

Jos-Antonio Fernandez-Lopez

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116
papers

1,526
citations

21
h-index

30
g-index

117
ext. papers

1,636
ext. citations

4.3
avg, IF

4.49
L-index

#	Paper	IF	Citations
116	Formaldehyde derived from dietary aspartame binds to tissue components in vivo. <i>Life Sciences</i> , 1998 , 63, 337-49	6.8	86
115	Estrone in food: a factor influencing the development of obesity?. <i>European Journal of Nutrition</i> , 1999 , 38, 247-53	5.2	49
114	Is leptin an insulin counter-regulatory hormone?. <i>FEBS Letters</i> , 1997 , 402, 9-11	3.8	47
113	Rats receiving the slimming agent oleoyl-estrone in liposomes (Merlin-2) decrease food intake but maintain thermogenesis. <i>Archives of Physiology and Biochemistry</i> , 1997 , 105, 663-72	2.2	42
112	Short-term treatment with oleoyl-oestrone in liposomes (Merlin-2) strongly reduces the expression of the ob gene in young rats. <i>Biochemical Journal</i> , 1997 , 326 (Pt 2), 357-60	3.8	42
111	Glutamine synthetase activity in the organs of fed and 24-hours fasted rats. <i>Hormone and Metabolic Research</i> , 1981 , 13, 199-202	3.1	40
110	Daily oral oleoyl-estrone gavage induces a dose-dependent loss of fat in Wistar rats. <i>Obesity</i> , 2001 , 9, 202-9		38
109	Cultured 3T3L1 adipocytes dispose of excess medium glucose as lactate under abundant oxygen availability. <i>Scientific Reports</i> , 2014 , 4, 3663	4.9	35
108	Glycerol is synthesized and secreted by adipocytes to dispose of excess glucose, via glycerogenesis and increased acyl-glycerol turnover. <i>Scientific Reports</i> , 2017 , 7, 8983	4.9	33
107	Effect of oral oleoyl-estrone on adipose tissue composition in male rats. <i>International Journal of Obesity</i> , 2002 , 26, 1092-102	5.5	32
106	Semiquantitative RT-PCR measurement of gene expression in rat tissues including a correction for varying cell size and number. <i>Nutrition and Metabolism</i> , 2007 , 4, 26	4.6	31
105	Whole-rat protein content estimation: applicability of the N x 6.25 factor. <i>British Journal of Nutrition</i> , 1994 , 72, 199-209	3.6	31
104	Pharmacological approaches for the treatment of obesity. <i>Drugs</i> , 2002 , 62, 915-44	12.1	30
103	Evidences of basal lactate production in the main white adipose tissue sites of rats. Effects of sex and a cafeteria diet. <i>PLoS ONE</i> , 2015 , 10, e0119572	3.7	28
102	Do the interactions between glucocorticoids and sex hormones regulate the development of the metabolic syndrome?. <i>Frontiers in Endocrinology</i> , 2012 , 3, 27	5.7	28
101	Effect of oral oleoyl-estrone treatment on plasma lipoproteins and tissue lipase activities of Zucker lean and obese female rats. <i>International Journal of Obesity</i> , 2002 , 26, 618-26	5.5	26
100	Regulation of adipose tissue energy availability through blood flow control in the metabolic syndrome. <i>Free Radical Biology and Medicine</i> , 2012 , 52, 2108-19	7.8	24

99	Combined effects of oleoyl-estrone and a beta3-adrenergic agonist (CL316,243) on lipid stores of diet-induced overweight male Wistar rats. <i>Life Sciences</i> , 2005 , 77, 2051-8	6.8	24
98	Relationship between energy dense diets and white adipose tissue inflammation in metabolic syndrome. <i>Nutrition Research</i> , 2013 , 33, 1-11	4	21
97	Different modulation by dietary restriction of adipokine expression in white adipose tissue sites in the rat. <i>Cardiovascular Diabetology</i> , 2009 , 8, 42	8.7	21
96	Effect of the slimming agent oleoyl-estrone in liposomes on the body weight of rats fed a cafeteria diet. <i>Archives of Physiology and Biochemistry</i> , 1997 , 105, 487-95	2.2	21
95	Oral gavage of oleoyl-oestrone has a stronger effect on body weight in male Zucker obese rats than in female. <i>Diabetes, Obesity and Metabolism</i> , 2001 , 3, 203-8	6.7	21
94	The problem of nitrogen disposal in the obese. <i>Nutrition Research Reviews</i> , 2012 , 25, 18-28	7	20
93	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	3.7	19
92	Oleoyl-estrone does not have direct estrogenic effects on rats. <i>Life Sciences</i> , 2001 , 69, 749-61	6.8	19
91	Treatment of rats with a self-selected hyperlipidic diet, increases the lipid content of the main adipose tissue sites in a proportion similar to that of the lipids in the rest of organs and tissues. <i>PLoS ONE</i> , 2014 , 9, e90995	3.7	19
90	Effect of a cafeteria diet on energy intake and balance in Wistar rats. <i>Physiology and Behavior</i> , 1994 , 56, 65-71	3.5	18
89	Structural determinants of oleoyl-estrone slimming effects. <i>Life Sciences</i> , 1998 , 62, 1349-59	6.8	17
88	The defense of adipose tissue against excess substrate-induced hypertrophy: immune system cell infiltration and arrested metabolic activity. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2011 , 96, 66-8	5.6	16
87	Zucker obese rats are insensitive to the CRH-increasing effect of oleoyl-estrone. <i>Brain Research Bulletin</i> , 1998 , 46, 529-34	3.9	16
86	Modulation of corticosterone availability to white adipose tissue of lean and obese Zucker rats by corticosteroid-binding globulin. <i>Hormone and Metabolic Research</i> , 2001 , 33, 407-11	3.1	16
85	Effect of dietary protein content on tissue protein synthesis rates in Zucker lean rats. <i>Nutrition Research</i> , 1999 , 19, 1017-1026	4	16
84	Glycerol Production from Glucose and Fructose by 3T3-L1 Cells: A Mechanism of Adipocyte Defense from Excess Substrate. <i>PLoS ONE</i> , 2015 , 10, e0139502	3.7	15
83	Site-related white adipose tissue lipid-handling response to oleoyl-estrone treatment in overweight male rats. <i>European Journal of Nutrition</i> , 2009 , 48, 291-9	5.2	15
82	Estimation of the metabolizable energy equivalence of dietary proteins. <i>European Journal of Nutrition</i> , 2007 , 46, 1-11	5.2	15

81	Corticosteroid-binding globulin synthesis and distribution in rat white adipose tissue. <i>Molecular and Cellular Biochemistry</i> , 2001 , 228, 25-31	4.2	15
80	In rats fed high-energy diets, taste, rather than fat content, is the key factor increasing food intake: a comparison of a cafeteria and a lipid-supplemented standard diet. <i>PeerJ</i> , 2017 , 5, e3697	3.1	15
79	Modulation of SHBG binding to testosterone and estradiol by sex and morbid obesity. <i>European Journal of Endocrinology</i> , 2017 , 176, 393-404	6.5	14
78	Altered nitrogen balance and decreased urea excretion in male rats fed cafeteria diet are related to arginine availability. <i>BioMed Research International</i> , 2014 , 2014, 959420	3	14
77	Leptin enhances the synthesis of oleoyl-estrone from estrone in white adipose tissue. <i>European Journal of Nutrition</i> , 1999 , 38, 99-104	5.2	14
76	Utilization of dietary glucose in the metabolic syndrome. <i>Nutrition and Metabolism</i> , 2011 , 8, 74	4.6	13
75	Short-term oral oleoyl-estrone treatment increases plasma cholesterol turnover in the rat. <i>International Journal of Obesity</i> , 2005 , 29, 534-9	5.5	13
74	Effects of oleoyl-estrone with dexfenfluramine, sibutramine or phentermine on overweight rats. <i>European Journal of Pharmacology</i> , 2005 , 513, 243-8	5.3	13
73	Oleoyl-estrone induces the massive loss of body weight in Zucker fa/fa rats fed a high-energy hyperlipidic diet. <i>Journal of Nutritional Biochemistry</i> , 2000 , 11, 530-535	6.3	13
72	Intestinal handling of an oral oleoyl-estrone gavage by the rat. <i>Life Sciences</i> , 2001 , 69, 763-77	6.8	13
71	Steroid hormones interrelationships in the metabolic syndrome: an introduction to the ponderostat hypothesis. <i>Hormones</i> , 2012 , 11, 272-89	3.1	12
70	Hind leg heat balance in obese Zucker rats during exercise. <i>Pflugers Archiv European Journal of Physiology</i> , 1998 , 435, 454-64	4.6	12
69	Corticosterone inhibits the lipid-mobilizing effects of oleoyl-estrone in adrenalectomized rats. <i>Endocrinology</i> , 2007 , 148, 4056-63	4.8	12
68	Marked increase in rat red blood cell membrane protein glycosylation by one-month treatment with a cafeteria diet. <i>PeerJ</i> , 2015 , 3, e1101	3.1	12
67	Adipose Tissue: Something More than Just Adipocytes. <i>Current Nutrition and Food Science</i> , 2006 , 2, 141-150	15.0	11
66	Effects of oral estrone on rat energy balance. <i>Steroids</i> , 2005 , 70, 667-72	2.8	10
65	Cooling rates of tissue samples during freezing with liquid nitrogen. <i>Journal of Proteomics</i> , 1993 , 27, 77-86		10
64	Quantitative analysis of rat adipose tissue cell recovery, and non-fat cell volume, in primary cell cultures. <i>PeerJ</i> , 2016 , 4, e2725	3.1	10

63	The urea cycle of rat white adipose tissue. <i>RSC Advances</i> , 2015 , 5, 93403-93414	3.7	9
62	Zucker obese rats store less acyl-estrone than lean controls. <i>International Journal of Obesity</i> , 2003 , 27, 428-32	5.5	9
61	Effect of 24-h food deprivation on lipoprotein composition and oleoyl-estrone content of lean and obese Zucker rats. <i>European Journal of Nutrition</i> , 2001 , 40, 155-60	5.2	9
60	Modulation by leptin, insulin and corticosterone of oleoyl-estrone synthesis in cultured 3T3 L1 cells. <i>Bioscience Reports</i> , 2001 , 21, 755-63	4.1	9
59	Short-term treatment with estrone oleate in liposomes (Merlin-2) does not affect the expression of the ob gene in Zucker obese rats. <i>Molecular and Cellular Biochemistry</i> , 1999 , 197, 109-15	4.2	9
58	Fatty acid utilization by young Wistar rats fed a cafeteria diet. <i>Molecular and Cellular Biochemistry</i> , 1992 , 118, 67-74	4.2	9
57	Modulation of rat liver urea cycle and related ammonium metabolism by sex and cafeteria diet. <i>RSC Advances</i> , 2016 , 6, 11278-11288	3.7	8
56	Oleoyl-estrone is a precursor of an estrone-derived ponderostat signal. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2011 , 124, 99-111	5.1	8
55	Gene expression modulation of liver energy metabolism by oleoyl-oestrone in overweight rats. <i>Bioscience Reports</i> , 2009 , 30, 81-9	4.1	8
54	Oleoyl-oestrone inhibits lipogenic, but maintains thermogenic, gene expression of brown adipose tissue in overweight rats. <i>Bioscience Reports</i> , 2009 , 29, 237-43	4.1	8
53	During intense exercise, obese women rely more than lean women on aerobic energy. <i>Pflugers Archiv European Journal of Physiology</i> , 1998 , 435, 495-502	4.6	8
52	Anomalous lipoproteins in obese Zucker rats. <i>Diabetes, Obesity and Metabolism</i> , 2001 , 3, 259-70	6.7	8
51	Effect of oleoyl-estrone treatment on the expression of beta1- beta2- and beta3-adrenoreceptors in rat adipose tissues. <i>Molecular and Cellular Biochemistry</i> , 2001 , 221, 109-15	4.2	8
50	Water balance in Zucker obese rats. <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , 1993 , 104, 813-8		8
49	Modulation of Food Intake by Differential TAS2R Stimulation in Rat. <i>Nutrients</i> , 2020 , 12,	6.7	8
48	Oleoyl-estrone does not alter hypothalamic neuropeptide Y in Zucker lean and obese rats. <i>Peptides</i> , 1998 , 19, 1631-5	3.8	7
47	Methodological evaluation of indirect calorimetry data in lean and obese rats. <i>Clinical and Experimental Pharmacology and Physiology</i> , 1993 , 20, 731-42	3	7
46	The use of Transwells improves the rates of differentiation and growth of cultured 3T3L1 cells. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 5605-10	4.4	6

45	Site-specific modulation of white adipose tissue lipid metabolism by oleoyl-estrone and/or rosiglitazone in overweight rats. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2010 , 381, 339-48	3.4	6
44	Effect of oleoyl-estrone administration on corticosterone binding to tissues of lean and obese Zucker rats. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 1998 , 66, 165-9	5.1	6
43	Intestinal and hepatic nitrogen balance in the rat after the administration of an oral protein load. <i>British Journal of Nutrition</i> , 1993 , 69, 733-42	3.6	6
42	Effect of sex and prior exposure to a cafeteria diet on the distribution of sex hormones between plasma and blood cells. <i>PLoS ONE</i> , 2012 , 7, e34381	3.7	6
41	Effects of sex and site on amino acid metabolism enzyme gene expression and activity in rat white adipose tissue. <i>PeerJ</i> , 2015 , 3, e1399	3.1	6
40	The Food Energy/Protein Ratio Regulates the Rat Urea Cycle but Not Total Nitrogen Losses. <i>Nutrients</i> , 2019 , 11,	6.7	5
39	Dietary Energy Partition: The Central Role of Glucose. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	5
38	A method for the measurement of lactate, glycerol and fatty acid production from ¹⁴ C-glucose in primary cultures of rat epididymal adipocytes. <i>Analytical Methods</i> , 2016 , 8, 7873-7885	3.2	5
37	Oleoyl-estrone. <i>Medicinal Research Reviews</i> , 2012 , 32, 1263-91	14.4	5
36	Adjustment to dietary energy availability: from starvation to overnutrition. <i>RSC Advances</i> , 2013 , 3, 1636-1651	3.7	5
35	Oleoyl-estrone affects lipid metabolism in adrenalectomized rats treated with corticosterone through modulation of SREBP1c expression. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2009 , 117, 15-22	5.1	5
34	Comparative effects of oleoyl-estrone and a specific beta3-adrenergic agonist (CL316, 243) on the expression of genes involved in energy metabolism of rat white adipose tissue. <i>Nutrition and Metabolism</i> , 2010 , 7, 15	4.6	5
33	Effects of combined oleoyl-estrone and rimonabant on overweight rats. <i>Journal of Pharmacological Sciences</i> , 2007 , 104, 176-82	3.7	5
32	Lipoprotein lipase and cholesterol transfer activities of lean and obese Zucker rats. <i>Hormone and Metabolic Research</i> , 2001 , 33, 458-62	3.1	5
31	Muscle blood flow during intense exercise in the obese rat. <i>Archives of Physiology and Biochemistry</i> , 1996 , 104, 337-43	2.2	5
30	Modulation in Wistar rats of blood corticosterone compartmentation by sex and a cafeteria diet. <i>PLoS ONE</i> , 2013 , 8, e57342	3.7	5
29	Effect of sex on glucose handling by adipocytes isolated from rat subcutaneous, mesenteric and perigonadal adipose tissue. <i>PeerJ</i> , 2018 , 6, e5440	3.1	5
28	Higher lactate production from glucose in cultured adipose nucleated stromal cells than for rat adipocytes. <i>Adipocyte</i> , 2019 , 8, 61-76	3.2	4

27	Insulin Controls Triacylglycerol Synthesis through Control of Glycerol Metabolism and Despite Increased Lipogenesis. <i>Nutrients</i> , 2019 , 11,	6.7	4
26	Use of C-glucose by primary cultures of mature rat epididymal adipocytes. Marked release of lactate and glycerol, but limited lipogenesis in the absence of external stimuli. <i>Adipocyte</i> , 2018 , 7, 204-217	3.7	4
25	Oleoyl-estrone increases adrenal corticosteroid synthesis gene expression in overweight male rats. <i>Steroids</i> , 2010 , 75, 20-6	2.8	4
24	Short-term oral oleoyl-estrone decreases the expression of ghrelin in the rat stomach. <i>Regulatory Peptides</i> , 2009 , 152, 79-81		4
23	Effect of oral oleoyl-estrone on the energy balance of diabetic rats. <i>Hormone and Metabolic Research</i> , 2003 , 35, 471-8	3.1	4
22	Tamoxifen does not prevent the mobilization of body lipids elicited by oleoyl-estrone. <i>Steroids</i> , 2004 , 69, 661-5	2.8	4
21	Urinary free cortisol excretion pattern in morbid obese women. <i>Endocrine Research</i> , 2001 , 27, 261-8	1.9	4
20	The effect of cafeteria feeding on energy balance in lean and obese Zucker rats. <i>Nutrition Research</i> , 1994 , 14, 1077-1088	4	4
19	The Anomeric Nature of Glucose and Its Implications on Its Analyses and the Influence of Diet: Are Routine Glycaemia Measurements Reliable Enough?. <i>Journal of Endocrinology and Metabolism</i> , 2019 , 9, 63-70	2.8	4
18	Influence of a hyperlipidic diet on the composition of the non-membrane lipid pool of red blood cells of male and female rats. <i>PeerJ</i> , 2015 , 3, e1083	3.1	4
17	Unconnected Body Accrual of Dietary Lipid and Protein in Rats Fed Diets with Different Lipid and Protein Content. <i>Molecular Nutrition and Food Research</i> , 2020 , 64, e2000265	5.9	3
16	White adipose tissue urea cycle activity is not affected by one-month treatment with a hyperlipidic diet in female rats. <i>Food and Function</i> , 2016 , 7, 1554-63	6.1	3
15	Purging behavior modulates the relationships of hormonal and behavioral parameters in women with eating disorders. <i>Neuropsychobiology</i> , 2013 , 67, 230-40	4	3
14	Different effects of hyperlipidic diets in human lactation and adulthood: growth versus the development of obesity. <i>Reproductive Biology and Endocrinology</i> , 2011 , 9, 101	5	3
13	The conjugated linoleic acid ester of estrone induces the mobilisation of fat in male Wistar rats. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2007 , 375, 283-90	3.4	3
12	An enzymatic method for the estimation of L-leucine in rat blood. <i>Journal of Proteomics</i> , 1992 , 24, 39-44		3
11	Is there a role for lymph in intestinal glucose absorption?. <i>Medical Hypotheses</i> , 1990 , 33, 169-71	3.8	3
10	Gene expression modulation of rat liver cholesterol metabolism by oleoyl-estrone. <i>Obesity Research and Clinical Practice</i> , 2010 , 4, e1-e82	5.4	2

9	In rats, oral oleoyl-DHEA is rapidly hydrolysed and converted to DHEA-sulphate. <i>BMC Pharmacology</i> , 2007 , 7, 4		2
8	Hind-leg heat losses in cold-exposed rats. <i>Journal of Thermal Biology</i> , 1995 , 20, 343-348	2.9	2
7	Cafeteria diet induce changes in blood flow that are more related with heat dissipation than energy accretion. <i>PeerJ</i> , 2016 , 4, e2302	3.1	2
6	Stable isotope analysis of dietary arginine accrual and disposal efficiency in male rats fed diets with different protein content. <i>RSC Advances</i> , 2016 , 6, 69177-69184	3.7	1
5	Effect of genetic and dietary obesity on sodium, potassium, calcium and magnesium handling by the rat. <i>International Journal of Food Sciences and Nutrition</i> , 1994 , 45, 191-201	3.7	1
4	A radio-enzymatic method for the estimation of L-leucine-specific radioactivity. <i>Journal of Proteomics</i> , 1993 , 26, 291-7		1
3	Estrogens and the regulation of glucose metabolism. <i>World Journal of Diabetes</i> , 2021 , 12, 1622-1654	4.7	1
2	Amino acid nitrogen handling by hind leg muscle of the rat during exercise. <i>Archives of Physiology and Biochemistry</i> , 1997 , 105, 478-86	2.2	0
1	Circulating oestradiol determines liver lipid deposition in rats fed standard diets partially unbalanced with higher lipid or protein proportions. <i>British Journal of Nutrition</i> , 2021 , 1-24	3.6	0