Eitan Bibi

List of Publications by Year in Descending Order

51 papers	2,005 citations	27 h-index	44 g-index
73 ext. papers	2,171 ext. citations	6.3 avg, IF	4.87 L-index

#	Paper	IF	Citations
51	Co-translational membrane targeting and holo-translocon docking of ribosomes translating the SRP receptor.. *Journal of Molecular Biology*, **2022**, 434, 167459	6.5	
50	Substrate binding in the multidrug transporter MdfA in detergent solution and in lipid nanodiscs. *Biophysical Journal*, **2021**, 120, 1984-1993	2.9	2
49	The Multidrug Transporter MdfA Deviates from the Canonical Model of Alternating Access of MFS Transporters. *Journal of Molecular Biology*, **2020**, 432, 5665-5680	6.5	8
48	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	4.9	14
47	Co-translational Folding Intermediate Dictates Membrane Targeting of the Signal Recognition Particle Receptor. *Journal of Molecular Biology*, **2018**, 430, 1607-1620	6.5	7
46	A New Critical Conformational Determinant of Multidrug Efflux by an MFS Transporter. *Journal of Molecular Biology*, **2018**, 430, 1368-1385	6.5	20
45	The fascinating but mysterious mechanistic aspects of multidrug transport by MdfA from Escherichia coli. *Research in Microbiology*, **2018**, 169, 455-460	4	19
44	Evidence for a cytoplasmic pool of ribosome-free mRNAs encoding inner membrane proteins in Escherichia coli. *PLoS ONE*, **2017**, 12, e0183862	3.7	7
43	Co-translational membrane association of the Escherichia coli SRP receptor. *Journal of Cell Science*, **2015**, 128, 1444-52	5.3	11
42	Model Uracil-Rich RNAs and Membrane Protein mRNAs Interact Specifically with Cold Shock Proteins in Escherichia coli. *PLoS ONE*, **2015**, 10, e0134413	3.7	12
41	Export of a single drug molecule in two transport cycles by a multidrug efflux pump. *Nature Communications*, **2014**, 5, 4615	17.4	25
40	mRNA-programmed translation pauses in the targeting of E. coli membrane proteins. *ELife*, **2014**, 3,	8.9	60
39	Author response: mRNA-programmed translation pauses in the targeting of E. coli membrane proteins **2014**,		2
38	Divide and conquer: processive transport enables multidrug transporters to tackle challenging drugs. *Microbial Cell*, **2014**, 1, 349-351	3.9	
37	Translation- and SRP-independent mRNA targeting to the endoplasmic reticulum in the yeast Saccharomyces cerevisiae. *Molecular Biology of the Cell*, **2013**, 24, 3069-84	3.5	57
36	Is there a twist in the Escherichia coli signal recognition particle pathway?. *Trends in Biochemical Sciences*, **2012**, 37, 1-6	10.3	27
35	Dissection of mechanistic principles of a secondary multidrug efflux protein. *Molecular Cell*, **2012**, 47, 777-87	17.6	85

34	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, 12473-8	11.5	27
33	Early targeting events during membrane protein biogenesis in Escherichia coli. *Biochimica Et Biophysica Acta - Biomembranes*, **2011**, 1808, 841-50	3.8	36
32	Membrane protein biogenesis in Ffh- or FtsY-depleted Escherichia coli. *PLoS ONE*, **2010**, 5, e9130	3.7	17
31	Genetic evidence for functional interaction of the Escherichia coli signal recognition particle receptor with acidic lipids in vivo. *Journal of Biological Chemistry*, **2010**, 285, 40508-14	5.4	21
30	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,	7.8	16
29	The bioterrorism threat and dual-use biotechnological research: an Israeli perspective. *Science and Engineering Ethics*, **2010**, 16, 85-97	3.1	4
28	The secondary multidrug/proton antiporter MdfA tolerates displacements of an essential negatively charged side chain. *Journal of Biological Chemistry*, **2009**, 284, 6966-71	5.4	29
27	A promiscuous conformational switch in the secondary multidrug transporter MdfA. *Journal of Biological Chemistry*, **2009**, 284, 32296-304	5.4	16
26	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, 6662-6	11.5	66
25	Bacterial multidrug transport through the lens of the major facilitator superfamily. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2009**, 1794, 738-47	4	96
24	E. coli multidrug transporter MdfA is a monomer. *Biochemistry*, **2007**, 46, 5200-8	3.2	17
23	Membrane targeting of ribosomes and their release require distinct and separable functions of FtsY. *Journal of Biological Chemistry*, **2007**, 282, 32168-75	5.4	39
22	Escherichia coli signal recognition particle receptor FtsY contains an essential and autonomous membrane-binding amphipathic helix. *Journal of Biological Chemistry*, **2007**, 282, 32176-84	5.4	83
21	No single irreplaceable acidic residues in the Escherichia coli secondary multidrug transporter MdfA. *Journal of Bacteriology*, **2006**, 188, 5635-9	3.5	23
20	MdfA from Escherichia coli, a model protein for studying secondary multidrug transport. *Journal of Molecular Microbiology and Biotechnology*, **2006**, 11, 308-17	0.9	25
19	Promiscuity in multidrug recognition and transport: the bacterial MFS Mdr transporters. *Molecular Microbiology*, **2006**, 61, 277-84	4.1	56
18	3D model of the Escherichia coli multidrug transporter MdfA reveals an essential membrane-embedded positive charge. *Biochemistry*, **2005**, 44, 14870-80	3.2	38
17	Do physiological roles foster persistence of drug/multidrug-efflux transporters? A case study. *Nature Reviews Microbiology*, **2005**, 3, 566-72	22.2	79

16	Promiscuity in the geometry of electrostatic interactions between the Escherichia coli multidrug resistance transporter MdfA and cationic substrates. *Journal of Biological Chemistry*, **2005**, 280, 2721-9	5.4	37
15	Determinants of substrate recognition by the Escherichia coli multidrug transporter MdfA identified on both sides of the membrane. *Journal of Biological Chemistry*, **2004**, 279, 8957-65	5.4	54
14	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, 14073-8	11.5	101
13	The core Escherichia coli signal recognition particle receptor contains only the N and G domains of FtsY. *Journal of Bacteriology*, **2004**, 186, 2492-4	3.5	50
12	Role of a conserved membrane-embedded acidic residue in the multidrug transporter MdfA. *Biochemistry*, **2004**, 43, 518-25	3.2	45
11	The Escherichia coli 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, 1667-72	11.5	71
10	Identification and characterization of the Escherichia coli stress protein UP12, a putative in vivo substrate of GroEL. *FEBS Journal*, **2002**, 269, 3032-40		29
9	Accumulation of endoplasmic membranes and novel membrane-bound ribosome-signal recognition particle receptor complexes in Escherichia coli. *Journal of Cell Biology*, **2002**, 159, 403-10	7.3	60
8	Membrane topology of the multidrug transporter MdfA: complementary gene fusion studies reveal a nonessential C-terminal domain. *Journal of Bacteriology*, **2002**, 184, 3313-20	3.5	26
7	Evidence for coupling of membrane targeting and function of the signal recognition particle (SRP) receptor FtsY. *EMBO Reports*, **2001**, 2, 1040-6	6.5	39
6	Putative integral membrane SRP receptors. *Trends in Biochemical Sciences*, **2001**, 26, 15-6	10.3	35
5	Evidence for simultaneous binding of dissimilar substrates by the Escherichia coli multidrug transporter MdfA. *Biochemistry*, **2001**, 40, 12612-8	3.2	73
4	New prospects in studying the bacterial signal recognition particle pathway. *Molecular Microbiology* , **2000**, 38, 927-39	4.1	95
3	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, 822-32	13	119
2	FtsY, the prokaryotic signal recognition particle receptor homologue, is essential for biogenesis of membrane proteins. *Journal of Biological Chemistry*, **1997**, 272, 2053-5	5.4	127
1	Co-and Posttranslational Protein Targeting to the SecYEG Translocon in Escherichia coli1-15		