

# Charles M Deber

## List of Publications by Year in descending order

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citations

47006

47  
h-index

58581

82  
g-index

165  
all docs

165  
docs citations

165  
times ranked

7974  
citing authors

#	ARTICLE	IF	CITATIONS
1	Detergent binding explains anomalous SDS-PAGE migration of membrane proteins. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 1760-1765.	7.1	659
2	Non-random Distribution of Amino Acids in the Transmembrane Segments of Human Type I Single Span Membrane Proteins. Journal of Molecular Biology, 1993, 229, 602-608.	4.2	361
3	Roles of Hydrophobicity and Charge Distribution of Cationic Antimicrobial Peptides in Peptide-Membrane Interactions. Journal of Biological Chemistry, 2012, 287, 7738-7745.	3.4	317
4	Proline residues in transmembrane helices: structural or dynamic role?. Biochemistry, 1991, 30, 8919-8923.	2.5	263
5	Basis for Selectivity of Cationic Antimicrobial Peptides for Bacterial Versus Mammalian Membranes. Journal of Biological Chemistry, 2005, 280, 33960-33967.	3.4	244
6	Why cyclic peptides? Complementary approaches to conformations. Accounts of Chemical Research, 1976, 9, 106-113.	15.6	205
7	Cationic Hydrophobic Peptides with Antimicrobial Activity. Antimicrobial Agents and Chemotherapy, 2002, 46, 3585-3590.	3.2	194
8	The structure of "unstructured" regions in peptides and proteins: Role of the polyproline II helix in protein folding and recognition*. Biopolymers, 2005, 80, 179-185.	2.4	181
9	A measure of helical propensity for amino acids in membrane environments. Nature Structural and Molecular Biology, 1994, 1, 368-373.	8.2	171
10	TM Finder: A prediction program for transmembrane protein segments using a combination of hydrophobicity and nonpolar phase helicity scales. Protein Science, 2001, 10, 212-219.	7.6	128
11	Anionic Phospholipids Modulate Peptide Insertion into Membranes. Biochemistry, 1997, 36, 5476-5482.	2.5	115
12	Transmembrane Aromatic Amino Acid Distribution in P-glycoprotein. Journal of Molecular Biology, 1994, 235, 554-564.	4.2	114
13	Peptides in membranes: Helicity and hydrophobicity. Biopolymers, 1995, 37, 295-318.	2.4	108
14	Guidelines for membrane protein engineering derived from de novo designed model peptides. , 1998, 47, 41-62.		105
15	The Affinity of GXXXG Motifs in Transmembrane Helix-Helix Interactions Is Modulated by Long-range Communication. Journal of Biological Chemistry, 2004, 279, 16591-16597.	3.4	103
16	Central nervous system myelin: structure, function, and pathology. Clinical Biochemistry, 1991, 24, 113-134.	1.9	101
17	SDS Micelles as a Membrane-Mimetic Environment for Transmembrane Segments. Biochemistry, 2009, 48, 12096-12103.	2.5	101
18	Cyclic peptides. I. Cyclo(tri-L-prolyl) and derivatives. Synthesis and molecular conformation from nuclear magnetic resonance. Journal of the American Chemical Society, 1971, 93, 4893-4897.	13.7	95

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19	Missense mutations in transmembrane domains of proteins: Phenotypic propensity of polar residues for human disease. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004, 54, 648-656.	2.6	94
20	Glycine and $\beta$ -branched residues support and modulate peptide helicity in membrane environments. <i>FEBS Letters</i> , 1992, 311, 217-220.	2.8	92
21	Aromatic and Cation- $\pi$ Interactions Enhance Helix-Helix Association in a Membrane Environment. <i>Biochemistry</i> , 2007, 46, 9208-9214.	2.5	92
22	Cyclic peptides. 17. Metal and amino acid complexes of cyclo(Pro-Gly) <sub>4</sub> and analogs studied by nuclear magnetic resonance and circular dichroism. <i>Journal of the American Chemical Society</i> , 1977, 99, 4788-4798.	13.7	91
23	Interhelical hydrogen bonds in the CFTR membrane domain. <i>Nature Structural Biology</i> , 2001, 8, 597-601.	9.7	90
24	Method to generate highly stable D-amino acid analogs of bioactive helical peptides using a mirror image of the entire PDB. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 1505-1510.	7.1	89
25	Retention of Native-like Oligomerization States in Transmembrane Segment Peptides: Application to the <i>Escherichia coli</i> Aspartate Receptor. <i>Biochemistry</i> , 2001, 40, 11106-11113.	2.5	88
26	Helix Induction in Antimicrobial Peptides by Alginate in Biofilms. <i>Journal of Biological Chemistry</i> , 2004, 279, 38749-38754.	3.4	88
27	Polar residue tagging of transmembrane peptides. <i>Biopolymers</i> , 2003, 71, 675-685.	2.4	86
28	Uncoupling Hydrophobicity and Helicity in Transmembrane Segments. <i>Journal of Biological Chemistry</i> , 1998, 273, 23645-23648.	3.4	85
29	Packing of Coat Protein Amphipathic and Transmembrane Helices in Filamentous Bacteriophage M13: Role of Small Residues in Protein Oligomerization. <i>Journal of Molecular Biology</i> , 1995, 252, 6-14.	4.2	81
30	Membrane interactions of designed cationic antimicrobial peptides: The two thresholds. <i>Biopolymers</i> , 2008, 89, 360-371.	2.4	78
31	Bromo-A23187: A nonfluorescent calcium ionophore for use with fluorescent probes. <i>Analytical Biochemistry</i> , 1985, 146, 349-352.	2.4	77
32	Membrane protein misassembly in disease. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 1115-1122.	2.6	75
33	Disease-associated mutations in conserved residues of ALK-1 kinase domain. <i>European Journal of Human Genetics</i> , 2003, 11, 279-287.	2.8	73
34	Sequence Context Strongly Modulates Association of Polar Residues in Transmembrane Helices. <i>Journal of Molecular Biology</i> , 2003, 331, 255-262.	4.2	72
35	Peptides in membranes: Lipid-induced secondary structure of substance P. <i>Biopolymers</i> , 1987, 26, S109-S121.	2.4	70
36	Conformations of proline residues in membrane environments. <i>Biopolymers</i> , 1990, 29, 149-157.	2.4	68

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37	Threshold hydrophobicity dictates helical conformations of peptides in membrane environments. , 1998, 39, 465-470.		68
38	Cyclic peptides. V. Proton and carbon-13 nuclear magnetic resonance determination of the preferred .beta. conformation for proline-containing cyclic hexapeptides. Journal of the American Chemical Society, 1973, 95, 258-260.	13.7	65
39	Transmembrane domain mediated self-assembly of major coat protein subunits from Ff bacteriophage11Edited by G. von Heijne. Journal of Molecular Biology, 2002, 315, 63-72.	4.2	64
40	Misfolding of the Cystic Fibrosis Transmembrane Conductance Regulator and Disease. Biochemistry, 2008, 47, 1465-1473.	2.5	62
41	Amino acid composition of the membrane and aqueous domains of integral membrane proteins. Archives of Biochemistry and Biophysics, 1986, 251, 68-76.	3.0	60
42	Therapeutic design of peptide modulators of protein-protein interactions in membranes. Biochimica Et Biophysica Acta - Biomembranes, 2017, 1859, 577-585.	2.6	57
43	Folding proteins into membranes. Nature Structural and Molecular Biology, 1996, 3, 815-818.	8.2	56
44	Conformational Aspects of Polypeptides. VII. Reversal of The Helical Sense of Poly-L-Aspartate Esters. Journal of the American Chemical Society, 1962, 84, 3773-3774.	13.7	55
45	Cyclic peptides. VIII. Carbon-13 and proton nuclear magnetic resonance evidence for slow cis'-trans' rotation in a cyclic tetrapeptide. Journal of the American Chemical Society, 1974, 96, 4015-4017.	13.7	54
46	Polar Residues in Membrane Domains of Proteins:Â Molecular Basis for Helixâ~Helix Association in a Mutant CFTR Transmembrane Segmentâ€. Biochemistry, 2002, 41, 3647-3653.	2.5	53
47	Efficiency of detergents at maintaining membrane protein structures in their biologically relevant forms. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 1351-1358.	2.6	51
48	Acrylamide concentration determines the direction and magnitude of helical membrane protein gel shifts. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 15668-15673.	7.1	50
49	Polar mutations in membrane proteins as a biophysical basis for disease. Biopolymers, 2002, 66, 350-358.	2.4	49
50	Transfer of peptide hormones from aqueous to membrane phases. Biopolymers, 1985, 24, 105-116.	2.4	48
51	Oligomerization of a Peptide Derived from the Transmembrane Region of the Sodium Pump Î³ Subunit: Effect of the Pathological Mutation G41R. Journal of Molecular Biology, 2002, 322, 583-590.	4.2	48
52	Cyclic peptides. Amino acid-cyclic peptides complexes. Journal of the American Chemical Society, 1974, 96, 7566-7568.	13.7	47
53	Optimizing synthesis and expression of transmembrane peptides and proteins. Methods, 2007, 41, 370-380.	3.8	46
54	The Structure and Function of Central Nervous System Myelin. Critical Reviews in Clinical Laboratory Sciences, 1993, 30, 29-64.	6.1	44

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55	Activity of novel non-amphipathic cationic antimicrobial peptides against <i>Candida</i> species. <i>Journal of Antimicrobial Chemotherapy</i> , 2006, 57, 899-907.	3.0	43
56	Positive Charge Patterning and Hydrophobicity of Membrane-Active Antimicrobial Peptides as Determinants of Activity, Toxicity, and Pharmacokinetic Stability. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 6276-6286.	6.4	43
57	NMR investigation of the charge isomers of bovine myelin basic protein. <i>Archives of Biochemistry and Biophysics</i> , 1984, 233, 151-160.	3.0	42
58	Peptide Models of Membrane Protein Folding. <i>Biochemistry</i> , 2009, 48, 3036-3045.	2.5	42
59	Activity of a novel antimicrobial peptide against <i>Pseudomonas aeruginosa</i> biofilms. <i>Scientific Reports</i> , 2018, 8, 14728.	3.3	42
60	Influence of glycine residues on peptide conformation in membran environments. <i>International Journal of Peptide and Protein Research</i> , 1992, 40, 243-248.	0.1	40
61	Putting the $\hat{I}^2$ -breaks on membrane protein misfolding. <i>Nature Structural Biology</i> , 2002, 9, 318-319.	9.7	39
62	A Transmembrane Segment Mimic Derived from <i>Escherichia coli</i> Diacylglycerol Kinase Inhibits Protein Activity. <i>Journal of Biological Chemistry</i> , 2003, 278, 22056-22060.	3.4	38
63	Modulation of Na,K-ATPase by the $\hat{I}^3$ Subunit. <i>Journal of Biological Chemistry</i> , 2003, 278, 40437-40441.	3.4	38
64	Potential-sensitive membrane association of a fluorescent dye. <i>FEBS Letters</i> , 1987, 224, 337-342.	2.8	37
65	A lipid vesicle system for probing voltage-dependent peptide-lipid interactions: Application to alamethicin channel formation. <i>Biopolymers</i> , 1989, 28, 267-272.	2.4	36
66	Minimum energy conformations of proline-containing helices. <i>Biopolymers</i> , 1992, 32, 399-406.	2.4	36
67	Hydrophobic Helical Hairpins: Design and Packing Interactions in Membrane Environments. <i>Biochemistry</i> , 2004, 43, 14361-14369.	2.5	36
68	Transmembrane Domain of Myelin Protein Zero Can Form Dimers: Possible Implications for Myelin Construction. <i>Biochemistry</i> , 2007, 46, 12164-12173.	2.5	36
69	Correction factors for membrane protein molecular weight readouts on sodium dodecyl sulfate-polyacrylamide gel electrophoresis. <i>Analytical Biochemistry</i> , 2013, 434, 67-72.	2.4	34
70	Structure of the EmrE multidrug transporter and its use for inhibitor peptide design. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E7932-E7941.	7.1	34
71	Peptide Mimics of the M13 Coat Protein Transmembrane Segment. <i>Journal of Biological Chemistry</i> , 2000, 275, 16155-16159.	3.4	32
72	Hydrophobic Interactions in Complexes of Antimicrobial Peptides with Bacterial Polysaccharides. <i>Chemical Biology and Drug Design</i> , 2007, 69, 405-412.	3.2	32

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73	Influence of hydrocarbon-stapling on membrane interactions of synthetic antimicrobial peptides. <i>Bioorganic and Medicinal Chemistry</i> , 2018, 26, 1189-1196.	3.0	32
74	Anti-Infectives Restore ORKAMBIÁ® Rescue of F508del-CFTR Function in Human Bronchial Epithelial Cells Infected with Clinical Strains of <i>P. aeruginosa</i> . <i>Biomolecules</i> , 2020, 10, 334.	4.0	32
75	Combining hydrophobicity and helicity: a novel approach to membrane protein structure prediction. <i>Bioorganic and Medicinal Chemistry</i> , 1999, 7, 1-7.	3.0	31
76	Hydrophobicity and helicity of membrane-interactive peptides containing peptoid residues. <i>Biopolymers</i> , 2002, 65, 254-262.	2.4	31
77	Evidence for Assembly of Small Multidrug Resistance Proteins by a "Two-faced" Transmembrane Helix. <i>Journal of Biological Chemistry</i> , 2006, 281, 15546-15553.	3.4	31
78	Expression and Purification of Two Hydrophobic Double-Spanning Membrane Proteins Derived from the Cystic Fibrosis Transmembrane Conductance Regulator. <i>Protein Expression and Purification</i> , 2002, 25, 81-86.	1.3	30
79	Non-Native Interhelical Hydrogen Bonds in the Cystic Fibrosis Transmembrane Conductance Regulator Domain Modulated by Polar Mutations. <i>Biochemistry</i> , 2004, 43, 8077-8083.	2.5	30
80	A novel method for monitoring the cytosolic delivery of peptide cargo. <i>Journal of Controlled Release</i> , 2009, 137, 2-7.	9.9	30
81	Interhelical Packing in Detergent Micelles. <i>Journal of Biological Chemistry</i> , 2002, 277, 6067-6072.	3.4	29
82	Blockade of G Protein-Coupled Receptors and the Dopamine Transporter by a Transmembrane Domain Peptide: Novel Strategy for Functional Inhibition of Membrane Proteins in Vivo. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2003, 307, 481-489.	2.5	29
83	Inside-out Signaling Promotes Dynamic Changes in the Carcinoembryonic Antigen-related Cellular Adhesion Molecule 1 (CEACAM1) Oligomeric State to Control Its Cell Adhesion Properties. <i>Journal of Biological Chemistry</i> , 2013, 288, 29654-29669.	3.4	29
84	Lipid Solvation Effects Contribute to the Affinity of Gly-xxx-Gly Motif-Mediated Helix-Helix Interactions. <i>Biochemistry</i> , 2006, 45, 8507-8515.	2.5	28
85	Peptides as transmembrane segments: Decrypting the determinants for helix-helix interactions in membrane proteins. <i>Biopolymers</i> , 2007, 88, 217-232.	2.4	28
86	Congenital Heart Block Maternal Sera Autoantibodies Target an Extracellular Epitope on the $\text{I} \pm 1\text{G}$ T-Type Calcium Channel in Human Fetal Hearts. <i>PLoS ONE</i> , 2013, 8, e72668.	2.5	28
87	Conformations of neurotensin in solution and in membrane environments studied by $2\text{D}$ NMR spectroscopy. <i>International Journal of Peptide and Protein Research</i> , 1991, 37, 528-535.	0.1	27
88	The Assembly Motif of a Bacterial Small Multidrug Resistance Protein. <i>Journal of Biological Chemistry</i> , 2009, 284, 9870-9875.	3.4	26
89	Protein Structure in Membrane Domains. <i>Annual Review of Biophysics</i> , 2012, 41, 135-155.	10.0	26
90	Efflux by Small Multidrug Resistance Proteins Is Inhibited by Membrane-interactive Helix-stapled Peptides. <i>Journal of Biological Chemistry</i> , 2015, 290, 1752-1759.	3.4	26

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91	A minimal helical-hairpin motif provides molecular-level insights into misfolding and pharmacological rescue of CFTR. <i>Communications Biology</i> , 2018, 1, 154.	4.4	25
92	The position of the Gly-xxx-Gly motif in transmembrane segments modulates dimer affinityThis paper is one of a selection of papers published in this Special Issue, entitled "Membrane Proteins in Health and Disease.. <i>Biochemistry and Cell Biology</i> , 2006, 84, 1006-1012.	2.0	23
93	Self-association of the Transmembrane Domain of an Anthrax Toxin Receptor. <i>Journal of Molecular Biology</i> , 2006, 360, 145-156.	4.2	23
94	Destabilization of the Transmembrane Domain Induces Misfolding in a Phenotypic Mutant of Cystic Fibrosis Transmembrane Conductance Regulator. <i>Journal of Biological Chemistry</i> , 2005, 280, 4968-4974.	3.4	22
95	Cystic fibrosis transmembrane conductance regulator: expression and helicity of a double membrane-spanning segment. <i>FEBS Letters</i> , 1998, 431, 29-33.	2.8	21
96	Role of the Extracellular Loop in the Folding of a CFTR Transmembrane Helical Hairpin. <i>Biochemistry</i> , 2007, 46, 7099-7106.	2.5	20
97	Binding of human normal and multiple sclerosis-derived myelin basic protein to phospholipid vesicles: Effects on membrane head group and bilayer regions. <i>Archives of Biochemistry and Biophysics</i> , 1986, 245, 455-463.	3.0	19
98	Conformation of proline residues in bacteriorhodopsin. <i>Biochemical and Biophysical Research Communications</i> , 1990, 172, 862-869.	2.1	19
99	Functional Rescue of DeltaF508-CFTR by Peptides Designed to Mimic Sorting Motifs. <i>Chemistry and Biology</i> , 2009, 16, 520-530.	6.0	19
100	Positions of Polar Amino Acids Alter Interactions between Transmembrane Segments and Detergents. <i>Biochemistry</i> , 2011, 50, 3928-3935.	2.5	19
101	Drug Efflux by a Small Multidrug Resistance Protein Is Inhibited by a Transmembrane Peptide. <i>Antimicrobial Agents and Chemotherapy</i> , 2012, 56, 3911-3916.	3.2	19
102	Peptide-Based Efflux Pump Inhibitors of the Small Multidrug Resistance Protein from <i>Pseudomonas aeruginosa</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2019, 63, .	3.2	19
103	Modulation of the Oligomerization of Myelin Proteolipid Protein by Transmembrane Helix Interaction Motifs. <i>Biochemistry</i> , 2010, 49, 6896-6902.	2.5	18
104	Complexation of Zn(II) to a native sequence tripeptide of human serum albumin studied by <sup>13</sup> C nuclear magnetic resonance. <i>Canadian Journal of Chemistry</i> , 1980, 58, 757-766.	1.1	17
105	Aqueous solubility and membrane interactions of hydrophobic peptides with peptoid tags. <i>Biopolymers</i> , 2004, 76, 110-118.	2.4	17
106	CFTR transmembrane segments are impaired in their conformational adaptability by a pathogenic loop mutation and dynamically stabilized by Lumacaftor. <i>Journal of Biological Chemistry</i> , 2020, 295, 1985-1991.	3.4	17
107	Isosteric metal complexes of ionophore A23187. <i>FEBS Letters</i> , 1979, 105, 360-364.	2.8	16
108	Manipulation of peptide conformations by fine-tuning of the environment and/or the primary sequence. <i>Biopolymers</i> , 1995, 35, 667-675.	2.4	16

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109	Solubilization of Hydrophobic Peptides by Reversible Cysteine PEGylation. <i>Biochemical and Biophysical Research Communications</i> , 1998, 245, 618-621.	2.1	16
110	Peptide models for protein-mediated cation transport. <i>Canadian Journal of Biochemistry</i> , 1980, 58, 865-870.	1.4	15
111	Calcium transport by ionophorous peptides in dog and human lymphocytes detected by quin-2 fluorescence. <i>Biochemical and Biophysical Research Communications</i> , 1986, 134, 731-735.	2.1	15
112	Evidence for similar function of transmembrane segments in receptor and membrane-anchored proteins. <i>Biopolymers</i> , 1988, 27, 1171-1182.	2.4	15
113	Surface recognition elements of membrane protein oligomerization. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 70, 786-793.	2.6	15
114	The N Terminus of the Qcr7 Protein of the Cytochromebc 1 Complex Is Not Essential for Import into Mitochondria in <i>Saccharomyces cerevisiae</i> but Is Essential for Assembly of the Complex. <i>Journal of Biological Chemistry</i> , 1997, 272, 17495-17501.	3.4	14
115	Membrane interactions of the hydrophobic segment of diacylglycerol kinase epsilon. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2007, 1768, 2549-2558.	2.6	14
116	Membrane protein assembly patterns reflect selection for non-proliferative structures. <i>FEBS Letters</i> , 2007, 581, 1335-1341.	2.8	13
117	Distinctions between Hydrophobic Helices in Globular Proteins and Transmembrane Segments as Factors in Protein Sorting. <i>Journal of Biological Chemistry</i> , 2009, 284, 5395-5402.	3.4	13
118	Loop Sequence Dictates the Secondary Structure of a Human Membrane Protein Hairpin. <i>Biochemistry</i> , 2013, 52, 2419-2426.	2.5	13
119	D-glucose binding increases secondary structure of human erythrocyte monosaccharide transport protein. <i>Biochemical and Biophysical Research Communications</i> , 1987, 145, 1087-1091.	2.1	12
120	Conformations of cyclic peptide/calcium complexes in solution. <i>Biopolymers</i> , 1982, 21, 169-179.	2.4	11
121	Novel Hydrophobic Standards for Membrane Protein Molecular Weight Determinations via Sodium Dodecyl Sulfate <sup>+</sup> Polyacrylamide Gel Electrophoresis. <i>Biochemistry</i> , 2010, 49, 10589-10591.	2.5	11
122	Deletion of a terminal residue disrupts oligomerization of a transmembrane $\alpha$ -helix This paper is one of a selection of papers published in this special issue entitled "Canadian Society of Biochemistry, Molecular & Cellular Biology 52nd Annual Meeting" Protein Folding: Principles and Diseases and has undergone the Journal's usual peer review process.. <i>Biochemistry and Cell Biology</i> , 2010, 88, 339-345.	2.0	11
123	Uncoupling Amphipathicity and Hydrophobicity: Role of Charge Clustering in Membrane Interactions of Cationic Antimicrobial Peptides. <i>Biochemistry</i> , 2021, 60, 2586-2592.	2.5	11
124	Microheterogeneity of bovine myelin basic protein studied by nuclear magnetic resonance spectroscopy. <i>Biopolymers</i> , 1983, 22, 377-380.	2.4	10
125	Beta-branched residues adjacent to GG4 motifs promote the efficient association of glycophorin a transmembrane helices. <i>Biopolymers</i> , 2011, 96, 340-347.	2.4	10
126	Modulation of Substrate Efflux in Bacterial Small Multidrug Resistance Proteins by Mutations at the Dimer Interface. <i>Journal of Bacteriology</i> , 2011, 193, 5929-5935.	2.2	10



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127	Relative role(s) of leucine versus isoleucine in the folding of membrane proteins. <i>Peptide Science</i> , 2019, 111, e24075.	1.8	10
128	Differential Binding of L- vs. D-isomers of Cationic Antimicrobial Peptides to the Biofilm Exopolysaccharide Alginate. <i>Protein and Peptide Letters</i> , 2013, 20, 843-847.	0.9	10
129	The hydrophobicity threshold for peptide insertion into membranes. <i>Current Topics in Membranes</i> , 2002, 52, 465-479.	0.9	9
130	Positional dependence of non-native polar mutations on folding of CFTR helical hairpins. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2008, 1778, 79-87.	2.6	9
131	Sequence Hydropathy Dominates Membrane Protein Response to Detergent Solubilization. <i>Biochemistry</i> , 2012, 51, 6228-6237.	2.5	9
132	Effects of a polar amino acid substitution on helix formation and aggregate size along the detergent-induced peptide folding pathway. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 373-381.	2.6	9
133	Peptide-Based Approach to Inhibition of the Multidrug Resistance Efflux Pump AcrB. <i>Biochemistry</i> , 2020, 59, 3973-3981.	2.5	9
134	Conjugation of Polyethylene Glycol via a Disulfide Bond Confers Water Solubility upon a Peptide Model of a Protein Transmembrane Segment. <i>Analytical Biochemistry</i> , 1999, 275, 224-230.	2.4	8
135	Helicity of hydrophobic peptides in polar vs. non-polar environments. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 1539.	2.8	8
136	Transmembrane segment peptides with double D-amino acid replacements: Helicity, hydrophobicity, and antimicrobial activity. <i>Biopolymers</i> , 2003, 71, 77-84.	2.4	8
137	Functional response of the small multidrug resistance protein EmrE to mutations in transmembrane helix 2. <i>FEBS Letters</i> , 2014, 588, 3720-3725.	2.8	7
138	Helix-Helix Interactions: Is the Medium the Message?. <i>Structure</i> , 2015, 23, 437-438.	3.3	7
139	Evidence that the translocon may function as a hydropathy partitioning filter. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2010, 1798, 1995-1998.	2.6	5
140	Converting a Marginally Hydrophobic Soluble Protein into a Membrane Protein. <i>Journal of Molecular Biology</i> , 2011, 407, 171-179.	4.2	5
141	Structural basis for misfolding at a disease phenotypic position in CFTR: Comparison of TM3/4 helix-loop-helix constructs with TM4 peptides. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 49-54.	2.6	5
142	Hydrophobic Blocks Facilitate Lipid Compatibility and Translocon Recognition of Transmembrane Protein Sequences. <i>Biochemistry</i> , 2015, 54, 1465-1473.	2.5	5
143	Structural effects of extracellular loop mutations in CFTR helical hairpins. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 1092-1098.	2.6	5
144	[4] Use of ionophores for manipulating intracellular ion concentrations. <i>Methods in Neurosciences</i> , 1995, 27, 52-68.	0.5	4

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145	Terminal Residue Hydrophobicity Modulates Transmembrane Helix-Helix Interactions. <i>Biochemistry</i> , 2014, 53, 3747-3757.	2.5	4
146	Structural impact of proline mutations in the loop region of an ancestral membrane protein. <i>Biopolymers</i> , 2016, 106, 37-42.	2.4	4
147	Hydrophobic Clusters Raise the Threshold Hydrophilicity for Insertion of Transmembrane Sequences in Vivo. <i>Biochemistry</i> , 2016, 55, 5772-5779.	2.5	4
148	Modulating Transmembrane $\alpha$ -Helix Interactions through pH-Sensitive Boundary Residues. <i>Biochemistry</i> , 2016, 55, 4306-4315.	2.5	4
149	Heat treatment of thioredoxin fusions increases the purity of $\alpha$ -helical transmembrane protein constructs. <i>Protein Science</i> , 2021, 30, 1974-1982.	7.6	4
150	The modulation of bovine milk d-galactosyltransferase by various phosphatidylethanolamines. <i>Carbohydrate Research</i> , 1986, 149, 47-58.	2.3	3
151	Design of Transmembrane Peptides: Coping with Sticky Situations. <i>Methods in Molecular Biology</i> , 2013, 1063, 197-210.	0.9	3
152	Design and Characterization of a Membrane Protein Unfolding Platform in Lipid Bilayers. <i>PLoS ONE</i> , 2015, 10, e0120253.	2.5	3
153	Enhanced proteolytic resistance of cationic antimicrobial peptides through lysine side chain analogs and cyclization. <i>Biochemical and Biophysical Research Communications</i> , 2022, 612, 105-109.	2.1	3
154	Design, expression, and purification of de novo transmembrane $\alpha$ -hairpin peptides. <i>Biopolymers</i> , 2012, 98, 546-556.	2.4	2
155	Deuterated Digoxin. <i>Analytical Letters</i> , 1989, 22, 2783-2790.	1.8	1
156	3 Membrane protein folding in detergents. , 2011, , 23-46.		1
157	Protection or Destruction: The LL-37/HNP1 Cooperativity Switch. <i>Biophysical Journal</i> , 2020, 119, 2370-2371.	0.5	1
158	Defining the Defect in F508 del CFTR: A Soluble Problem?. <i>Chemistry and Biology</i> , 2008, 15, 3-4.	6.0	0
159	Mechanistic Insight into Peptide-Based Efflux Pump Inhibitors Against Pathogenic Bacteria. <i>Biophysical Journal</i> , 2021, 120, 74a.	0.5	0
160	Peptide-Based Inhibition of AcrB Efflux Activity. <i>Biophysical Journal</i> , 2021, 120, 70a.	0.5	0