

Judith Storch

List of Publications by Year in descending order

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111
papers

6,172
citations

57758

44
h-index

71685

76
g-index

115
all docs

115
docs citations

115
times ranked

5781
citing authors

#	ARTICLE	IF	CITATIONS
1	The fatty acid transport function of fatty acid-binding proteins. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2000, 1486, 28-44.	2.4	440
2	The Emerging Functions and Mechanisms of Mammalian Fatty Acid-binding Proteins. <i>Annual Review of Nutrition</i> , 2008, 28, 73-95.	10.1	362
3	Tissue-specific Functions in the Fatty Acid-binding Protein Family. <i>Journal of Biological Chemistry</i> , 2010, 285, 32679-32683.	3.4	256
4	Structural and functional analysis of fatty acid-binding proteins. <i>Journal of Lipid Research</i> , 2009, 50, S126-S131.	4.2	226
5	Fatty Acid Transfer from Liver and Intestinal Fatty Acid-binding Proteins to Membranes Occurs by Different Mechanisms. <i>Journal of Biological Chemistry</i> , 1996, 271, 13317-13323.	3.4	187
6	Mechanisms of Inhibition of Triacylglycerol Hydrolysis by Human Gastric Lipase. <i>Journal of Biological Chemistry</i> , 2002, 277, 28070-28079.	3.4	185
7	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> , 2006, 281, 31594-31604.	3.4	177
8	Transfer of long-chain fluorescent free fatty acids between unilamellar vesicles. <i>Biochemistry</i> , 1986, 25, 1717-1726.	2.5	172
9	Niemann-pick C2 (NPC2) and intracellular cholesterol trafficking. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2009, 1791, 671-678.	2.4	156
10	Unravelling the significance of cellular fatty acid-binding proteins. <i>Current Opinion in Lipidology</i> , 2001, 12, 267-274.	2.7	144
11	Enterocyte fatty acid-binding proteins (FABPs): Different functions of liver and intestinal FABPs in the intestine. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , 2015, 93, 9-16.	2.2	138
12	Enteroviruses Harness the Cellular Endocytic Machinery to Remodel the Host Cell Cholesterol Landscape for Effective Viral Replication. <i>Cell Host and Microbe</i> , 2013, 14, 281-293.	11.0	128
13	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> , 1998, 95, 12174-12178.	7.1	126
14	Role of Portal Region Lysine Residues in Electrostatic Interactions between Heart Fatty Acid Binding Protein and Phospholipid Membranes. <i>Biochemistry</i> , 1996, 35, 1296-1303.	2.5	125
15	Liver Fatty Acid-binding Protein Initiates Budding of Pre-chylomicron Transport Vesicles from Intestinal Endoplasmic Reticulum. <i>Journal of Biological Chemistry</i> , 2007, 282, 17974-17984.	3.4	95
16	A novel multiprotein complex is required to generate the prechylomicron transport vesicle from intestinal ER. <i>Journal of Lipid Research</i> , 2010, 51, 1918-1928.	4.2	88
17	Surface lysine residues modulate the collisional transfer of fatty acid from adipocyte fatty acid binding protein to membranes. <i>Biochemistry</i> , 1995, 34, 11840-11845.	2.5	86
18	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> , 1989, 982, 131-139.	2.6	83

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19	CGI-58/ABHD5 is a coenzyme A-dependent lysophosphatidic acid acyltransferase. <i>Journal of Lipid Research</i> , 2010, 51, 709-719.	4.2	80
20	Efficacy and ototoxicity of different cyclodextrins in Niemann-Pick C disease. <i>Annals of Clinical and Translational Neurology</i> , 2016, 3, 366-380.	3.7	78
21	Regulation of Sterol Transport between Membranes and NPC2. <i>Biochemistry</i> , 2008, 47, 11134-11143.	2.5	76
22	Role of macrophage-expressed adipocyte fatty acid binding protein in the development of accelerated atherosclerosis in hypercholesterolemic mice. <i>FASEB Journal</i> , 2001, 15, 1-19.	0.5	75
23	The α -Helical Domain of Liver Fatty Acid Binding Protein Is Responsible for the Diffusion-Mediated Transfer of Fatty Acids to Phospholipid Membranes. <i>Biochemistry</i> , 2004, 43, 3600-3607.	2.5	74
24	Common mechanisms of monoacylglycerol and fatty acid uptake by human intestinal Caco-2 cells. <i>American Journal of Physiology - Cell Physiology</i> , 2001, 281, C1106-C1117.	4.6	72
25	Mechanism of fluorescent fatty acid transfer from adipocyte fatty acid binding protein to membranes. <i>Biochemistry</i> , 1993, 32, 8622-8627.	2.5	69
26	Monoacylglycerol Metabolism in Human Intestinal Caco-2 Cells. <i>Journal of Biological Chemistry</i> , 2002, 277, 1816-1823.	3.4	68
27	Liver and intestinal fatty acid-binding proteins obtain fatty acids from phospholipid membranes by different mechanisms. <i>Journal of Lipid Research</i> , 2000, 41, 647-656.	4.2	68
28	Dietary induction of acyl chain desaturases alters the lipid composition and fluidity of rat hepatocyte plasma membranes. <i>Biochemistry</i> , 1984, 23, 1165-1170.	2.5	66
29	Transfer of long-chain fluorescent fatty acids between small and large unilamellar vesicles. <i>Biochemistry</i> , 1993, 32, 2053-2061.	2.5	66
30	Solution-State Molecular Structure of Apo and Oleate-Liganded Liver Fatty Acid-Binding Protein. <i>Biochemistry</i> , 2007, 46, 12543-12556.	2.5	66
31	Metabolism of apical versus basolateral sn-2-monoacylglycerol and fatty acids in rodent small intestine. <i>Journal of Lipid Research</i> , 2008, 49, 1762-1769.	4.2	65
32	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> , 2011, 300, G803-G814.	3.4	64
33	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> , 2007, 299, 67-73.	3.1	63
34	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> , 2006, 281, 31594-31604.	3.4	61
35	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> , 2005, 135, 1626-1630.	2.9	53
36	Diversity of fatty acid-binding protein structure and function: studies with fluorescent ligands. <i>Molecular and Cellular Biochemistry</i> , 1993, 123, 45-53.	3.1	52

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37	Intestinal Monoacylglycerol Metabolism. <i>Journal of Biological Chemistry</i> , 2007, 282, 33346-33357.	3.4	52
38	Hepatic fatty acid uptake is regulated by the sphingolipid acyl chain length. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2014, 1841, 1754-1766.	2.4	50
39	Global deletion of MGL in mice delays lipid absorption and alters energy homeostasis and diet-induced obesity. <i>Journal of Lipid Research</i> , 2015, 56, 1153-1171.	4.2	50
40	Flip-Flop Is Slow and Rate Limiting for the Movement of Long Chain Anthroyloxy Fatty Acids across Lipid Vesicles. <i>Biochemistry</i> , 1997, 36, 5702-5711.	2.5	49
41	Synthesis of 2-Hydroxypropyl- β -cyclodextrin/Pluronic-Based Polyrotaxanes via Heterogeneous Reaction as Potential Niemann-Pick Type C Therapeutics. <i>Biomacromolecules</i> , 2013, 14, 4189-4197.	5.4	49
42	Mechanism of the spontaneous transfer of unconjugated bilirubin between small unilamellar phosphatidylcholine vesicles. <i>Biochemistry</i> , 1992, 31, 3184-3192.	2.5	48
43	Adipocyte Fatty Acid-Binding Protein: Interaction with Phospholipid Membranes and Thermal Stability Studied by FTIR Spectroscopy. <i>Biochemistry</i> , 1997, 36, 8311-8317.	2.5	48
44	The lipid structure of biological membranes. <i>Trends in Biochemical Sciences</i> , 1985, 10, 418-421.	7.5	47
45	Role of Surface Lysine Residues of Adipocyte Fatty Acid-Binding Protein in Fatty Acid Transfer to Phospholipid Vesicles. <i>Biochemistry</i> , 2001, 40, 6475-6485.	2.5	44
46	Intracellular cholesterol trafficking is dependent upon NPC2 interaction with lysobisphosphatidic acid. <i>ELife</i> , 2019, 8, .	6.0	44
47	Fatty acid binding sites of rodent adipocyte and heart fatty acid binding proteins: characterization using fluorescent fatty acids. <i>Biochemistry</i> , 1990, 29, 9305-9311.	2.5	43
48	Over-Expression of Monoacylglycerol Lipase (MGL) in Small Intestine Alters Endocannabinoid Levels and Whole Body Energy Balance, Resulting in Obesity. <i>PLoS ONE</i> , 2012, 7, e43962.	2.5	43
49	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> , 2013, 288, 30330-30344.	3.4	43
50	Title is missing!. <i>Molecular and Cellular Biochemistry</i> , 2002, 239, 25-33.	3.1	42
51	Intestinal Mucosal Triacylglycerol Accumulation Secondary to Decreased Lipid Secretion in Obese and High Fat Fed Mice. <i>Frontiers in Physiology</i> , 2012, 3, 25.	2.8	42
52	Calcium alters the acyl chain composition and lipid fluidity of rat hepatocyte plasma membranes in vitro. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1985, 812, 473-484.	2.6	41
53	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> , 2001, 40, 1976-1983.	2.5	41
54	Absence of adipocyte fatty acid binding protein prevents the development of accelerated atherosclerosis in hypercholesterolemic mice. <i>FASEB Journal</i> , 2001, 15, 1774-1776.	0.5	41

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55	Protein-Membrane Interaction and Fatty Acid Transfer from Intestinal Fatty Acid-binding Protein to Membranes. <i>Journal of Biological Chemistry</i> , 2006, 281, 13979-13989.	3.4	41
56	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> , 2013, 143, 295-301.	2.9	41
57	Sterol Transfer between Cyclodextrin and Membranes: Similar but Not Identical Mechanism to NPC2-Mediated Cholesterol Transfer. <i>Biochemistry</i> , 2011, 50, 7341-7349.	2.5	38
58	Lipid fluidity of hepatocyte plasma membrane subfractions and their differential regulation by calcium. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1983, 727, 209-212.	2.6	37
59	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> , 2017, 163, 1189-1197.	1.8	35
60	Fatty acid transfer from intestinal fatty acid binding protein to membranes: electrostatic and hydrophobic interactions. <i>Journal of Lipid Research</i> , 2005, 46, 1765-1772.	4.2	34
61	Multiple Surface Regions on the Niemann-Pick C2 Protein Facilitate Intracellular Cholesterol Transport. <i>Journal of Biological Chemistry</i> , 2015, 290, 27321-27331.	3.4	34
62	Liver Fatty Acid-binding Protein Binds Monoacylglycerol in Vitro and in Mouse Liver Cytosol. <i>Journal of Biological Chemistry</i> , 2013, 288, 19805-19815.	3.4	33
63	FABP1 knockdown in human enterocytes impairs proliferation and alters lipid metabolism. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2017, 1862, 1587-1594.	2.4	33
64	Synthesis, Characterization, and Evaluation of Pluronic-Based β -Cyclodextrin Polyrotaxanes for Mobilization of Accumulated Cholesterol from Niemann-Pick Type C Fibroblasts. <i>Biochemistry</i> , 2013, 52, 3242-3253.	2.5	32
65	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> , 1996, 115, 333-339.	1.6	31
66	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> , 2001, 16, 143-150.	2.3	31
67	Differential Mechanisms of Retinoid Transfer from Cellular Retinol Binding Proteins Types I and II to Phospholipid Membranes. <i>Journal of Biological Chemistry</i> , 1999, 274, 9556-9563.	3.4	30
68	Structurally distinct plasma membrane regions give rise to extracellular membrane vesicles in normal and transformed lymphocytes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1988, 946, 106-112.	2.6	29
69	Enrichment of NPC1-deficient cells with the lipid LBPA stimulates autophagy, improves lysosomal function, and reduces cholesterol storage. <i>Journal of Biological Chemistry</i> , 2021, 297, 100813.	3.4	29
70	The Adipocyte Fatty Acid-binding Protein Binds to Membranes by Electrostatic Interactions. <i>Journal of Biological Chemistry</i> , 1999, 274, 35325-35330.	3.4	28
71	Fatty acid-binding proteins. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2019, 22, 407-412.	2.5	28
72	Role of the Helical Domain in Fatty Acid Transfer from Adipocyte and Heart Fatty Acid-binding Proteins to Membranes. <i>Journal of Biological Chemistry</i> , 2002, 277, 1806-1815.	3.4	27

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73	Interaction of enterocyte FABPs with phospholipid membranes: Clues for specific physiological roles. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2011, 1811, 452-459.	2.4	27
74	How Helminth Lipid-Binding Proteins Offload Their Ligands to Membranes: A 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> , 2002, 41, 6706-6713.	2.5	26
75	Mechanisms underlying reduced weight gain in intestinal fatty acid-binding protein (IFABP) null mice. <i>American Journal of Physiology - Renal Physiology</i> , 2020, 318, G518-G530.	3.4	26
76	Titration and Exchange Studies of Liver Fatty Acid-Binding Protein with ¹³ C-Labeled Long-Chain Fatty Acids. <i>Biochemistry</i> , 2002, 41, 5453-5461.	2.5	25
77	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> , 1984, 798, 137-140.	2.4	21
78	Relative levels of dietary EPA and DHA impact gastric oxidation and essential fatty acid uptake. <i>Journal of Nutritional Biochemistry</i> , 2018, 55, 68-75.	4.2	21
79	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> , 1990, 98, 141-7.	3.1	18
80	Fatty Acid Transfer in Taurodeoxycholate Mixed Micelles. <i>Biochemistry</i> , 1996, 35, 7466-7473.	2.5	18
81	Retinol-binding protein 2 (RBP2) binds monoacylglycerols and modulates gut endocrine signaling and body weight. <i>Science Advances</i> , 2020, 6, eaay8937.	10.3	17
82	Similar mechanisms of fatty acid transfer from human and rodent fatty acid-binding proteins to membranes: liver, intestine, heart muscle, and adipose tissue FABPs. <i>Molecular and Cellular Biochemistry</i> , 2002, 239, 25-33.	3.1	17
83	Nutritional Control of Fatty Acid Esterification in Differentiating Caco-2 Intestinal Cells Is Mediated by Cellular Diacylglycerol Concentrations. <i>Journal of Nutrition</i> , 1993, 123, 728-736.	2.9	16
84	Accumulation of Ordered Ceramide-Cholesterol Domains in Farber Disease Fibroblasts. <i>JIMD Reports</i> , 2013, 12, 71-77.	1.5	14
85	Mechanism for binding of fatty acids to hepatocyte plasma membranes: Different interpretation. <i>Hepatology</i> , 1990, 12, 1447-1449.	7.3	13
86	Impact of vitamin A transport and storage on intestinal retinoid homeostasis and functions. <i>Journal of Lipid Research</i> , 2021, 62, 100046.	4.2	13
87	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> , 2021, 1866, 158916.	2.4	11
88	I-FABP expression alters the intracellular distribution of the BODIPY C16 fatty acid analog. <i>Molecular and Cellular Biochemistry</i> , 2009, 326, 97-104.	3.1	10
89	¹ H, ¹⁵ N and ¹³ C resonance assignments and secondary structure of apo liver fatty acid-binding protein. <i>Journal of Biomolecular NMR</i> , 1998, 12, 197-199.	2.8	9
90	Similar mechanisms of fatty acid transfer from human and rodent fatty acid-binding proteins to membranes: Liver, intestine, heart muscle, and adipose tissue FABPs. , 2002, , 25-33.		9

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91	Resistance to the pore-forming protein of cytotoxic T cells: Comparison of target cell membrane rigidity. <i>Molecular Immunology</i> , 1990, 27, 839-845.	2.2	8
92	Role of Membrane and Cytosolic Fatty Acid Binding Proteins in Lipid Processing by the Small Intestine. , 2006, , 1693-1709.		8
93	Two fatty acid-binding proteins expressed in the intestine interact differently with endocannabinoids. <i>Protein Science</i> , 2020, 29, 1606-1617.	7.6	8
94	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> , 2019, 294, 15358-15372.	3.4	6
95	Effect of phospholipid headgroup composition on the transfer of fluorescent long-chain free fatty acids between membranes. <i>Lipids and Lipid Metabolism</i> , 1993, 1168, 307-314.	2.6	5
96	Gut Microbiota and Phenotypic Changes Induced by Ablation of Liver- and Intestinal-Type Fatty Acid-Binding Proteins. <i>Nutrients</i> , 2022, 14, 1762.	4.1	5
97	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> , 2017, 10, 318-324.	1.3	4
98	Stereospecific synthesis of phosphatidylglycerol using a cyanoethyl phosphoramidite precursor. <i>Chemistry and Physics of Lipids</i> , 2020, 231, 104933.	3.2	3
99	Synthesis of Phosphatidyl Glycerol Containing Unsymmetric Acyl Chains Using H-Phosphonate Methodology. <i>Molecules</i> , 2022, 27, 2199.	3.8	3
100	Binding site polarity and ligand affinity of homologous fatty acid-binding proteins from animals with different body temperatures. <i>Molecular and Cellular Biochemistry</i> , 1996, 159, 39-45.	3.1	2
101	Cholesterol Transport in Lysosomes. , 2005, , 100-111.		2
102	Intestinal lipid metabolism is altered in Liver Fatty Acid-binding Protein-null mice (LFABP ^{-/-}). <i>FASEB Journal</i> , 2007, 21, A109.	0.5	2
103	Fatty Acid Binding Proteins and Fatty Acid Transport. , 0, , 119-133.		1
104	Proteins and Disease Structural Insight and Functional Diversity of Mammalian Fatty Acid Binding Proteins in Health and Disease. , 2021, , 63-76.		1
105	The Role of Fatty Acid Binding Proteins in Enterocyte Fatty Acid Transport. , 2001, , 153-170.		1
106	Nutritional Regulation of Fatty Acid Transport Protein Expression. <i>Modern Nutrition</i> , 2001, , 101-130.	0.1	1
107	Differential enterocyte partitioning of fatty acids in intestinal fatty acid-binding protein-null mice (IFABP ^{-/-}). <i>FASEB Journal</i> , 2009, 23, 521.6.	0.5	1
108	Diversity of fatty acid-binding protein structure and function: studies with fluorescent ligands. , 1993, , 45-53.		1

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109	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> , 2017, 1583, 97-110.	0.9	0
110	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.		0
111	The Role of Intracellular Fatty Acid-Binding Proteins in Cellular Transport of Fatty Acids. , 1996, , 53-59.		0