

# Laura Herrero

## List of Publications by Year in descending order

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Version: 2024-02-01

69  
papers

6,328  
citations

172207

29  
h-index

106150

65  
g-index

74  
all docs

74  
docs citations

74  
times ranked

11176  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Lean, but not obese, fat is enriched for a unique population of regulatory T cells that affect metabolic parameters. <i>Nature Medicine</i> , 2009, 15, 930-939.   | 15.2 | 1,790     |
| 2  | Obesity, Inflammation, and Insulin Resistance. <i>Gastroenterology</i> , 2007, 132, 2169-2180.   | 0.6  | 1,464     |
| 3  | HIF drives lipid deposition and cancer in ccRCC via repression of fatty acid metabolism. <i>Nature Communications</i> , 2017, 8, 1769.   | 5.8  | 303       |
| 4  | Mitochondrial Fatty Acid Oxidation in Obesity. <i>Antioxidants and Redox Signaling</i> , 2013, 19, 269-284.  | 2.5  | 175       |
| 5  | Renal tubule Cpt1a overexpression protects from kidney fibrosis by restoring mitochondrial homeostasis. <i>Journal of Clinical Investigation</i> , 2021, 131, .  | 3.9  | 147       |
| 6  | 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. | 1.8  | 143       |
| 7  | Increased inflammation, oxidative stress and mitochondrial respiration in brown adipose tissue from obese mice. <i>Scientific Reports</i> , 2017, 7, 16082.  | 1.6  | 139       |
| 8  | 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.                                       | 7.2  | 136       |
| 9  | Inflammation and adipose tissue macrophages in lipodystrophic mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 240-245.   | 3.3  | 135       |
| 10 | Molecular therapy for obesity and diabetes based on a long-term increase in hepatic fatty-acid oxidation. <i>Hepatology</i> , 2011, 53, 821-832.   | 3.6  | 114       |
| 11 | Fatty acid metabolism and the basis of brown adipose tissue function. <i>Adipocyte</i> , 2016, 5, 98-118.  | 1.3  | 103       |
| 12 | Carnitine palmitoyltransferase 1C: From cognition to cancer. <i>Progress in Lipid Research</i> , 2016, 61, 134-148.  | 5.3  | 102       |
| 13 | Vitamin E reduces adipose tissue fibrosis, inflammation, and oxidative stress and improves metabolic profile in obesity. <i>Obesity</i> , 2015, 23, 1598-1606.   | 1.5  | 90        |
| 14 | Ceramides and mitochondrial fatty acid oxidation in obesity. <i>FASEB Journal</i> , 2017, 31, 1263-1272.   | 0.2  | 83        |
| 15 | The Transcription Factor SREBP-1c Is Instrumental in the Development of $\beta$ -Cell Dysfunction. <i>Journal of Biological Chemistry</i> , 2003, 278, 16622-16629.  | 1.6  | 80        |
| 16 | Mechanisms of Impaired Brown Adipose Tissue Recruitment in Obesity. <i>Frontiers in Physiology</i> , 2019, 10, 94.   | 1.3  | 78        |
| 17 | Alteration of the Malonyl-CoA/Carnitine Palmitoyltransferase I Interaction in the $\beta$ -Cell Impairs Glucose-Induced Insulin Secretion. <i>Diabetes</i> , 2005, 54, 462-471.  | 0.3  | 75        |
| 18 | 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.                            | 1.7  | 72        |

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|----|---|-----|-----------|
| 19 | Ceramide Levels Regulated by Carnitine Palmitoyltransferase 1C Control Dendritic Spine Maturation and Cognition. <i>Journal of Biological Chemistry</i> , 2012, 287, 21224-21232.                     | 1.6 | 71        |
| 20 | White adipose tissue dysfunction in obesity and aging. <i>Biochemical Pharmacology</i> , 2021, 192, 114723.   | 2.0 | 70        |
| 21 | 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.              | 1.8 | 68        |
| 22 | 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.                                    | 1.3 | 50        |
| 23 | Novel Effect of C75 on Carnitine Palmitoyltransferase I Activity and Palmitate Oxidation. <i>Biochemistry</i> , 2006, 45, 4339-4350.  | 1.2 | 49        |
| 24 | Carnitine Palmitoyltransferase 1 Increases Lipolysis, UCP1 Protein Expression and Mitochondrial Activity in Brown Adipocytes. <i>PLoS ONE</i> , 2016, 11, e0159399.                                   | 1.1 | 47        |
| 25 | 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.                      | 0.2 | 44        |
| 26 | 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. | 2.0 | 40        |
| 27 | New approaches targeting brown adipose tissue transplantation as a therapy in obesity. <i>Biochemical Pharmacology</i> , 2018, 155, 346-355.  | 2.0 | 39        |
| 28 | Inhibitors of lipogenic enzymes as a potential therapy against cancer. <i>FASEB Journal</i> , 2020, 34, 11355-11381.  | 0.2 | 33        |
| 29 | Impact of Adaptive Thermogenesis in Mice on the Treatment of Obesity. <i>Cells</i> , 2020, 9, 316.  | 1.8 | 33        |
| 30 | Altered Circadian Rhythm and Metabolic Gene Profile in Rats Subjected to Advanced Light Phase Shifts. <i>PLoS ONE</i> , 2015, 10, e0122570.   | 1.1 | 33        |
| 31 | Inhibition of carnitine palmitoyltransferase 1A in hepatic stellate cells protects against fibrosis. <i>Journal of Hepatology</i> , 2022, 77, 15-28.  | 1.8 | 31        |
| 32 | Angiocrine polyamine production regulates adiposity. <i>Nature Metabolism</i> , 2022, 4, 327-343.   | 5.1 | 31        |
| 33 | The role of epigenetics in the development of obesity. <i>Biochemical Pharmacology</i> , 2020, 177, 113973.   | 2.0 | 30        |
| 34 | Dietary Options for Rodents in the Study of Obesity. <i>Nutrients</i> , 2020, 12, 3234.   | 1.7 | 29        |
| 35 | Gluten-induced RNA methylation changes regulate intestinal inflammation via allele-specific XPO1 translation in epithelial cells. <i>Gut</i> , 2022, 71, 68-76.                                       | 6.1 | 29        |
| 36 | Differential Pharmacologic Properties of the Two C75 Enantiomers: (+)-C75 Is a Strong Anorectic Drug; (âˆ’)-C75 Has Antitumor Activity. <i>Chirality</i> , 2013, 25, 281-287.                         | 1.3 | 28        |

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|----|--|-----|-----------|
| 37 | 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. | 1.1 | 28        |
| 38 | 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.   | 3.0 | 27        |
| 39 | The BACE1 product sAPP $\beta$ induces ER stress and inflammation and impairs insulin signaling. <i>Metabolism: Clinical and Experimental</i> , 2018, 85, 59-75.   | 1.5 | 26        |
| 40 | 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.                   | 1.1 | 23        |
| 41 | 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.    | 1.2 | 18        |
| 42 | Hypothalamic Regulation of Liver and Muscle Nutrient Partitioning by Brain-Specific Carnitine Palmitoyltransferase 1C in Male Mice. <i>Endocrinology</i> , 2017, 158, 2226-2238.                                     | 1.4 | 18        |
| 43 | Moderate SIRT1 overexpression protects against brown adipose tissue inflammation. <i>Molecular Metabolism</i> , 2020, 42, 101097.  | 3.0 | 17        |
| 44 | Brown Adipose Tissue Bioenergetics: A New Methodological Approach. <i>Advanced Science</i> , 2017, 4, 1600274.   | 5.6 | 16        |
| 45 | Targeting AgRP neurons to maintain energy balance: Lessons from animal models. <i>Biochemical Pharmacology</i> , 2018, 155, 224-232.   | 2.0 | 16        |
| 46 | Inhibition of ATG3 ameliorates liver steatosis by increasing mitochondrial function. <i>Journal of Hepatology</i> , 2022, 76, 11-24.   | 1.8 | 16        |
| 47 | 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.                                      | 2.0 | 13        |
| 48 | Hypothalamus-skeletal muscle crosstalk during exercise and its role in metabolism modulation. <i>Biochemical Pharmacology</i> , 2021, 190, 114640.   | 2.0 | 13        |
| 49 | Amyloidosis of the Breast: Three Different and Unusual Presentations of a Rare Entity. <i>Pathobiology</i> , 2015, 82, 264-268.  | 1.9 | 12        |
| 50 | ( $\hat{a}$ ) <sup>+</sup> -UB006: A new fatty acid synthase inhibitor and cytotoxic agent without anorexic side effects. <i>European Journal of Medicinal Chemistry</i> , 2017, 131, 207-221.                       | 2.6 | 12        |
| 51 | An overview of nanomedicines for neuron targeting. <i>Nanomedicine</i> , 2020, 15, 1617-1636.  | 1.7 | 12        |
| 52 | Ghrelin Causes a Decline in GABA Release by Reducing Fatty Acid Oxidation in Cortex. <i>Molecular Neurobiology</i> , 2018, 55, 7216-7228.  | 1.9 | 10        |
| 53 | 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.   | 2.6 | 10        |
| 54 | 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.    | 1.1 | 7         |

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|----|--|-----|-----------|
| 55 | 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.                  | 1.5 | 7         |
| 56 | Effects of Lifestyle Intervention in Tissue-Specific Lipidomic Profile of Formerly Obese Mice. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3694.  | 1.8 | 7         |
| 57 | 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> , 2020, 30, 2375-2381.                       | 1.1 | 6         |
| 58 | 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> , 2021, 65, e2000672. | 1.5 | 6         |
| 59 | Infusion of Phagocytic Macrophages Overexpressing CPT1a Ameliorates Kidney Fibrosis in the UUO Model. <i>Cells</i> , 2021, 10, 1650.   | 1.8 | 6         |
| 60 | Ptpn1 deletion protects oval cells against lipoapoptosis by favoring lipid droplet formation and dynamics. <i>Cell Death and Differentiation</i> , 2022, 29, 2362-2380.  | 5.0 | 4         |
| 61 | Convenient synthesis of C75, an inhibitor of FAS and CPT1. <i>RSC Advances</i> , 2013, 3, 6564.  | 1.7 | 3         |
| 62 | 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.                                       | 1.9 | 2         |
| 63 | A Galactooligosaccharide Product Decreases the Rotavirus Infection in Suckling Rats. <i>Cells</i> , 2022, 11, 1669.  | 1.8 | 2         |
| 64 | Out-of-Hospital Tissue Donation: Multidisciplinary Donor Circuit in a Forensic Institute. <i>Transplantation Proceedings</i> , 2019, 51, 3219-3221.  | 0.3 | 1         |
| 65 | Synthesis of new C75 derivatives, Fatty Acid Synthase inhibitors with cytotoxic properties. <i>Revista Bionatura</i> , 2019, 02, .   | 0.1 | 1         |
| 66 | Reply:. <i>Hepatology</i> , 2011, 53, 2145-2146.   | 3.6 | 0         |
| 67 | Bioenergetics: Brown Adipose Tissue Bioenergetics: A New Methodological Approach ( <i>Adv. Sci.</i> 4/2017). <i>Advanced Science</i> , 2017, 4, .  | 5.6 | 0         |
| 68 | Synthesis of new Carnitine Palmitoyltransferase I inhibitors derivatives of C75. <i>Revista Bionatura</i> , 2019, 4, 917-921.  | 0.1 | 0         |
| 69 | Brown Adipose Tissue in Obesity and Diabetes. , 2020, , 35-54.   |     | 0         |