Eitan Bibi

List of Publications by Year
in descending order

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50 papers	2,278 citations	201674 27 h-index	214800 47 g-index
73 all docs	73 docs citations	73 times ranked	1776 citing authors

#	Article	IF	Citations
1	FtsY, the Prokaryotic Signal Recognition Particle Receptor Homologue, Is Essential for Biogenesis of Membrane Proteins. Journal of Biological Chemistry, 1997, 272, 2053-2055.	3.4	146
2	A single membrane-embedded negative charge is critical for recognizing positively charged drugs by the Escherichia coli multidrug resistance protein MdfA. EMBO Journal, 1999, 18, 822-832.	7.8	127
3	Bacterial multidrug transport through the lens of the major facilitator superfamily. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2009, 1794, 738-747.	2.3	110
4	Alkalitolerance: A biological function for a multidrug transporter in pH homeostasis. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 14073-14078.	7.1	108
5	New prospects in studying the bacterial signal recognition particle pathway. Molecular Microbiology, 2002, 38, 927-939.	2.5	105
6	Dissection of Mechanistic Principles of a Secondary Multidrug Efflux Protein. Molecular Cell, 2012, 47, 777-787.	9.7	99
7	Escherichia coli Signal Recognition Particle Receptor FtsY Contains an Essential and Autonomous Membrane-binding Amphipathic Helix. Journal of Biological Chemistry, 2007, 282, 32176-32184.	3.4	93
8	Studying membrane proteins through the eyes of the genetic code revealed a strong uracil bias in their coding mRNAs. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 6662-6666.	7.1	87
9	Do physiological roles foster persistence of drug/multidrug-efflux transporters? A case study. Nature Reviews Microbiology, 2005, 3, 566-572.	28.6	86
10	The <i>Escherichia coli</i> multidrug transporter MdfA catalyzes both electrogenic and electroneutral transport reactions. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 1667-1672.	7.1	80
11	Evidence for Simultaneous Binding of Dissimilar Substrates by the <i>Escherichia coli</i> Multidrug Transporter MdfA. Biochemistry, 2001, 40, 12612-12618.	2.5	79
12	mRNA-programmed translation pauses in the targeting of E. coli membrane proteins. ELife, 2014, 3, .	6.0	71
13	Promiscuity in multidrug recognition and transport:â€¨ the bacterial MFS Mdr transporters. Molecular Microbiology, 2006, 61, 277-284.	2.5	70
14	Accumulation of endoplasmic membranes and novel membrane-bound ribosomeâ€“signal recognition particle receptor complexes in Escherichia coli. Journal of Cell Biology, 2002, 159, 403-410.	5.2	66
15	Translation- and SRP-independent mRNA targeting to the endoplasmic reticulum in the yeast <i>Saccharomyces cerevisiae</i>. Molecular Biology of the Cell, 2013, 24, 3069-3084.	2.1	66
16	Determinants of Substrate Recognition by the Escherichia coli Multidrug Transporter MdfA Identified on Both Sides of the Membrane. Journal of Biological Chemistry, 2004, 279, 8957-8965.	3.4	60
17	The Core Escherichia coli Signal Recognition Particle Receptor Contains Only the N and G Domains of FtsY. Journal of Bacteriology, 2004, 186, 2492-2494.	2.2	52
18	Role of a Conserved Membrane-Embedded Acidic Residue in the Multidrug Transporter MdfA. Biochemistry, 2004, 43, 518-525.	2.5	48

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19	Promiscuity in the Geometry of Electrostatic Interactions between the Escherichia coli Multidrug Resistance Transporter MdfA and Cationic Substrates. Journal of Biological Chemistry, 2005, 280, 2721-2729.	3.4	43
20	Evidence for coupling of membrane targeting and function of the signal recognition particle (SRP) receptor FtsY. EMBO Reports, 2001, 2, 1040-1046.	4.5	42
21	Membrane Targeting of Ribosomes and Their Release Require Distinct and Separable Functions of FtsY. Journal of Biological Chemistry, 2007, 282, 32168-32175.	3.4	42
22	3D Model of the <i>Escherichia coli</i> Multidrug Transporter MdfA Reveals an Essential Membrane-Embedded Positive Charge. Biochemistry, 2005, 44, 14870-14880.	2.5	41
23	Early targeting events during membrane protein biogenesis in Escherichia coli. Biochimica Et Biophysica Acta - Biomembranes, 2011, 1808, 841-850.	2.6	37
24	Putative integral membrane SRP receptors. Trends in Biochemical Sciences, 2001, 26, 15-16.	7.5	36
25	Manipulating the drug/proton antiport stoichiometry of the secondary multidrug transporter MdfA. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 12473-12478.	7.1	36
26	The Secondary Multidrug/Proton Antiporter MdfA Tolerates Displacements of an Essential Negatively Charged Side Chain. Journal of Biological Chemistry, 2009, 284, 6966-6971.	3.4	34
27	Identification and characterization of the Escherichia coli stress protein UP12, a putative in vivo substrate of GroEL. FEBS Journal, 2002, 269, 3032-3040.	0.2	30
28	Membrane Topology of the Multidrug Transporter MdfA: Complementary Gene Fusion Studies Reveal a Nonessential C-Terminal Domain. Journal of Bacteriology, 2002, 184, 3313-3320.	2.2	28
29	Is there a twist in the Escherichia coli signal recognition particle pathway?. Trends in Biochemical Sciences, 2012, 37, 1-6.	7.5	28
30	Export of a single drug molecule in two transport cycles by a multidrug efflux pump. Nature Communications, 2014, 5, 4615.	12.8	28
31	A New Critical Conformational Determinant of Multidrug Efflux by an MFS Transporter. Journal of Molecular Biology, 2018, 430, 1368-1385.	4.2	27
32	No Single Irreplaceable Acidic Residues in the <i>Escherichia coli</i> Secondary Multidrug Transporter MdfA. Journal of Bacteriology, 2006, 188, 5635-5639.	2.2	25
33	MdfA from <i>Escherichia coli</i>, a Model Protein for Studying Secondary Multidrug Transport. Journal of Molecular Microbiology and Biotechnology, 2006, 11, 308-317.	1.0	25
34	The fascinating but mysterious mechanistic aspects of multidrug transport by MdfA from Escherichia coli. Research in Microbiology, 2018, 169, 455-460.	2.1	25
35	Genetic Evidence for Functional Interaction of the Escherichia coli Signal Recognition Particle Receptor with Acidic Lipids in Vivo. Journal of Biological Chemistry, 2010, 285, 40508-40514.	3.4	24
36	Probing the solution structure of the E. coli multidrug transporter MdfA using DEER distance measurements with nitroxide and Gd(III) spin labels. Scientific Reports, 2019, 9, 12528.	3.3	23

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37	E. coli Multidrug Transporter MdfA Is a Monomer. Biochemistry, 2007, 46, 5200-5208.	2.5	20
38	Model Uracil-Rich RNAs and Membrane Protein mRNAs Interact Specifically with Cold Shock Proteins in Escherichia coli. PLoS ONE, 2015, 10, e0134413.	2.5	19
39	Membrane Protein Biogenesis in Ffh- or FtsY-Depleted Escherichia coli. PLoS ONE, 2010, 5, e9130.	2.5	18
40	Escherichia coli SRP, Its Protein Subunit Ffh, and the Ffh M Domain Are Able To Selectively Limit Membrane Protein Expression When Overexpressed. MBio, 2010, 1, .	4.1	18
41	A Promiscuous Conformational Switch in the Secondary Multidrug Transporter MdfA. Journal of Biological Chemistry, 2009, 284, 32296-32304.	3.4	17
42	The Multidrug Transporter MdfA Deviates from the Canonical Model of Alternating Access of MFS Transporters. Journal of Molecular Biology, 2020, 432, 5665-5680.	4.2	16
43	Evidence for a cytoplasmic pool of ribosome-free mRNAs encoding inner membrane proteins in Escherichia coli. PLoS ONE, 2017, 12, e0183862.	2.5	12
44	Co-translational membrane association of the <i>Escherichia coli</i> SRP receptor. Journal of Cell Science, 2015, 128, 1444-1452.	2.0	11
45	Co-translational Folding Intermediate Dictates Membrane Targeting of the Signal Recognition Particle Receptor. Journal of Molecular Biology, 2018, 430, 1607-1620.	4.2	8
46	The Bioterrorism Threat and Dual-use Biotechnological Research: An Israeli Perspective. Science and Engineering Ethics, 2010, 16, 85-97.	2.9	5
47	Substrate binding in the multidrug transporter MdfA in detergent solution and in lipid nanodiscs. Biophysical Journal, 2021, 120, 1984-1993.	0.5	3
48	Co-Translational Membrane Targeting and Holo-Translocon Docking of Ribosomes Translating the SRP Receptor. Journal of Molecular Biology, 2022, 434, 167459.	4.2	2
49	Co-and Posttranslational Protein Targeting to the SecYEG Translocon in<i>Escherichia coli</i>. , 0, , 1-15.		0
50	Divide and conquer: processive transport enables multidrug transporters to tackle challenging drugs. Microbial Cell, 2014, 1, 349-351.	3.2	0