Victoria Catalan

List of Publications by Year
in descending order

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Version: 2024-02-01

104 papers	6,520 citations	53794 45 h-index	66911 78 g-index
104 all docs	104 docs citations	104 times ranked	10726 citing authors

#	Article	IF	Citations
1	Adipokine dysregulation and adipose tissue inflammation in human obesity. European Journal of Clinical Investigation, 2018, 48, e12997.	3.4	408
2	Targeting the Circulating MicroRNA Signature of Obesity. Clinical Chemistry, 2013, 59, 781-792.	3.2	373
3	Adiponectin-leptin ratio: A promising index to estimate adipose tissue dysfunction. Relation with obesity-associated cardiometabolic risk. Adipocyte, 2018, 7, 57-62.	2.8	250
4	Insulin- and Leptin-Mediated Control of Aquaglyceroporins in Human Adipocytes and Hepatocytes Is Mediated via the PI3K/Akt/mTOR Signaling Cascade. Journal of Clinical Endocrinology and Metabolism, 2011, 96, E586-E597.	3.6	195
5	Plasma Osteopontin Levels and Expression in Adipose Tissue Are Increased in Obesity. Journal of Clinical Endocrinology and Metabolism, 2007, 92, 3719-3727.	3.6	183
6	Circulating omentin concentration increases after weight loss. Nutrition and Metabolism, 2010, 7, 27.	3.0	181
7	Clinical Usefulness of a New Equation for Estimating Body Fat. Diabetes Care, 2012, 35, 383-388.	8.6	177
8	Proinflammatory Cytokines in Obesity: Impact of Type 2 Diabetes Mellitus and Gastric Bypass. Obesity Surgery, 2007, 17, 1464-1474.	2.1	165
9	Circulating Betatrophin Concentrations Are Decreased in Human Obesity and Type 2 Diabetes. Journal of Clinical Endocrinology and Metabolism, 2014, 99, E2004-E2009.	3.6	157
10	Gene expression profile of omental adipose tissue in human obesity. FASEB Journal, 2004, 18, 215-217.	0.5	155
11	Involvement of the leptin-adiponectin axis in inflammation and oxidative stress in the metabolic syndrome. Scientific Reports, 2017, 7, 6619.	3.3	140
12	Adiponectin-leptin Ratio is a Functional Biomarker of Adipose Tissue Inflammation. Nutrients, 2019, 11, 454.	4.1	139
13	The<scp>l</scp>-Î±-Lysophosphatidylinositol/GPR55System and Its Potential Role in Human Obesity. Diabetes, 2012, 61, 281-291.	0.6	134
14	FGF19 and FGF21 serum concentrations in human obesity and type 2 diabetes behave differently after diet- or surgically-induced weight loss. Clinical Nutrition, 2017, 36, 861-868.	5.0	123
15	Visceral and Subcutaneous Adiposity: Are Both Potential Therapeutic Targets for Tackling the Metabolic Syndrome?. Current Pharmaceutical Design, 2007, 13, 2169-2175.	1.9	120
16	Aquaglyceroporins serve as metabolic gateways in adiposity and insulin resistance control. Cell Cycle, 2011, 10, 1548-1556.	2.6	119
17	Adipose tissue immunity and cancer. Frontiers in Physiology, 2013, 4, 275.	2.8	119
18	Leptin Administration Favors Muscle Mass Accretion by Decreasing FoxO3a and Increasing PGC-1Î± in ob/ob Mice. PLoS ONE, 2009, 4, e6808.	2.5	118

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19	Increased Cardiometabolic Risk Factors and Inflammation in Adipose Tissue in Obese Subjects Classified as Metabolically Healthy. Diabetes Care, 2014, 37, 2813-2821.	8.6	116
20	Mechanisms Linking Excess Adiposity and Carcinogenesis Promotion. Frontiers in Endocrinology, 2014, 5, 65.	3.5	110
21	Increased Levels of Calprotectin in Obesity Are Related to Macrophage Content: Impact on Inflammation and Effect of Weight Loss. Molecular Medicine, 2011, 17, 1157-1167.	4.4	105
22	The Gene Expression of the Main Lipogenic Enzymes is Downregulated in Visceral Adipose Tissue of Obese Subjects. Obesity, 2010, 18, 13-20.	3.0	99
23	Activation of Noncanonical Wnt Signaling Through WNT5A in Visceral Adipose Tissue of Obese Subjects Is Related to Inflammation. Journal of Clinical Endocrinology and Metabolism, 2014, 99, E1407-E1417.	3.6	98
24	Increased Serum Amyloid A Concentrations in Morbid Obesity Decrease after Gastric Bypass. Obesity Surgery, 2006, 16, 262-269.	2.1	92
25	Complement Factor H Is Expressed in Adipose Tissue in Association With Insulin Resistance. Diabetes, 2010, 59, 200-209.	0.6	88
26	Expression of caveolinâ€1 in human adipose tissue is upregulated in obesity and obesityâ€associated type 2 diabetes mellitus and related to inflammation. Clinical Endocrinology, 2008, 68, 213-219.	2.4	86
27	NLRP3 inflammasome blockade reduces adipose tissue inflammation and extracellular matrix remodeling. Cellular and Molecular Immunology, 2021, 18, 1045-1057.	10.5	81
28	NLRP3 Inflammasome: A Possible Link Between Obesity-Associated Low-Grade Chronic Inflammation and Colorectal Cancer Development. Frontiers in Immunology, 2018, 9, 2918.	4.8	77
29	Role of aquaporin-7 in the pathophysiological control of fat accumulation in mice. FEBS Letters, 2006, 580, 4771-4776.	2.8	74
30	Obesity and prostate cancer: gene expression signature of human periprostatic adipose tissue. BMC Medicine, 2012, 10, 108.	5.5	74
31	Involvement of serum vascular endothelial growth factor family members in the development of obesity in mice and humansâ˜†. Journal of Nutritional Biochemistry, 2010, 21, 774-780.	4.2	71
32	Increased Tenascin C And Toll-Like Receptor 4 Levels in Visceral Adipose Tissue as a Link between Inflammation and Extracellular Matrix Remodeling in Obesity. Journal of Clinical Endocrinology and Metabolism, 2012, 97, E1880-E1889.	3.6	69
33	Osteopontin Deletion Prevents the Development of Obesity and Hepatic Steatosis via Impaired Adipose Tissue Matrix Remodeling and Reduced Inflammation and Fibrosis in Adipose Tissue and Liver in Mice. PLoS ONE, 2014, 9, e98398.	2.5	68
34	Ghrelin reduces TNF-Î±-induced human hepatocyte apoptosis, autophagy and pyroptosis: role in obesity-associated NAFLD. Journal of Clinical Endocrinology and Metabolism, 2019, 104, 21-37.	3.6	67
35	Increased Circulating and Visceral Adipose Tissue Expression Levels of YKL-40 in Obesity-Associated Type 2 Diabetes Are Related to Inflammation: Impact of Conventional Weight Loss and Gastric Bypass. Journal of Clinical Endocrinology and Metabolism, 2011, 96, 200-209.	3.6	65
36	Influence of Morbid Obesity and Insulin Resistance on Gene Expression Levels of AQP7 in Visceral Adipose Tissue and AQP9 in Liver. Obesity Surgery, 2008, 18, 695-701.	2.1	64

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37	Increased levels of chemerin and its receptor, chemokine-like receptor-1, in obesity are related to inflammation: tumor necrosis factor-Î± stimulates mRNA levels of chemerin in visceral adipocytes from obese patients. Surgery for Obesity and Related Diseases, 2013, 9, 306-314.	1.2	61
38	Up-regulation of the novel proinflammatory adipokines lipocalin-2, chitinase-3 like-1 and osteopontin as well as angiogenic-related factors in visceral adipose tissue of patients with colon cancer. Journal of Nutritional Biochemistry, 2011, 22, 634-641.	4.2	57
39	Insulin Resistance Modulates Iron-Related Proteins in Adipose Tissue. Diabetes Care, 2014, 37, 1092-1100.	8.6	56
40	Role of extracellular matrix remodelling in adipose tissue pathophysiology: relevance in the development of obesity. Histology and Histopathology, 2012, 27, 1515-28.	0.7	55
41	Leptin administration restores the altered adipose and hepatic expression of aquaglyceroporins improving the non-alcoholic fatty liver of ob/ob mice. Scientific Reports, 2015, 5, 12067.	3.3	53
42	Aquaporin-7 and glycerol permeability as novel obesity drug-target pathways. Trends in Pharmacological Sciences, 2006, 27, 345-347.	8.7	52
43	Adipokines in the treatment of diabetes mellitus and obesity. Expert Opinion on Pharmacotherapy, 2009, 10, 239-254.	1.8	50
44	Acylated and desacyl ghrelin are associated with hepatic lipogenesis, Î²-oxidation and autophagy: role in NAFLD amelioration after sleeve gastrectomy in obese rats. Scientific Reports, 2016, 6, 39942.	3.3	50
45	Time to Consider the â€œExposome Hypothesisâ€•in the Development of the Obesity Pandemic. Nutrients, 2022, 14, 1597.	4.1	48
46	Association of plasma acylated ghrelin with blood pressure and left ventricular mass in patients with metabolic syndrome. Journal of Hypertension, 2010, 28, 560-567.	0.5	47
47	Deletion of Inducible Nitric-Oxide Synthase in Leptin-Deficient Mice Improves Brown Adipose Tissue Function. PLoS ONE, 2010, 5, e10962.	2.5	46
48	Normalization of adiponectin concentrations by leptin replacement in ob/ob mice is accompanied by reductions in systemic oxidative stress and inflammation. Scientific Reports, 2017, 7, 2752.	3.3	45
49	Peripheral mononuclear blood cells contribute to the obesity-associated inflammatory state independently of glycemic status: involvement of the novel proinflammatory adipokines chemerin, chitinase-3-like protein 1, lipocalin-2 and osteopontin. Genes and Nutrition, 2015, 10, 460.	2.5	44
50	Impaired adiponectin-AMPK signalling in insulin-sensitive tissues of hypertensive rats. Life Sciences, 2008, 83, 540-549.	4.3	43
51	Precision medicine: diagnosis and management of obesity. Lancet Diabetes and Endocrinology,the, 2018, 6, 164-166.	11.4	43
52	Clinical usefulness of abdominal bioimpedance (ViScan) in the determination of visceral fat and its application in the diagnosis and management of obesity and its comorbidities. Clinical Nutrition, 2018, 37, 580-589.	5.0	41
53	Leptin Inhibits the Proliferation of Vascular Smooth Muscle Cells Induced by Angiotensin II through Nitric Oxide-Dependent Mechanisms. Mediators of Inflammation, 2010, 2010, 1-10.	3.0	40
54	Short-Term Effects of Sleeve Gastrectomy and Caloric Restriction on Blood Pressure in Diet-Induced Obese Rats. Obesity Surgery, 2012, 22, 1481-1490.	2.1	40

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55	Functional Relationship between Leptin and Nitric Oxide in Metabolism. Nutrients, 2019, 11, 2129.	4.1	40
56	Identification of liver proteins altered by type 2 diabetes mellitus in obese subjects. Liver International, 2012, 32, 951-961.	3.9	39
57	The inhibitory effect of leptin on angiotensin II-induced vasoconstriction is blunted in spontaneously hypertensive rats. Journal of Hypertension, 2006, 24, 1589-1597.	0.5	37
58	Expression of S6K1 in human visceral adipose tissue is upregulated in obesity and related to insulin resistance and inflammation. Acta Diabetologica, 2015, 52, 257-266.	2.5	37
59	Altered Concentrations in Dyslipidemia Evidence a Role for ANGPTL8/Betatrophin in Lipid Metabolism in Humans. Journal of Clinical Endocrinology and Metabolism, 2016, 101, 3803-3811.	3.6	37
60	Leptin Administration Downregulates the Increased Expression Levels of Genes Related to Oxidative Stress and Inflammation in the Skeletal Muscle ofob/obMice. Mediators of Inflammation, 2010, 2010, 1-15.	3.0	33
61	Study of caveolin-1 gene expression in whole adipose tissue and its subfractions and during differentiation of human adipocytes. Nutrition and Metabolism, 2010, 7, 20.	3.0	32
62	Increased Interleukin-32 Levels in Obesity Promote Adipose Tissue Inflammation and Extracellular Matrix Remodeling: Effect of Weight Loss. Diabetes, 2016, 65, 3636-3648.	0.6	31
63	FNDC4, a novel adipokine that reduces lipogenesis and promotes fat browning in human visceral adipocytes. Metabolism: Clinical and Experimental, 2020, 108, 154261.	3.4	31
64	FNDC4 and FNDC5 reduce SARS-CoV-2 entry points and spike glycoprotein S1-induced pyroptosis, apoptosis, and necroptosis in human adipocytes. Cellular and Molecular Immunology, 2021, 18, 2457-2459.	10.5	29
65	Novel protective role of kallistatin in obesity by limiting adipose tissue low grade inflammation and oxidative stress. Metabolism: Clinical and Experimental, 2018, 87, 123-135.	3.4	28
66	Increase of the Adiponectin/Leptin Ratio in Patients with Obesity and Type 2 Diabetes after Roux-en-Y Gastric Bypass. Nutrients, 2019, 11, 2069.	4.1	28
67	Six-transmembrane epithelial antigen of prostate 4 and neutrophil gelatinase-associated lipocalin expression in visceral adipose tissue is related to iron status and inflammation in human obesity. European Journal of Nutrition, 2013, 52, 1587-1595.	3.9	26
68	Sleeve Gastrectomy Reduces Hepatic Steatosis by Improving the Coordinated Regulation of Aquaglyceroporins in Adipose Tissue and Liver in Obese Rats. Obesity Surgery, 2015, 25, 1723-1734.	2.1	26
69	The Role and Potential Therapeutic Implications of the Fibroblast Growth Factors in Energy Balance and Type 2 Diabetes. Current Diabetes Reports, 2017, 17, 43.	4.2	26
70	IL-32Î±-induced inflammation constitutes a link between obesity and colon cancer. OncoImmunology, 2017, 6, e1328338.	4.6	26
71	Dermatopontin, A Novel Adipokine Promoting Adipose Tissue Extracellular Matrix Remodelling and Inflammation in Obesity. Journal of Clinical Medicine, 2020, 9, 1069.	2.4	26
72	Leptin Reduces the Expression and Increases the Phosphorylation of the Negative Regulators of GLUT4 Traffic TBC1D1 and TBC1D4 in Muscle of ob/ob Mice. PLoS ONE, 2012, 7, e29389.	2.5	25

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73	Sleeve Gastrectomy Induces Weight Loss in Diet-Induced Obese Rats Even if High-Fat Feeding Is Continued. Obesity Surgery, 2011, 21, 1438-1443.	2.1	23
74	Circulating ANGPTL8/Betatrophin Concentrations Are Increased After Surgically Induced Weight Loss, but Not After Diet-Induced Weight Loss. Obesity Surgery, 2016, 26, 1881-1889.	2.1	22
75	Increased Obesity-Associated Circulating Levels of the Extracellular Matrix Proteins Osteopontin, Chitinase-3 Like-1 and Tenascin C Are Associated with Colon Cancer. PLoS ONE, 2016, 11, e0162189.	2.5	19
76	Influence of Waist Circumference on the Metabolic Risk Associated with Impaired Fasting Glucose: Effect of Weight Loss after Gastric Bypass. Obesity Surgery, 2007, 17, 585-591.	2.1	18
77	Sleeve Gastrectomy Reduces Body Weight and Improves Metabolic Profile also in Obesity-Prone Rats. Obesity Surgery, 2016, 26, 1537-1548.	2.1	18
78	Transcriptional analysis of brown adipose tissue in leptin-deficient mice lacking inducible nitric oxide synthase: evidence of the role of Med1 in energy balance. Physiological Genomics, 2012, 44, 678-688.	2.3	16
79	Comparative effects of gastric bypass and sleeve gastrectomy on plasma osteopontin concentrations in humans. Surgical Endoscopy and Other Interventional Techniques, 2014, 28, 2412-2420.	2.4	16
80	Short- and Long-Term Changes in Gastric Morphology and Histopathology Following Sleeve Gastrectomy in Diet-Induced Obese Rats. Obesity Surgery, 2012, 22, 634-640.	2.1	15
81	Sleeve Gastrectomy Reduces Blood Pressure in Obese (fa/fa) Zucker Rats. Obesity Surgery, 2012, 22, 309-315.	2.1	15
82	iNOS Gene Ablation Prevents Liver Fibrosis in Leptin-Deficient ob/ob Mice. Genes, 2019, 10, 184.	2.4	12
83	Decreased Levels of Microfibril-Associated Glycoprotein (MAGP)-1 in Patients with Colon Cancer and Obesity Are Associated with Changes in Extracellular Matrix Remodelling. International Journal of Molecular Sciences, 2021, 22, 8485.	4.1	12
84	RIP140 Gene and Protein Expression Levels are Downregulated in Visceral Adipose Tissue in Human Morbid Obesity. Obesity Surgery, 2009, 19, 771-776.	2.1	11
85	Sleeve Gastrectomy Decreases Body Weight, Whole-Body Adiposity, and Blood Pressure Even in Aged Diet-Induced Obese Rats. Obesity Surgery, 2016, 26, 1549-1558.	2.1	11
86	Serum Levels of IL-1 RA Increase with Obesity and Type 2 Diabetes in Relation to Adipose Tissue Dysfunction and are Reduced After Bariatric Surgery in Parallel to Adiposity. Journal of Inflammation Research, 2022, Volume 15, 1331-1345.	3.5	11
87	Gene expression profile induced by BCNU in human glioma cell lines with differential MGMT expression. Journal of Neuro-Oncology, 2005, 73, 189-198.	2.9	10
88	Effect of Sleeve Gastrectomy on Osteopontin Circulating Levels and Expression in Adipose Tissue and Liver in Rats. Obesity Surgery, 2014, 24, 1702-1708.	2.1	10
89	Expression of Syntaxin 8 in Visceral Adipose Tissue Is Increased in Obese Patients with Type 2 Diabetes and Related to Markers of Insulin Resistance and Inflammation. Archives of Medical Research, 2015, 46, 47-53.	3.3	10
90	GLP-1 Limits Adipocyte Inflammation and Its Low Circulating Pre-Operative Concentrations Predict Worse Type 2 Diabetes Remission after Bariatric Surgery in Obese Patients. Journal of Clinical Medicine, 2019, 8, 479.	2.4	10

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91	The Differential Expression of the Inflammasomes in Adipose Tissue and Colon Influences the Development of Colon Cancer in a Context of Obesity by Regulating Intestinal Inflammation. Journal of Inflammation Research, 2021, Volume 14, 6431-6446.	3.5	9
92	Cardiometabolic Profile Related to Body Adiposity Identifies Patients Eligible for Bariatric Surgery More Accurately than BMI. Obesity Surgery, 2015, 25, 1594-1603.	2.1	8
93	Resting Energy Expenditure Is Not Altered in Children and Adolescents with Obesity. Effect of Age and Gender and Association with Serum Leptin Levels. Nutrients, 2021, 13, 1216.	4.1	8
94	Increased Levels of Interleukin-36 in Obesity and Type 2 Diabetes Fuel Adipose Tissue Inflammation by Inducing Its Own Expression and Release by Adipocytes and Macrophages. Frontiers in Immunology, 2022, 13, 832185.	4.8	8
95	Circulating Concentrations of GDF11 are Positively Associated with TSH Levels in Humans. Journal of Clinical Medicine, 2019, 8, 878.	2.4	7
96	Adipopharmacology of inflammation and insulin resistance. Biomedical Reviews, 2014, 17, 43.	0.6	7
97	Dysregulation of apoptosis is a major mechanism in the lymph node involvement in colorectal carcinoma. Oncology Reports, 2004, 12, 287.	2.6	6
98	Role of ANGPTL8 in NAFLD Improvement after Bariatric Surgery in Experimental and Human Obesity. International Journal of Molecular Sciences, 2021, 22, 12945.	4.1	6
99	Changes in mechanical properties of adipose tissue after bariatric surgery driven by extracellular matrix remodelling and neovascularization are associated with metabolic improvements. Acta Biomaterialia, 2022, , .	8.3	6
100	Elucidating the Role of Peripheral Neurotensin in Appetite Control. Endocrinology, 2016, 157, 3391-3393.	2.8	4
101	Does Body Adiposity BetterÂPredict Obesity-Associated Cardiometabolic Risk Than Body Mass Index?. Journal of the American College of Cardiology, 2015, 65, 632-633.	2.8	2
102	Adipose Tissue. , 2019, , 370-384.		2
103	The â€˜new normalityâ€™ in research? What message are we conveying our medical students?. European Journal of Clinical Investigation, 2021, 51, e13586.	3.4	0
104	Metrics: Reflections on the 2020s impact factors. European Journal of Clinical Investigation, 2022, 52, e13723.	3.4	0