Concetta C Dirusso

List of Publications by Year
in descending order

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81 papers	4,773 citations	94269 37 h-index	98622 67 g-index
85 all docs	85 docs citations	85 times ranked	4979 citing authors

#	Article	IF	Citations
1	Fatty acid transport proteinÂ2 reprograms neutrophils in cancer. Nature, 2019, 569, 73-78.	13.7	440
2	A method for extracting high-molecular-weight deoxyribonucleic acid from fungi. Analytical Biochemistry, 1982, 119, 158-163.	1.1	200
3	Transmembrane Movement of Exogenous Long-Chain Fatty Acids: Proteins, Enzymes, and Vectorial Esterification. Microbiology and Molecular Biology Reviews, 2003, 67, 454-472.	2.9	200
4	Multiple Factors Independently Regulate hilA and Invasion Gene Expression in Salmonella enterica Serovar Typhimurium. Journal of Bacteriology, 2000, 182, 1872-1882.	1.0	197
5	Yeast acyl-CoA synthetases at the crossroads of fatty acid metabolism and regulation. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2007, 1771, 286-298.	1.2	174
6	The Acyl-CoA Synthetases Encoded within FAA1 andFAA4 in Saccharomyces cerevisiaeFunction as Components of the Fatty Acid Transport System Linking Import, Activation, and Intracellular Utilization. Journal of Biological Chemistry, 2001, 276, 37051-37059.	1.6	153
7	Disruption of the Saccharomyces cerevisiae Homologue to the Murine Fatty Acid Transport Protein Impairs Uptake and Growth on Long-chain Fatty Acids. Journal of Biological Chemistry, 1997, 272, 8531-8538.	1.6	152
8	Integrated Quantitative Analysis of Nitrogen Stress Response in Chlamydomonas reinhardtii Using Metabolite and Protein Profiling. Journal of Proteome Research, 2014, 13, 1373-1396.	1.8	145
9	Revised nomenclature for the mammalian long-chain acyl-CoA synthetase gene family. Journal of Lipid Research, 2004, 45, 1958-1961.	2.0	142
10	Mutational Analysis of a Fatty Acyl-Coenzyme A Synthetase Signature Motif Identifies Seven Amino Acid Residues That Modulate Fatty Acid Substrate Specificity. Journal of Biological Chemistry, 1997, 272, 4896-4903.	1.6	141
11	Molecular and biochemical analyses of fatty acid transport, metabolism, and gene regulation in Escherichia coli. Lipids and Lipid Metabolism, 1994, 1210, 123-145.	2.6	139
12	Molecular inroads into the regulation and metabolism of fatty acids, lessons from bacteria. Progress in Lipid Research, 1999, 38, 129-197.	5.3	129
13	Functional Role of Fatty Acyl-Coenzyme A Synthetase in the Transmembrane Movement and Activation of Exogenous Long-chain Fatty Acids. Journal of Biological Chemistry, 2002, 277, 29369-29376.	1.6	121
14	Comparative Biochemical Studies of the Murine Fatty Acid Transport Proteins (FATP) Expressed in Yeast. Journal of Biological Chemistry, 2005, 280, 16829-16837.	1.6	119
15	Fatty Acid Transport in Saccharomyces cerevisiae. Journal of Biological Chemistry, 2002, 277, 31062-31071.	1.6	112
16	Vectorial Acylation in Saccharomyces cerevisiae. Journal of Biological Chemistry, 2003, 278, 16414-16422.	1.6	108
17	The fats ofEscherichia coliduring infancy and old age: regulation by global regulators, alarmones and lipid intermediates. Molecular Microbiology, 1998, 27, 1-8.	1.2	100
18	Long-chain Acyl-CoA Synthetase 6 Preferentially Promotes DHA Metabolism. Journal of Biological Chemistry, 2005, 280, 10817-10826.	1.6	100

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19	Bacterial Long Chain Fatty Acid Transport: Gateway to a Fatty Acid-responsive Signaling System. Journal of Biological Chemistry, 2004, 279, 49563-49566.	1.6	92
20	Two different pathways are involved in the Î²-oxidation of n-alkanoic and n-phenylalkanoic acids in Pseudomonas putida U: genetic studies and biotechnological applications. Molecular Microbiology, 2001, 39, 863-874.	1.2	83
21	Long-Chain Acyl-CoAâ€“Dependent Regulation of Gene Expression in Bacteria, Yeast and Mammals. Journal of Nutrition, 2000, 130, 305S-309S.	1.3	80
22	Analysis of Acyl Coenzyme A Binding to the Transcription Factor FadR and Identification of Amino Acid Residues in the Carboxyl Terminus Required for Ligand Binding. Journal of Biological Chemistry, 1995, 270, 1092-1097.	1.6	63
23	The medium-/long-chain fatty acyl-CoA dehydrogenase (fadF) gene of Salmonella typhimurium is a phase 1 starvation-stress response (SSR) locus. Microbiology (United Kingdom), 1999, 145, 15-31.	0.7	62
24	Characterization of the Fatty Acid-responsive Transcription Factor FadR. Journal of Biological Chemistry, 1997, 272, 30645-30650.	1.6	59
25	Hepatic Gene Expression Changes in Mouse Models with Liver-specific Deletion or Global Suppression of the NADPH-Cytochrome P450 Reductase Gene. Journal of Biological Chemistry, 2005, 280, 31686-31698.	1.6	59
26	Fatty acid transport and activation and the expression patterns of genes involved in fatty acid trafficking. Archives of Biochemistry and Biophysics, 2008, 477, 363-371.	1.4	59
27	Fatty Acyl-CoA Binding Domain of the Transcription Factor FadR. Journal of Biological Chemistry, 1998, 273, 33652-33659.	1.6	54
28	Human Fatty Acid Transport Protein 2a/Very Long Chain Acyl-CoA Synthetase 1 (FATP2a/Acsvl1) Has a Preference in Mediating the Channeling of Exogenous n-3 Fatty Acids into Phosphatidylinositol. Journal of Biological Chemistry, 2011, 286, 30670-30679.	1.6	52
29	Title is missing!. , 1999, 192, 41-52.		51
30	Murine FATP alleviates growth and biochemical deficiencies of yeast fat1Î” strains. FEBS Journal, 2000, 267, 4422-4433.	0.2	50
31	A live-cell high-throughput screening assay for identification of fatty acid uptake inhibitors. Analytical Biochemistry, 2005, 336, 11-19.	1.1	48
32	Triacylglycerol synthesis during nitrogen stress involves the prokaryotic lipid synthesis pathway and acyl chain remodeling in the microalgae Coccomyxa subellipsoidea. Algal Research, 2015, 10, 110-120.	2.4	47
33	Fatty acid transport proteins: targeting FATP2 as a gatekeeper involved in the transport of exogenous fatty acids. MedChemComm, 2016, 7, 612-622.	3.5	45
34	Identification and Metabolite Profiling of Chemical Activators of Lipid Accumulation in Green Algae. Plant Physiology, 2017, 174, 2146-2165.	2.3	45
35	Combining Mass Spectrometry and NMR Improves Metabolite Detection and Annotation. Journal of Proteome Research, 2018, 17, 4017-4022.	1.8	45
36	Fatty acid transport by vectorial acylation in mammals: Roles played by different isoforms of rat long-chain acyl-CoA synthetases. Archives of Biochemistry and Biophysics, 2006, 447, 46-52.	1.4	44

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37	Chemical inhibition of fatty acid absorption and cellular uptake limits lipotoxic cell death. Biochemical Pharmacology, 2015, 98, 167-181.	2.0	43
38	Dietary omega-3 and omega-6 polyunsaturated fatty acids modulate hepatic pathology. Journal of Nutritional Biochemistry, 2018, 52, 92-102.	1.9	41
39	Nucleotide sequence of thefadRgene, a multifunctional regulator of fatty acid metabolism inEscherichia coli. Nucleic Acids Research, 1988, 16, 7995-8009.	6.5	39
40	Targeting the Fatty Acid Transport Proteins (FATP) to Understand the Mechanisms Linking Fatty Acid Transport to Metabolism. Immunology, Endocrine and Metabolic Agents in Medicinal Chemistry, 2009, 9, 11-17.	0.5	38
41	Vectorial Acylation: Linking Fatty Acid Transport and Activation to Metabolic Trafficking. Novartis Foundation Symposium, 2007, 286, 127-141.	1.2	38
42	Identification and characterization of small compound inhibitors of human FATP2. Biochemical Pharmacology, 2010, 79, 990-999.	2.0	35
43	Overexpression of human fatty acid transport protein 2/very long chain acyl-CoA synthetase 1 (FATP2/Acsvl1) reveals distinct patterns of trafficking of exogenous fatty acids. Biochemical and Biophysical Research Communications, 2013, 440, 743-748.	1.0	34
44	Rapid Detection and Quantification of Triacylglycerol by HPLCâ€“ELSD in Chlamydomonas reinhardtii and Chlorella Strains. Lipids, 2013, 48, 1035-1049.	0.7	34
45	Affinity Labeling Fatty Acyl-CoA Synthetase with 9-p-Azidophenoxy Nonanoic Acid and the Identification of the Fatty Acid-binding Site. Journal of Biological Chemistry, 2000, 275, 38547-38553.	1.6	33
46	Functional domains of the fatty acid transport proteins: Studies using protein chimeras. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2008, 1781, 135-143.	1.2	33
47	Long-chain omega-3 polyunsaturated fatty acids decrease mammary tumor growth, multiorgan metastasis and enhance survival. Clinical and Experimental Metastasis, 2018, 35, 797-818.	1.7	32
48	High-throughput screening for fatty acid uptake inhibitors in humanized yeast identifies atypical antipsychotic drugs that cause dyslipidemias. Journal of Lipid Research, 2008, 49, 230-244.	2.0	30
49	Innovations in improving lipid production: Algal chemical genetics. Progress in Lipid Research, 2018, 71, 101-123.	5.3	30
50	Immune regulation and anti-cancer activity by lipid inflammatory mediators. International Immunopharmacology, 2018, 65, 580-592.	1.7	29
51	Dietary polyunsaturated fatty acids (C18:2 Ï‰6 and C18:3 Ï‰3) do not suppress hepatic lipogenesis. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2008, 1781, 406-414.	1.2	28
52	Topology of the yeast fatty acid transport protein Fat1p: mechanistic implications for functional domains on the cytosolic surface of the plasma membrane. Journal of Lipid Research, 2007, 48, 2354-2364.	2.0	27
53	Novel DNA-sepharose purification of the FadR transcription factor. Journal of Chromatography A, 1994, 677, 45-52.	1.8	22
54	Rat Long Chain Acyl-CoA Synthetase 5, but Not 1, 2, 3, or 4, Complements Escherichia coli fadD. Journal of Biological Chemistry, 2004, 279, 11163-11169.	1.6	21

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55	Energetics Underlying the Process of Long-Chain Fatty Acid Transport. Archives of Biochemistry and Biophysics, 1999, 365, 299-306.	1.4	20
56	Carbon and Acyl Chain Flux during Stress-induced Triglyceride Accumulation by Stable Isotopic Labeling of the Polar Microalga Coccomyxa subellipsoidea C169. Journal of Biological Chemistry, 2017, 292, 361-374.	1.6	20
57	Deletion of fatty acid transport protein 2 (FATP2) in the mouse liver changes the metabolic landscape by increasing the expression of PPARÎ±-regulated genes. Journal of Biological Chemistry, 2020, 295, 5737-5750.	1.6	20
58	Mechanistic studies of the long chain acyl-CoA synthetase Faa1p from Saccharomyces cerevisiae. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2007, 1771, 1246-1253.	1.2	19
59	Fatty acid transport protein-2 inhibitor Grassofermata/CB5 protects cells against lipid accumulation and toxicity. Biochemical and Biophysical Research Communications, 2015, 465, 534-541.	1.0	17
60	Induction of oil accumulation by heat stress is metabolically distinct from N stress in the green microalgae Coccomyxa subellipsoidea C169. PLoS ONE, 2018, 13, e0204505.	1.1	17
61	Methods to Monitor Fatty Acid Transport Proceeding Through Vectorial Acylation. , 2009, 580, 233-249.		16
62	Direct interaction of Saccharomyces cerevisiae Faa1p with the Omi/HtrA protease orthologue Ynm3p alters lipid homeostasis. Molecular Genetics and Genomics, 2006, 275, 330-343.	1.0	15
63	Defining a relationship between dietary fatty acids and the cytochrome P450 system in a mouse model of fatty liver disease. Physiological Genomics, 2011, 43, 121-135.	1.0	15
64	The Amino-Terminal Region of the Long-Chain Fatty Acid Transport Protein FadL Contains an Externally Exposed Domain Required for Bacteriophage T2 Binding. Archives of Biochemistry and Biophysics, 2000, 377, 324-333.	1.4	13
65	Triglyceride quantification by catalytic saturation and LCâ€“MS/MS reveals an evolutionary divergence in regioisometry among green microalgae. Algal Research, 2014, 5, 23-31.	2.4	13
66	Reactive Oxygen Species (ROS) mediated degradation of organophosphate pesticides by the green microalgae Coccomyxa subellipsoidea. Bioresource Technology Reports, 2020, 11, 100461.	1.5	13
67	Phenotypic screening identifies Brefeldin A/Ascotoxin as an inducer of lipid storage in the algae Chlamydomonas reinhardtii. Algal Research, 2015, 11, 74-84.	2.4	12
68	Remodeling of Chlamydomonas Metabolism Using Synthetic Inducers Results in Lipid Storage during Growth. Plant Physiology, 2019, 181, 1029-1049.	2.3	12
69	Long-chain fatty acid transport in bacteria and yeast. Paradigms for defining the mechanism underlying this protein-mediated process. , 1999, , 41-52.		11
70	Long-Chain Omega-3 Polyunsaturated Fatty Acids Modulate Mammary Gland Composition and Inflammation. Journal of Mammary Gland Biology and Neoplasia, 2018, 23, 43-58.	1.0	10
71	Multiple forms of brain adenylate cyclase: Stimulation by Mn2+. Biochimica Et Biophysica Acta - Biomembranes, 1977, 485, 243-247.	1.4	7
72	Crystallization and X-ray diffraction studies of the fatty-acid responsive transcription factor FadR fromEscherichia coli. Acta Crystallographica Section D: Biological Crystallography, 2000, 56, 469-471.	2.5	6

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73	Transcriptome analysis-identified long noncoding RNA CRNDE in maintaining endothelial cell proliferation, migration, and tube formation. Scientific Reports, 2019, 9, 19548.	1.6	6
74	Possible Roles of Long-chain Fatty Acyl-CoA Esters in the Fusion of Biomembranes. , 2000, 34, 175-231.		4
75	Healthy pregnancies and essential fats: focus group discussions with Zambian women on dietary need and acceptability of a novel RUSF containing fish oil DHA. BMC Pregnancy and Childbirth, 2020, 20, 93.	0.9	2
76	Identification of Two Splice Variants of Human FATP2, Which Distinguish Fatty Acid Transport and Activation Activities. FASEB Journal, 2007, 21, A236.	0.2	0
77	Characterization of the Biochemical Activities Associated with Splice Variants of Human FATP2. FASEB Journal, 2008, 22, 806.1.	0.2	0
78	Distinguishing Biochemical Activities of Splice Variants of Human FATP2. FASEB Journal, 2010, 24, 691.2.	0.2	0
79	Inflammatory and Nutritional Biomarkers in the Plasma of Women in Zambia Reflect Low DHA and HIV Status. FASEB Journal, 2019, 33, 654.4.	0.2	0
80	RNA seq Analysis of Livers from Mice Lacking Fatty Acid Transport Protein 2 (FATP2) Demonstrate Metabolic Linkages in Genes Involved in PPARaâ€responsive Lipid Metabolic Pathways. FASEB Journal, 2019, 33, 488.12.	0.2	0
81	Evaluation of nâ€3 fatty acid status of pregnant women in Zambia with relation to HIV infection. FASEB Journal, 2019, 33, 654.5.	0.2	0