

# Judith Storch

## List of Publications by Citations

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109  
papers

5,107  
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42  
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69  
g-index

115  
ext. papers

5,656  
ext. citations

4.7  
avg, IF

5.66  
L-index

#	Paper	IF	Citations
109	The fatty acid transport function of fatty acid-binding proteins. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2000</b> , 1486, 28-44	5	360
108	The emerging functions and mechanisms of mammalian fatty acid-binding proteins. <i>Annual Review of Nutrition</i> , <b>2008</b> , 28, 73-95	9.9	298
107	Tissue-specific functions in the fatty acid-binding protein family. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 32679-32683	5.4	208
106	Structural and functional analysis of fatty acid-binding proteins. <i>Journal of Lipid Research</i> , <b>2009</b> , 50 Suppl, S126-31	6.3	170
105	Mechanism of cholesterol transfer from the Niemann-Pick type C2 protein to model membranes supports a role in lysosomal cholesterol transport. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 31594-604	5.4	165
104	Fatty acid transfer from liver and intestinal fatty acid-binding proteins to membranes occurs by different mechanisms. <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 13317-23	5.4	158
103	Mechanisms of inhibition of triacylglycerol hydrolysis by human gastric lipase. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 28070-9	5.4	156
102	Transfer of long-chain fluorescent free fatty acids between unilamellar vesicles. <i>Biochemistry</i> , <b>1986</b> , 25, 1717-26	3.2	155
101	Niemann-Pick C2 (NPC2) and intracellular cholesterol trafficking. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2009</b> , 1791, 671-8	5	136
100	Unravelling the significance of cellular fatty acid-binding proteins. <i>Current Opinion in Lipidology</i> , <b>2001</b> , 12, 267-74	4.4	121
99	Role of portal region lysine residues in electrostatic interactions between heart fatty acid binding protein and phospholipid membranes. <i>Biochemistry</i> , <b>1996</b> , 35, 1296-303	3.2	114
98	The helical domain of intestinal fatty acid binding protein is critical for collisional transfer of fatty acids to phospholipid membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1998</b> , 95, 12174-8	11.5	112
97	Enteroviruses harness the cellular endocytic machinery to remodel the host cell cholesterol landscape for effective viral replication. <i>Cell Host and Microbe</i> , <b>2013</b> , 14, 281-93	23.4	104
96	Enterocyte fatty acid-binding proteins (FABPs): different functions of liver and intestinal FABPs in the intestine. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , <b>2015</b> , 93, 9-16	2.8	91
95	Liver fatty acid-binding protein initiates budding of pre-chylomicron transport vesicles from intestinal endoplasmic reticulum. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 17974-17984	5.4	85
94	Surface lysine residues modulate the collisional transfer of fatty acid from adipocyte fatty acid binding protein to membranes. <i>Biochemistry</i> , <b>1995</b> , 34, 11840-5	3.2	77
93	3-[p-(6-phenyl)-1,3,5-hexatrienyl]phenylpropionic acid (PA-DPH): characterization as a fluorescent membrane probe and binding to fatty acid binding proteins. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>1989</b> , 982, 131-9	3.8	74

92	CGI-58/ABHD5 is a coenzyme A-dependent lysophosphatidic acid acyltransferase. <i>Journal of Lipid Research</i> , <b>2010</b> , 51, 709-19	6.3	73
91	A novel multiprotein complex is required to generate the prechylomicron transport vesicle from intestinal ER. <i>Journal of Lipid Research</i> , <b>2010</b> , 51, 1918-28	6.3	73
90	Regulation of sterol transport between membranes and NPC2. <i>Biochemistry</i> , <b>2008</b> , 47, 11134-43	3.2	67
89	The alpha-helical domain of liver fatty acid binding protein is responsible for the diffusion-mediated transfer of fatty acids to phospholipid membranes. <i>Biochemistry</i> , <b>2004</b> , 43, 3600-7	3.2	66
88	Common mechanisms of monoacylglycerol and fatty acid uptake by human intestinal Caco-2 cells. <i>American Journal of Physiology - Cell Physiology</i> , <b>2001</b> , 281, C1106-17	5.4	65
87	Role of macrophage-expressed adipocyte fatty acid binding protein in the development of accelerated atherosclerosis in hypercholesterolemic mice. <i>FASEB Journal</i> , <b>2001</b> , 15, 2733-5	0.9	64
86	Mechanism of fluorescent fatty acid transfer from adipocyte fatty acid binding protein to membranes. <i>Biochemistry</i> , <b>1993</b> , 32, 8622-7	3.2	64
85	Transfer of long-chain fluorescent fatty acids between small and large unilamellar vesicles. <i>Biochemistry</i> , <b>1993</b> , 32, 2053-61	3.2	61
84	Monoacylglycerol metabolism in human intestinal Caco-2 cells: evidence for metabolic compartmentation and hydrolysis. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 1816-23	5.4	59
83	Dietary induction of acyl chain desaturases alters the lipid composition and fluidity of rat hepatocyte plasma membranes. <i>Biochemistry</i> , <b>1984</b> , 23, 1165-70	3.2	58
82	Solution-state molecular structure of apo and oleate-liganded liver fatty acid-binding protein. <i>Biochemistry</i> , <b>2007</b> , 46, 12543-56	3.2	57
81	Characterization of a BODIPY-labeled fluorescent fatty acid analogue. Binding to fatty acid-binding proteins, intracellular localization, and metabolism. <i>Molecular and Cellular Biochemistry</i> , <b>2007</b> , 299, 67-73	4.2	55
80	Liver and intestinal fatty acid-binding proteins obtain fatty acids from phospholipid membranes by different mechanisms. <i>Journal of Lipid Research</i> , <b>2000</b> , 41, 647-656	6.3	54
79	Efficacy and ototoxicity of different cyclodextrins in Niemann-Pick C disease. <i>Annals of Clinical and Translational Neurology</i> , <b>2016</b> , 3, 366-80	5.3	53
78	Metabolism of apical versus basolateral sn-2-monoacylglycerol and fatty acids in rodent small intestine. <i>Journal of Lipid Research</i> , <b>2008</b> , 49, 1762-9	6.3	52
77	Mechanism of Cholesterol Transfer from the Niemann-Pick Type C2 Protein to Model Membranes Supports a Role in Lysosomal Cholesterol Transport. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 31594-31604	5.4	49
76	Diversity of fatty acid-binding protein structure and function: studies with fluorescent ligands. <i>Molecular and Cellular Biochemistry</i> , <b>1993</b> , 123, 45-53	4.2	48
75	Uptake of micellar long-chain fatty acid and sn-2-monoacylglycerol into human intestinal Caco-2 cells exhibits characteristics of protein-mediated transport. <i>Journal of Nutrition</i> , <b>2005</b> , 135, 1626-30	4.1	47

74	Synthesis of 2-hydroxypropyl- $\beta$ -cyclodextrin/pluronic-based polyrotaxanes via heterogeneous reaction as potential Niemann-Pick type C therapeutics. <i>Biomacromolecules</i> , <b>2013</b> , 14, 4189-97	6.9	46
73	Different functions of intestinal and liver-type fatty acid-binding proteins in intestine and in whole body energy homeostasis. <i>American Journal of Physiology - Renal Physiology</i> , <b>2011</b> , 300, G803-14	5.1	45
72	Adipocyte fatty acid-binding protein: interaction with phospholipid membranes and thermal stability studied by FTIR spectroscopy. <i>Biochemistry</i> , <b>1997</b> , 36, 8311-7	3.2	45
71	Intestinal monoacylglycerol metabolism: developmental and nutritional regulation of monoacylglycerol lipase and monoacylglycerol acyltransferase. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 33346-33357	5.4	44
70	Mechanism of the spontaneous transfer of unconjugated bilirubin between small unilamellar phosphatidylcholine vesicles. <i>Biochemistry</i> , <b>1992</b> , 31, 3184-92	3.2	44
69	Flip-flop is slow and rate limiting for the movement of long chain anthroyloxy fatty acids across lipid vesicles. <i>Biochemistry</i> , <b>1997</b> , 36, 5702-11	3.2	43
68	Global deletion of MGL in mice delays lipid absorption and alters energy homeostasis and diet-induced obesity. <i>Journal of Lipid Research</i> , <b>2015</b> , 56, 1153-71	6.3	42
67	The lipid structure of biological membranes. <i>Trends in Biochemical Sciences</i> , <b>1985</b> , 10, 418-421	10.3	41
66	Hepatic fatty acid uptake is regulated by the sphingolipid acyl chain length. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2014</b> , 1841, 1754-66	5	39
65	Similar mechanisms of fatty acid transfer from human anal rodent fatty acid-binding proteins to membranes: Liver, intestine, heart muscle, and adipose tissue FABPs. <i>Molecular and Cellular Biochemistry</i> , <b>2002</b> , 239, 25-33	4.2	38
64	Role of surface lysine residues of adipocyte fatty acid-binding protein in fatty acid transfer to phospholipid vesicles. <i>Biochemistry</i> , <b>2001</b> , 40, 6475-85	3.2	38
63	Calcium alters the acyl chain composition and lipid fluidity of rat hepatocyte plasma membranes in vitro. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>1985</b> , 812, 473-84	3.8	38
62	Deletion of the helical motif in the intestinal fatty acid-binding protein reduces its interactions with membrane monolayers: Brewster angle microscopy, IR reflection-absorption spectroscopy, and surface pressure studies. <i>Biochemistry</i> , <b>2001</b> , 40, 1976-83	3.2	37
61	Fatty acid binding sites of rodent adipocyte and heart fatty acid binding proteins: characterization using fluorescent fatty acids. <i>Biochemistry</i> , <b>1990</b> , 29, 9305-11	3.2	37
60	Over-expression of monoacylglycerol lipase (MGL) in small intestine alters endocannabinoid levels and whole body energy balance, resulting in obesity. <i>PLoS ONE</i> , <b>2012</b> , 7, e43962	3.7	36
59	Alterations in the intestinal assimilation of oxidized PUFAs are ameliorated by a polyphenol-rich grape seed extract in an in vitro model and Caco-2 cells. <i>Journal of Nutrition</i> , <b>2013</b> , 143, 295-301	4.1	35
58	Absence of adipocyte fatty acid binding protein prevents the development of accelerated atherosclerosis in hypercholesterolemic mice. <i>FASEB Journal</i> , <b>2001</b> , 15, 1774-6	0.9	35
57	Lipid fluidity of hepatocyte plasma membrane subfractions and their differential regulation by calcium. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>1983</b> , 727, 209-12	3.8	34

56	Sterol transfer between cyclodextrin and membranes: similar but not identical mechanism to NPC2-mediated cholesterol transfer. <i>Biochemistry</i> , <b>2011</b> , 50, 7341-7349	3.2	33
55	Protein-membrane interaction and fatty acid transfer from intestinal fatty acid-binding protein to membranes. Support for a multistep process. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 13979-89	5.4	33
54	Intestinal mucosal triacylglycerol accumulation secondary to decreased lipid secretion in obese and high fat fed mice. <i>Frontiers in Physiology</i> , <b>2012</b> , 3, 25	4.6	32
53	Fatty acid transfer from intestinal fatty acid binding protein to membranes: electrostatic and hydrophobic interactions. <i>Journal of Lipid Research</i> , <b>2005</b> , 46, 1765-72	6.3	32
52	Liver fatty acid-binding protein binds monoacylglycerol in vitro and in mouse liver cytosol. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 19805-15	5.4	31
51	The role of membranes and intracellular binding proteins in cytoplasmic transport of hydrophobic molecules: Fatty acid-binding proteins. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , <b>1996</b> , 115, 333-339	2.3	29
50	Multiple Surface Regions on the Niemann-Pick C2 Protein Facilitate Intracellular Cholesterol Transport. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 27321-27331	5.4	28
49	Synthesis, characterization, and evaluation of pluronic-based $\beta$ -cyclodextrin polyrotaxanes for mobilization of accumulated cholesterol from Niemann-Pick type C fibroblasts. <i>Biochemistry</i> , <b>2013</b> , 52, 3242-53	3.2	27
48	Direct comparison of mice null for liver or intestinal fatty acid-binding proteins reveals highly divergent phenotypic responses to high fat feeding. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 30330-30344	5.4	27
47	Differential mechanisms of retinoid transfer from cellular retinol binding proteins types I and II to phospholipid membranes. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 9556-63	5.4	27
46	Intracellular cholesterol trafficking is dependent upon NPC2 interaction with lysobisphosphatidic acid. <i>ELife</i> , <b>2019</b> , 8,	8.9	27
45	Bacterial communities in the small intestine respond differently to those in the caecum and colon in mice fed low- and high-fat diets. <i>Microbiology (United Kingdom)</i> , <b>2017</b> , 163, 1189-1197	2.9	25
44	Interaction of enterocyte FABPs with phospholipid membranes: clues for specific physiological roles. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2011</b> , 1811, 452-9	5	24
43	Structurally distinct plasma membrane regions give rise to extracellular membrane vesicles in normal and transformed lymphocytes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>1988</b> , 946, 106-12	3.8	24
42	Collision-mediated transfer of long-chain fatty acids by neural tissue fatty acid-binding proteins (FABP): studies with fluorescent analogs. <i>Journal of Molecular Neuroscience</i> , <b>2001</b> , 16, 143-50; discussion 151-7	3.3	23
41	Titration and exchange studies of liver fatty acid-binding protein with $^{13}\text{C}$ -labeled long-chain fatty acids. <i>Biochemistry</i> , <b>2002</b> , 41, 5453-61	3.2	23
40	The adipocyte fatty acid-binding protein binds to membranes by electrostatic interactions. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 35325-30	5.4	23
39	Role of the helical domain in fatty acid transfer from adipocyte and heart fatty acid-binding proteins to membranes: analysis of chimeric proteins. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 1806-15	5.4	22

38	How helminth lipid-binding proteins offload their ligands to membranes: differential mechanisms of fatty acid transfer by the ABA-1 polyprotein allergen and Ov-FAR-1 proteins of nematodes and Sj-FABPc of schistosomes. <i>Biochemistry</i> , <b>2002</b> , 41, 6706-13	3.2	22
37	FABP1 knockdown in human enterocytes impairs proliferation and alters lipid metabolism. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2017</b> , 1862, 1587-1594	5	20
36	A dietary regimen alters hepatocyte plasma membrane lipid fluidity and ameliorates ethinyl estradiol cholestasis in the rat. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>1984</b> , 798, 137-40	4	18
35	Fatty acid transfer in taurodeoxycholate mixed micelles. <i>Biochemistry</i> , <b>1996</b> , 35, 7466-73	3.2	17
34	Nutritional control of fatty acid esterification in differentiating Caco-2 intestinal cells is mediated by cellular diacylglycerol concentrations. <i>Journal of Nutrition</i> , <b>1993</b> , 123, 728-36	4.1	16
33	A comparison of heart and liver fatty acid-binding proteins: interactions with fatty acids and possible functional differences studied with fluorescent fatty acid analogues. <i>Molecular and Cellular Biochemistry</i> , <b>1990</b> , 98, 141-7	4.2	16
32	Similar mechanisms of fatty acid transfer from human anal rodent fatty acid-binding proteins to membranes: liver, intestine, heart muscle, and adipose tissue FABPs. <i>Molecular and Cellular Biochemistry</i> , <b>2002</b> , 239, 25-33	4.2	15
31	Accumulation of ordered ceramide-cholesterol domains in farber disease fibroblasts. <i>JIMD Reports</i> , <b>2014</b> , 12, 71-7	1.9	13
30	Mechanism for binding of fatty acids to hepatocyte plasma membranes: different interpretation. <i>Hepatology</i> , <b>1990</b> , 12, 1447-9	11.2	13
29	Fatty acid-binding proteins: functional understanding and diagnostic implications. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , <b>2019</b> , 22, 407-412	3.8	13
28	Relative levels of dietary EPA and DHA impact gastric oxidation and essential fatty acid uptake. <i>Journal of Nutritional Biochemistry</i> , <b>2018</b> , 55, 68-75	6.3	12
27	I-FABP expression alters the intracellular distribution of the BODIPY C16 fatty acid analog. <i>Molecular and Cellular Biochemistry</i> , <b>2009</b> , 326, 97-104	4.2	9
26	Mechanisms underlying reduced weight gain in intestinal fatty acid-binding protein (IFABP) null mice. <i>American Journal of Physiology - Renal Physiology</i> , <b>2020</b> , 318, G518-G530	5.1	8
25	<sup>1</sup> H, <sup>15</sup> N and <sup>13</sup> C resonance assignments and secondary structure of apo liver fatty acid-binding protein. <i>Journal of Biomolecular NMR</i> , <b>1998</b> , 12, 197-9	3	7
24	Role of Membrane and Cytosolic Fatty Acid Binding Proteins in Lipid Processing by the Small Intestine <b>2006</b> , 1693-1709		7
23	Resistance to the pore-forming protein of cytotoxic T cells: comparison of target cell membrane rigidity. <i>Molecular Immunology</i> , <b>1990</b> , 27, 839-45	4.3	7
22	Retinol-binding protein 2 (RBP2) binds monoacylglycerols and modulates gut endocrine signaling and body weight. <i>Science Advances</i> , <b>2020</b> , 6, eaay8937	14.3	6
21	Lysobisphosphatidic acid (LBPA) enrichment promotes cholesterol egress via exosomes in Niemann Pick type C1 deficient cells. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2021</b> , 1866, 158916	5	4

20	Enrichment of NPC1-deficient cells with the lipid LBPA stimulates autophagy, improves lysosomal function, and reduces cholesterol storage. <i>Journal of Biological Chemistry</i> , <b>2021</b> , 297, 100813	5.4	4
19	Impact of vitamin A transport and storage on intestinal retinoid homeostasis and functions. <i>Journal of Lipid Research</i> , <b>2021</b> , 62, 100046	6.3	4
18	Protocols and pitfalls in obtaining fatty acid-binding proteins for biophysical studies of ligand-protein and protein-protein interactions. <i>Biochemistry and Biophysics Reports</i> , <b>2017</b> , 10, 318-324	2.2	3
17	Effect of phospholipid headgroup composition on the transfer of fluorescent long-chain free fatty acids between membranes. <i>Lipids and Lipid Metabolism</i> , <b>1993</b> , 1168, 307-14		3
16	Two fatty acid-binding proteins expressed in the intestine interact differently with endocannabinoids. <i>Protein Science</i> , <b>2020</b> , 29, 1606-1617	6.3	3
15	Muscle metabolic reprogramming underlies the resistance of liver fatty acid-binding protein (LFABP)-null mice to high-fat feeding-induced decline in exercise capacity. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 15358-15372	5.4	2
14	Intestinal lipid metabolism is altered in Liver Fatty Acid-Binding Protein-null mice (LFABP <sup>-/-</sup> ) <i>FASEB Journal</i> , <b>2007</b> , 21, A109	0.9	2
13	Cholesterol Transport in Lysosomes <b>2005</b> , 100-111		2
12	Binding site polarity and ligand affinity of homologous fatty acid-binding proteins from animals with different body temperatures. <i>Molecular and Cellular Biochemistry</i> , <b>1996</b> , 159, 39-45	4.2	1
11	The Role of Fatty Acid Binding Proteins in Enterocyte Fatty Acid Transport <b>2001</b> , 153-170		1
10	Differential enterocyte partitioning of fatty acids in intestinal fatty acid-binding protein-null mice (IFABP <sup>-/-</sup> ). <i>FASEB Journal</i> , <b>2009</b> , 23, 521.6	0.9	1
9	Stereospecific synthesis of phosphatidylglycerol using a cyanoethyl phosphoramidite precursor. <i>Chemistry and Physics of Lipids</i> , <b>2020</b> , 231, 104933	3.7	1
8	Similar mechanisms of fatty acid transfer from human and rodent fatty acid-binding proteins to membranes: Liver, intestine, heart muscle, and adipose tissue FABPs <b>2002</b> , 25-33		1
7	Diversity of fatty acid-binding protein structure and function: studies with fluorescent ligands <b>1993</b> , 45-53		0
6	Transport Assays for Sterol-Binding Proteins: Stopped-Flow Fluorescence Methods for Investigating Intracellular Cholesterol Transport Mechanisms of NPC2 Protein. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1583, 97-110	1.4	
5	Fatty Acid Binding Proteins and Fatty Acid Transport <b>1993</b> , 119-133		
4	Nutritional Regulation of Fatty Acid Transport Protein Expression. <i>Modern Nutrition</i> , <b>2001</b> , 101-130		
3	A comparison of heart and liver fatty acid-binding proteins: interactions with fatty acids and possible functional differences studied with fluorescent fatty acid analogues <b>1990</b> , 141-147		

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