Thomas J Silhavy

List of Publications by Year in Descending Order

202 papers	18,214 citations	77 h-index	130 g-index
257 ext. papers	20,504 ext. citations	9.8 avg, IF	7.3 L-index

#	Paper	IF	Citations
202	The sacrificial adaptor protein Skp functions to remove stalled substrates from the β-barrel assembly machine.. *Proceedings of the National Academy of Sciences of the United States of America*, **2022**, 119,	11.5	2
201	Physical properties of the bacterial outer membrane. *Nature Reviews Microbiology*, **2021**,	22.2	8
200	Phase separation in the outer membrane of. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	5
199	Border Control: Regulating LPS Biogenesis. *Trends in Microbiology*, **2021**, 29, 334-345	12.4	12
198	YejM Modulates Activity of the YciM/FtsH Protease Complex To Prevent Lethal Accumulation of Lipopolysaccharide. *MBio*, **2020**, 11,	7.8	27
197	The inner membrane protein YhdP modulates the rate of anterograde phospholipid flow in. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 26907-26914	11.5	8
196	The gain-of-function allele bypasses the essential requirement for BamD in β-barrel outer membrane protein assembly. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 18737-18743	11.5	11
195	Functions of the BamBCDE Lipoproteins Revealed by Bypass Mutations in BamA. *Journal of Bacteriology*, **2020**, 202,	3.5	7
194	A small-molecule inhibitor of BamA impervious to efflux and the outer membrane permeability barrier. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 21748-21757	11.5	64
193	Genetic Analysis of Protein Translocation. *Protein Journal*, **2019**, 38, 217-228	3.9	6
192	Envelope stress responses: balancing damage repair and toxicity. *Nature Reviews Microbiology*, **2019**, 17, 417-428	22.2	68
191	Outer Membrane Protein Insertion by the β-barrel Assembly Machine. *EcoSal Plus*, **2019**, 8,	7.7	15
190	Fine-Tuning of σE Activation Suppresses Multiple Assembly-Defective Mutations in Escherichia coli. *Journal of Bacteriology*, **2019**, 201,	3.5	5
189	Olaf Schneewind, 1961–2019: Scientist, Mentor, Friend. *Journal of Bacteriology*, **2019**, 201,	3.5	78
188	The Synthetic Phenotype of ΔDouble Mutants Results from a Lethal Jamming of the Bam Complex by the Lipoprotein RcsF. *MBio*, **2019**, 10,	7.8	21
187	2019 Jack Kenney Award for Outstanding Service. *Journal of Bacteriology*, **2019**, 202,	3.5	78
186	Current Issues in Scientific Publishing. *Journal of Bacteriology*, **2019**, 202,	3.5	78

185	Outer Membrane Protein Insertion by the β-barrel Assembly Machine **2019**, 91-101		3
184	Substrate binding to BamD triggers a conformational change in BamA to control membrane insertion. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 2359-2364	11.5	35
183	The Phospholipase PldA Regulates Outer Membrane Homeostasis via Lipid Signaling. *MBio*, **2018**, 9,	7.8	42
182	Cyclic Enterobacterial Common Antigen Maintains the Outer Membrane Permeability Barrier of Escherichia coli in a Manner Controlled by YhdP. *MBio*, **2018**, 9,	7.8	28
181	Inhibitor of intramembrane protease RseP blocks the σE response causing lethal accumulation of unfolded outer membrane proteins. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E6614-E6621	11.5	31
180	Redefining the essential trafficking pathway for outer membrane lipoproteins. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 4769-4774	11.5	59
179	Outer Membrane Biogenesis. *Annual Review of Microbiology*, **2017**, 71, 539-556	17.5	142
178	Sirtuin Lipoamidase Activity Is Conserved in Bacteria as a Regulator of Metabolic Enzyme Complexes. *MBio*, **2017**, 8,	7.8	22
177	Distinctive Roles for Periplasmic Proteases in the Maintenance of Essential Outer Membrane Protein Assembly. *Journal of Bacteriology*, **2017**, 199,	3.5	27
176	Conformational Changes That Coordinate the Activity of BamA and BamD Allowing β-Barrel Assembly. *Journal of Bacteriology*, **2017**, 199,	3.5	15
175	Novel RpoS-Dependent Mechanisms Strengthen the Envelope Permeability Barrier during Stationary Phase. *Journal of Bacteriology*, **2017**, 199,	3.5	23
174	Envelope Stress Responses: An Interconnected Safety Net. *Trends in Biochemical Sciences*, **2017**, 42, 232-242	14.5	78
173	Making a membrane on the other side of the wall. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2017**, 1862, 1386-1393	5	31
172	Characterization of a stalled complex on the β-barrel assembly machine. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 8717-22	11.5	62
171	ASM Journals Eliminate Impact Factor Information from Journal Websites. *MSphere*, **2016**, 1,	5	3
170	A Suppressor Mutation That Creates a Faster and More Robust σE Envelope Stress Response. *Journal of Bacteriology*, **2016**, 198, 2345-51	3.5	12
169	The CpxQ sRNA Negatively Regulates Skp To Prevent Mistargeting of β-Barrel Outer Membrane Proteins into the Cytoplasmic Membrane. *MBio*, **2016**, 7, e00312-16	7.8	40
168	The Activity of Escherichia coli Chaperone SurA Is Regulated by Conformational Changes Involving a Parvulin Domain. *Journal of Bacteriology*, **2016**, 198, 921-9	3.5	25

167	Disruption of lipid homeostasis in the Gram-negative cell envelope activates a novel cell death pathway. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E1565-74	11.5	97
166	A lipoprotein/β-barrel complex monitors lipopolysaccharide integrity transducing information across the outer membrane. *ELife*, **2016**, 5,	8.9	58
165	2015 Jack Kenney Award for Outstanding Service. *Journal of Bacteriology*, **2016**, 198, 4	3.5	
164	Lipopolysaccharide transport and assembly at the outer membrane: the PEZ model. *Nature Reviews Microbiology*, **2016**, 14, 337-45	22.2	208
163	Classifying β-Barrel Assembly Substrates by Manipulating Essential Bam Complex Members. *Journal of Bacteriology*, **2016**, 198, 1984-92	3.5	34
162	Outer membrane lipoprotein biogenesis: Lol is not the end. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2015**, 370,	5.8	80
161	Transcriptional occlusion caused by overlapping promoters. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 1557-61	11.5	29
160	Accumulation of phosphatidic acid increases vancomycin resistance in Escherichia coli. *Journal of Bacteriology*, **2014**, 196, 3214-20	3.5	27
159	Bordetella pertussis BvgAS Virulence Control System **2014**, 333-349		19
158	Genetic Approaches for Signaling Pathways and Proteins **2014**, 7-23		20
157	Two-Component Signal Transduction Systems: Structure-Function Relationships and Mechanisms of Catalysis **2014**, 25-51		155
156	Control of Cellular Development in Sporulating Bacteria by the Phosphorelay Two-Component Signal Transduction System **2014**, 129-144		41
155	Folding LacZ in the periplasm of Escherichia coli. *Journal of Bacteriology*, **2014**, 196, 3343-50	3.5	13
154	Sirtuins are evolutionarily conserved viral restriction factors. *MBio*, **2014**, 5,	7.8	86
153	LptE binds to and alters the physical state of LPS to catalyze its assembly at the cell surface. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 9467-72	11.5	52
152	Transmembrane domain of surface-exposed outer membrane lipoprotein RcsF is threaded through the lumen of β-barrel proteins. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, E4350-8	11.5	90
151	A mutant Escherichia coli that attaches peptidoglycan to lipopolysaccharide and displays cell wall on its surface. *ELife*, **2014**, 3, e05334	8.9	14
150	Dominant negative lptE mutation that supports a role for LptE as a plug in the LptD barrel. *Journal of Bacteriology*, **2013**, 195, 1327-34	3.5	28

149	The activity and specificity of the outer membrane protein chaperone SurA are modulated by a proline isomerase domain. *MBio*, **2013**, 4,	7.8	21
148	Conformation-specific labeling of BamA and suppressor analysis suggest a cyclic mechanism for β-barrel assembly in Escherichia coli. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 5151-6	11.5	85
147	Role for Skp in LptD assembly in Escherichia coli. *Journal of Bacteriology*, **2013**, 195, 3734-42	3.5	36
146	The Cpx stress response confers resistance to some, but not all, bactericidal antibiotics. *Journal of Bacteriology*, **2013**, 195, 1869-74	3.5	71
145	Predicting functionally informative mutations in Escherichia coli BamA using evolutionary covariance analysis. *Genetics*, **2013**, 195, 443-55	4	30
144	Making a beta-barrel: assembly of outer membrane proteins in Gram-negative bacteria. *Current Opinion in Microbiology*, **2012**, 15, 189-93	7.9	61
143	The Bam machine: a molecular cooper. *Biochimica Et Biophysica Acta - Biomembranes*, **2012**, 1818, 1067-84	3.48	136
142	Dissecting the Escherichia coli periplasmic chaperone network using differential proteomics. *Proteomics*, **2012**, 12, 1391-401	4.8	46
141	Activation of the Escherichia coli β-barrel assembly machine (Bam) is required for essential components to interact properly with substrate. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 3487-91	11.5	68
140	RpoS proteolysis is controlled directly by ATP levels in Escherichia coli. *Genes and Development*, **2012**, 26, 548-53	12.6	38
139	BamE modulates the Escherichia coli beta-barrel assembly machine component BamA. *Journal of Bacteriology*, **2012**, 194, 1002-8	3.5	63
138	Assembly of Outer Membrane β-Barrel Proteins: the Bam Complex. *EcoSal Plus*, **2011**, 4,	7.7	19
137	The free and bound forms of Lpp occupy distinct subcellular locations in Escherichia coli. *Molecular Microbiology*, **2011**, 79, 1168-81	4.1	90
136	β-Barrel membrane protein assembly by the Bam complex. *Annual Review of Biochemistry*, **2011**, 80, 189-210	24.1	254
135	Lipoprotein LptE is required for the assembly of LptD by the beta-barrel assembly machine in the outer membrane of Escherichia coli. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 2492-7	11.5	97
134	The response regulator SprE (RssB) is required for maintaining poly(A) polymerase I-degradosome association during stationary phase. *Journal of Bacteriology*, **2010**, 192, 3713-21	3.5	44
133	Nonconsecutive disulfide bond formation in an essential integral outer membrane protein. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 12245-50	11.5	86
132	Characterization of the two-protein complex in Escherichia coli responsible for lipopolysaccharide assembly at the outer membrane. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 5363-8	11.5	152

131	The bacterial cell envelope. *Cold Spring Harbor Perspectives in Biology*, **2010**, 2, a000414	10.2	1674
130	An ABC transport system that maintains lipid asymmetry in the gram-negative outer membrane. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 8009-14	11.5	287
129	The response regulator SprE (RssB) modulates polyadenylation and mRNA stability in Escherichia coli. *Journal of Bacteriology*, **2009**, 191, 6812-21	3.5	15
128	Characterization of the role of the Escherichia coli periplasmic chaperone SurA using differential proteomics. *Proteomics*, **2009**, 9, 2432-43	4.8	116
127	Transport of lipopolysaccharide across the cell envelope: the long road of discovery. *Nature Reviews Microbiology*, **2009**, 7, 677-83	22.2	205
126	Effects of antibiotics and a proto-oncogene homolog on destruction of protein translocator SecY. *Science*, **2009**, 325, 753-6	33.3	89
125	Contact-dependent growth inhibition requires the essential outer membrane protein BamA (YaeT) as the receptor and the inner membrane transport protein AcrB. *Molecular Microbiology*, **2008**, 70, 323-40	4.1	145
124	Identification of two inner-membrane proteins required for the transport of lipopolysaccharide to the outer membrane of Escherichia coli. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 5537-42	11.5	183
123	Functional analysis of the protein machinery required for transport of lipopolysaccharide to the outer membrane of Escherichia coli. *Journal of Bacteriology*, **2008**, 190, 4460-9	3.5	181
122	Structure and function of an essential component of the outer membrane protein assembly machine. *Science*, **2007**, 317, 961-4	33.3	302
121	Lipoprotein SmpA is a component of the YaeT complex that assembles outer membrane proteins in Escherichia coli. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 6400-5	11.5	240
120	Kinetic analysis of the assembly of the outer membrane protein LamB in Escherichia coli mutants each lacking a secretion or targeting factor in a different cellular compartment. *Journal of Bacteriology*, **2007**, 189, 446-54	3.5	73
119	Decline in ribosomal fidelity contributes to the accumulation and stabilization of the master stress response regulator sigmaS upon carbon starvation. *Genes and Development*, **2007**, 21, 862-74	12.6	44
118	A suppressor of cell death caused by the loss of sigmaE downregulates extracytoplasmic stress responses and outer membrane vesicle production in Escherichia coli. *Journal of Bacteriology*, **2007**, 189, 1523-30	3.5	59
117	Defining the roles of the periplasmic chaperones SurA, Skp, and DegP in Escherichia coli. *Genes and Development*, **2007**, 21, 2473-84	12.6	336
116	The Identification of the YaeT Complex and Its Role in the Assembly of Bacterial Outer Membrane β-Barrel Proteins. *The Enzymes*, **2007**, 129-149	2.3	0
115	prlF and yhaV encode a new toxin-antitoxin system in Escherichia coli. *Journal of Molecular Biology*, **2007**, 372, 894-905	6.5	81
114	LrhA regulates rpoS translation in response to the Rcs phosphorelay system in Escherichia coli. *Journal of Bacteriology*, **2006**, 188, 3175-81	3.5	44

113	Identification of a protein complex that assembles lipopolysaccharide in the outer membrane of Escherichia coli. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 11754-9	11.5	267
112	Crl facilitates RNA polymerase holoenzyme formation. *Journal of Bacteriology*, **2006**, 188, 7966-70	3.5	44
111	Probing the barrier function of the outer membrane with chemical conditionality. *ACS Chemical Biology*, **2006**, 1, 385-95	4.9	55
110	YfiO stabilizes the YaeT complex and is essential for outer membrane protein assembly in Escherichia coli. *Molecular Microbiology*, **2006**, 61, 151-64	4.1	234
109	Advances in understanding bacterial outer-membrane biogenesis. *Nature Reviews Microbiology*, **2006**, 4, 57-66	22.2	353
108	Sensing external stress: watchdogs of the Escherichia coli cell envelope. *Current Opinion in Microbiology*, **2005**, 8, 122-6	7.9	257
107	Chemical conditionality: a genetic strategy to probe organelle assembly. *Cell*, **2005**, 121, 307-17	56.2	238
106	Identification of a multicomponent complex required for outer membrane biogenesis in Escherichia coli. *Cell*, **2005**, 121, 235-45	56.2	565
105	The extracytoplasmic adaptor protein CpxP is degraded with substrate by DegP. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 17775-9	11.5	117
104	Escherichia coli starvation diets: essential nutrients weigh in distinctly. *Journal of Bacteriology*, **2005**, 187, 7549-53	3.5	86
103	Periplasmic peptidyl prolyl cis-trans isomerases are not essential for viability, but SurA is required for pilus biogenesis in Escherichia coli. *Journal of Bacteriology*, **2005**, 187, 7680-6	3.5	111
102	Starvation for different nutrients in Escherichia coli results in differential modulation of RpoS levels and stability. *Journal of Bacteriology*, **2005**, 187, 434-42	3.5	66
101	P pilus assembly motif necessary for activation of the CpxRA pathway by PapE in Escherichia coli. *Journal of Bacteriology*, **2004**, 186, 4326-37	3.5	32
100	RpoS proteolysis is regulated by a mechanism that does not require the SprE (RssB) response regulator phosphorylation site. *Journal of Bacteriology*, **2004**, 186, 7403-10	3.5	45
99	Continuous control in bacterial regulatory circuits. *Journal of Bacteriology*, **2004**, 186, 7618-25	3.5	34
98	Complex spatial distribution and dynamics of an abundant Escherichia coli outer membrane protein, LamB. *Molecular Microbiology*, **2004**, 53, 1771-83	4.1	75
97	Quality control in the bacterial periplasm. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2004**, 1694, 121-34	4.9	134
96	The art and design of genetic screens: Escherichia coli. *Nature Reviews Genetics*, **2003**, 4, 419-31	30.1	68

95	Secretion of LamB-LacZ by the signal recognition particle pathway of Escherichia coli. *Journal of Bacteriology*, **2003**, 185, 5697-705	3.5	59
94	Constitutive activation of the Escherichia coli Pho regulon upregulates rpoS translation in an Hfq-dependent fashion. *Journal of Bacteriology*, **2003**, 185, 5984-92	3.5	58
93	Null mutations in a Nudix gene, ygdP, implicate an alarmone response in a novel suppression of hybrid jamming. *Journal of Bacteriology*, **2003**, 185, 6530-9	3.5	7
92	Signal detection and target gene induction by the CpxRA two-component system. *Journal of Bacteriology*, **2003**, 185, 2432-40	3.5	169
91	Imp/OstA is required for cell envelope biogenesis in Escherichia coli. *Molecular Microbiology*, **2002**, 45, 1289-302	4.1	200
90	Surface sensing and adhesion of Escherichia coli controlled by the Cpx-signaling pathway. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 2287-92	11.5	320
89	Signal sequence mutations as tools for the characterization of LamB folding intermediates. *Journal of Bacteriology*, **2002**, 184, 6918-28	3.5	7
88	Genetic evidence for parallel pathways of chaperone activity in the periplasm of Escherichia coli. *Journal of Bacteriology*, **2001**, 183, 6794-800	3.5	200
87	Absence of the outer membrane phospholipase A suppresses the temperature-sensitive phenotype of Escherichia coli degP mutants and induces the Cpx and sigma(E) extracytoplasmic stress responses. *Journal of Bacteriology*, **2001**, 183, 5230-8	3.5	20
86	Germ Warfare: The Mechanisms of Virulence Factor Delivery **2001**, 43-74		4
85	Genetic basis for activity differences between vancomycin and glycolipid derivatives of vancomycin. *Science*, **2001**, 294, 361-4	33.3	112
84	RpoS-dependent transcriptional control of sprE: regulatory feedback loop. *Journal of Bacteriology*, **2001**, 183, 5974-81	3.5	34
83	Periplasmic stress and ECF sigma factors. *Annual Review of Microbiology*, **2001**, 55, 591-624	17.5	319
82	Tethering of CpxP to the inner membrane prevents spheroplast induction of the cpx envelope stress response. *Molecular Microbiology*, **2000**, 37, 1186-97	4.1	82
81	Gene fusions. *Journal of Bacteriology*, **2000**, 182, 5935-8	3.5	19
80	A practical guide to the construction and use of lac fusions in Escherichia coli. *Methods in Enzymology*, **2000**, 326, 11-35	1.7	17
79	SprE levels are growth phase regulated in a sigma(S)-dependent manner at the level of translation. *Journal of Bacteriology*, **2000**, 182, 4117-20	3.5	8
78	The sigmaE and Cpx regulatory pathways: overlapping but distinct envelope stress responses. *Current Opinion in Microbiology*, **1999**, 2, 159-65	7.9	159

77	Mapping an interface of SecY (PrlA) and SecE (PrlG) by using synthetic phenotypes and in vivo cross-linking. *Journal of Bacteriology*, **1999**, 181, 3438-44	3.5	89
76	The Cpx envelope stress response is controlled by amplification and feedback inhibition. *Journal of Bacteriology*, **1999**, 181, 5263-72	3.5	184
75	The LysR homolog LrhA promotes RpoS degradation by modulating activity of the response regulator sprE. *Journal of Bacteriology*, **1999**, 181, 563-71	3.5	48
74	Targeting and assembly of periplasmic and outer-membrane proteins in Escherichia coli. *Annual Review of Genetics*, **1998**, 32, 59-94	14.5	194
73	Crl stimulates RpoS activity during stationary phase. *Molecular Microbiology*, **1998**, 29, 1225-36	4.1	96
72	Folding-based suppression of extracytoplasmic toxicity conferred by processing-defective LamB. *Journal of Bacteriology*, **1998**, 180, 3120-30	3.5	7
71	Mutations that alter the kinase and phosphatase activities of the two-component sensor EnvZ. *Journal of Bacteriology*, **1998**, 180, 4538-46	3.5	126
70	Accumulation of the enterobacterial common antigen lipid II biosynthetic intermediate stimulates degP transcription in Escherichia coli. *Journal of Bacteriology*, **1998**, 180, 5875-84	3.5	76
69	CpxP, a stress-combative member of the Cpx regulon. *Journal of Bacteriology*, **1998**, 180, 831-9	3.5	220
68	His∅Asp Phosphorelay: Two Components or More?. *Cell*, **1996**, 85, 13-14	56.2	21
67	From acids to osmZ: multiple factors influence synthesis of the OmpF and OmpC porins in Escherichia coli. *Molecular Microbiology*, **1996**, 20, 911-7	4.1	258
66	The Porin Regulon: A Paradigm for the Two-Component Regulatory Systems **1996**, 383-417		15
65	Identification of base pairs important for OmpR-DNA interaction. *Molecular Microbiology*, **1995**, 17, 565-73	4.1	53
64	Mutational activation of the Cpx signal transduction pathway of Escherichia coli suppresses the toxicity conferred by certain envelope-associated stresses. *Molecular Microbiology*, **1995**, 18, 491-505	4.1	82
63	OmpR mutants specifically defective for transcriptional activation. *Journal of Molecular Biology*, **1994**, 243, 579-94	6.5	60
62	Mutations that affect separate functions of OmpR the phosphorylated regulator of porin transcription in Escherichia coli. *Journal of Molecular Biology*, **1993**, 231, 261-73	6.5	68
61	The essential tension: opposed reactions in bacterial two-component regulatory systems. *Trends in Microbiology*, **1993**, 1, 306-10	12.4	95
60	The E. coli ffh gene is necessary for viability and efficient protein export. *Nature*, **1992**, 359, 744-6	50.4	259

59	Protein secretion in bacteria: a chemotherapeutic target? **1992**, 163-175		4
58	Genetic fusions as experimental tools. *Methods in Enzymology*, **1991**, 204, 213-48	1.7	51
57	EnvZ controls the concentration of phosphorylated OmpR to mediate osmoregulation of the porin genes. *Journal of Molecular Biology*, **1991**, 222, 567-80	6.5	164
56	Heat-shock proteins DnaK and GroEL facilitate export of LacZ hybrid proteins in E. coli. *Nature*, **1990**, 344, 882-4	50.4	179
55	The genetics of protein secretion in E. coli. *Trends in Genetics*, **1990**, 6, 329-34	8.5	31
54	The sec and prl genes of Escherichia coli. *Journal of Bioenergetics and Biomembranes*, **1990**, 22, 291-310	3.7	172
53	PrlA (SecY) and PrlG (SecE) interact directly and function sequentially during protein translocation in E. coli. *Cell*, **1990**, 61, 833-42	56.2	132
52	Engineering Escherichia coli to secrete heterologous gene products. *Methods in Enzymology*, **1990**, 185, 166-87	1.7	49
51	The genetics of protein targeting in Escherichia coli K12. *Journal of Cell Science*, **1989**, 11, 13-28	5.3	7
50	PrlC, a suppressor of signal sequence mutations in Escherichia coli, can direct the insertion of the signal sequence into the membrane. *Journal of Molecular Biology*, **1989**, 205, 665-76	6.5	23
49	Genetic analysis of the switch that controls porin gene expression in Escherichia coli K-12. *Journal of Molecular Biology*, **1989**, 210, 281-92	6.5	104
48	Transposition of lambda placMu is mediated by the A protein altered at its carboxy-terminal end. *Gene*, **1988**, 71, 177-86	3.8	24
47	Characterization and in vivo cloning of prlC, a suppressor of signal sequence mutations in Escherichia coli K12. *Genetics*, **1987**, 116, 513-21	4	42
46	Gene fusions to the ptsM/pel locus of Escherichia coli. *Molecular Genetics and Genomics*, **1985**, 199, 427-33		16
45	lacZ fusions to genes that specify exported proteins: a general technique. *Molecular Genetics and Genomics*, **1984**, 194, 388-94		13
44	Information within the mature LamB protein necessary for localization to the outer membrane of E coli K12. *Cell*, **1983**, 32, 1325-35	56.2	75
43	Isolation and characterization of mutations altering expression of the major outer membrane porin proteins using the local anaesthetic procaine. *Journal of Molecular Biology*, **1983**, 166, 273-82	6.5	57
42	Genetic analysis of protein export in Escherichia coli. *Methods in Enzymology*, **1983**, 97, 3-11	1.7	19

41	Isolation and characterization of mutants of Escherichia coli K12 affected in protein localization. *Methods in Enzymology*, **1983**, 97, 11-40	1.7	15
40	A previously unidentified gene in the spc operon of Escherichia coli K12 specifies a component of the protein export machinery. *Cell*, **1982**, 31, 227-35	56.2	122
39	Sequence information within the lamB genes in required for proper routing of the bacteriophage lambda receptor protein to the outer membrane of Escherichia coli K-12. *Journal of Molecular Biology*, **1982**, 156, 93-112	6.5	82
38	Genetic analysis of the ompB locus in Escherichia coli K-12. *Journal of Molecular Biology*, **1981**, 151, 1-15	6.5	289
37	The ompB locus and the regulation of the major outer membrane porin proteins of Escherichia coli K12. *Journal of Molecular Biology*, **1981**, 146, 23-43	6.5	304
36	Suppressor mutations that restore export of a protein with a defective signal sequence. *Cell*, **1981**, 23, 79-88	56.2	388
35	The genetics of protein secretion in Escherichia coli. *Methods in Cell Biology*, **1981**, 23, 27-38	1.8	8
34	Genetic studies on mechanisms of protein localization in Escherichia coli K-12. *Journal of Supramolecular Structure*, **1980**, 13, 147-63		13
33	Sequence analysis of mutations that prevent export of lambda receptor, an Escherichia coli outer membrane protein. *Nature*, **1980**, 285, 82-5	50.4	195
32	A signal sequence is not sufficient to lead beta-galactosidase out of the cytoplasm. *Nature*, **1980**, 286, 356-9	50.4	157
31	Conferral of transposable properties to a chromosomal gene in Escherichia coli. *Journal of Molecular Biology*, **1980**, 141, 235-48	6.5	20
30	Mutations affecting localization of an Escherichia coli outer membrane protein, the bacteriophage lambda receptor. *Journal of Molecular Biology*, **1980**, 141, 63-90	6.5	148
29	Structure of the malB region in Escherichia coli K12. II. Genetic map of the malE,F,G operon. *Molecular Genetics and Genomics*, **1979**, 174, 249-59		109
28	The "hidden ligand" of the galactose-binding protein. *FEBS Journal*, **1975**, 54, 163-7		11
27	Involvement of a tryptophan residue in the binding site of Escherichia coli galactose-binding protein. *Biochemistry*, **1974**, 13, 993-9	3.2	28
26	Selection procedure for mutants defective in the beta-methylgalactoside transport system of Escherichia coli utilizing the compound 2R-glyceryl-beta-D-galactopyranoside. *Journal of Bacteriology*, **1974**, 120, 424-32	3.5	6
25	Synthesis and pharmacological activity of 1-(arylsulfonyl)-3,5-dialkyl-s-triazine-2,4,6-(1H,3H,5H)-triones. *Journal of Pharmaceutical Sciences*, **1973**, 62, 1379-81	3.9	3
24	Synthesis of l-(p-iodobenzenesulfonyl)-3,5-di-n-propyl isocyanurate. *Journal of Organic Chemistry*, **1972**, 37, 3357-8	4.2	4

23	Transcription Regulation by the Bacillus subtilis Response Regulator Spo0A159-179	19
22	Flagellar Switch181-199	20
21	Signal Transduction and Cross Regulation in the Escherichia coli Phosphate Regulon by PhoR, CreC, and Acetyl Phosphate201-221	19
20	Signal Transduction in the Arc System for Control of Operons Encoding Aerobic Respiratory Enzymes223-231	16
19	Dual Sensors and Dual Response Regulators Interact to Control Nitrate- and Nitrite-Responsive Gene Expression in Escherichia coli233-252	38
18	Regulation of Capsule Synthesis: Modification of the Two-Component Paradigm by an Accessory Unstable Regulator253-262	45
17	Expression of the Uhp Sugar-Phosphate Transport System of Escherichia coli263-274	16
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