Harris D Bernstein

List of Publications by Year
in descending order

67 papers	4,581 citations	109321 35 h-index	102487 66 g-index
73 all docs	73 docs citations	73 times ranked	3493 citing authors

#	Article	IF	Citations
1	Model for signal sequence recognition from amino-acid sequence of 54K subunit of signal recognition particle. Nature, 1989, 340, 482-486.	27.8	490
2	The surprising complexity of signal sequences. Trends in Biochemical Sciences, 2006, 31, 563-571.	7.5	337
3	The E. coli Signal Recognition Particle Is Required for the Insertion of a Subset of Inner Membrane Proteins. Cell, 1997, 88, 187-196.	28.9	328
4	Protein Secretion in Gram-Negative Bacteria via the Autotransporter Pathway. Annual Review of Microbiology, 2007, 61, 89-112.	7.3	260
5	Enterohemorrhagic Escherichia coli Reduces Mucus and Intermicrovillar Bridges in Human Stem Cell-Derived Colonoids. Cellular and Molecular Gastroenterology and Hepatology, 2016, 2, 48-62.e3.	4.5	195
6	Interaction of an autotransporter passenger domain with BamA during its translocation across the bacterial outer membrane. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 19120-19125.	7.1	171
7	Autotransporter structure reveals intra-barrel cleavage followed by conformational changes. Nature Structural and Molecular Biology, 2007, 14, 1214-1220.	8.2	151
8	Sequential and spatially restricted interactions of assembly factors with an autotransporter Î² domain. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E383-91.	7.1	129
9	Translation Arrest Requires Two-Way Communication between a Nascent Polypeptide and the Ribosome. Molecular Cell, 2006, 22, 587-598.	9.7	119
10	From The Cover: An unusual signal peptide facilitates late steps in the biogenesis of a bacterial autotransporter. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 221-226.	7.1	118
11	Signal Recognition Particle (SRP)-mediated Targeting and Sec-dependent Translocation of an Extracellular Escherichia coli Protein. Journal of Biological Chemistry, 2003, 278, 4654-4659.	3.4	107
12	Cleavage of a bacterial autotransporter by an evolutionarily convergent autocatalytic mechanism. EMBO Journal, 2007, 26, 1942-1952.	7.8	102
13	Efficient secretion of a folded protein domain by a monomeric bacterial autotransporter. Molecular Microbiology, 2005, 58, 945-958.	2.5	100
14	The Plasticity of a Translation Arrest Motif Yields Insights into Nascent Polypeptide Recognition inside the Ribosome Tunnel. Molecular Cell, 2009, 34, 201-211.	9.7	98
15	Reconstitution of bacterial autotransporter assembly using purified components. ELife, 2014, 3, e04234.	6.0	93
16	Secretion of a bacterial virulence factor is driven by the folding of a C-terminal segment. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 17739-17744.	7.1	90
17	Bacterial outer membrane proteins assemble via asymmetric interactions with the BamA Î²-barrel. Nature Communications, 2019, 10, 3358.	12.8	90
18	Incorporation of a polypeptide segment into the Î²â€domain pore during the assembly of a bacterial autotransporter. Molecular Microbiology, 2008, 67, 188-201.	2.5	88

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19	Surface-Exposed Lipoproteins: An Emerging Secretion Phenomenon in Gram-Negative Bacteria. Trends in Microbiology, 2016, 24, 198-208.	7.7	87
20	Mechanistic link between Î² barrel assembly and the initiation of autotransporter secretion. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E938-47.	7.1	80
21	SecA Is Required for the Insertion of Inner Membrane Proteins Targeted by the Escherichia coli Signal Recognition Particle. Journal of Biological Chemistry, 1999, 274, 8993-8997.	3.4	72
22	Trigger Factor Retards Protein Export in Escherichia coli. Journal of Biological Chemistry, 2002, 277, 43527-43535.	3.4	70
23	Basic Amino Acids in a Distinct Subset of Signal Peptides Promote Interaction with the Signal Recognition Particle. Journal of Biological Chemistry, 2003, 278, 46155-46162.	3.4	68
24	The shape of the bacterial ribosome exit tunnel affects cotranslational protein folding. ELife, 2018, 7, .	6.0	65
25	Physiological Basis for Conservation of the Signal Recognition Particle Targeting Pathway in Escherichia coli. Journal of Bacteriology, 2001, 183, 2187-2197.	2.2	64
26	Analysis of the Outer Membrane Proteome and Secretome of Bacteroides fragilis Reveals a Multiplicity of Secretion Mechanisms. PLoS ONE, 2015, 10, e0117732.	2.5	64
27	An Unusual Signal Peptide Extension Inhibits the Binding of Bacterial Presecretory Proteins to the Signal Recognition Particle, Trigger Factor, and the SecYEG Complex. Journal of Biological Chemistry, 2006, 281, 9038-9048.	3.4	57
28	A Mutation in the Escherichia coli secY Gene That Produces Distinct Effects on Inner Membrane Protein Insertion and Protein Export. Journal of Biological Chemistry, 1998, 273, 12451-12456.	3.4	51
29	Are bacterial â€˜autotransportersâ€™ really transporters?. Trends in Microbiology, 2007, 15, 441-447.	7.7	50
30	The Bam complex catalyzes efficient insertion of bacterial outer membrane proteins into membrane vesicles of variable lipid composition. Journal of Biological Chemistry, 2018, 293, 2959-2973.	3.4	50
31	The N-Domain of the Signal Recognition Particle 54-kDa Subunit Promotes Efficient Signal Sequence Binding. FEBS Journal, 1997, 245, 720-729.	0.2	48
32	Genomic Diversity of Enterotoxigenic Strains of Bacteroides fragilis. PLoS ONE, 2016, 11, e0158171.	2.5	47
33	Cryo-EM structures reveal multiple stages of bacterial outer membrane protein folding. Cell, 2022, 185, 1143-1156.e13.	28.9	45
34	The biogenesis and assembly of bacterial membrane proteins. Current Opinion in Microbiology, 2000, 3, 203-209.	5.1	42
35	Looks can be deceiving: recent insights into the mechanism of protein secretion by the autotransporter pathway. Molecular Microbiology, 2015, 97, 205-215.	2.5	41
36	Molecular Basis for the Activation of a Catalytic Asparagine Residue in a Self-Cleaving Bacterial Autotransporter. Journal of Molecular Biology, 2012, 415, 128-142.	4.2	40

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37	Folding of a bacterial integral outer membrane protein is initiated in the periplasm. Nature Communications, 2017, 8, 1309.	12.8	35
38	Charge-dependent secretion of an intrinsically disordered protein via the autotransporter pathway. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E4246-55.	7.1	34
39	Of linkers and autochaperones: an unambiguous nomenclature to identify common and uncommon themes for autotransporter secretion. Molecular Microbiology, 2015, 95, 1-16.	2.5	34
40	DnaK Promotes the Selective Export of Outer Membrane Protein Precursors in SecA-deficient Escherichia coli. Journal of Biological Chemistry, 2002, 277, 51077-51083.	3.4	31
41	The conformation of a nascent polypeptide inside the ribosome tunnel affects protein targeting and protein folding. Molecular Microbiology, 2010, 78, 203-217.	2.5	30
42	The Structure of Multiple Polypeptide Domains Determines the Signal Recognition Particle Targeting Requirement of Escherichia coli Inner Membrane Proteins. Journal of Bacteriology, 1999, 181, 4561-4567.	2.2	29
43	Bacterial Outer Membrane Proteins Are Targeted to the Bam Complex by Two Parallel Mechanisms. MBio, 2021, 12, .	4.1	26
44	The translational regulatory function of SecM requires the precise timing of membrane targeting. Molecular Microbiology, 2011, 81, 540-553.	2.5	25
45	Sequential translocation of an <i>Escherichia coli</i> twoâ€partner secretion pathway exoprotein across the inner and outer membranes. Molecular Microbiology, 2010, 75, 440-451.	2.5	18
46	Stepwise Folding of an Autotransporter Passenger Domain Is Not Essential for Its Secretion. Journal of Biological Chemistry, 2013, 288, 35028-35038.	3.4	18
47	Function of the Omp85 Superfamily of Outer Membrane Protein Assembly Factors and Polypeptide Transporters. Annual Review of Microbiology, 2022, 76, 259-279.	7.3	18
48	Type V Secretion in Gram-Negative Bacteria. EcoSal Plus, 2019, 8, .	5.4	17
49	Selective pressure for rapid membrane integration constrains the sequence of bacterial outer membrane proteins. Molecular Microbiology, 2017, 106, 777-792.	2.5	16
50	Chaperone OsmY facilitates the biogenesis of a major family of autotransporters. Molecular Microbiology, 2019, 112, 1373-1387.	2.5	16
51	Residues in a Conserved Î±-Helical Segment Are Required for Cleavage but Not Secretion of an Escherichia coli Serine Protease Autotransporter Passenger Domain. Journal of Bacteriology, 2011, 193, 3748-3756.	2.2	13
52	Mutations in the Escherichia coli Ribosomal Protein L22 Selectively Suppress the Expression of a Secreted Bacterial Virulence Factor. Journal of Bacteriology, 2013, 195, 2991-2999.	2.2	13
53	Molecular Basis for the Structural Stability of an Enclosed Î²-Barrel Loop. Journal of Molecular Biology, 2010, 402, 475-489.	4.2	12
54	Characterization of a Novel Two-Partner Secretion System in Escherichia coli O157:H7. Journal of Bacteriology, 2007, 189, 3452-3461.	2.2	11

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55	Identification of a novel postâ€insertion step in the assembly of a bacterial outer membrane protein. Molecular Microbiology, 2018, 110, 143-159.	2.5	11
56	Protein targeting: Getting into the groove. Current Biology, 1998, 8, R715-R718.	3.9	10
57	Sequential Translocation of Polypeptides across the Bacterial Outer Membrane through the Trimeric Autotransporter Pathway. MBio, 2019, 10, .	4.1	10
58	The double life of a bacterial lipoprotein. Molecular Microbiology, 2011, 79, 1128-1131.	2.5	7
59	The Escherichia coli outer membrane protein OmpA acquires secondary structure prior to its integration into the membrane. Journal of Biological Chemistry, 2022, 298, 101802.	3.4	7
60	Type V Secretion: the Autotransporter and Two-Partner Secretion Pathways. EcoSal Plus, 2010, 4, .	5.4	6
61	Bam complex-mediated assembly of bacterial outer membrane proteins synthesized in an in vitro translation system. Scientific Reports, 2020, 10, 4557.	3.3	6
62	Reconstitution of Bam Complex-Mediated Assembly of a Trimeric Porin into Proteoliposomes. MBio, 2021, 12, e0169621.	4.1	6
63	All clear for ribosome landing. Nature, 2012, 492, 189-191.	27.8	3
64	A clostripainâ€like protease plays a major role in generating the secretome of enterotoxigenic <i>Bacteroides fragilis</i>. Molecular Microbiology, 2021, 115, 290-304.	2.5	3
65	Monitoring the Assembly of a Secreted Bacterial Virulence Factor Using Site-specific Crosslinking. Journal of Visualized Experiments, 2013, , e51217.	0.3	2
66	An In Vitro Assay for Outer Membrane Protein Assembly by the BAM Complex. Methods in Molecular Biology, 2015, 1329, 203-213.	0.9	2
67	Type V Secretion in Gram-Negative Bacteria. , 0, , 307-318.		0