 191, 6300-11	3.5	23
50	Isolation of heterothallic haploid and auxotrophic mutants of <i>Schizosaccharomyces japonicus</i> . <i>Yeast</i> , 2009 , 26, 221-33	3.4	41
49	Determination of bacterial rod shape by a novel cytoskeletal membrane protein. <i>EMBO Journal</i> , 2008 , 27, 3081-91	13	123
48	Profiling of <i>Escherichia coli</i> Chromosome database. <i>Methods in Molecular Biology</i> , 2008 , 416, 385-9	1.4	38
47	<i>Escherichia coli</i> with a linear genome. <i>EMBO Reports</i> , 2007 , 8, 181-7	6.5	55
46	The trans-envelope Tol-Pal complex is part of the cell division machinery and required for proper outer-membrane invagination during cell constriction in <i>E. coli</i> . <i>Molecular Microbiology</i> , 2007 , 63, 1008-25	4.1	273
45	Oscillating focus of SopA associated with filamentous structure guides partitioning of F plasmid. <i>Molecular Microbiology</i> , 2007 , 64, 1198-213	4.1	92
44	migS, a cis-acting site that affects bipolar positioning of oriC on the <i>Escherichia coli</i> chromosome. <i>EMBO Journal</i> , 2004 , 23, 221-33	13	83
43	Multiplication of a restriction-modification gene complex. <i>Molecular Microbiology</i> , 2003 , 48, 417-27	4.1	26
42	Amplification of Hot DNA segments in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2002 , 45, 1575-88	4.1	10
41	Bidirectional migration of SeqA-bound hemimethylated DNA clusters and pairing of oriC copies in <i>Escherichia coli</i> . <i>Genes To Cells</i> , 2000 , 5, 327-41	2.3	105
40	Active segregation by the <i>Bacillus subtilis</i> partitioning system in <i>Escherichia coli</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 14656-61	11.5	130
39	Null mutation of the dam or seqA gene suppresses temperature-sensitive lethality but not hypersensitivity to novobiocin of muk null mutants. <i>Journal of Bacteriology</i> , 2000 , 182, 5898-901	3.5	22

38	Dynamic organization of chromosomal DNA in Escherichia coli. <i>Genes and Development</i> , 2000 , 14, 212-223	2.6	199
37	The assembly and migration of SeqA-Gfp fusion in living cells of Escherichia coli. <i>Molecular Microbiology</i> , 1999 , 31, 1775-82	4.1	92
36	Subcellular localization of plasmids containing the oriC region of the Escherichia coli chromosome, with or without the sopABC partitioning system. <i>Molecular Microbiology</i> , 1999 , 34, 498-503	4.1	51
35	Complex formation of MukB, MukE and MukF proteins involved in chromosome partitioning in Escherichia coli. <i>EMBO Journal</i> , 1999 , 18, 5873-84	13	109
34	Autoregulation of the partition genes of the mini-F plasmid and the intracellular localization of their products in Escherichia coli. <i>Molecular Genetics and Genomics</i> , 1998 , 257, 392-403		58
33	Cell cycle-dependent duplication and bidirectional migration of SeqA-associated DNA-protein complexes in E. coli. <i>Molecular Cell</i> , 1998 , 1, 381-7	17.6	177
32	Polar localization of the replication origin and terminus in Escherichia coli nucleoids during chromosome partitioning. <i>Genes and Development</i> , 1998 , 12, 1036-45	12.6	170
31	Subcellular distribution of actively partitioning F plasmid during the cell division cycle in E. coli. <i>Cell</i> , 1997 , 90, 951-7	56.2	180
30	RNase E polypeptides lacking a carboxyl-terminal half suppress a mukB mutation in Escherichia coli. <i>Journal of Bacteriology</i> , 1996 , 178, 3917-25	3.5	129
29	Carboxyl terminal region of the MukB protein in Escherichia coli is essential for DNA binding activity. <i>FEMS Microbiology Letters</i> , 1996 , 143, 211-6	2.9	16
28	Identification of the cpdA gene encoding cyclic 3',5'-adenosine monophosphate phosphodiesterase in Escherichia coli. <i>Journal of Biological Chemistry</i> , 1996 , 271, 25423-9	5.4	83
27	Identification of two new genes,. <i>Molecular Genetics and Genomics</i> , 1996 , 250, 241		12
26	Characterization of the smtA gene encoding an S-adenosylmethionine-dependent methyltransferase of Escherichia coli. <i>FEMS Microbiology Letters</i> , 1995 , 133, 59-63	2.9	14
25	New killing system controlled by two genes located immediately upstream of the mukB gene in Escherichia coli. <i>Molecular Genetics and Genomics</i> , 1994 , 243, 136-47		14
24	Multicopy suppressors, mssA and mssB, of an smbA mutation of Escherichia coli. <i>Molecular Genetics and Genomics</i> , 1994 , 243, 9-16		30
23	Characterization of translucent segments observed in an smbA mutant of Escherichia coli. <i>FEMS Microbiology Letters</i> , 1994 , 116, 61-6	2.9	
22	Two mutant alleles of mukB, a gene essential for chromosome partition in Escherichia coli. <i>FEMS Microbiology Letters</i> , 1994 , 123, 27-31	2.9	20
21	The Escherichia coli FtsH protein is a prokaryotic member of a protein family of putative ATPases involved in membrane functions, cell cycle control, and gene expression. <i>Journal of Bacteriology</i> , 1993 , 175, 1344-51	3.5	215

20	Topology and subcellular localization of FtsH protein in Escherichia coli. <i>Journal of Bacteriology</i> , 1993 , 175, 1352-7	3.5	161
19	Escherichia coli mutant Y16 is a double mutant carrying thermosensitive ftsH and ftsI mutations. <i>Journal of Bacteriology</i> , 1992 , 174, 2416-7	3.5	58
18	Characterization of high molecular weights of complexes and polymers of cytoplasmic proteins in Escherichia coli. <i>Research in Microbiology</i> , 1992 , 143, 743-53	4	11
17	Identification and characterization of the smbA gene, a suppressor of the mukB null mutant of Escherichia coli. <i>Journal of Bacteriology</i> , 1992 , 174, 7517-26	3.5	52
16	Mutants defective in chromosome partitioning in E. coli. <i>Research in Microbiology</i> , 1991 , 142, 189-94	4	39
15	Structure and function of the ftsH gene in Escherichia coli. <i>Research in Microbiology</i> , 1991 , 142, 279-82	4	84
14	Partitioning of a mini-F plasmid into anucleate cells of the mukB null mutant. <i>Journal of Bacteriology</i> , 1991 , 173, 6643-6	3.5	26
13	Linear multimer formation of plasmid DNA in Escherichia coli hopE (recD) mutants. <i>Molecular Genetics and Genomics</i> , 1990 , 224, 1-9		27
12	Maintenance of plasmids in HU and IHF mutants of Escherichia coli. <i>Molecular Genetics and Genomics</i> , 1990 , 220, 197-203		29
11	Identification and characterization of gyrB mutants of Escherichia coli that are defective in partitioning of mini-F plasmids. <i>Journal of Bacteriology</i> , 1990 , 172, 1562-8	3.5	25
10	Positioning of replicated chromosomes in Escherichia coli. <i>Journal of Bacteriology</i> , 1990 , 172, 31-9	3.5	63
9	Nucleotide sequence of the tolC gene of Escherichia coli. <i>Nucleic Acids Research</i> , 1990 , 18, 5547	20.1	23
8	New topoisomerase essential for chromosome segregation in E. coli. <i>Cell</i> , 1990 , 63, 393-404	56.2	502
7	Penicillin-binding protein 2 is essential in wild-type Escherichia coli but not in lov or cya mutants. <i>Journal of Bacteriology</i> , 1989 , 171, 3025-30	3.5	70
6	Molecular cloning of a human apolipoprotein E variant: E5 (Glu3----Lys3). <i>Journal of Biochemistry</i> , 1989 , 105, 491-3	3.1	15
5	Identification of human apolipoprotein E variant gene: apolipoprotein E7 (Glu244,245----Lys244,245). <i>Journal of Biochemistry</i> , 1989 , 105, 51-4	3.1	23
4	The complete cDNA sequence for the premature form of growth hormone of the flounder Paralichthys olivaceus. <i>Nucleic Acids Research</i> , 1989 , 17, 3977	20.1	1
3	Involvement of DnaK protein in mini-F plasmid replication: temperature-sensitive seg mutations are located in the dnaK gene. <i>Molecular Genetics and Genomics</i> , 1989 , 218, 183-9		43

- 2 Chromosome partitioning in Escherichia coli: novel mutants producing anucleate cells. *Journal of Bacteriology*, **1989**, 171, 1496-505 3·5 337
- 1 Chromosomal genes essential for stable maintenance of the mini-F plasmid in Escherichia coli. *Journal of Bacteriology*, **1988**, 170, 5272-8 3·5 30