

# Hironori Niki

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/4977030/hironori-niki-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	New topoisomerase essential for chromosome segregation in E. coli. <i>Cell</i> , <b>1990</b> , 63, 393-404	56.2	502
108	Comparative functional genomics of the fission yeasts. <i>Science</i> , <b>2011</b> , 332, 930-6	33.3	364
107	Chromosome partitioning in Escherichia coli: novel mutants producing anucleate cells. <i>Journal of Bacteriology</i> , <b>1989</b> , 171, 1496-505	3.5	337
106	The trans-envelope Tol-Pal complex is part of the cell division machinery and required for proper outer-membrane invagination during cell constriction in E. coli. <i>Molecular Microbiology</i> , <b>2007</b> , 63, 1008-25	4.1	273
105	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> , <b>1993</b> , 175, 1344-51	3.5	215
104	Dynamic organization of chromosomal DNA in Escherichia coli. <i>Genes and Development</i> , <b>2000</b> , 14, 212-223	32.6	199
103	Subcellular distribution of actively partitioning F plasmid during the cell division cycle in E. coli. <i>Cell</i> , <b>1997</b> , 90, 951-7	56.2	180
102	Cell cycle-dependent duplication and bidirectional migration of SeqA-associated DNA-protein complexes in E. coli. <i>Molecular Cell</i> , <b>1998</b> , 1, 381-7	17.6	177
101	Polar localization of the replication origin and terminus in Escherichia coli nucleoids during chromosome partitioning. <i>Genes and Development</i> , <b>1998</b> , 12, 1036-45	12.6	170
100	Topology and subcellular localization of FtsH protein in Escherichia coli. <i>Journal of Bacteriology</i> , <b>1993</b> , 175, 1352-7	3.5	161
99	Active segregation by the Bacillus subtilis partitioning system in Escherichia coli. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2000</b> , 97, 14656-61	11.5	130
98	RNase E polypeptides lacking a carboxyl-terminal half suppress a mukB mutation in Escherichia coli. <i>Journal of Bacteriology</i> , <b>1996</b> , 178, 3917-25	3.5	129
97	Determination of bacterial rod shape by a novel cytoskeletal membrane protein. <i>EMBO Journal</i> , <b>2008</b> , 27, 3081-91	13	123
96	Complex formation of MukB, MukE and MukF proteins involved in chromosome partitioning in Escherichia coli. <i>EMBO Journal</i> , <b>1999</b> , 18, 5873-84	13	109
95	Bidirectional migration of SeqA-bound hemimethylated DNA clusters and pairing of oriC copies in Escherichia coli. <i>Genes To Cells</i> , <b>2000</b> , 5, 327-41	2.3	105
94	Oscillating focus of SopA associated with filamentous structure guides partitioning of F plasmid. <i>Molecular Microbiology</i> , <b>2007</b> , 64, 1198-213	4.1	92
93	The assembly and migration of SeqA-Gfp fusion in living cells of Escherichia coli. <i>Molecular Microbiology</i> , <b>1999</b> , 31, 1775-82	4.1	92

92	Identification of Escherichia coli ZapC (YcbW) as a component of the division apparatus that binds and bundles FtsZ polymers. <i>Journal of Bacteriology</i> , <b>2011</b> , 193, 1393-404	3.5	84
91	Structure and function of the ftsH gene in Escherichia coli. <i>Research in Microbiology</i> , <b>1991</b> , 142, 279-82	4	84
90	migS, a cis-acting site that affects bipolar positioning of oriC on the Escherichia coli chromosome. <i>EMBO Journal</i> , <b>2004</b> , 23, 221-33	13	83
89	Identification of the cpdA gene encoding cyclic 3',5'-adenosine monophosphate phosphodiesterase in Escherichia coli. <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 25423-9	5.4	83
88	Rapid, precise quantification of bacterial cellular dimensions across a genomic-scale knockout library. <i>BMC Biology</i> , <b>2017</b> , 15, 17	7.3	81
87	Genome-wide identification and characterization of replication origins by deep sequencing. <i>Genome Biology</i> , <b>2012</b> , 13, R27	18.3	73
86	Penicillin-binding protein 2 is essential in wild-type Escherichia coli but not in lov or cya mutants. <i>Journal of Bacteriology</i> , <b>1989</b> , 171, 3025-30	3.5	70
85	Positioning of replicated chromosomes in Escherichia coli. <i>Journal of Bacteriology</i> , <b>1990</b> , 172, 31-9	3.5	63
84	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> , <b>1998</b> , 257, 392-403		58
83	Escherichia coli mutant Y16 is a double mutant carrying thermosensitive ftsH and ftsI mutations. <i>Journal of Bacteriology</i> , <b>1992</b> , 174, 2416-7	3.5	58
82	Breakage of the nuclear envelope by an extending mitotic nucleus occurs during anaphase in Schizosaccharomyces japonicus. <i>Genes To Cells</i> , <b>2011</b> , 16, 911-26	2.3	55
81	Escherichia coli with a linear genome. <i>EMBO Reports</i> , <b>2007</b> , 8, 181-7	6.5	55
80	Identification and characterization of the smbA gene, a suppressor of the mukB null mutant of Escherichia coli. <i>Journal of Bacteriology</i> , <b>1992</b> , 174, 7517-26	3.5	52
79	Subcellular localization of plasmids containing the oriC region of the Escherichia coli chromosome, with or without the sopABC partitioning system. <i>Molecular Microbiology</i> , <b>1999</b> , 34, 498-503	4.1	51
78	Mutations in cell elongation genes mreB, mrdA and mrdB suppress the shape defect of RodZ-deficient cells. <i>Molecular Microbiology</i> , <b>2013</b> , 87, 1029-44	4.1	49
77	Partitioning of P1 plasmids by gradual distribution of the ATPase ParA. <i>Molecular Microbiology</i> , <b>2010</b> , 78, 1182-98	4.1	45
76	Visualization of bacteriophage P1 infection by cryo-electron tomography of tiny Escherichia coli. <i>Virology</i> , <b>2011</b> , 417, 304-11	3.6	43
75	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> , <b>1989</b> , 218, 183-9		43

74	Isolation of heterothallic haploid and auxotrophic mutants of <i>Schizosaccharomyces japonicus</i> . <i>Yeast</i> , <b>2009</b> , 26, 221-33	3.4	41
73	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> , <b>2013</b> , 159, 2225-2236	2.9	39
72	Mutants defective in chromosome partitioning in <i>E. coli</i> . <i>Research in Microbiology</i> , <b>1991</b> , 142, 189-94	4	39
71	Profiling of <i>Escherichia coli</i> Chromosome database. <i>Methods in Molecular Biology</i> , <b>2008</b> , 416, 385-9	1.4	38
70	NBRP databases: databases of biological resources in Japan. <i>Nucleic Acids Research</i> , <b>2010</b> , 38, D26-32	20.1	37
69	Microflorae of aquatic moss pillars in a freshwater lake, East Antarctica, based on fatty acid and 16S rRNA gene analyses. <i>Polar Biology</i> , <b>2012</b> , 35, 425-433	2	32
68	An activator for pyruvoyl-dependent l-aspartate $\beta$ -decarboxylase is conserved in a small group of the $\beta$ -proteobacteria including <i>Escherichia coli</i> . <i>MicrobiologyOpen</i> , <b>2012</b> , 1, 298-310	3.4	30
67	DDK phosphorylates checkpoint clamp component Rad9 and promotes its release from damaged chromatin. <i>Molecular Cell</i> , <b>2010</b> , 40, 606-18	17.6	30
66	Novel episomal vectors and a highly efficient transformation procedure for the fission yeast <i>Schizosaccharomyces japonicus</i> . <i>Yeast</i> , <b>2010</b> , 27, 1049-60	3.4	30
65	Multicopy suppressors, <i>mssA</i> and <i>mssB</i> , of an <i>smbA</i> mutation of <i>Escherichia coli</i> . <i>Molecular Genetics and Genomics</i> , <b>1994</b> , 243, 9-16		30
64	Chromosomal genes essential for stable maintenance of the mini-F plasmid in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , <b>1988</b> , 170, 5272-8	3.5	30
63	Maintenance of plasmids in HU and IHF mutants of <i>Escherichia coli</i> . <i>Molecular Genetics and Genomics</i> , <b>1990</b> , 220, 197-203		29
62	RecA protein recruits structural maintenance of chromosomes (SMC)-like RecN protein to DNA double-strand breaks. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 29229-37	5.4	28
61	Exclusion of assembled MreB by anionic phospholipids at cell poles confers cell polarity for bidirectional growth. <i>Molecular Microbiology</i> , <b>2017</b> , 104, 472-486	4.1	27
60	The DNA damage checkpoint regulates a transition between yeast and hyphal growth in <i>Schizosaccharomyces japonicus</i> . <i>Molecular and Cellular Biology</i> , <b>2010</b> , 30, 2909-17	4.8	27
59	Linear multimer formation of plasmid DNA in <i>Escherichia coli</i> hopE ( <i>recD</i> ) mutants. <i>Molecular Genetics and Genomics</i> , <b>1990</b> , 224, 1-9		27
58	Exonuclease III (XthA) Enforces DNA Cloning of <i>Escherichia coli</i> To Create Cohesive Ends. <i>Journal of Bacteriology</i> , <b>2019</b> , 201,	3.5	27
57	Multiplication of a restriction-modification gene complex. <i>Molecular Microbiology</i> , <b>2003</b> , 48, 417-27	4.1	26

56	Partitioning of a mini-F plasmid into anucleate cells of the mukB null mutant. <i>Journal of Bacteriology</i> , <b>1991</b> , 173, 6643-6	3.5	26
55	Identification and characterization of gyrB mutants of Escherichia coli that are defective in partitioning of mini-F plasmids. <i>Journal of Bacteriology</i> , <b>1990</b> , 172, 1562-8	3.5	25
54	Eukaryotic phylotypes in aquatic moss pillars inhabiting a freshwater lake in East Antarctica, based on 18S rRNA gene analysis. <i>Polar Biology</i> , <b>2012</b> , 35, 1495-1504	2	24
53	A genome-scale proteomic screen identifies a role for DnaK in chaperoning of polar autotransporters in Shigella. <i>Journal of Bacteriology</i> , <b>2009</b> , 191, 6300-11	3.5	23
52	Identification of human apolipoprotein E variant gene: apolipoprotein E7 (Glu244,245----Lys244,245). <i>Journal of Biochemistry</i> , <b>1989</b> , 105, 51-4	3.1	23
51	Nucleotide sequence of the tolC gene of Escherichia coli. <i>Nucleic Acids Research</i> , <b>1990</b> , 18, 5547	20.1	23
50	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> , <b>2000</b> , 182, 5898-901	3.5	22
49	The structure of the PanD/PanZ protein complex reveals negative feedback regulation of pantothenate biosynthesis by coenzyme A. <i>Chemistry and Biology</i> , <b>2015</b> , 22, 492-503		21
48	In vitro topological loading of bacterial condensin MukB on DNA, preferentially single-stranded DNA rather than double-stranded DNA. <i>Scientific Reports</i> , <b>2016</b> , 6, 29469	4.9	20
47	Schizosaccharomyces japonicus: the fission yeast is a fusion of yeast and hyphae. <i>Yeast</i> , <b>2014</b> , 31, 83-90	3.4	20
46	Unbalanced charge distribution as a determinant for dependence of a subset of Escherichia coli membrane proteins on the membrane insertase YidC. <i>MBio</i> , <b>2011</b> , 2,	7.8	20
45	Two mutant alleles of mukB, a gene essential for chromosome partition in Escherichia coli. <i>FEMS Microbiology Letters</i> , <b>1994</b> , 123, 27-31	2.9	20
44	Synchronous activation of cell division by light or temperature stimuli in the dimorphic yeast Schizosaccharomyces japonicus. <i>Eukaryotic Cell</i> , <b>2013</b> , 12, 1235-43		19
43	Replication initiator DnaA of Escherichia coli changes its assembly form on the replication origin during the cell cycle. <i>Journal of Bacteriology</i> , <b>2009</b> , 191, 4807-14	3.5	19
42	Aurantimicrobium minutum gen. nov., sp. nov., a novel ultramicrobacterium of the family Microbacteriaceae, isolated from river water. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2015</b> , 65, 4072-4079	2.2	18
41	Carboxyl terminal region of the MukB protein in Escherichia coli is essential for DNA binding activity. <i>FEMS Microbiology Letters</i> , <b>1996</b> , 143, 211-6	2.9	16
40	Molecular cloning of a human apolipoprotein E variant: E5 (Glu3----Lys3). <i>Journal of Biochemistry</i> , <b>1989</b> , 105, 491-3	3.1	15
39	Characterization of the smtA gene encoding an S-adenosylmethionine-dependent methyltransferase of Escherichia coli. <i>FEMS Microbiology Letters</i> , <b>1995</b> , 133, 59-63	2.9	14

38	New killing system controlled by two genes located immediately upstream of the mukB gene in <i>Escherichia coli</i> . <i>Molecular Genetics and Genomics</i> , <b>1994</b> , 243, 136-47		14
37	Complete Genome Sequence of <i>Aurantimicrobium minutum</i> Type Strain KNCT, a Planktonic Ultramicrobacterium Isolated from River Water. <i>Genome Announcements</i> , <b>2016</b> , 4,		13
36	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> , <b>2017</b> , 56, 4931-4939	3.2	12
35	Identification of two new genes,. <i>Molecular Genetics and Genomics</i> , <b>1996</b> , 250, 241		12
34	Characterization of high molecular weights of complexes and polymers of cytoplasmic proteins in <i>Escherichia coli</i> . <i>Research in Microbiology</i> , <b>1992</b> , 143, 743-53	4	11
33	Amplification of Hot DNA segments in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , <b>2002</b> , 45, 1575-88	4.1	10
32	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> , <b>2013</b> , 18, 733-52	2.3	9
31	Asymmetric diversification of mating pheromones in fission yeast. <i>PLoS Biology</i> , <b>2019</b> , 17, e3000101	9.7	8
30	The periplasmic disordered domain of RodZ promotes its self-interaction in <i>Escherichia coli</i> . <i>Genes To Cells</i> , <b>2018</b> , 23, 307-317	2.3	8
29	Mating response and construction of heterothallic strains of the fission yeast <i>Schizosaccharomyces octosporus</i> . <i>FEMS Yeast Research</i> , <b>2017</b> , 17,	3.1	8
28	Diversity of RuBisCO gene responsible for CO <sub>2</sub> fixation in an Antarctic moss pillar. <i>Polar Biology</i> , <b>2012</b> , 35, 1641-1650	2	8
27	A mutation in the promoter region of zipA, a component of the divisome, suppresses the shape defect of RodZ-deficient cells. <i>MicrobiologyOpen</i> , <b>2013</b> , 2, 798-810	3.4	8
26	Structural basis for the DNA-binding activity of the bacterial $\epsilon$ propeller protein YncE. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2011</b> , 67, 1045-53		8
25	The Ras1-Cdc42 pathway is involved in hyphal development of <i>Schizosaccharomyces japonicus</i> . <i>FEMS Yeast Research</i> , <b>2018</b> , 18,	3.1	7
24	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> , <b>2012</b> , 58, 291-303	2.9	7
23	Multiple cis-Acting rDNAs Contribute to Nucleoid Separation and Recruit the Bacterial Condensin Smc-ScpAB. <i>Cell Reports</i> , <b>2017</b> , 21, 1347-1360	10.6	6
22	: A Distinct Dimorphic Yeast among the Fission Yeasts. <i>Cold Spring Harbor Protocols</i> , <b>2017</b> , 2017, pdb.top0826516		6
21	Genome sequence and overview of Shr3 in the eighth class of the phylum. <i>Standards in Genomic Sciences</i> , <b>2016</b> , 11, 90		6

20	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> , <b>2012</b> , 426, 350-5	3.4	6
19	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> , <b>2012</b> , 29, 241-9	3.4	6
18	Division-site localization of RodZ is required for efficient Z ring formation in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , <b>2019</b> , 111, 1229-1244	4.1	6
17	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> , <b>2011</b> , 5, 375-382	2.3	5
16	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> , <b>2011</b> , 55, 885-8	2.7	5
15	DNA replication machinery prevents Rad52-dependent single-strand annealing that leads to gross chromosomal rearrangements at centromeres. <i>Communications Biology</i> , <b>2020</b> , 3, 202	6.7	4
14	Transformation of. <i>Cold Spring Harbor Protocols</i> , <b>2017</b> , 2017, pdb.prot091850	1.2	4
13	Construction of diploid zygotes by interallelic complementation of <i>ade6</i> in <i>Schizosaccharomyces japonicus</i> . <i>Yeast</i> , <b>2011</b> , 28, 747-54	3.4	4
12	Genetic mechanism regulating bacterial cell shape and metabolism. <i>Communicative and Integrative Biology</i> , <b>2009</b> , 2, 219-20	1.7	4
11	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> , <b>2016</b> , 162, 35-45	2.9	4
10	Batch-Learning Self-Organizing Map Identifies Horizontal Gene Transfer Candidates and Their Origins in Entire Genomes. <i>Frontiers in Microbiology</i> , <b>2020</b> , 11, 1486	5.7	3
9	Open and Closed Questions about Open and Closed SMC. <i>Structure</i> , <b>2017</b> , 25, 569-570	5.2	2
8	Induction of Hyphal Growth in. <i>Cold Spring Harbor Protocols</i> , <b>2017</b> , 2017, pdb.prot091868	1.2	2
7	Release of condensin from mitotic chromosomes requires the Ran-GTP gradient in the reorganized nucleus. <i>Biology Open</i> , <b>2017</b> , 6, 1614-1628	2.2	1
6	Mating, Spore Dissection, and Selection of Diploid Cells in. <i>Cold Spring Harbor Protocols</i> , <b>2017</b> , 2017, pdb.prot091843	1.1	1
5	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> , <b>2012</b> , 3,	7.8	1
4	The complete cDNA sequence for the premature form of growth hormone of the flounder <i>Paralichthys olivaceus</i> . <i>Nucleic Acids Research</i> , <b>1989</b> , 17, 3977	20.1	1
3	Internal microbial zonation during the massive growth of marimo, a lake ball of in Lake Akan. <i>IScience</i> , <b>2021</b> , 24, 102720	6.1	0

- 2 In Vivo and In Vitro Assay for Monitoring the Topological Loading of Bacterial Condensins on DNA. *Methods in Molecular Biology*, **2019**, 2004, 181-196 1.4
- 1 Characterization of translucent segments observed in an smbA mutant of Escherichia coli. *FEMS Microbiology Letters*, **1994**, 116, 61-6 2.9