Masayori Inouye

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9331465/publications.pdf

Version: 2024-02-01

362 papers	25,487 citations	4388 86 h-index	10734 138 g-index
364 all docs	364 docs citations	364 times ranked	14106 citing authors

#	Article	IF	Citations
1	Protein production and purification. Nature Methods, 2008, 5, 135-146.	19.0	763
2	CspA, the Major Cold-shock Protein of Escherichia coli, Is an RNA Chaperone. Journal of Biological Chemistry, 1997, 272, 196-202.	3.4	570
3	Toxin-Antitoxin Systems in Bacteria and Archaea. Annual Review of Genetics, 2011, 45, 61-79.	7.6	557
4	MazF Cleaves Cellular mRNAs Specifically at ACA to Block Protein Synthesis in Escherichia coli. Molecular Cell, 2003, 12, 913-923.	9.7	511
5	Secretion and Membrane Localization of Proteins inEscherichia Coli. Critical Reviews in Biochemistry, 1980, 7, 339-371.	7.5	429
6	The cold-shock response ? a hot topic. Molecular Microbiology, 1994, 11, 811-818.	2.5	420
7	Pro-sequence of subtilisin can guide the refolding of denatured subtilisin in an intermolecular process. Nature, 1989, 339, 483-484.	27.8	400
8	A single amino acid determinant of the membrane localization of lipoproteins in E. coli. Cell, 1988, 53, 423-432.	28.9	349
9	Regulation of growth and death in Escherichia coli by toxinâ€“antitoxin systems. Nature Reviews Microbiology, 2011, 9, 779-790.	28.6	336
10	Cold-shock response and cold-shock proteins. Current Opinion in Microbiology, 1999, 2, 175-180.	5.1	330
11	Cold shock and adaptation. BioEssays, 1998, 20, 49-57.	2.5	326
12	The CspA family in Escherichia coli : multiple gene duplication for stress adaptation. Molecular Microbiology, 1998, 27, 247-255.	2.5	309
13	Cold-shock induced high-yield protein production in Escherichia coli. Nature Biotechnology, 2004, 22, 877-882.	17.5	307
14	A gene encoding a protein serine/threonine kinase is required for normal development of M. xanthus, a gram-negative bacterium. Cell, 1991, 67, 995-1006.	28.9	264
15	EnvZ-OmpR Interaction and Osmoregulation in Escherichia coli. Journal of Biological Chemistry, 2002, 277, 24155-24161.	3.4	253
16	NMR structure of the histidine kinase domain of the E. coli osmosensor EnvZ. Nature, 1998, 396, 88-92.	27.8	248
17	Suppression of the negative effect of minor arginine codons on gene expression; preferential usage of minor codons within the first 25 codons of theEscherichia coligenes. Nucleic Acids Research, 1990, 18, 1465-1473.	14.5	236
18	Antisense RNA: its functions and applications in gene regulation â€” a review. Gene, 1988, 72, 25-34.	2.2	235

#	Article	IF	Citations
19	The expression profile of microRNAs in mouse embryos. Nucleic Acids Research, 2006, 34, 1765-1771.	14.5	232
20	Solution structure of the homodimeric core domain of Escherichia coli histidine kinase EnvZ. Nature Structural Biology, 1999, 6, 729-734.	9.7	228
21	Histidine kinases: diversity of domain organization. Molecular Microbiology, 1999, 34, 633-640.	2.5	227
22	MazF, an mRNA Interferase, Mediates Programmed Cell Death during Multicellular Myxococcus Development. Cell, 2008, 132, 55-66.	28.9	226
23	The use of RNAs complementary to specific mRNAs to regulate the expression of individual bacterial genes. Cell, 1984, 37, 429-436.	28.9	219
24	DNA sequence of the gene for the outer membrane lipoprotein of E. coli: an extremely AT-rich promoter. Cell, 1979, 18, 1109-1117.	28.9	216
25	Acquirement of cold sensitivity by quadruple deletion of the cspA family and its suppression by PNPase S1 domain in Escherichia coli. Molecular Microbiology, 2001, 40, 179-188.	2.5	211
26	RbfA, a 30S ribosomal binding factor, is a cold-shock protein whose absence triggers the cold-shock response. Molecular Microbiology, 1996, 21, 1207-1218.	2.5	204
27	Insights into the mRNA Cleavage Mechanism by MazF, an mRNA Interferase. Journal of Biological Chemistry, 2005, 280, 3143-3150.	3.4	204
28	YeeU enhances the bundling of cytoskeletal polymers of MreB and FtsZ, antagonizing the CbtA (YeeV) toxicity in Escherichia coli. Molecular Microbiology, 2012, 84, 979-989.	2.5	204
29	Differential inhibitory effects of antibiotics on the biosynthesis of envelope proteins of Escherichia coli. Journal of Molecular Biology, 1973, 79, 373-389.	4.2	188
30	Genome-Wide Transcriptional Analysis of the Cold Shock Response in Wild-Type and Cold-Sensitive, Quadruple- csp -Deletion Strains of Escherichia coli. Journal of Bacteriology, 2004, 186, 7007-7014.	2.2	184
31	Signal transduction via the histidylâ€aspartyl phosphorelay. Genes To Cells, 1997, 2, 167-184.	1.2	172
32	Promoterâ€independent coldâ€shock induction of cspA and its derepression at 37Â°C by mRNA stabilization. Molecular Microbiology, 1997, 23, 355-364.	2.5	172
33	Translocation and assembly of outer membrane proteins of Escherichia coli Selective accumulation of precursors and novel assembly intermediates caused by phenethyl alcohol. Journal of Molecular Biology, 1979, 130, 39-61.	4.2	167
34	Overexpression of human glutathione peroxidase protects transgenic mice against focal cerebral ischemia/reperfusion damage. Molecular Brain Research, 1998, 53, 333-338.	2.3	166
35	Intramolecular chaperones and protein folding. Trends in Biochemical Sciences, 1993, 18, 442-446.	7.5	164
36	Pleiotropic Effect of the recA Gene of Escherichia coli: Uncoupling of Cell Division from Deoxyribonucleic Acid Replication. Journal of Bacteriology, 1971, 106, 539-542.	2.2	161

#	Article	IF	Citations
37	Gene expression during development of Myxococcus xanthus: Pattern of protein synthesis. Developmental Biology, 1979, 68, 579-591.	2.0	157
38	Family of the major cold-shock protein, CspA (CS7.4), of Escherichia coli, whose members show a high sequence similarity with the eukaryotic Y-box binding proteins. Molecular Microbiology, 1994, 11, 833-839.	2.5	152
39	MqsR, a Crucial Regulator for Quorum Sensing and Biofilm Formation, Is a GCU-specific mRNA Interferase in Escherichia coli. Journal of Biological Chemistry, 2009, 284, 28746-28753.	3.4	152
40	The crystal structure of an autoprocessed Ser221Cys-subtilisin E-propeptide complex at 2.0 Ã¥ resolution 1 1Edited by I. A. Wilson. Journal of Molecular Biology, 1998, 284, 137-144.	4.2	151
41	Role of CspC and CspE in Regulation of Expression of RpoS and UspA, the Stress Response Proteins in Escherichia coli. Journal of Bacteriology, 2001, 183, 1205-1214.	2.2	150
42	Deletion analysis of cspA of Escherichia coli: requirement of the ATâ€rich UP element for cspA transcription and the downstream box in the coding region for its cold shock induction. Molecular Microbiology, 1997, 26, 321-335.	2.5	147
43	Bacterial toxin YafQ is an endoribonuclease that associates with the ribosome and blocks translation elongation through sequenceâ€specific and frameâ€dependent mRNA cleavage. Molecular Microbiology, 2009, 71, 1071-1087.	2.5	142
44	The Nucleic Acid Melting Activity of Escherichia coliCspE Is Critical for Transcription Antitermination and Cold Acclimation of Cells. Journal of Biological Chemistry, 2002, 277, 7239-7245.	3.4	141
45	Single Protein Production in Living Cells Facilitated by an mRNA Interferase. Molecular Cell, 2005, 18, 253-261.	9.7	138
46	Superoxide Dismutase Expression Attenuates Cigarette Smokeâ€“ or Elastase-generated Emphysema in Mice. American Journal of Respiratory and Critical Care Medicine, 2006, 173, 623-631.	5.6	133
47	Transcription Regulation of ompF and ompC by a Single Transcription Factor, OmpR. Journal of Biological Chemistry, 2006, 281, 17114-17123.	3.4	133
48	Intramolecular chaperones: polypeptide extensions that modulate protein folding. Seminars in Cell and Developmental Biology, 2000, 11, 35-44.	5.0	129
49	Up-promoter mutations in thelppgene ofEscherichia coli. Nucleic Acids Research, 1985, 13, 3101-3110.	14.5	128
50	CspI, the Ninth Member of the CspA Family of Escherichia coli , Is Induced upon Cold Shock. Journal of Bacteriology, 1999, 181, 1603-1609.	2.2	128
51	Positive-negative KG cassettes for construction of multi-gene deletions using a single drug marker. Gene, 1996, 183, 153-157.	2.2	125
52	Gene structure of the OmpA protein, a major surface protein of Escherichia coli required for cell-cell interaction. Journal of Molecular Biology, 1980, 143, 317-328.	4.2	124
53	Sequenceâ€selective interactions with RNA by CspB, CspC and CspE, members of the CspA family of Escherichia coli. Molecular Microbiology, 1999, 33, 1004-1014.	2.5	124
54	Characterization of mRNA Interferases from Mycobacterium tuberculosis. Journal of Biological Chemistry, 2006, 281, 18638-18643.	3.4	124

#	Article	IF	Citations
55	A novel immune system against bacteriophage infection using complementary RNA (micRNA). Nature, 1985, 315, 601-603.	27.8	123
56	Environmentally Regulated Gene Expression for Membrane Proteins in Escherichia coli. Annual Review of Cell Biology, 1988, 4, 21-42.	26.1	123
57	Reverse transcriptase associated with the biosynthesis of the branched RNA-linked msDNA in Myxococcus xanthus. Cell, 1989, 56, 709-717.	28.9	122
58	Crystal Structure of Myxococcus xanthus Nucleoside Diphosphate Kinase and its Interaction with a Nucleotide Substrate at 2Â·0 Ã... Resolution. Journal of Molecular Biology, 1993, 234, 1230-1247.	4.2	122
59	NBK/BIK antagonizes MCL-1 and BCL-XL and activates BAK-mediated apoptosis in response to protein synthesis inhibition. Genes and Development, 2007, 21, 929-941.	5.9	122
60	Selective mRNA Degradation by Polynucleotide Phosphorylase in Cold Shock Adaptation in Escherichia coli. Journal of Bacteriology, 2001, 183, 2808-2816.	2.2	121
61	Tandem Binding of Six OmpR Proteins to the ompF Upstream Regulatory Sequence of Escherichia coli. Journal of Biological Chemistry, 1995, 270, 26849-26856.	3.4	120
62	YeeV is an Escherichia coli toxin that inhibits cell division by targeting the cytoskeleton proteins, FtsZ and MreB. Molecular Microbiology, 2011, 79, 109-118.	2.5	120
63	Robotic Cloning and Protein Production Platform of the Northeast Structural Genomics Consortium. Methods in Enzymology, 2005, 394, 210-243.	1.0	118
64	Bacterial addiction module toxin Doc inhibits translation elongation through its association with the 30S ribosomal subunit. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 5885-5890.	7.1	118
65	Chapter 12 mRNA Interferases, Sequenceâ€Specific Endoribonucleases from the Toxinâ€“Antitoxin Systems. Progress in Molecular Biology and Translational Science, 2009, 85, 467-500.	1.7	118
66	Suppression of defective ribosome assembly in a rbfA deletion mutant by overexpression of Era, an essential GTPase in Escherichia coli. Molecular Microbiology, 2003, 48, 1005-1016.	2.5	117
67	Interference of mRNA Function by Sequence-specific Endoribonuclease PemK. Journal of Biological Chemistry, 2004, 279, 20678-20684.	3.4	117
68	Mechanism of Stabilization of a Bacterial Collagen Triple Helix in the Absence of Hydroxyproline. Journal of Biological Chemistry, 2007, 282, 29757-29765.	3.4	114
69	Multicopy single-stranded DNA isolated from a gram-negative bacterium, Myxococcus xanthus. Cell, 1984, 38, 203-209.	28.9	113
70	CspD, a novel DNA replication inhibitor induced during the stationary phase in Escherichia coli. Molecular Microbiology, 2001, 39, 1572-1584.	2.5	111
71	Acetaminophen Toxicity. Journal of Biological Chemistry, 1999, 274, 10349-10355.	3.4	109
72	Homogeneity of Envelope Proteins of Escherichia coli Separated by Gel Electrophoresis in Sodium Dodecyl Sulfate. Journal of Bacteriology, 1973, 113, 304-312.	2.2	108

#	Article	IF	Citations
73	Complete primary structure of phage lysozyme from Escherichia coli T4. Journal of Molecular Biology, 1968, 37, 201-212.	4.2	103
74	Characterization of ChpBK, an mRNA Interferase from Escherichia coli. Journal of Biological Chemistry, 2005, 280, 26080-26088.	3.4	103
75	Unlinking of Cell Division from Deoxyribonucleic Acid Replication in a Temperature-sensitive Deoxyribonucleic Acid Synthesis Mutant of Escherichia coli. Journal of Bacteriology, 1969, 99, 842-850.	2.2	103
76	The Gene for Nucleoside Diphosphate Kinase Functions as a Mutator Gene inEscherichia coli. Journal of Molecular Biology, 1995, 254, 337-341.	4.2	101
77	Signal peptide mutants ofEscherichia coli. Journal of Bioenergetics and Biomembranes, 1990, 22, 233-269.	2.3	100
78	Improvement Of Oligonucleotide-Directed Site-Specific Mutagenesis Using Double-Stranded Plasmid DNA. Nature Biotechnology, 1984, 2, 636-639.	17.5	99
79	Folding Pathway Mediated by an Intramolecular Chaperone. Journal of Biological Chemistry, 2001, 276, 44427-44434.	3.4	99
80	Lipid fluidity-dependent biosynthesis and assembly of the outer membrane proteins of E. coli. Cell, 1979, 17, 155-161.	28.9	98
81	Identification of a phosphorylation site and functional analysis of conserved aspartic acid residues of OmpR, a transcriptional activator for ompF and ompC in Escherichia coli. Molecular Microbiology, 1993, 10, 1037-1047.	2.5	98
82	The Inhibitory Mechanism of Protein Synthesis by YoeB, an Escherichia coli Toxin. Journal of Biological Chemistry, 2009, 284, 6627-6638.	3.4	97
83	Staphylococcus aureus MazF Specifically Cleaves a Pentad Sequence, UACAU, Which Is Unusually Abundant in the mRNA for Pathogenic Adhesive Factor SraP. Journal of Bacteriology, 2009, 191, 3248-3255.	2.2	96
84	The mRNA interferases, MazFâ€mt3 and MazFâ€mt7 from Mycobacterium tuberculosis target unique pentad sequences in singleâ€stranded RNA. Molecular Microbiology, 2008, 69, 559-569.	2.5	95
85	Era, an Essential Escherichia coli Small G-Protein, Binds to the 30S Ribosomal Subunit. Biochemical and Biophysical Research Communications, 1999, 264, 51-54.	2.1	94
86	Intramolecular Chaperone: The Role of the Pro-Peptide in Protein Folding. Enzyme, 1991, 45, 314-321.	0.7	93
87	CspA, CspB, and CspG, Major Cold Shock Proteins of Escherichia coli , Are Induced at Low Temperature under Conditions That Completely Block Protein Synthesis. Journal of Bacteriology, 1999, 181, 1827-1830.	2.2	93
88	Functional Analysis of the Propeptide of Subtilisin E as an Intramolecular Chaperone for Protein Folding. Journal of Biological Chemistry, 1995, 270, 25127-25132.	3.4	92
89	Translational Enhancement by an Element Downstream of the Initiation Codon in Escherichia coli. Journal of Biological Chemistry, 1999, 274, 10079-10085.	3.4	92
90	Precursors of major outer membrane proteins of Escherichia coli. Biochemical and Biophysical Research Communications, 1977, 77, 1126-1133.	2.1	90

#	Article	IF	Citations
91	Characterization of the Interactions within the mazEF Addiction Module of Escherichia coli. Journal of Biological Chemistry, 2003, 278, 32300-32306.	3.4	90
92	Molecular Basis of a Mutational Hot Spot in the Lysozyme Gene of Bacteriophage T4. Nature, 1972, 236, 338-341.	27.8	87
93	Cold-shock induction of a family of TIP1-related proteins associated with the membrane in Saccharomyces cerevisiae. Molecular Microbiology, 1995, 15, 341-353.	2.5	87
94	Homology of the Gene Coding for Outer Membrane Lipoprotein Within Various Gram-Negative Bacteria. Journal of Bacteriology, 1979, 137, 595-604.	2.2	87
95	The tandem GTPase, Der, is essential for the biogenesis of 50S ribosomal subunits in Escherichia coli. Molecular Microbiology, 2006, 61, 1660-1672.	2.5	85
96	Reverse transcriptase with concomitant ribonuclease H activity in the cell-free synthesis of branched RNA-linked msDNA of Myxococcus xanthus. Cell, 1989, 56, 701-707.	28.9	83
97	The Role of RbfA in 16S rRNA Processing and Cell Growth at Low Temperature in Escherichia coli. Journal of Molecular Biology, 2003, 332, 575-584.	4.2	83
98	Structural Mechanism of Transcriptional Autorepression of the Escherichia coli RelB/RelE Antitoxin/Toxin Module. Journal of Molecular Biology, 2008, 380, 107-119.	4.2	82
99	Noncognate Mycobacterium tuberculosis Toxin-Antitoxins Can Physically and Functionally Interact. Journal of Biological Chemistry, 2010, 285, 39732-39738.	3.4	82
100	Interactions of cAMP receptor protein with theompAgene, a gene for a major outer membrane protein ofEscherichia coli. FEBS Letters, 1981, 128, 186-190.	2.8	81
101	The isolation and characterization of RNA coded by themicFgene in Escherichia Coli. Nucleic Acids Research, 1987, 15, 2089-2101.	14.5	81
102	Ligand Binding to the Receptor Domain Regulates the Ratio of Kinase to Phosphatase Activities of the Signaling Domain of the Hybrid Escherichia coli Transmembrane Receptor, Taz1. Journal of Molecular Biology, 1993, 232, 484-492.	4.2	81
103	Structure of msDNA from myxococcus xanthus: Evidence for a long, self-annealing RNA precursor for the covalently linked, branched RNA. Cell, 1987, 51, 1105-1112.	28.9	79
104	Nucleoside diphosphate kinase from Escherichia coli; its overproduction and sequence comparison with eukaryotic enzymes. Gene, 1991, 105, 31-36.	2.2	79
105	Requirement of Both Kinase and Phosphatase Activities of an Escherichia coli Receptor (Taz1) for Ligand-dependent Signal Transduction. Journal of Molecular Biology, 1993, 231, 335-342.	4.2	79
106	Mutation Analysis of the 5â€² Untranslated Region of the Cold Shock cspA mRNA of Escherichia coli. Journal of Bacteriology, 1999, 181, 6284-6291.	2.2	79
107	Characterization of Escherichia coli cspE, whose product negatively regulates transcription of cspA, the gene for the major cold shock protein. Molecular Microbiology, 1999, 31, 1429-1441.	2.5	77
108	Structural Basis of mRNA Recognition and Cleavage by Toxin MazF and Its Regulation by Antitoxin MazE in Bacillus subtilis. Molecular Cell, 2013, 52, 447-458.	9.7	77

#	Article	IF	Citations
109	Differential thermoregulation of two highly homologous cold-shock genes,cspAandcspB, ofEscherichia coli. Genes To Cells, 1996, 1, 171-178.	1.2	76
110	A Streptococcus pyogenes derived collagen-like protein as a non-cytotoxic and non-immunogenic cross-linkable biomaterial. Biomaterials, 2010, 31, 2755-2761.	11.4	76
111	Solution NMR Structure of Ribosome-binding Factor A (RbfA), A Cold-shock Adaptation Protein from Escherichia coli. Journal of Molecular Biology, 2003, 327, 521-536.	4.2	75
112	Selfâ€association of streptococcus pyogenes collagenâ€like constructs into higher order structures. Protein Science, 2009, 18, 1241-1251.	7.6	75
113	Branched RNA covalently linked to the 5â€² end of a single-stranded DNA in Stigmatella aurantiaca: Structure of msDNA. Cell, 1987, 48, 47-53.	28.9	74
114	The DNA sequence of the gene (rnc) encoding ribonuclease III ofEscherichia coli. Nucleic Acids Research, 1985, 13, 4677-4685.	14.5	73
115	Chapter 2 Structure and Function of the Signal Peptide. Current Topics in Membranes and Transport, 1985, 24, 65-104.	0.6	72
116	MazG, a Nucleoside Triphosphate Pyrophosphohydrolase, Interacts with Era, an Essential GTPase in Escherichia coli. Journal of Bacteriology, 2002, 184, 5323-5329.	2.2	72
117	Novel High-level Expression Cloning Vehicles: 104-fold Amplification of Escherichia coli Minor Protein. Nature Biotechnology, 1984, 2, 81-85.	17.5	71
118	The Critical Role of the Conserved Thr247 Residue in the Functioning of the Osmosensor EnvZ, a Histidine Kinase/Phosphatase, in Escherichia coli. Journal of Biological Chemistry, 2000, 275, 38645-38653.	3.4	71
119	Specific Biosynthesis of an Envelope Protein of Escherichia coli. Nature, 1973, 242, 405-407.	27.8	70
120	Outer membrane proteins ofEschrichia coli: Biosynthesis and assembly. FEBS Letters, 1974, 39, 167-170.	2.8	69
121	Small RNAs in the prokaryotes: A growing list of diverse roles. Cell, 1988, 53, 5-7.	28.9	69
122	Complementation Analysis of the Cold-Sensitive Phenotype of the Escherichia coli csdA Deletion Strain. Journal of Bacteriology, 2007, 189, 5808-5815.	2.2	69
123	Inhibitory Mechanism of Escherichia coli RelE-RelB Toxin-Antitoxin Module Involves a Helix Displacement Near an mRNA Interferase Active Site. Journal of Biological Chemistry, 2009, 284, 14628-14636.	3.4	69
124	Bacillus subtilis MazFâ€bs (EndoA) is a UACAUâ€specific mRNA interferase. FEBS Letters, 2011, 585, 2526-2532.	2.8	69
125	Cell division in Escherichia coli: Evidence for regulation of septation by effector molecules. Journal of Molecular Biology, 1972, 69, 119-136.	4.2	68
126	Backbone dynamics of the natively unfolded pro-peptide of subtilisin by heteronuclear NMR relaxation studies. Journal of Biomolecular NMR, 2001, 20, 233-249.	2.8	68

#	Article	IF	Citations
127	Nucleoside-diphosphate Kinase-mediated Signal Transduction via Histidyl-Aspartyl Phosphorelay Systems in Escherichia coli. Journal of Biological Chemistry, 1996, 271, 32886-32893.	3.4	67
128	A Pathway for Conformational Diversity in Proteins Mediated by Intramolecular Chaperones. Journal of Biological Chemistry, 1999, 274, 15615-15621.	3.4	67
129	Reverse Phosphotransfer from OmpR to EnvZ in a Kinaseâ˜/Phosphatase+ Mutant of EnvZ (EnvZâ€¢N347D), a Bifunctional Signal Transducer of Escherichia coli. Journal of Biological Chemistry, 1996, 271, 1424-1429.	3.4	66
130	Three Amino Acids in Escherichia coli CspE Surface-exposed Aromatic Patch Are Critical for Nucleic Acid Melting Activity Leading to Transcription Antitermination and Cold Acclimation of Cells. Journal of Biological Chemistry, 2002, 277, 46706-46711.	3.4	66
131	Folding Pathway Mediated by an Intramolecular Chaperone. Journal of Biological Chemistry, 2000, 275, 16871-16878.	3.4	65
132	Crystal Structures of Phd-Doc, HigA, and YeeU Establish Multiple Evolutionary Links between Microbial Growth-Regulating Toxin-Antitoxin Systems. Structure, 2010, 18, 996-1010.	3.3	65
133	Domain Arrangement of Der, a Switch Protein Containing Two GTPase Domains. Structure, 2002, 10, 1649-1658.	3.3	64
134	Escherichia coliRNase R Has Dual Activities, Helicase and RNase. Journal of Bacteriology, 2010, 192, 1344-1352.	2.2	64
135	Biosynthesis and structure of stable branched RNA covalently linked to the 5â€² end of multicopy single-stranded DNA of Stigmatella aurantiaca. Cell, 1987, 48, 55-62.	28.9	62
136	Single protein production (SPP) system in Escherichia coli. Nature Protocols, 2007, 2, 1802-1810.	12.0	62
137	RatA (YfjG), an Escherichia coli toxin, inhibits 70S ribosome association to block translation initiation. Molecular Microbiology, 2011, 79, 1418-1429.	2.5	62
138	Pkn9, a Ser/Thr protein kinase involved in the development of Myxococcus xanthus. Molecular Microbiology, 1997, 23, 459-471.	2.5	61
139	An Essential GTPase, Der, Containing Double GTP-binding Domains from Escherichia coli and Thermotoga maritima. Journal of Biological Chemistry, 2001, 276, 31415-31421.	3.4	61
140	Defining Requirements for Collagenase Cleavage in Collagen Type III Using a Bacterial Collagen System. Journal of Biological Chemistry, 2012, 287, 22988-22997.	3.4	61
141	Folding Mediated by an Intramolecular Chaperone: Autoprocessing Pathway of the Precursor Resolvedviaa Substrate Assisted Catalysis Mechanism. Journal of Molecular Biology, 1995, 247, 390-395.	4.2	60
142	Growth and Translation Inhibition through Sequence-specific RNA Binding by Mycobacterium tuberculosis VapC Toxin. Journal of Biological Chemistry, 2012, 287, 12835-12847.	3.4	60
143	Role of the Cold-Box Region in the 5â€² Untranslated Region of the cspA mRNA in Its Transient Expression at Low Temperature in Escherichia coli. Journal of Bacteriology, 1998, 180, 90-95.	2.2	60
144	Two-dimensional DNA electrophoresis applied to the study of DNA methylation and the analysis of genome size in Myxococcus xanthus. Journal of Molecular Biology, 1982, 154, 181-196.	4.2	59

#	Article	IF	Citations
145	Expanding the Family of Collagen Proteins: Recombinant Bacterial Collagens of Varying Composition Form Triple-Helices of Similar Stability. Biomacromolecules, 2010, 11, 348-356.	5.4	59
146	Characterization of YafO, an Escherichia coli Toxin. Journal of Biological Chemistry, 2009, 284, 25522-25531.	3.4	58
147	Existence of a Free Form of a Specific Membrane Lipoprotein in Gram-Negative Bacteria. Journal of Bacteriology, 1974, 120, 1204-1208.	2.2	58
148	Synthetic ColE1 plasmids carrying genes for cell division in Escherichia coli. Plasmid, 1977, 1, 67-77.	1.4	57
149	The New York Consortium on Membrane Protein Structure (NYCOMPS): a high-throughput platform for structural genomics of integral membrane proteins. Journal of Structural and Functional Genomics, 2010, 11, 191-199.	1.2	57
150	A novel membrane-bound toxin for cell division, CptA (YgfX), inhibits polymerization of cytoskeleton proteins, FtsZ and MreB, in Escherichia coli. FEMS Microbiology Letters, 2012, 328, 174-181.	1.8	57
151	Toxins of Prokaryotic Toxin-Antitoxin Systems with Sequence-Specific Endoribonuclease Activity. Toxins, 2017, 9, 140.	3.4	56
152	[31] Expression and secretion of foreign proteins in Escherichia coli. Methods in Enzymology, 1987, 153, 492-507.	1.0	55
153	Folding Pathway Mediated by an Intramolecular Chaperone: Characterization of the Structural Changes in Pro-subtilisin E Coincident with Autoprocess ing. Journal of Molecular Biology, 1995, 252, 25-30.	4.2	55
154	Characterization of Dual Substrate Binding Sites in the Homodimeric Structure of Escherichia coli mRNA Interferase MazF. Journal of Molecular Biology, 2006, 357, 139-150.	4.2	54
155	The Structural and Functional Organization of Intramolecular Chaperones: The N-Terminal Propeptides Which Mediate Protein Folding1. Journal of Biochemistry, 1994, 115, 629-636.	1.7	53
156	Interaction of EnvZ, a sensory histidine kinase, with phosphorylated OmpR, the cognate response regulator. Molecular Microbiology, 2002, 46, 1283-1294.	2.5	53
157	The Gene for 16S rRNA Methyltransferase (ksgA) Functions as a Multicopy Suppressor for a Cold-Sensitive Mutant of Era, an Essential RAS-Like GTP-Binding Protein in Escherichia coli. Journal of Bacteriology, 1998, 180, 5243-5246.	2.2	53
158	Staphylococcus aureus YoeB Homologues Inhibit Translation Initiation. Journal of Bacteriology, 2009, 191, 5868-5872.	2.2	52
159	msDNA and Bacterial Reverse Transcriptase. Annual Review of Microbiology, 1991, 45, 163-186.	7.3	50
160	Bacterial Bioreactors for High Yield Production of Recombinant Protein. Journal of Biological Chemistry, 2006, 281, 37559-37565.	3.4	50
161	Functional analysis of the intramolecular chaperone. Journal of Molecular Biology, 1992, 226, 931-933.	4.2	49
162	Overexpression of Antioxidant Enzymes in Transgenic Mice Decreases Cellular Ploidy during Liver Regeneration. Experimental Cell Research, 1997, 236, 137-146.	2.6	47

#	Article	IF	Citations
163	Characterization of the autophosphorylation of Era, an essential Escherichia coli GTPase. Molecular Microbiology, 1994, 12, 201-208.	2.5	46
164	Characterization of GTPase Activity of TrmE, a Member of a Novel GTPase Superfamily, from Thermotoga maritima. Journal of Bacteriology, 2000, 182, 7078-7082.	2.2	46
165	The discovery of mRNA interferases: Implication in bacterial physiology and application to biotechnology. Journal of Cellular Physiology, 2006, 209, 670-676.	4.1	46
166	Ligand Binding Induces an Asymmetrical Transmembrane Signal through a Receptor Dimer. Journal of Molecular Biology, 1993, 232, 493-498.	4.2	45
167	Expression and Secretion of Proteins in E. coli. Molecular Biotechnology, 1999, 12, 25-34.	2.4	45
168	Folding Pathway Mediated by an Intramolecular Chaperone: Dissecting Conformational Changes Coincident with Autoprocessing and the Role of Ca2+ in Subtilisin Maturation. Journal of Biochemistry, 2002, 131, 31-37.	1.7	45
169	The role of the G2 box, a conserved motif in the histidine kinase superfamily, in modulating the function of EnvZ. Molecular Microbiology, 2002, 45, 653-663.	2.5	45
170	Inhibition of specific gene expressions by protein-mediated mRNA interference. Nature Communications, 2012, 3, 607.	12.8	45
171	Amino acid sequence of T2 phage lysozyme. Journal of Molecular Biology, 1968, 37, 213-223.	4.2	44
172	Studies on the role of bacteriophage T7 lysozyme during phage infection. Journal of Molecular Biology, 1975, 96, 1-11.	4.2	44
173	Mutations upstream of the ribosome-binding site affect translational efficiency. Journal of Molecular Biology, 1985, 181, 139-143.	4.2	44
174	Acquisition of HIV-1 Resistance in T Lymphocytes Using an ACA-SpecificE. colimRNA Interferase. Human Gene Therapy, 2011, 22, 35-43.	2.7	44
175	Determination ofKm andkcat for Signal Peptidase I Using a Full Length Secretory Precursor, pro-OmpA-nuclease A<//INF><//INF>. Journal of Molecular Biology, 1995, 245, 311-314.	4.2	43
176	Human Organic Anion Transporter hOAT1 Forms Homooligomers. Journal of Biological Chemistry, 2005, 280, 32285-32290.	3.4	42
177	RNase Activity of Polynucleotide Phosphorylase Is Critical at Low Temperature inEscherichia coliand Is Complemented by RNase II. Journal of Bacteriology, 2008, 190, 5924-5933.	2.2	42
178	A Large Family of Eukaryotic-Like Protein Ser/Thr Kinases ofMyxococcus xanthus, a Developmental Bacterium. Microbial & Comparative Genomics, 2000, 5, 103-120.	0.4	41
179	Induction of CspA, an E. coli major cold-shock protein, upon nutritional upshift at 37â€ŠÂ°C. Genes To Cells, 2001, 6, 279-290.	1.2	41
180	DNA sequence of the promoter region of theompCgene and the amino acid sequence of the signal peptide of pro-OmpC protein inEscherichia coli. FEBS Letters, 1983, 151, 159-164.	2.8	40

#	Article	IF	Citations
181	The Formation of the 2â€²,5â€²-Phosphodiester Linkage in the cDNA Priming Reaction by Bacterial Reverse Transcriptase in a Cell-free System. Journal of Biological Chemistry, 1995, 270, 581-588.	3.4	40
182	Spontaneous Subunit Exchange and Biochemical Evidence for Trans-autophosphorylation in a Dimer of Escherichia coli Histidine Kinase (EnvZ). Journal of Molecular Biology, 2003, 329, 495-503.	4.2	40
183	Identification of the First Functional Toxin-Antitoxin System in Streptomyces. PLoS ONE, 2012, 7, e32977.	2.5	40
184	Patterns of Protein Production in Myxococcus xanthus During Spore Formation Induced by Glycerol, Dimethyl Sulfoxide, and Phenethyl Alcohol. Journal of Bacteriology, 1980, 144, 1076-1082.	2.2	40
185	The Backbone Structure of the Major Cold-Shock Protein CS7.4 of Escherichia coli in Solution Includes Extensive Î²-Sheet Structure1. Journal of Biochemistry, 1993, 114, 663-669.	1.7	39
186	Specific Removal of Proteins from the Envelope of Escherichia coli by Protease Treatments. Journal of Bacteriology, 1972, 112, 585-592.	2.2	39
187	The amino acid sequence of T4 bacteriophage lysozyme. Journal of Molecular Biology, 1966, 22, 193-196.	4.2	38
188	A monomeric histidine kinase derived from EnvZ, an Escherichia coli osmosensor. Molecular Microbiology, 2000, 36, 24-32.	2.5	38
189	Analysis of the Role of the EnvZ Linker Region in Signal Transduction Using a Chimeric Tar/EnvZ Receptor Protein, Tez1. Journal of Biological Chemistry, 2003, 278, 22812-22819.	3.4	38
190	Protein Synthesis in Toluene-Treated Escherichia coli Exclusive Synthesis of Membrane Proteins. FEBS Journal, 1976, 69, 163-167.	0.2	37
191	Regulation of gene expression by a small RNA transcript (micRNA) in Escherichia coli K-12.. Proceedings of the Japan Academy Series B: Physical and Biological Sciences, 1983, 59, 335-338.	3.8	37
192	Roles of the 5â€² leader region of the ompA mRNA. Journal of Molecular Biology, 1984, 176, 431-442.	4.2	37
193	Cold Shock Response and Adaptation at Near-Freezing Temperature in Microorganisms. Science Signaling, 2004, 2004, pe26-pe26.	3.6	37
194	Dissecting a Bacterial Collagen Domain from Streptococcus pyogenes. Journal of Biological Chemistry, 2011, 286, 18960-18968.	3.4	36
195	Endotoxemia in Transgenic Mice Overexpressing Human Glutathione Peroxidases. Circulation Research, 2000, 87, 289-295.	4.5	35
196	The retron: a bacterial retroelement required for the synthesis of msDNA. Current Opinion in Genetics and Development, 1993, 3, 713-718.	3.3	34
197	Association of the Prolipoprotein Accumulated in the Presence of Globomycin with the Outer Membrane of Escherichia coli. FEBS Journal, 1983, 130, 27-32.	0.2	34
198	Eukaryotic-like protein serine/threonine kinases inMyxococcus xanthus, a developmental bacterium exhibiting social behavior. Journal of Cellular Biochemistry, 1993, 51, 29-33.	2.6	33

#	Article	IF	Citations
199	Hierarchical and co-operative binding of OmpR to a fusion construct containing theompCandompFupstream regulatory sequences ofEscherichia coli. Genes To Cells, 1998, 3, 777-788.	1.2	33
200	Characterization of a mazEF Toxin-Antitoxin Homologue from Staphylococcus equorum. Journal of Bacteriology, 2013, 195, 115-125.	2.2	33
201	Requirement of Polyamines for Bacterial Division. Journal of Bacteriology, 1970, 101, 770-776.	2.2	33
202	Inactivation of the Serratia marcescens gene for the lipoprotein in Escherichia coli by insertion sequences, IS1 and IS5; sequence analysis of junction points. Molecular Genetics and Genomics, 1981, 183, 107-114.	2.4	32
203	The Cold Box Stem-loop Proximal to the 5â€²-End of theEscherichia coli cspA Gene Stabilizes Its mRNA at Low Temperature. Journal of Biological Chemistry, 2002, 277, 6005-6011.	3.4	32
204	IRIP, a New Ischemia/Reperfusion-Inducible Protein That Participates in the Regulation of Transporter Activity. Molecular and Cellular Biology, 2005, 25, 6496-6508.	2.3	32
205	Frameshift mutation in the lysozyme gene of bacteriophage T4: Demonstration of the insertion of four bases and the preferential occurrence of base addition in acridine mutagenesis. Journal of Molecular Biology, 1970, 54, 199-217.	4.2	31
206	Effect of neighboring nucleotide sequences on suppression efficiency in amber mutants of T4 phage lysozyme. Molecular Genetics and Genomics, 1976, 149, 1-4.	2.4	31
207	Reversal by sodium chloride of envelope protein changes related to DNA replication and cell division of Escherichia coli. Journal of Molecular Biology, 1972, 63, 597-600.	4.2	30
208	Further improvement on the phosphotriester synthesis of deoxyriboollgonucleotides and the oligonucleotide directed site-specific mutagenesis ofE.colillpoprotein gene. Nucleic Acids Research, 1983, 11, 3227-3239.	14.5	30
209	The Mechanism of Nucleic Acid Melting by a CspA Family Protein. Journal of Molecular Biology, 2004, 337, 147-155.	4.2	30
210	Structural and Functional Studies of the HAMP Domain of EnvZ, an Osmosensing Transmembrane Histidine Kinase in Escherichia coli. Journal of Biological Chemistry, 2007, 282, 26401-26408.	3.4	30
211	Assessment of prediction methods for protein structures determined by <scp>NMR</scp> in <scp>CASP14</scp>: Impact of <scp>AlphaFold2</scp>. Proteins: Structure, Function and Bioinformatics, 2021, 89, 1959-1976.	2.6	30
212	Structure, function, and evolution of bacterial reverse transcriptase. Virus Genes, 1995, 11, 81-94.	1.6	29
213	The 19â€residue proâ€peptide of staphylococcal nuclease has a profound secretionâ€enhancing ability in Escherichia coli. Molecular Microbiology, 1996, 21, 181-195.	2.5	29
214	Demonstration of dimer formation of the cytoplasmic domain of a transmembrane osmosensor protein, EnvZ, of Escherichia coli using Ni-histidine tag affinity chromatography. FEBS Letters, 1997, 400, 238-242.	2.8	29
215	CspB and CspL, thermostable cold-shock proteins from Thermotoga maritima. Genes To Cells, 2003, 8, 801-810.	1.2	29
216	Cysteine-Scanning Analysis of the Dimerization Domain of EnvZ, an Osmosensing Histidine Kinase. Journal of Bacteriology, 2003, 185, 3429-3435.	2.2	29

#	Article	IF	Citations
217	Intramolecular Regulation of the Sequence-Specific mRNA Interferase Activity of MazF Fused to a MazE Fragment with a Linker Cleavable by Specific Proteases. Applied and Environmental Microbiology, 2012, 78, 3794-3799.	3.1	29
218	Highly efficient residue-selective labeling with isotope-labeled Ile, Leu, and Val using a new auxotrophic E. coli strain. Journal of Biomolecular NMR, 2016, 65, 109-119.	2.8	29
219	Exploiting E. coli auxotrophs for leucine, valine, and threonine specific methyl labeling of large proteins for NMR applications. Journal of Biomolecular NMR, 2016, 65, 99-108.	2.8	29
220	Translation of a specific mRNA from Escherichiacoli in a eukaryotic cell-free system. Biochemical and Biophysical Research Communications, 1976, 68, 1194-1200.	2.1	28
221	Dissection of 16S rRNA Methyltransferase (KsgA) Function in Escherichia coli. Journal of Bacteriology, 2007, 189, 8510-8518.	2.2	28
222	Production of membrane proteins for NMR studies using the condensed single protein (cSPP) production system. Journal of Structural and Functional Genomics, 2009, 10, 281-289.	1.2	28
223	Transcriptional Repressor HipB Regulates the Multiple Promoters in <i>Escherichia coli</i>. Journal of Molecular Microbiology and Biotechnology, 2013, 23, 440-447.	1.0	28
224	Retroelements in bacteria. Trends in Biochemical Sciences, 1991, 16, 18-21.	7.5	27
225	Nonsense Mutations in cspA Cause Ribosome Trapping Leading to Complete Growth Inhibition and Cell Death at Low Temperature in Escherichia coli. Journal of Biological Chemistry, 2001, 276, 35581-35588.	3.4	27
226	DNA Microarray Analysis of the Expression Profile of Escherichia coli in Response to Treatment with 4,5-Dihydroxy-2-Cyclopenten-1-One. Journal of Bacteriology, 2002, 184, 6725-6729.	2.2	27
227	A frame-shift mutation resulting in the deletion of two base pairs in the lysozyme gene of bacteriophage T4. Journal of Molecular Biology, 1967, 30, 39-47.	4.2	26
228	Transmembrane Signaling. Journal of Molecular Biology, 1994, 244, 477-481.	4.2	26
229	Cold-sensitive conditional mutations in Era, an essentialEscherichia coliGTPase, isolated by localized random polymerase chain reaction mutagenesis. FEMS Microbiology Letters, 1995, 126, 291-298.	1.8	26
230	Complete growth inhibition of Escherichia coli by ribosome trapping with truncated cspA mRNA at low temperature. Genes To Cells, 1996, 1, 965-976.	1.2	26
231	Formation of the stoichiometric complex of EnvZ, a histidine kinase, with its response regulator, OmpR. Molecular Microbiology, 2002, 46, 1273-1282.	2.5	26
232	The Design and Development of Tarâ€EnvZ Chimeric Receptors. Methods in Enzymology, 2007, 423, 166-183.	1.0	26
233	A Sequence Downstream of the Initiation Codon Is Essential for Cold Shock Induction of cspB of Escherichia coli. Journal of Bacteriology, 1999, 181, 5852-5854.	2.2	26
234	The Mechanism of Autoprocessing of the Propeptide of Prosubtilisin E: Intramolecular or Intermolecular Event?. Journal of Molecular Biology, 1996, 262, 591-594.	4.2	25

#	Article	IF	Citations
235	Significant Enhanced Expression and Solubility of Human Proteins in Escherichia coli by Fusion with Protein S from Myxococcus xanthus. Applied and Environmental Microbiology, 2009, 75, 5356-5362.	3.1	25
236	Frameshift mutations resulting in the changes of the same amino acid residue (140) in T4 bacteriophage lysozyme and in vivo codons for Trp, Tyr, Met, Val and Ile. Journal of Molecular Biology, 1969, 41, 349-364.	4.2	24
237	Overproduction of a selenocysteine-containing polypeptide inEscherichia coli: thefdhFgene product. Molecular Microbiology, 1992, 6, 781-785.	2.5	24
238	Gene Regulation by Antisense DNA Produced in Vivo. Journal of Biological Chemistry, 1995, 270, 19684-19687.	3.4	23
239	Highly Specific Recognition of Primer RNA Structures for 2â€²-OH Priming Reaction by Bacterial Reverse Transcriptases. Journal of Biological Chemistry, 1999, 274, 31236-31244.	3.4	23
240	Probing Catalytically Essential Domain Orientation in Histidine Kinase EnvZ by Targeted Disulfide Crosslinking. Journal of Molecular Biology, 2003, 328, 409-418.	4.2	23
241	Noncollagenous region of the streptococcal collagenâ€like protein is a trimerization domain that supports refolding of adjacent homologous and heterologous collagenous domains. Protein Science, 2010, 19, 775-785.	7.6	23
242	Suppression of phospholipid biosynthesis by cerulenin in the condensed Single-Protein-Production (cSPP) system. Journal of Biomolecular NMR, 2011, 49, 131-137.	2.8	23
243	Biochemical characterization of Pkn2, a protein Ser/Thr kinase from Myxococcus xanthus , a Gram-negative developmental bacterium. FEBS Letters, 1997, 400, 188-192.	2.8	22
244	Functional analysis of the propeptides of subtilisin E and aqualysin I as intramolecular chaperones. FEBS Letters, 2001, 508, 210-214.	2.8	22
245	Thermotoga maritima MazG Protein Has Both Nucleoside Triphosphate Pyrophosphohydrolase and Pyrophosphatase Activities. Journal of Biological Chemistry, 2003, 278, 21408-21414.	3.4	22
246	Bacteriophage MS2 Lysis Protein Does Not Require Coat Protein to Mediate Cell Lysis. Journal of Bacteriology, 1983, 153, 1098-1100.	2.2	22
247	Direction of translation of the lysozyme gene of bacteriophage T4 relative to the linkage map. Journal of Molecular Biology, 1968, 31, 607-612.	4.2	21
248	The Effect of Amino Acid Deletion in Subtilisin E, Based on Structural Comparison with a Microbial Alkaline Elastase, on Its Substrate Specificity and Catalysis. Journal of Biochemistry, 1992, 111, 584-588.	1.7	21
249	Protein structure prediction assisted with sparse NMR data in CASP13. Proteins: Structure, Function and Bioinformatics, 2019, 87, 1315-1332.	2.6	21
250	Antisense RNA regulation in prokaryotes. Trends in Genetics, 1986, 2, 284-287.	6.7	20
251	Substrate-induced activation of a trapped IMC-mediated protein folding intermediate. Nature Structural Biology, 2001, 8, 321-325.	9.7	20
252	A Bacterial GAP-Like Protein, YihI, Regulating the GTPase of Der, an Essential GTP-Binding Protein in Escherichia coli. Journal of Molecular Biology, 2010, 399, 759-772.	4.2	20

#	Article	IF	Citations
253	The Role of Pro-239 in the Catalysis and Heat Stability of Subtilisin E. Journal of Biochemistry, 1989, 105, 953-956.	1.7	19
254	msDNA of Bacteria. Progress in Molecular Biology and Translational Science, 1991, 40, 1-24.	1.9	19
255	Deletion of the putative effector region of Era, an essential GTP-binding protein inEscherichia coli, causes a dominant-negative phenotype. FEMS Microbiology Letters, 1996, 143, 47-55.	1.8	19
256	The HAMP Linker in Histidine Kinase Dimeric Receptors Is Critical for Symmetric Transmembrane Signal Transduction. Journal of Biological Chemistry, 2004, 279, 48152-48158.	3.4	19
257	Enhancement of the solubility of proteins overexpressed in Escherichia coli by heat shock. Journal of Molecular Microbiology and Biotechnology, 2002, 4, 519-24.	1.0	19
258	Binding of penicillin to thiol-penicillin-binding protein 3 of Escherichia coli: identification of its active site. Molecular Genetics and Genomics, 1985, 201, 499-504.	2.4	18
259	Reversible topology of a bifunctional transmembrane protein depends upon the charge balance around its transmembrane domain. Molecular Microbiology, 1994, 11, 819-831.	2.5	18
260	Independently inducible system of gene expression for condensed single protein production (cSPP) suitable for high efficiency isotope enrichment. Journal of Structural and Functional Genomics, 2009, 10, 219-225.	1.2	18
261	Efficient condensed-phase production of perdeuterated soluble and membrane proteins. Journal of Structural and Functional Genomics, 2010, 11, 143-154.	1.2	18
262	A dominant mutation in Escherichia coli OmpR lies within a domain which is highly conserved in a large family of bacterial regulatory proteins. Molecular Genetics and Genomics, 1988, 211, 538-540.	2.4	17
263	Cold-sensitive growth and decreased GTP-hydrolytic activity from substitution of Pro17 for Val in Era, an essentialEscherichia coliGTPase. FEMS Microbiology Letters, 1992, 95, 137-142.	1.8	17
264	Acquisition of double-stranded DNA-binding ability in a hybrid protein between Escherichia coli CspA and the cold shock domain of human YB-1. Molecular Microbiology, 2000, 38, 526-534.	2.5	17
265	DISCUSSION PAPER: BIOSYNTHESIS AND ASSEMBLY OF A STRUCTURAL LIPOPROTEIN IN THE ENVELOPE OF ESCHERICHIA COLI. Annals of the New York Academy of Sciences, 1974, 235, 83-90.	3.8	16
266	Overproduction of an antisense RNA containing the oop RNA sequence of bacteriophage Î» induces clear plaque formation. Molecular Genetics and Genomics, 1987, 210, 184-186.	2.4	16
267	Purification and Characterization of the Periplasmic Domain of EnvZ Osmosensor inEscherichia coli. Biochemical and Biophysical Research Communications, 1997, 231, 68-72.	2.1	16
268	DB or not DB in translation?. Molecular Microbiology, 1999, 33, 438-439.	2.5	16
269	Signaling by Transmembrane Proteins Shifts Gears. Cell, 2006, 126, 829-831.	28.9	16
270	Autotomic Behavior of the Propeptide in Propeptide-mediated Folding of Prosubtilisin E. Journal of Molecular Biology, 2007, 366, 494-503.	4.2	16

#	Article	IF	Citations
271	RelA Functionally Suppresses the Growth Defect Caused by a Mutation in the G Domain of the Essential Der Protein. Journal of Bacteriology, 2008, 190, 3236-3243.	2.2	16
272	The Use of the Condensed Single Protein Production System for Isotope-Labeled Outer Membrane Proteins, OmpA and OmpX in E. coli. Molecular Biotechnology, 2011, 47, 205-210.	2.4	16
273	Segmental isotope labeling of proteins for NMR structural study using a protein S tag for higher expression and solubility. Journal of Biomolecular NMR, 2012, 52, 303-313.	2.8	16
274	Replacement of All Arginine Residues with Canavanine in MazF-bs mRNA Interferase Changes Its Specificity. Journal of Biological Chemistry, 2013, 288, 7564-7571.	3.4	16
275	Deletion of mazF increases Staphylococcus aureus biofilm formation in an ica-dependent manner. Pathogens and Disease, 2017, 75, .	2.0	16
276	Crystallization, Xâ€ray studies, and siteâ€directed cysteine mutagenesis of the DNAâ€binding domain of OmpR. Protein Science, 1996, 5, 1429-1433.	7.6	15
277	Functional and Structural Characterization of EnvZ, an Osmosensing Histidine Kinase of E. coli. Methods in Enzymology, 2007, 423, 184-202.	1.0	15
278	The E. coli single protein production system for production and structural analysis of membrane proteins. Journal of Structural and Functional Genomics, 2010, 11, 81-84.	1.2	15
279	Use of Amino Acids as Inducers for High-Level Protein Expression in the Single-Protein Production System. Applied and Environmental Microbiology, 2010, 76, 6063-6068.	3.1	15
280	Replacement of all tryptophan residues in T4 bacteriophage lysozyme by tyrosine residues. Journal of Molecular Biology, 1970, 50, 71-81.	4.2	14
281	Evolution of the lipoprotein gene in the enterobacteriaceae. Journal of Molecular Biology, 1985, 185, 501-507.	4.2	14
282	Mutational analysis of Era, an essential GTP-binding protein of Escherichia coli. FEMS Microbiology Letters, 1996, 136, 57-62.	1.8	14
283	Enhancement of frame-shift mutation by the overproduction of msDNA inEscherichia coli. FEMS Microbiology Letters, 1996, 144, 109-115.	1.8	14
284	A retroelement in Vibrio cholerae. Molecular Microbiology, 1999, 34, 631-632.	2.5	14
285	Significant Bias against the ACA Triplet in the tmRNA Sequence of Escherichia coli K-12. Journal of Bacteriology, 2009, 191, 6157-6166.	2.2	14
286	Translationâ€dependent <scp>mRNA</scp> cleavage by YhaV in Escherichia coli. FEBS Letters, 2017, 591, 1853-1861.	2.8	14
287	Functional complementation between the two homologous genes, ops and tps, during differentiation of Myxococcus xanthus. Molecular Genetics and Genomics, 1985, 199, 434-439.	2.4	13
288	Export and secretion of overproduced OmpA-Î²-lactamase inEscherichia coli. FEBS Letters, 1987, 224, 213-218.	2.8	13

#	Article	IF	Citations
289	Identification of cis- and frans-acting elements involved in the expression of cold shock-inducibleTIP1gene of yeastSaccharomyces cerevisiae. Nucleic Acids Research, 1994, 22, 560-568.	14.5	13
290	Fully automated high-quality NMR structure determination of small 2H-enriched proteins. Journal of Structural and Functional Genomics, 2010, 11, 223-232.	1.2	12
291	Evolution of the genetic code; Evidence from serine codon use disparity in Escherichia coli. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 28572-28575.	7.1	12
292	[11] Use of secretion cloning vectors for guiding the localization of proteins in Escherichia coli. Methods in Enzymology, 1986, 125, 138-149.	1.0	11
293	An endogenous protein inhibitor, YjhX (TopAI), for topoisomerase I fromEscherichia coli. Nucleic Acids Research, 2015, 43, gkv1197.	14.5	11
294	Characterization of YjjJ toxin of Escherichia coli. FEMS Microbiology Letters, 2017, 364, .	1.8	11
295	Genome-Wide Screening for Identification of Novel Toxin-Antitoxin Systems in Staphylococcus aureus. Applied and Environmental Microbiology, 2019, 85, .	3.1	11
296	Biosynthesis of a Specific Lipoprotein of the Escherichia coli Outer Membrane on Polyribosomes. FEBS Journal, 1975, 60, 395-398.	0.2	10
297	Artificial Immune System against Viral Infection Involving Antisense RNA Targeted to the 5'-Terminal Noncoding Region of Coliphage SP RNA1. Journal of Biochemistry, 1989, 106, 163-166.	1.7	10
298	Downstream box: a hidden translational enhancer. Molecular Microbiology, 1998, 27, 873-874.	2.5	10
299	Interaction of an Essential Escherichia coli GTPase, Der, with the 50S Ribosome via the KH-Like Domain. Journal of Bacteriology, 2010, 192, 2277-2283.	2.2	10
300	Protein secretion in bacteria. Current Opinion in Biotechnology, 1991, 2, 661-667.	6.6	9
301	Finding one of a kind: advances in single-protein production. Current Opinion in Biotechnology, 2006, 17, 347-352.	6.6	9
302	Structure-based design and screening of inhibitors for an essential bacterial GTPase, Der. Journal of Antibiotics, 2012, 65, 237-243.	2.0	9
303	In-cell NMR as a sensitive tool to monitor physiological condition of Escherichia coli. Scientific Reports, 2020, 10, 2466.	3.3	9
304	APPENDIX: Some Properties of DNP-Amines*. Journal of Biochemistry, 1961, 50, 157-158.	1.7	8
305	Change of tryptophan residue at the 158th position of T4 bacteriophage lysozyme into a tyrosine residue by suppression and spontaneous reversion of an amber mutant. Journal of Molecular Biology, 1968, 33, 957-961.	4.2	8
306	The lysozyme of a triple frame-shift mutant strain of bacteriophage T4. Journal of Molecular Biology, 1969, 40, 299-304.	4.2	8

#	Article	IF	Citations
307	Purification of the messenger ribonucleic acid for the lipoprotein of the Escherichia coli outer membrane. Biochemistry, 1979, 18, 4270-4277.	2.5	8
308	Effect of reduced membrane lipid fluidity on the biosynthesis of lipopolysaccharide of Escherichia coli. FEBS Journal, 1983, 135, 351-357.	0.2	8
309	ACAâ€šspecific RNA sequence recognition is acquired via the loop 2 region of MazF mRNA interferase. Proteins: Structure, Function and Bioinformatics, 2013, 81, 874-883.	2.6	8
310	The first demonstration of RNA interference to inhibit mRNA function. Gene, 2016, 592, 332-333.	2.2	8
311	A CUGGU/UUGGU-specific MazF homologue from Methanohalobium evestigatum. Biochemical and Biophysical Research Communications, 2019, 518, 533-540.	2.1	8
312	Combining Evolutionary Covariance and NMR Data for Protein Structure Determination. Methods in Enzymology, 2019, 614, 363-392.	1.0	8
313	Temperature-Sensitive Modification and Restriction Phenotypes of an Escherichia coli dnaD Mutant. Journal of Bacteriology, 1974, 119, 907-912.	2.2	8
314	In Vitro Synthesis of Multicopy Single-Stranded DNA, Using Separate Primer and Template RNAs, by Escherichia coli Reverse Transcriptase. Journal of Bacteriology, 1998, 180, 2999-3002.	2.2	8
315	19F-and 13C-NMR studies of a specifically labelled lipoprotein in the Eschericia coli membrane. Biochemical and Biophysical Research Communications, 1977, 78, 1211-1218.	2.1	7
316	Crystallization and preliminary X-ray diffraction analysis of nucleoside diphosphate kinase from Myxococcus xanthus. Journal of Molecular Biology, 1991, 220, 5-7.	4.2	7
317	Resonance assignments for cold-shock protein ribosome-binding factor A (RbfA) from Escherichia coli. Journal of Biomolecular NMR, 2001, 21, 389-390.	2.8	7
318	Assay of Transcription Antitermination by Proteins of the CspA Family. Methods in Enzymology, 2003, 371, 460-471.	1.0	7
319	Structural analysis of the mechanism of phosphorylation of a critical autoregulatory tyrosine residue in <scp>FGFR</scp>1 kinase domain. Genes To Cells, 2015, 20, 860-870.	1.2	7
320	ydfDencodes a novel lytic protein inEscherichia coli. FEMS Microbiology Letters, 2016, 363, fnw039.	1.8	7
321	The first demonstration of the existence of reverse transcriptases in bacteria. Gene, 2017, 597, 76-77.	2.2	7
322	The Cold-Shock Response. , 0, , 180-193.		7
323	The first application of site-directed mutagenesis using oligonucleotides for studying the function of a protein. Gene, 2016, 593, 342-343.	2.2	6
324	Preferential use of minor codons in the translation initiation region of human genes. Human Genetics, 2017, 136, 67-74.	3.8	6

#	Article	IF	Citations
325	Glycogen Phosphorylase Activities of Tumors, Regenerating Rat Liver and Suckling Rat Liver. Journal of Biochemistry, 1961, 49, 303-306.	1.7	5
326	SECRETION OF OUTER MEMBRANE PROTEINS OF ESCHERICHIA COLI ACROSS THE CYTOPLASMIC MEMBRANE. Annals of the New York Academy of Sciences, 1980, 343, 362-367.	3.8	5
327	Existence of several homologous sequences in theEscherichia colichromosome to the gene for the major outer membrane lipoprotein. FEBS Letters, 1982, 137, 168-170.	2.8	5
328	Complex Formation between a Putative 66-Residue Thumb Domain of Bacterial Reverse Transcriptase RT-Ec86 and the Primer Recognition RNA. Journal of Biological Chemistry, 2004, 279, 50735-50742.	3.4	5
329	Backbone NMR assignments of DFP-inhibited mature subtilisin E. Biomolecular NMR Assignments, 2008, 2, 131-133.	0.8	5
330	An Assay Suitable for High Throughput Screening of Anti-Influenza Drugs. PLoS ONE, 2013, 8, e54070.	2.5	5
331	An Unusual Bacterial Reverse Transcriptase Having LVDD in the YXDD Box fromEscherichia coli. Biochemical and Biophysical Research Communications, 1996, 227, 489-493.	2.1	4
332	Secretion of human superoxide dismutase in Escherichia coli using the condensed singleâ€proteinâ€production system. Protein Science, 2010, 19, 2330-2335.	7.6	4
333	Designing of a single gene encoding four functional proteins. Journal of Theoretical Biology, 2017, 419, 266-268.	1.7	4
334	Cold shock and adaptation. , 0, .		4
335	Cold shock and adaptation. BioEssays, 1998, 20, 49-57.	2.5	4
336	Specific growth inhibition by acetate of an Escherichia coli strain expressing Era-dE, a dominant negative Era mutant. Journal of Molecular Microbiology and Biotechnology, 2002, 4, 379-88.	1.0	4
337	[12] Isolation of mutants of the major outer membrane lipoprotein of Escherichia coli for the study of its assembly. Methods in Enzymology, 1983, 97, 124-129.	1.0	3
338	[5] In Vivo and in Vitro systems for studying bacterial membrane biogenesis. Methods in Enzymology, 1983, 96, 74-84.	1.0	3
339	A novel method for the cloning of chromosomal mutations in a single step: Isolation of two mutant alleles of envZ, an osmoregulatory gene from Escherichia coli. Molecular Genetics and Genomics, 1988, 213, 166-169.	2.4	3
340	Antisense RNA and DNA in Escherichia coli. Methods in Enzymology, 2000, 313, 467-485.	1.0	3
341	Mimicking cotranslational folding of prosubtilisin E in vitro. Journal of Biochemistry, 2020, 167, 473-482.	1.7	3
342	Cold-sensitive conditional mutations in Era, an essential Escherichia coli GTPase, isolated by localized random polymerase chain reaction mutagenesis. FEMS Microbiology Letters, 1995, 126, 291-298.	1.8	3

#	Article	IF	Citations
343	STUDIES ON TAKA-ACYLASE. Journal of Biochemistry, 1960, 48, 603-616.	1.7	2
344	Evaluation of the Use of Antisense tRNAmetas an Inhibitor for Eukaryotic Protein Synthesis. Antisense Research and Development, 1993, 3, 171-179.	3.1	2
345	Antisense RNA-Mediated Inhibition of Mouse Hepatitis Virus Replication in L2 Cells. Antisense Research and Development, 1995, 5, 289-294.	3.1	2
346	Identification of the genes in multicopy plasmids affectingompCandompFexpression inEscherichia coli. FEMS Microbiology Letters, 1995, 133, 225-231.	1.8	2
347	Enhancement of frame-shift mutation by the overproduction of msDNA in Escherichia coli. FEMS Microbiology Letters, 1996, 144, 109-115.	1.8	2
348	Studies on the Structure and Function of Subtilisin E by Protein Engineering. Annals of the New York Academy of Sciences, 1992, 672, 52-59.	3.8	2
349	The Amino Acid Sequence of T4 Phage Lysozyme. Journal of Biological Chemistry, 1971, 246, 4100.	3.4	2
350	Specific stable RNA species ofEscherichia coliaffected by chloramphenicol. FEMS Microbiology Letters, 1983, 17, 31-34.	1.8	1
351	Identification of the Myxococcus xanthus 59-kDa membrane-associated GTP-binding protein as a proton-translocating ATPase. Gene, 1994, 138, 133-137.	2.2	1
352	Suppression of the toxicity of Bac7 (1â€“35), a bovine peptide antibiotic, and its production in E. coli. AMB Express, 2016, 6, 19.	3.0	1
353	The role of the loop 1 region in MazFbs mRNA interferase from Bacillus subtilis in recognition of the 3â€² end of the RNA substrate. Biochemical and Biophysical Research Communications, 2017, 483, 403-408.	2.1	1
354	The first discovery of RNA interference by RNA restriction enzymes to inhibit protein synthesis. Gene, 2017, 597, 78-79.	2.2	1
355	Identification of the genes in multicopy plasmids affecting ompC and ompF expression in Escherichia coli. FEMS Microbiology Letters, 1995, 133, 225-231.	1.8	1
356	STUDIES ON TAKA-ACYLASE. Journal of Biochemistry, 1960, 48, 745-757.	1.7	0
357	[31]Cloning of the gene for protein S: A development-specific ca2+-binding protein from Myxococcus xanthus. Methods in Enzymology, 1987, 139, 380-390.	1.0	0
358	DB or not DB in translation?. Molecular Microbiology, 1999, 34, 865-865.	2.5	0
359	The first attempt for the isolation of an intact mRNA for structure determination. Gene, 2016, 592, 331.	2.2	0
360	The first determination of DNA sequence of a specific gene. Gene, 2016, 582, 94-95.	2.2	0

#	Article	IF	Citations
361	Suppression of MazF toxicity by fusing a Câ€terminal segment of MazE to MazF, and its activation by sequence specific HIVâ€1 and HCV proteases. FASEB Journal, 2012, 26, 956.2.	0.5	0
362	Creation of a New protein by substituting all arginine residues by its toxic analogue, canavanine. FASEB Journal, 2012, 26, 581.8.	0.5	0