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	Cryo-EM structures reveal multiple stages of bacterial outer membrane protein folding. Cell, 2022, 185, 1143-1156.e13.	28.9	45
2	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
3	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
4	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
5	Bacterial Outer Membrane Proteins Are Targeted to the Bam Complex by Two Parallel Mechanisms. MBio, 2021, 12, .	4.1	26
6	Reconstitution of Bam Complex-Mediated Assembly of a Trimeric Porin into Proteoliposomes. MBio, 2021, 12, e0169621.	4.1	6
7	Bam complex-mediated assembly of bacterial outer membrane proteins synthesized in an in vitro translation system. Scientific Reports, 2020, 10, 4557.	3.3	6
8	Bacterial outer membrane proteins assemble via asymmetric interactions with the BamA Î²-barrel. Nature Communications, 2019, 10, 3358.	12.8	90
9	Chaperone OsmY facilitates the biogenesis of a major family of autotransporters. Molecular Microbiology, 2019, 112, 1373-1387.	2.5	16
10	Sequential Translocation of Polypeptides across the Bacterial Outer Membrane through the Trimeric Autotransporter Pathway. MBio, 2019, 10, .	4.1	10
11	Type V Secretion in Gram-Negative Bacteria. EcoSal Plus, 2019, 8, .	5.4	17
12	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
13	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
14	The shape of the bacterial ribosome exit tunnel affects cotranslational protein folding. ELife, 2018, 7, .	6.0	65
15	Selective pressure for rapid membrane integration constrains the sequence of bacterial outer membrane proteins. Molecular Microbiology, 2017, 106, 777-792.	2.5	16
16	Folding of a bacterial integral outer membrane protein is initiated in the periplasm. Nature Communications, 2017, 8, 1309.	12.8	35
17	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
18	Surface-Exposed Lipoproteins: An Emerging Secretion Phenomenon in Gram-Negative Bacteria. Trends in Microbiology, 2016, 24, 198-208.	7.7	87

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19	Genomic Diversity of Enterotoxigenic Strains of Bacteroides fragilis. PLoS ONE, 2016, 11, e0158171.	2.5	47
20	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
21	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
22	An In Vitro Assay for Outer Membrane Protein Assembly by the BAM Complex. Methods in Molecular Biology, 2015, 1329, 203-213.	0.9	2
23	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
24	Reconstitution of bacterial autotransporter assembly using purified components. ELife, 2014, 3, e04234.	6.0	93
25	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
26	Stepwise Folding of an Autotransporter Passenger Domain Is Not Essential for Its Secretion. Journal of Biological Chemistry, 2013, 288, 35028-35038.	3.4	18
27	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
28	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
29	Monitoring the Assembly of a Secreted Bacterial Virulence Factor Using Site-specific Crosslinking. Journal of Visualized Experiments, 2013, , e51217.	0.3	2
30	All clear for ribosome landing. Nature, 2012, 492, 189-191.	27.8	3
31	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
32	The double life of a bacterial lipoprotein. Molecular Microbiology, 2011, 79, 1128-1131.	2.5	7
33	The translational regulatory function of SecM requires the precise timing of membrane targeting. Molecular Microbiology, 2011, 81, 540-553.	2.5	25
34	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
35	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
36	Type V Secretion: the Autotransporter and Two-Partner Secretion Pathways. EcoSal Plus, 2010, 4, .	5.4	6

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37	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
38	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
39	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
40	Molecular Basis for the Structural Stability of an Enclosed Î²-Barrel Loop. Journal of Molecular Biology, 2010, 402, 475-489.	4.2	12
41	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
42	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
43	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
44	Characterization of a Novel Two-Partner Secretion System in Escherichia coli O157:H7. Journal of Bacteriology, 2007, 189, 3452-3461.	2.2	11
45	Are bacterial â€˜autotransportersâ€™ really transporters?. Trends in Microbiology, 2007, 15, 441-447.	7.7	50
46	Protein Secretion in Gram-Negative Bacteria via the Autotransporter Pathway. Annual Review of Microbiology, 2007, 61, 89-112.	7.3	260
47	Cleavage of a bacterial autotransporter by an evolutionarily convergent autocatalytic mechanism. EMBO Journal, 2007, 26, 1942-1952.	7.8	102
48	Autotransporter structure reveals intra-barrel cleavage followed by conformational changes. Nature Structural and Molecular Biology, 2007, 14, 1214-1220.	8.2	151
49	Translation Arrest Requires Two-Way Communication between a Nascent Polypeptide and the Ribosome. Molecular Cell, 2006, 22, 587-598.	9.7	119
50	The surprising complexity of signal sequences. Trends in Biochemical Sciences, 2006, 31, 563-571.	7.5	337
51	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
52	Efficient secretion of a folded protein domain by a monomeric bacterial autotransporter. Molecular Microbiology, 2005, 58, 945-958.	2.5	100
53	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
54	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

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55	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
56	Trigger Factor Retards Protein Export in Escherichia coli. Journal of Biological Chemistry, 2002, 277, 43527-43535.	3.4	70
57	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
58	Physiological Basis for Conservation of the Signal Recognition Particle Targeting Pathway in Escherichia coli. Journal of Bacteriology, 2001, 183, 2187-2197.	2.2	64
59	The biogenesis and assembly of bacterial membrane proteins. Current Opinion in Microbiology, 2000, 3, 203-209.	5.1	42
60	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
61	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
62	Protein targeting: Getting into the groove. Current Biology, 1998, 8, R715-R718.	3.9	10
63	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
64	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
65	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
66	Model for signal sequence recognition from amino-acid sequence of 54K subunit of signal recognition particle. Nature, 1989, 340, 482-486.	27.8	490
67	Type V Secretion in Gram-Negative Bacteria. , 0, , 307-318.		0