

Dolors Serra Cucurull

List of Publications by Year in descending order

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101
papers

4,558
citations

94433

37
h-index

114465

63
g-index

104
all docs

104
docs citations

104
times ranked

6822
citing authors

#	ARTICLE	IF	CITATIONS
1	HIF drives lipid deposition and cancer in ccRCC via repression of fatty acid metabolism. <i>Nature Communications</i> , 2017, 8, 1769.	12.8	303
2	Osteocalcin Signaling in Myofibers Is Necessary and Sufficient for Optimum Adaptation to Exercise. <i>Cell Metabolism</i> , 2016, 23, 1078-1092.	16.2	302
3	Central Ceramide-Induced Hypothalamic Lipotoxicity and ER Stress Regulate Energy Balance. <i>Cell Reports</i> , 2014, 9, 366-377.	6.4	195
4	Mitochondrial Fatty Acid Oxidation in Obesity. <i>Antioxidants and Redox Signaling</i> , 2013, 19, 269-284.	5.4	175
5	CPT1c Is Localized in Endoplasmic Reticulum of Neurons and Has Carnitine Palmitoyltransferase Activity. <i>Journal of Biological Chemistry</i> , 2008, 283, 6878-6885.	3.4	150
6	Renal tubule Cpt1a overexpression protects from kidney fibrosis by restoring mitochondrial homeostasis. <i>Journal of Clinical Investigation</i> , 2021, 131, .	8.2	147
7	Enhanced fatty acid oxidation in adipocytes and macrophages reduces lipid-induced triglyceride accumulation and inflammation. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2015, 308, E756-E769.	3.5	143
8	Increased inflammation, oxidative stress and mitochondrial respiration in brown adipose tissue from obese mice. <i>Scientific Reports</i> , 2017, 7, 16082.	3.3	139
9	Dietary Sugars Alter Hepatic Fatty Acid Oxidation via Transcriptional and Post-translational Modifications of Mitochondrial Proteins. <i>Cell Metabolism</i> , 2019, 30, 735-753.e4.	16.2	136
10	Natural trans-splicing in carnitine octanoyltransferase pre-mRNAs in rat liver. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 12185-12190.	7.1	130
11	Molecular therapy for obesity and diabetes based on a long-term increase in hepatic fatty-acid oxidation. <i>Hepatology</i> , 2011, 53, 821-832.	7.3	114
12	Fatty acid metabolism and the basis of brown adipose tissue function. <i>Adipocyte</i> , 2016, 5, 98-118.	2.8	103
13	Carnitine palmitoyltransferase 1C: From cognition to cancer. <i>Progress in Lipid Research</i> , 2016, 61, 134-148.	11.6	102
14	Vitamin E reduces adipose tissue fibrosis, inflammation, and oxidative stress and improves metabolic profile in obesity. <i>Obesity</i> , 2015, 23, 1598-1606.	3.0	90
15	Novel role of FATP1 in mitochondrial fatty acid oxidation in skeletal muscle cells. <i>Journal of Lipid Research</i> , 2009, 50, 1789-1799.	4.2	86
16	Ceramides and mitochondrial fatty acid oxidation in obesity. <i>FASEB Journal</i> , 2017, 31, 1263-1272.	0.5	83
17	Hypothalamic Ceramide Levels Regulated by CPT1C Mediate the Orexigenic Effect of Ghrelin. <i>Diabetes</i> , 2013, 62, 2329-2337.	0.6	82
18	Mechanisms of Impaired Brown Adipose Tissue Recruitment in Obesity. <i>Frontiers in Physiology</i> , 2019, 10, 94.	2.8	78

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19	Alteration of the Malonyl-CoA/Carnitine Palmitoyltransferase I Interaction in the β -Cell Impairs Glucose-Induced Insulin Secretion. <i>Diabetes</i> , 2005, 54, 462-471.	0.6	75
20	Adenovirus-mediated overexpression of liver carnitine palmitoyltransferase I in INS1E cells: effects on cell metabolism and insulin secretion. <i>Biochemical Journal</i> , 2002, 364, 219-226.	3.7	72
21	Ceramide Levels Regulated by Carnitine Palmitoyltransferase 1C Control Dendritic Spine Maturation and Cognition. <i>Journal of Biological Chemistry</i> , 2012, 287, 21224-21232.	3.4	71
22	White adipose tissue dysfunction in obesity and aging. <i>Biochemical Pharmacology</i> , 2021, 192, 114723.	4.4	70
23	CPT I overexpression protects L6E9 muscle cells from fatty acid-induced insulin resistance. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007, 292, E677-E686.	3.5	68
24	Identification of Conserved Amino Acid Residues in Rat Liver Carnitine Palmitoyltransferase I Critical for Malonyl-CoA Inhibition. <i>Journal of Biological Chemistry</i> , 2003, 278, 9058-9063.	3.4	65
25	Regulation of Mitochondrial 3-Hydroxy-3-methylglutaryl-coenzyme A Synthase Protein by Starvation, Fat Feeding, and Diabetes. <i>Archives of Biochemistry and Biophysics</i> , 1993, 307, 40-45.	3.0	60
26	Fatty acid synthase is a metabolic marker of cell proliferation rather than malignancy in ovarian cancer and its precursor cells. <i>International Journal of Cancer</i> , 2015, 136, 2078-2090.	5.1	60
27	Structural Model of the Catalytic Core of Carnitine Palmitoyltransferase I and Carnitine Octanoyltransferase (COT). <i>Journal of Biological Chemistry</i> , 2001, 276, 45001-45008.	3.4	53
28	Essential role of Nrf2 in the protective effect of lipoic acid against lipoapoptosis in hepatocytes. <i>Free Radical Biology and Medicine</i> , 2015, 84, 263-278.	2.9	50
29	Novel Effect of C75 on Carnitine Palmitoyltransferase I Activity and Palmitate Oxidation. <i>Biochemistry</i> , 2006, 45, 4339-4350.	2.5	49
30	Carnitine Palmitoyltransferase 1 Increases Lipolysis, UCP1 Protein Expression and Mitochondrial Activity in Brown Adipocytes. <i>PLoS ONE</i> , 2016, 11, e0159399.	2.5	47
31	Definition by Functional and Structural Analysis of Two Malonyl-CoA Sites in Carnitine Palmitoyltransferase 1A. <i>Journal of Biological Chemistry</i> , 2007, 282, 18212-18224.	3.4	45
32	Liver CPT1A gene therapy reduces diet-induced hepatic steatosis in mice and highlights potential lipid biomarkers for human NAFLD. <i>FASEB Journal</i> , 2020, 34, 11816-11837.	0.5	44
33	Ketogenic Mitochondrial 3-Hydroxy 3-Methylglutaryl-CoA Synthase Gene Expression in Intestine and Liver of Suckling Rats. <i>Archives of Biochemistry and Biophysics</i> , 1993, 301, 445-448.	3.0	43
34	Structural model of carnitine palmitoyltransferase I based on the carnitine acetyltransferase crystal. <i>Biochemical Journal</i> , 2004, 379, 777-784.	3.7	40
35	C75 is converted to C75-CoA in the hypothalamus, where it inhibits carnitine palmitoyltransferase 1 and decreases food intake and body weight. <i>Biochemical Pharmacology</i> , 2009, 77, 1084-1095.	4.4	40
36	Clinical and therapeutic relevance of the metabolic oncogene fatty acid synthase in HER2+ breast cancer. <i>Histology and Histopathology</i> , 2017, 32, 687-698.	0.7	40

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37	New approaches targeting brown adipose tissue transplantation as a therapy in obesity. <i>Biochemical Pharmacology</i> , 2018, 155, 346-355.	4.4	39
38	Structural Model of a Malonyl-CoA-binding Site of Carnitine Octanoyltransferase and Carnitine Palmitoyltransferase I. <i>Journal of Biological Chemistry</i> , 2002, 277, 11473-11480.	3.4	38
39	Impact of Adaptive Thermogenesis in Mice on the Treatment of Obesity. <i>Cells</i> , 2020, 9, 316.	4.1	33
40	Altered Circadian Rhythm and Metabolic Gene Profile in Rats Subjected to Advanced Light Phase Shifts. <i>PLoS ONE</i> , 2015, 10, e0122570.	2.5	33
41	Inhibition of carnitine palmitoyltransferase 1A in hepatic stellate cells protects against fibrosis. <i>Journal of Hepatology</i> , 2022, 77, 15-28.	3.7	31
42	Angiocrine polyamine production regulates adiposity. <i>Nature Metabolism</i> , 2022, 4, 327-343.	11.9	31
43	Mitochondrial 3-hydroxy-3-methylglutaryl coenzyme A synthase and carnitine palmitoyltransferase II as potential control sites for ketogenesis during mitochondrion and peroxisome proliferation. <i>Biochemical Pharmacology</i> , 1999, 57, 1011-1019.	4.4	30
44	Dietary Options for Rodents in the Study of Obesity. <i>Nutrients</i> , 2020, 12, 3234.	4.1	29
45	Differential Pharmacologic Properties of the Two C75 Enantiomers: (+)-C75 Is a Strong Anorectic Drug; (−)-C75 Has Antitumor Activity. <i>Chirality</i> , 2013, 25, 281-287.	2.6	28
46	CPT1C promotes human mesenchymal stem cells survival under glucose deprivation through the modulation of autophagy. <i>Scientific Reports</i> , 2018, 8, 6997.	3.3	28
47	Short-term vitamin E treatment impairs reactive oxygen species signaling required for adipose tissue expansion, resulting in fatty liver and insulin resistance in obese mice. <i>PLoS ONE</i> , 2017, 12, e0186579.	2.5	28
48	Localization of an exonic splicing enhancer responsible for mammalian natural trans-splicing. <i>Nucleic Acids Research</i> , 2001, 29, 3108-3115.	14.5	27
49	Redesign of Carnitine Acetyltransferase Specificity by Protein Engineering. <i>Journal of Biological Chemistry</i> , 2004, 279, 33899-33908.	3.4	27
50	CPT1C in the ventromedial nucleus of the hypothalamus is necessary for brown fat thermogenesis activation in obesity. <i>Molecular Metabolism</i> , 2019, 19, 75-85.	6.5	27
51	The BACE1 product sAPP β induces ER stress and inflammation and impairs insulin signaling. <i>Metabolism: Clinical and Experimental</i> , 2018, 85, 59-75.	3.4	26
52	Long-Term Increased Carnitine Palmitoyltransferase 1A Expression in Ventromedial Hypothalamus Causes Hyperphagia and Alters the Hypothalamic Lipidomic Profile. <i>PLoS ONE</i> , 2014, 9, e97195.	2.5	23
53	The Effect of Fasting/Refeeding and Insulin Treatment on the Expression of the Regulatory Genes of Ketogenesis in Intestine and Liver of Suckling Rats. <i>Archives of Biochemistry and Biophysics</i> , 1997, 340, 287-298.	3.0	22
54	Ten novel HMGCL mutations in 24 patients of different origin with 3-hydroxy-3-methyl-glutaric aciduria. <i>Human Mutation</i> , 2009, 30, E520-E529.	2.5	21

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55	Sensing of nutrients by CPT1C regulates late endosome/lysosome anterograde transport and axon growth. <i>ELife</i> , 2019, 8, .	6.0	20
56	Malonyl-CoA mediates leptin hypothalamic control of feeding independent of inhibition of CPT-1a. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011, 301, R209-R217.	1.8	19
57	Rapamycin negatively impacts insulin signaling, glucose uptake and uncoupling protein-1 in brown adipocytes. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2016, 1861, 1929-1941.	2.4	18
58	Hypothalamic Regulation of Liver and Muscle Nutrient Partitioning by Brain-Specific Carnitine Palmitoyltransferase 1C in Male Mice. <i>Endocrinology</i> , 2017, 158, 2226-2238.	2.8	18
59	Developmental Changes in the Phospho(enol)pyruvate Carboxykinase Gene Expression in Small Intestine and Liver of Suckling Rats. <i>Archives of Biochemistry and Biophysics</i> , 1996, 329, 82-86.	3.0	17
60	The Expression of Mitochondrial 3-Hydroxy-3-Methylglutaryl-Coenzyme-A Synthase in Neonatal Rat Intestine and Liver is Under Transcriptional Control. <i>FEBS Journal</i> , 1996, 237, 16-24.	0.2	17
61	Identification of the two histidine residues responsible for the inhibition by malonyl-CoA in peroxisomal carnitine octanoyltransferase from rat liver. <i>FEBS Letters</i> , 2000, 466, 183-186.	2.8	17
62	Structural (1±)8 TIM Barrel Model of 3-Hydroxy-3-methylglutaryl-Coenzyme A Lyase. <i>Journal of Biological Chemistry</i> , 2003, 278, 29016-29023.	3.4	17
63	Preparation of 1± labeled aldehydes by base catalyzed exchange reactions. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2010, 53, 556-558.	1.0	17
64	Moderate SIRT1 overexpression protects against brown adipose tissue inflammation. <i>Molecular Metabolism</i> , 2020, 42, 101097.	6.5	17
65	Brown Adipose Tissue Bioenergetics: A New Methodological Approach. <i>Advanced Science</i> , 2017, 4, 1600274.	11.2	16
66	Targeting AgRP neurons to maintain energy balance: Lessons from animal models. <i>Biochemical Pharmacology</i> , 2018, 155, 224-232.	4.4	16
67	Inhibition of ATG3 ameliorates liver steatosis by increasing mitochondrial function. <i>Journal of Hepatology</i> , 2022, 76, 11-24.	3.7	16
68	Influence of etomoxir on the expression of several genes in liver, testis and heart. <i>General Pharmacology</i> , 1995, 26, 897-904.	0.7	15
69	Impaired ketogenesis is a major mechanism for disturbed hepatic fatty acid metabolism in rats with long-term cholestasis and after relief of biliary obstruction. <i>Journal of Hepatology</i> , 2002, 37, 564-571.	3.7	15
70	Inhibition of fatty acid synthesis induces differentiation and reduces tumor burden in childhood neuroblastoma. <i>Science</i> , 2021, 24, 102128.	4.1	15
71	Impaired hepatic fatty acid oxidation in rats with short-term cholestasis: characterization and mechanism. <i>Journal of Lipid Research</i> , 2001, 42, 22-30.	4.2	15
72	Hypothalamic endocannabinoids inversely correlate with the development of diet-induced obesity in male and female mice. <i>Journal of Lipid Research</i> , 2019, 60, 1260-1269.	4.2	13

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73	Hypothalamus-skeletal muscle crosstalk during exercise and its role in metabolism modulation. <i>Biochemical Pharmacology</i> , 2021, 190, 114640.	4.4	13
74	Inhibition by etomoxir of rat liver carnitine octanoyltransferase is produced through the co-ordinate interaction with two histidine residues. <i>Biochemical Journal</i> , 2000, 351, 495-502.	3.7	12
75	($\hat{\alpha}$)-LUB006: A new fatty acid synthase inhibitor and cytotoxic agent without anorexic side effects. <i>European Journal of Medicinal Chemistry</i> , 2017, 131, 207-221.	5.5	12
76	An overview of nanomedicines for neuron targeting. <i>Nanomedicine</i> , 2020, 15, 1617-1636.	3.3	12
77	The effect of fasting and insulin treatment on carnitine palmitoyl transferase I and mitochondrial 3-hydroxy-3-methylglutaryl coenzyme A synthase mRNA levels in liver from suckling rats. <i>Biochemical Society Transactions</i> , 1995, 23, 493S-493S.	3.4	11
78	Important role of ventromedial hypothalamic carnitine palmitoyltransferase-1a in the control of food intake. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2013, 305, E336-E347.	3.5	11
79	The effect of etomoxir on the mRNA levels of enzymes involved in ketogenesis and cholesterologenesis in rat liver. <i>Biochemical Pharmacology</i> , 1994, 47, 1373-1379.	4.4	10
80	Ghrelin Causes a Decline in GABA Release by Reducing Fatty Acid Oxidation in Cortex. <i>Molecular Neurobiology</i> , 2018, 55, 7216-7228.	4.0	10
81	Poly-ion complex micelles effectively deliver CoA-conjugated CPT1A inhibitors to modulate lipid metabolism in brain cells. <i>Biomaterials Science</i> , 2021, 9, 7076-7091.	5.4	10
82	Tissue-specific Expression and Dietary Regulation of Chimeric Mitochondrial 3-Hydroxy-3-methylglutaryl Coenzyme A Synthase/Human Growth Hormone Gene in Transgenic Mice. <i>Journal of Biological Chemistry</i> , 1996, 271, 7529-7534.	3.4	9
83	Mitochondrial 3-hydroxy-3-methylglutaryl-CoA synthase promoter contains a CREB binding site that regulates cAMP action in Caco-2 cells. <i>Biochemical Journal</i> , 2000, 345, 201-206.	3.7	8
84	Mutagenesis of Specific Amino Acids Converts Carnitine Acetyltransferase into Carnitine Palmitoyltransferase. <i>Biochemistry</i> , 2006, 45, 6133-6141.	2.5	8
85	Inhibition by etomoxir of rat liver carnitine octanoyltransferase is produced through the co-ordinate interaction with two histidine residues. <i>Biochemical Journal</i> , 2000, 351, 495.	3.7	7
86	Enhancing Hepatic Fatty Acid Oxidation as a Strategy for Reversing Metabolic Disorders Programmed by Maternal Undernutrition During Gestation. <i>Cellular Physiology and Biochemistry</i> , 2014, 33, 1498-1515.	1.6	7
87	Low-density lipoprotein receptor-related protein 1 deficiency in cardiomyocytes reduces susceptibility to insulin resistance and obesity. <i>Metabolism: Clinical and Experimental</i> , 2020, 106, 154191.	3.4	7
88	Modulation in vitro of H-ras oncogene expression by trans-splicing. <i>Oncogene</i> , 2001, 20, 3683-3694.	5.9	6
89	Infusion of Phagocytic Macrophages Overexpressing CPT1a Ameliorates Kidney Fibrosis in the UUO Model. <i>Cells</i> , 2021, 10, 1650.	4.1	6
90	The effect of dexamethasone treatment on the expression of the regulatory genes of ketogenesis in intestine and liver of suckling rats. <i>Molecular and Cellular Biochemistry</i> , 1998, 178, 325-333.	3.1	4

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91	Mitochondrial 3-hydroxy-3-methylglutaryl-CoA synthase promoter contains a CREB binding site that regulates cAMP action in Caco-2 cells. <i>Biochemical Journal</i> , 2000, 345, 201.	3.7	4
92	Developmental Changes in Carnitine Octanoyltransferase Gene Expression in Intestine and Liver of Suckling Rats. <i>Archives of Biochemistry and Biophysics</i> , 2001, 385, 283-289.	3.0	4
93	Ptpn1 deletion protects oval cells against lipoapoptosis by favoring lipid droplet formation and dynamics. <i>Cell Death and Differentiation</i> , 2022, 29, 2362-2380.	11.2	4
94	Convenient synthesis of C75, an inhibitor of FAS and CPT1. <i>RSC Advances</i> , 2013, 3, 6564.	3.6	3
95	Effects of High-Fat Diet and Maternal Binge-Like Alcohol Consumption and Their Influence on Cocaine Response in Female Mice Offspring. <i>International Journal of Neuropsychopharmacology</i> , 2021, 24, 77-88.	2.1	2
96	White adipose tissue-infiltrated CD11b+ myeloid cells are a source of S100A4, a new potential marker of hepatic damage. <i>European Journal of Endocrinology</i> , 2021, 184, 533-541.	3.7	2
97	Mitochondrial 3-hydroxy-3-methylglutaryl CoA synthase and carnitine palmitoyltransferase II are potential control sites of hepatic ketogenesis under conditions of peroxisome proliferation. <i>Lipids</i> , 1999, 34, S163-S163.	1.7	1
98	Primary retrovesical hydatidosis as a cause of chronic kidney disease. <i>Nefrologia</i> , 2013, 33, 285-6.	0.4	1
99	Reply:. <i>Hepatology</i> , 2011, 53, 2145-2146.	7.3	0
100	Bioenergetics: Brown Adipose Tissue Bioenergetics: A New Methodological Approach (<i>Adv. Sci.</i> 4/2017). <i>Advanced Science</i> , 2017, 4, .	11.2	0
101	Brown Adipose Tissue in Obesity and Diabetes. , 2020, , 35-54.		0