Judith Storch

List of Publications by Year in Descending Order

109 papers	5,107 citations	42 h-index	69 g-index
115 ext. papers	5,656 ext. citations	4.7 avg, IF	5.66 L-index

#	Paper	IF	Citations
109	Lysobisphosphatidic acid (LBPA) enrichment promotes cholesterol egress via exosomes in Niemann Pick type C1 deficient cells. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2021**, 1866, 158916	5	4
108	Enrichment of NPC1-deficient cells with the lipid LBPA stimulates autophagy, improves lysosomal function, and reduces cholesterol storage. *Journal of Biological Chemistry*, **2021**, 297, 100813	5.4	4
107	Impact of vitamin A transport and storage on intestinal retinoid homeostasis and functions. *Journal of Lipid Research*, **2021**, 62, 100046	6.3	4
106	Proteins and Disease | Structural Insight and Functional Diversity of Mammalian Fatty Acid Binding Proteins in Health and Disease **2021**, 63-76		
105	Retinol-binding protein 2 (RBP2) binds monoacylglycerols and modulates gut endocrine signaling and body weight. *Science Advances*, **2020**, 6, eaay8937	14.3	6
104	Mechanisms underlying reduced weight gain in intestinal fatty acid-binding protein (IFABP) null mice. *American Journal of Physiology - Renal Physiology*, **2020**, 318, G518-G530	5.1	8
103	Stereospecific synthesis of phosphatidylglycerol using a cyanoethyl phosphoramidite precursor. *Chemistry and Physics of Lipids*, **2020**, 231, 104933	3.7	1
102	Two fatty acid-binding proteins expressed in the intestine interact differently with endocannabinoids. *Protein Science*, **2020**, 29, 1606-1617	6.3	3
101	Muscle metabolic reprogramming underlies the resistance of liver fatty acid-binding protein (LFABP)-null mice to high-fat feeding-induced decline in exercise capacity. *Journal of Biological Chemistry*, **2019**, 294, 15358-15372	5.4	2
100	Intracellular cholesterol trafficking is dependent upon NPC2 interaction with lysobisphosphatidic acid. *ELife*, **2019**, 8,	8.9	27
99	Fatty acid-binding proteins: functional understanding and diagnostic implications. *Current Opinion in Clinical Nutrition and Metabolic Care*, **2019**, 22, 407-412	3.8	13
98	Relative levels of dietary EPA and DHA impact gastric oxidation and essential fatty acid uptake. *Journal of Nutritional Biochemistry*, **2018**, 55, 68-75	6.3	12
97	Transport Assays for Sterol-Binding Proteins: Stopped-Flow Fluorescence Methods for Investigating Intracellular Cholesterol Transport Mechanisms of NPC2 Protein. *Methods in Molecular Biology*, **2017**, 1583, 97-110	1.4	
96	FABP1 knockdown in human enterocytes impairs proliferation and alters lipid metabolism. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2017**, 1862, 1587-1594	5	20
95	Protocols and pitfalls in obtaining fatty acid-binding proteins for biophysical studies of ligand-protein and protein-protein interactions. *Biochemistry and Biophysics Reports*, **2017**, 10, 318-324	2.2	3
94	Bacterial communities in the small intestine respond differently to those in the caecum and colon in mice fed low- and high-fat diets. *Microbiology (United Kingdom)*, **2017**, 163, 1189-1197	2.9	25
93	Efficacy and ototoxicity of different cyclodextrins in Niemann-Pick C disease. *Annals of Clinical and Translational Neurology*, **2016**, 3, 366-80	5.3	53

92	Global deletion of MGL in mice delays lipid absorption and alters energy homeostasis and diet-induced obesity. *Journal of Lipid Research*, **2015**, 56, 1153-71	6.3	42
91	Multiple Surface Regions on the Niemann-Pick C2 Protein Facilitate Intracellular Cholesterol Transport. *Journal of Biological Chemistry*, **2015**, 290, 27321-27331	5.4	28
90	Enterocyte fatty acid-binding proteins (FABPs): different functions of liver and intestinal FABPs in the intestine. *Prostaglandins Leukotrienes and Essential Fatty Acids*, **2015**, 93, 9-16	2.8	91
89	Hepatic fatty acid uptake is regulated by the sphingolipid acyl chain length. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2014**, 1841, 1754-66	5	39
88	Accumulation of ordered ceramide-cholesterol domains in farber disease fibroblasts. *JIMD Reports*, **2014**, 12, 71-7	1.9	13
87	Synthesis of 2-hydroxypropyl-□cyclodextrin/pluronic-based polyrotaxanes via heterogeneous reaction as potential Niemann-Pick type C therapeutics. *Biomacromolecules*, **2013**, 14, 4189-97	6.9	46
86	Enteroviruses harness the cellular endocytic machinery to remodel the host cell cholesterol landscape for effective viral replication. *Cell Host and Microbe*, **2013**, 14, 281-93	23.4	104
85	Synthesis, characterization, and evaluation of pluronic-based □cyclodextrin polyrotaxanes for mobilization of accumulated cholesterol from Niemann-Pick type C fibroblasts. *Biochemistry*, **2013**, 52, 3242-53	3.2	27
84	Direct comparison of mice null for liver or intestinal fatty acid-binding proteins reveals highly divergent phenotypic responses to high fat feeding. *Journal of Biological Chemistry*, **2013**, 288, 30330-30344	5.4	27
83	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. *Journal of Nutrition*, **2013**, 143, 295-301	4.1	35
82	Liver fatty acid-binding protein binds monoacylglycerol in vitro and in mouse liver cytosol. *Journal of Biological Chemistry*, **2013**, 288, 19805-15	5.4	31
81	Over-expression of monoacylglycerol lipase (MGL) in small intestine alters endocannabinoid levels and whole body energy balance, resulting in obesity. *PLoS ONE*, **2012**, 7, e43962	3.7	36
80	Intestinal mucosal triacylglycerol accumulation secondary to decreased lipid secretion in obese and high fat fed mice. *Frontiers in Physiology*, **2012**, 3, 25	4.6	32
79	Interaction of enterocyte FABPs with phospholipid membranes: clues for specific physiological roles. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2011**, 1811, 452-9	5	24
78	Sterol transfer between cyclodextrin and membranes: similar but not identical mechanism to NPC2-mediated cholesterol transfer. *Biochemistry*, **2011**, 50, 7341-7349	3.2	33
77	Different functions of intestinal and liver-type fatty acid-binding proteins in intestine and in whole body energy homeostasis. *American Journal of Physiology - Renal Physiology*, **2011**, 300, G803-14	5.1	45
76	CGI-58/ABHD5 is a coenzyme A-dependent lysophosphatidic acid acyltransferase. *Journal of Lipid Research*, **2010**, 51, 709-19	6.3	73
75	A novel multiprotein complex is required to generate the prechylomicron transport vesicle from intestinal ER. *Journal of Lipid Research*, **2010**, 51, 1918-28	6.3	73

74	Tissue-specific functions in the fatty acid-binding protein family. *Journal of Biological Chemistry*, **2010**, 285, 32679-32683	5.4	208
73	Structural and functional analysis of fatty acid-binding proteins. *Journal of Lipid Research*, **2009**, 50 Suppl, S126-31	6.3	170
72	I-FABP expression alters the intracellular distribution of the BODIPY C16 fatty acid analog. *Molecular and Cellular Biochemistry*, **2009**, 326, 97-104	4.2	9
71	Niemann-Pick C2 (NPC2) and intracellular cholesterol trafficking. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2009**, 1791, 671-8	5	136
70	Differential enterocyte partitioning of fatty acids in intestinal fatty acid-binding protein-null mice (IFABP-/-). *FASEB Journal*, **2009**, 23, 521.6	0.9	1
69	The emerging functions and mechanisms of mammalian fatty acid-binding proteins. *Annual Review of Nutrition*, **2008**, 28, 73-95	9.9	298
68	Regulation of sterol transport between membranes and NPC2. *Biochemistry*, **2008**, 47, 11134-43	3.2	67
67	Metabolism of apical versus basolateral sn-2-monoacylglycerol and fatty acids in rodent small intestine. *Journal of Lipid Research*, **2008**, 49, 1762-9	6.3	52
66	Solution-state molecular structure of apo and oleate-liganded liver fatty acid-binding protein. *Biochemistry*, **2007**, 46, 12543-56	3.2	57
65	Characterization of a BODIPY-labeled fluorescent fatty acid analogue. Binding to fatty acid-binding proteins, intracellular localization, and metabolism. *Molecular and Cellular Biochemistry*, **2007**, 299, 67-73	4.2	55
64	Liver fatty acid-binding protein initiates budding of pre-chylomicron transport vesicles from intestinal endoplasmic reticulum. *Journal of Biological Chemistry*, **2007**, 282, 17974-17984	5.4	85
63	Intestinal monoacylglycerol metabolism: developmental and nutritional regulation of monoacylglycerol lipase and monoacylglycerol acyltransferase. *Journal of Biological Chemistry*, **2007**, 282, 33346-33357	5.4	44
62	Intestinal lipid metabolism is altered in Liver Fatty Acid-Binding Protein-null mice (LFABP[]) *FASEB Journal*, **2007**, 21, A109	0.9	2
61	Mechanism of cholesterol transfer from the Niemann-Pick type C2 protein to model membranes supports a role in lysosomal cholesterol transport. *Journal of Biological Chemistry*, **2006**, 281, 31594-604	5.4	165
60	Protein-membrane interaction and fatty acid transfer from intestinal fatty acid-binding protein to membranes. Support for a multistep process. *Journal of Biological Chemistry*, **2006**, 281, 13979-89	5.4	33
59	Role of Membrane and Cytosolic Fatty Acid Binding Proteins in Lipid Processing by the Small Intestine **2006**, 1693-1709		7
58	Mechanism of Cholesterol Transfer from the Niemann-Pick Type C2 Protein to Model Membranes Supports a Role in Lysosomal Cholesterol Transport. *Journal of Biological Chemistry*, **2006**, 281, 31594-31604	5.4	49
57	Uptake of micellar long-chain fatty acid and sn-2-monoacylglycerol into human intestinal Caco-2 cells exhibits characteristics of protein-mediated transport. *Journal of Nutrition*, **2005**, 135, 1626-30	4.1	47

56	Fatty acid transfer from intestinal fatty acid binding protein to membranes: electrostatic and hydrophobic interactions. *Journal of Lipid Research*, **2005**, 46, 1765-72	6.3	32
55	Cholesterol Transport in Lysosomes **2005**, 100-111		2
54	The alpha-helical domain of liver fatty acid binding protein is responsible for the diffusion-mediated transfer of fatty acids to phospholipid membranes. *Biochemistry*, **2004**, 43, 3600-7	3.2	66
53	Similar mechanisms of fatty acid transfer from human anal rodent fatty acid-binding proteins to membranes: Liver, intestine, heart muscle, and adipose tissue FABPs. *Molecular and Cellular Biochemistry*, **2002**, 239, 25-33	4.2	38
52	Mechanisms of inhibition of triacylglycerol hydrolysis by human gastric lipase. *Journal of Biological Chemistry*, **2002**, 277, 28070-9	5.4	156
51	Role of the helical domain in fatty acid transfer from adipocyte and heart fatty acid-binding proteins to membranes: analysis of chimeric proteins. *Journal of Biological Chemistry*, **2002**, 277, 1806-15	5.4	22
50	Monoacylglycerol metabolism in human intestinal Caco-2 cells: evidence for metabolic compartmentation and hydrolysis. *Journal of Biological Chemistry*, **2002**, 277, 1816-23	5.4	59
49	Titration and exchange studies of liver fatty acid-binding protein with 13C-labeled long-chain fatty acids. *Biochemistry*, **2002**, 41, 5453-61	3.2	23
48	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. *Biochemistry*, **2002**, 41, 6706-13	3.2	22
47	Similar mechanisms of fatty acid transfer from human anal rodent fatty acid-binding proteins to membranes: Liver, intestine, heart muscle, and adipose tissue FABPs **2002**, 25-33		1
46	Similar mechanisms of fatty acid transfer from human anal rodent fatty acid-binding proteins to membranes: liver, intestine, heart muscle, and adipose tissue FABPs. *Molecular and Cellular Biochemistry*, **2002**, 239, 25-33	4.2	15
45	Collision-mediated transfer of long-chain fatty acids by neural tissue fatty acid-binding proteins (FABP): studies with fluorescent analogs. *Journal of Molecular Neuroscience*, **2001**, 16, 143-50; discussion 151-7	3.3	23
44	Absence of adipocyte fatty acid binding protein prevents the development of accelerated atherosclerosis in hypercholesterolemic mice. *FASEB Journal*, **2001**, 15, 1774-6	0.9	35
43	Role of macrophage-expressed adipocyte fatty acid binding protein in the development of accelerated atherosclerosis in hypercholesterolemic mice. *FASEB Journal*, **2001**, 15, 2733-5	0.9	64
42	Role of surface lysine residues of adipocyte fatty acid-binding protein in fatty acid transfer to phospholipid vesicles. *Biochemistry*, **2001**, 40, 6475-85	3.2	38
41	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. *Biochemistry*, **2001**, 40, 1976-83	3.2	37
40	Common mechanisms of monoacylglycerol and fatty acid uptake by human intestinal Caco-2 cells. *American Journal of Physiology - Cell Physiology*, **2001**, 281, C1106-17	5.4	65
39	Unravelling the significance of cellular fatty acid-binding proteins. *Current Opinion in Lipidology*, **2001**, 12, 267-74	4.4	121

38	The Role of Fatty Acid Binding Proteins in Enterocyte Fatty Acid Transport **2001**, 153-170		1
37	Nutritional Regulation of Fatty Acid Transport Protein Expression. *Modern Nutrition*, **2001**, 101-130		
36	The fatty acid transport function of fatty acid-binding proteins. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2000**, 1486, 28-44	5	360
35	Liver and intestinal fatty acid-binding proteins obtain fatty acids from phospholipid membranes by different mechanisms. *Journal of Lipid Research*, **2000**, 41, 647-656	6.3	54
34	The adipocyte fatty acid-binding protein binds to membranes by electrostatic interactions. *Journal of Biological Chemistry*, **1999**, 274, 35325-30	5.4	23
33	Differential mechanisms of retinoid transfer from cellular retinol binding proteins types I and II to phospholipid membranes. *Journal of Biological Chemistry*, **1999**, 274, 9556-63	5.4	27
32	1H, 15N and 13C resonance assignments and secondary structure of apo liver fatty acid-binding protein. *Journal of Biomolecular NMR*, **1998**, 12, 197-9	3	7
31	The helical domain of intestinal fatty acid binding protein is critical for collisional transfer of fatty acids to phospholipid membranes. *Proceedings of the National Academy of Sciences of the United States of America*, **1998**, 95, 12174-8	11.5	112
30	Flip-flop is slow and rate limiting for the movement of long chain anthroyloxy fatty acids across lipid vesicles. *Biochemistry*, **1997**, 36, 5702-11	3.2	43
29	Adipocyte fatty acid-binding protein: interaction with phospholipid membranes and thermal stability studied by FTIR spectroscopy. *Biochemistry*, **1997**, 36, 8311-7	3.2	45
28	Fatty acid transfer in taurodeoxycholate mixed micelles. *Biochemistry*, **1996**, 35, 7466-73	3.2	17
27	Role of portal region lysine residues in electrostatic interactions between heart fatty acid binding protein and phospholipid membranes. *Biochemistry*, **1996**, 35, 1296-303	3.2	114
26	The role of membranes and intracellular binding proteins in cytoplasmic transport of hydrophobic molecules: Fatty acid-binding proteins. *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **1996**, 115, 333-339	2.3	29
25	Fatty acid transfer from liver and intestinal fatty acid-binding proteins to membranes occurs by different mechanisms. *Journal of Biological Chemistry*, **1996**, 271, 13317-23	5.4	158
24	Binding site polarity and ligand affinity of homologous fatty acid-binding proteins from animals with different body temperatures. *Molecular and Cellular Biochemistry*, **1996**, 159, 39-45	4.2	1
23	The Role of Intracellular Fatty Acid-Binding Proteins in Cellular Transport of Fatty Acids **1996**, 53-59		
22	Surface lysine residues modulate the collisional transfer of fatty acid from adipocyte fatty acid binding protein to membranes. *Biochemistry*, **1995**, 34, 11840-5	3.2	77
21	Effect of phospholipid headgroup composition on the transfer of fluorescent long-chain free fatty acids between membranes. *Lipids and Lipid Metabolism*, **1993**, 1168, 307-14		3

20	Transfer of long-chain fluorescent fatty acids between small and large unilamellar vesicles. *Biochemistry*, **1993**, 32, 2053-61	3.2	61
19	Mechanism of fluorescent fatty acid transfer from adipocyte fatty acid binding protein to membranes. *Biochemistry*, **1993**, 32, 8622-7	3.2	64
18	Nutritional control of fatty acid esterification in differentiating Caco-2 intestinal cells is mediated by cellular diacylglycerol concentrations. *Journal of Nutrition*, **1993**, 123, 728-36	4.1	16
17	Diversity of fatty acid-binding protein structure and function: studies with fluorescent ligands. *Molecular and Cellular Biochemistry*, **1993**, 123, 45-53	4.2	48
16	Diversity of fatty acid-binding protein structure and function: studies with fluorescent ligands **1993** , 45-53		0
15	Mechanism of the spontaneous transfer of unconjugated bilirubin between small unilamellar phosphatidylcholine vesicles. *Biochemistry*, **1992**, 31, 3184-92	3.2	44
14	A comparison of heart and liver fatty acid-binding proteins: interactions with fatty acids and possible functional differences studied with fluorescent fatty acid analogues. *Molecular and Cellular Biochemistry*, **1990**, 98, 141-7	4.2	16
13	Mechanism for binding of fatty acids to hepatocyte plasma membranes: different interpretation. *Hepatology*, **1990**, 12, 1447-9	11.2	13
12	Fatty acid binding sites of rodent adipocyte and heart fatty acid binding proteins: characterization using fluorescent fatty acids. *Biochemistry*, **1990**, 29, 9305-11	3.2	37
11	Resistance to the pore-forming protein of cytotoxic T cells: comparison of target cell membrane rigidity. *Molecular Immunology*, **1990**, 27, 839-45	4.3	7
10	A comparison of heart and liver fatty acid-binding proteins: interactions with fatty acids and possible functional differences studied with fluorescent fatty acid analogues **1990**, 141-147		
9	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. *Biochimica Et Biophysica Acta - Biomembranes*, **1989**, 982, 131-9	3.8	74
8	Structurally distinct plasma membrane regions give rise to extracellular membrane vesicles in normal and transformed lymphocytes. *Biochimica Et Biophysica Acta - Biomembranes*, **1988**, 946, 106-12	3.8	24
7	Transfer of long-chain fluorescent free fatty acids between unilamellar vesicles. *Biochemistry*, **1986**, 25, 1717-26	3.2	155
6	The lipid structure of biological membranes. *Trends in Biochemical Sciences*, **1985**, 10, 418-421	10.3	41
5	Calcium alters the acyl chain composition and lipid fluidity of rat hepatocyte plasma membranes in vitro. *Biochimica Et Biophysica Acta - Biomembranes*, **1985**, 812, 473-84	3.8	38
4	A dietary regimen alters hepatocyte plasma membrane lipid fluidity and ameliorates ethinyl estradiol cholestasis in the rat. *Biochimica Et Biophysica Acta - General Subjects*, **1984**, 798, 137-40	4	18
3	Dietary induction of acyl chain desaturases alters the lipid composition and fluidity of rat hepatocyte plasma membranes. *Biochemistry*, **1984**, 23, 1165-70	3.2	58

2	Lipid fluidity of hepatocyte plasma membrane subfractions and their differential regulation by calcium. *Biochimica Et Biophysica Acta - Biomembranes*, **1983**, 727, 209-12	3.8	34
1	Fatty Acid Binding Proteins and Fatty Acid Transport119-133		