

# Laura Herrero

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

66

papers

4,687

citations

25

h-index

68

g-index

74

ext. papers

5,660

ext. citations

7.2

avg, IF

5.39

L-index

#	Paper	IF	Citations
66	Lean, but not obese, fat is enriched for a unique population of regulatory T cells that affect metabolic parameters. <i>Nature Medicine</i> , <b>2009</b> , 15, 930-9	50.5	1479
65	Obesity, inflammation, and insulin resistance. <i>Gastroenterology</i> , <b>2007</b> , 132, 2169-80	13.3	1240
64	HIF drives lipid deposition and cancer in ccRCC via repression of fatty acid metabolism. <i>Nature Communications</i> , <b>2017</b> , 8, 1769	17.4	158
63	Mitochondrial fatty acid oxidation in obesity. <i>Antioxidants and Redox Signaling</i> , <b>2013</b> , 19, 269-84	8.4	123
62	Inflammation and adipose tissue macrophages in lipodystrophic mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 240-5	11.5	120
61	Increased inflammation, oxidative stress and mitochondrial respiration in brown adipose tissue from obese mice. <i>Scientific Reports</i> , <b>2017</b> , 7, 16082	4.9	100
60	Enhanced fatty acid oxidation in adipocytes and macrophages reduces lipid-induced triglyceride accumulation and inflammation. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2015</b> , 308, E756-69	6	99
59	Molecular therapy for obesity and diabetes based on a long-term increase in hepatic fatty-acid oxidation. <i>Hepatology</i> , <b>2011</b> , 53, 821-32	11.2	95
58	Bioenergetics: Brown Adipose Tissue Bioenergetics: A New Methodological Approach (Adv. Sci. 4/2017). <i>Advanced Science</i> , <b>2017</b> , 4,	13.6	78
57	The transcription factor SREBP-1c is instrumental in the development of beta-cell dysfunction. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 16622-9	5.4	73
56	Fatty acid metabolism and the basis of brown adipose tissue function. <i>Adipocyte</i> , <b>2016</b> , 5, 98-118	3.2	67
55	Adenovirus-mediated overexpression of liver carnitine palmitoyltransferase I in INS1E cells: effects on cell metabolism and insulin secretion. <i>Biochemical Journal</i> , <b>2002</b> , 364, 219-26	3.8	67
54	Dietary Sugars Alter Hepatic Fatty Acid Oxidation via Transcriptional and Post-translational Modifications of Mitochondrial Proteins. <i>Cell Metabolism</i> , <b>2019</b> , 30, 735-753.e4	24.6	66
53	Alteration of the malonyl-CoA/carnitine palmitoyltransferase I interaction in the beta-cell impairs glucose-induced insulin secretion. <i>Diabetes</i> , <b>2005</b> , 54, 462-71	0.9	66
52	Carnitine palmitoyltransferase 1C: From cognition to cancer. <i>Progress in Lipid Research</i> , <b>2016</b> , 61, 134-48	14.3	64
51	Ceramides and mitochondrial fatty acid oxidation in obesity. <i>FASEB Journal</i> , <b>2017</b> , 31, 1263-1272	0.9	61
50	CPT I overexpression protects L6E9 muscle cells from fatty acid-induced insulin resistance. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2007</b> , 292, E677-86	6	59

49	Vitamin E reduces adipose tissue fibrosis, inflammation, and oxidative stress and improves metabolic profile in obesity. <i>Obesity</i> , <b>2015</b> , 23, 1598-606	8	57
48	Ceramide levels regulated by carnitine palmitoyltransferase 1C control dendritic spine maturation and cognition. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 21224-32	5.4	49
47	Novel effect of C75 on carnitine palmitoyltransferase I activity and palmitate oxidation. <i>Biochemistry</i> , <b>2006</b> , 45, 4339-50	3.2	47
46	Essential role of Nrf2 in the protective effect of lipoic acid against lipoapoptosis in hepatocytes. <i>Free Radical Biology and Medicine</i> , <b>2015</b> , 84, 263-278	7.8	42
45	Renal tubule Cpt1a overexpression protects from kidney fibrosis by restoring mitochondrial homeostasis. <i>Journal of Clinical Investigation</i> , <b>2021</b> , 131,	15.9	42
44	Mechanisms of Impaired Brown Adipose Tissue Recruitment in Obesity. <i>Frontiers in Physiology</i> , <b>2019</b> , 10, 94	4.6	38
43	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> , <b>2009</b> , 77, 1084-95	6	36
42	Carnitine Palmitoyltransferase 1 Increases Lipolysis, UCP1 Protein Expression and Mitochondrial Activity in Brown Adipocytes. <i>PLoS ONE</i> , <b>2016</b> , 11, e0159399	3.7	32
41	New approaches targeting brown adipose tissue transplantation as a therapy in obesity. <i>Biochemical Pharmacology</i> , <b>2018</b> , 155, 346-355	6	24
40	Differential pharmacologic properties of the two C75 enantiomers: (+)-C75 is a strong anorectic drug; (-)-C75 has antitumor activity. <i>Chirality</i> , <b>2013</b> , 25, 281-7	2.1	24
39	Altered circadian rhythm and metabolic gene profile in rats subjected to advanced light phase shifts. <i>PLoS ONE</i> , <b>2015</b> , 10, e0122570	3.7	24
38	Long-term increased carnitine palmitoyltransferase 1A expression in ventromedial hypothalamus causes hyperphagia and alters the hypothalamic lipidomic profile. <i>PLoS ONE</i> , <b>2014</b> , 9, e97195	3.7	19
37	CPT1C in the ventromedial nucleus of the hypothalamus is necessary for brown fat thermogenesis activation in obesity. <i>Molecular Metabolism</i> , <b>2019</b> , 19, 75-85	8.8	18
36	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> , <b>2017</b> , 12, e0186579	3.7	16
35	Inhibitors of lipogenic enzymes as a potential therapy against cancer. <i>FASEB Journal</i> , <b>2020</b> , 34, 11355-11381	3.1	16
34	The BACE1 product sAPP $\beta$ induces ER stress and inflammation and impairs insulin signaling. <i>Metabolism: Clinical and Experimental</i> , <b>2018</b> , 85, 59-75	12.7	15
33	Impact of Adaptive Thermogenesis in Mice on the Treatment of Obesity. <i>Cells</i> , <b>2020</b> , 9,	7.9	13
32	The role of epigenetics in the development of obesity. <i>Biochemical Pharmacology</i> , <b>2020</b> , 177, 113973	6	13

31	Gluten-induced RNA methylation changes regulate intestinal inflammation via allele-specific translation in epithelial cells. <i>Gut</i> , <b>2022</b> , 71, 68-76	19.2	12
30	Liver CPT1A gene therapy reduces diet-induced hepatic steatosis in mice and highlights potential lipid biomarkers for human NAFLD. <i>FASEB Journal</i> , <b>2020</b> , 34, 11816-11837	0.9	11
29	Targeting AgRP neurons to maintain energy balance: Lessons from animal models. <i>Biochemical Pharmacology</i> , <b>2018</b> , 155, 224-232	6	10
28	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> , <b>2016</b> , 1861, 1929-1941	5	10
27	Dietary Options for Rodents in the Study of Obesity. <i>Nutrients</i> , <b>2020</b> , 12,	6.7	9
26	White adipose tissue dysfunction in obesity and aging. <i>Biochemical Pharmacology</i> , <b>2021</b> , 192, 114723	6	9
25	Hypothalamic Regulation of Liver and Muscle Nutrient Partitioning by Brain-Specific Carnitine Palmitoyltransferase 1C in Male Mice. <i>Endocrinology</i> , <b>2017</b> , 158, 2226-2238	4.8	8
24	Brown Adipose Tissue Bioenergetics: A New Methodological Approach. <i>Advanced Science</i> , <b>2017</b> , 4, 16002746	3.6	8
23	(-)-UB006: A new fatty acid synthase inhibitor and cytotoxic agent without anorexic side effects. <i>European Journal of Medicinal Chemistry</i> , <b>2017</b> , 131, 207-221	6.8	7
22	Ghrelin Causes a Decline in GABA Release by Reducing Fatty Acid Oxidation in Cortex. <i>Molecular Neurobiology</i> , <b>2018</b> , 55, 7216-7228	6.2	7
21	Amyloidosis of the Breast: Three Different and Unusual Presentations of a Rare Entity. <i>Pathobiology</i> , <b>2015</b> , 82, 264-8	3.6	7
20	Enhancing hepatic fatty acid oxidation as a strategy for reversing metabolic disorders programmed by maternal undernutrition during gestation. <i>Cellular Physiology and Biochemistry</i> , <b>2014</b> , 33, 1498-515	3.9	7
19	An overview of nanomedicines for neuron targeting. <i>Nanomedicine</i> , <b>2020</b> , 15, 1617-1636	5.6	6
18	Moderate SIRT1 overexpression protects against brown adipose tissue inflammation. <i>Molecular Metabolism</i> , <b>2020</b> , 42, 101097	8.8	6
17	Hypothalamic endocannabinoids inversely correlate with the development of diet-induced obesity in male and female mice. <i>Journal of Lipid Research</i> , <b>2019</b> , 60, 1260-1269	6.3	5
16	Use of Infrared Thermography to Estimate Brown Fat Activation After a Cooling Protocol in Patients with Severe Obesity That Underwent Bariatric Surgery. <i>Obesity Surgery</i> , <b>2020</b> , 30, 2375-2381	3.7	3
15	Low-density lipoprotein receptor-related protein 1 deficiency in cardiomyocytes reduces susceptibility to insulin resistance and obesity. <i>Metabolism: Clinical and Experimental</i> , <b>2020</b> , 106, 154191	12.7	3
14	Convenient synthesis of C75, an inhibitor of FAS and CPT1. <i>RSC Advances</i> , <b>2013</b> , 3, 6564	3.7	3

13	Renal tubule Cpt1a overexpression protects from kidney fibrosis by restoring mitochondrial homeostasis		3
12	Poly-ion complex micelles effectively deliver CoA-conjugated CPT1A inhibitors to modulate lipid metabolism in brain cells. <i>Biomaterials Science</i> , <b>2021</b> , 9, 7076-7091	7.4	3
11	Hypothalamus-skeletal muscle crosstalk during exercise and its role in metabolism modulation. <i>Biochemical Pharmacology</i> , <b>2021</b> , 190, 114640	6	2
10	Synthesis of new C75 derivatives, Fatty Acid Synthase inhibitors with cytotoxic properties. <i>Revista Bionatura</i> , <b>2019</b> , 02,	0.3	1
9	Calorie Restriction and SIRT1 Overexpression Induce Different Gene Expression Profiles in White Adipose Tissue in Association with Metabolic Improvement. <i>Molecular Nutrition and Food Research</i> , <b>2021</b> , 65, e2000672	5.9	1
8	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> , <b>2021</b> , 184, 533-541	6.5	1
7	Out-of-Hospital Tissue Donation: Multidisciplinary Donor Circuit in a Forensic Institute. <i>Transplantation Proceedings</i> , <b>2019</b> , 51, 3219-3221	1.1	1
6	Inhibition of ATG3 ameliorates liver steatosis by increasing mitochondrial function. <i>Journal of Hepatology</i> , <b>2021</b> ,	13.4	1
5	A Galactooligosaccharide Product Decreases the Rotavirus Infection in Suckling Rats. <i>Cells</i> , <b>2022</b> , 11, 1669	7.9	1
4	Reply:. <i>Hepatology</i> , <b>2011</b> , 53, 2145-2146	11.2	
3	Brown Adipose Tissue in Obesity and Diabetes <b>2020</b> , 35-54		
2	Synthesis of new Carnitine Palmitoyltransferase I inhibitors derivatives of C75. <i>Revista Bionatura</i> , <b>2019</b> , 4, 917-921	0.3	
1	Gene Expression Profiles of Visceral and Subcutaneous Adipose Tissues in Children with Overweight or Obesity: The KIDADIPOSEQ Project. <i>Lecture Notes in Computer Science</i> , <b>2022</b> , 42-46	0.9	