

Anna Novials

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.

96
papers

2,647
citations

27
h-index

49
g-index

98
ext. papers

3,152
ext. citations

5.6
avg, IF

4.9
L-index

#	Paper	IF	Citations
96	GUIDE study: double-blind comparison of once-daily gliclazide MR and glimepiride in type 2 diabetic patients. <i>European Journal of Clinical Investigation</i> , 2004 , 34, 535-42	4.6	191
95	The continuous glucose monitoring system is useful for detecting unrecognized hypoglycemias in patients with type 1 and type 2 diabetes but is not better than frequent capillary glucose measurements for improving metabolic control. <i>Diabetes Care</i> , 2003 , 26, 1153-7	14.6	182
94	Rapid insulinotropic action of low doses of bisphenol-A on mouse and human islets of Langerhans: role of estrogen receptor α <i>PLoS ONE</i> , 2012 , 7, e31109	3.7	147
93	Obesity-associated exosomal miRNAs modulate glucose and lipid metabolism in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 12158-12163	11.5	144
92	Glucagon-like peptide 1 reduces endothelial dysfunction, inflammation, and oxidative stress induced by both hyperglycemia and hypoglycemia in type 1 diabetes. <i>Diabetes Care</i> , 2013 , 36, 2346-50	14.6	122
91	Evidence that hyperglycemia after recovery from hypoglycemia worsens endothelial function and increases oxidative stress and inflammation in healthy control subjects and subjects with type 1 diabetes. <i>Diabetes</i> , 2012 , 61, 2993-7	0.9	108
90	Impairment of the ubiquitin-proteasome pathway is a downstream endoplasmic reticulum stress response induced by extracellular human islet amyloid polypeptide and contributes to pancreatic beta-cell apoptosis. <i>Diabetes</i> , 2007 , 56, 2284-94	0.9	105
89	Circulating miR-192 and miR-193b are markers of prediabetes and are modulated by an exercise intervention. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2015 , 100, E407-15	5.6	99
88	Calcium elevation in mouse pancreatic beta cells evoked by extracellular human islet amyloid polypeptide involves activation of the mechanosensitive ion channel TRPV4. <i>Diabetologia</i> , 2008 , 51, 2252-62	10.3	97
87	Effects of sardine-enriched diet on metabolic control, inflammation and gut microbiota in drug-naïve patients with type 2 diabetes: a pilot randomized trial. <i>Lipids in Health and Disease</i> , 2016 , 15, 78	4.4	71
86	Stress and the inflammatory process: a major cause of pancreatic cell death in type 2 diabetes. <i>Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy</i> , 2014 , 7, 25-34	3.4	62
85	Regulation of islet amyloid polypeptide in human pancreatic islets. <i>Diabetes</i> , 1993 , 42, 1514-9	0.9	56
84	Simultaneous GLP-1 and insulin administration acutely enhances their vasodilatory, antiinflammatory, and antioxidant action in type 2 diabetes. <i>Diabetes Care</i> , 2014 , 37, 1938-43	14.6	54
83	Metabolomics approach for analyzing the effects of exercise in subjects with type 1 diabetes mellitus. <i>PLoS ONE</i> , 2012 , 7, e40600	3.7	54
82	Incidence of type 1 (insulin-dependent) diabetes mellitus in Catalonia, Spain. The Catalan Epidemiology Diabetes Study Group. <i>Diabetologia</i> , 1992 , 35, 267-71	10.3	54
81	Identification of a pancreatic stellate cell population with properties of progenitor cells: new role for stellate cells in the pancreas. <i>Biochemical Journal</i> , 2009 , 421, 181-91	3.8	48
80	Maternal Exposure to Bisphenol-A During Pregnancy Increases Pancreatic β Cell Growth During Early Life in Male Mice Offspring. <i>Endocrinology</i> , 2016 , 157, 4158-4171	4.8	45

79	Vitamin C further improves the protective effect of glucagon-like peptide-1 on acute hypoglycemia-induced oxidative stress, inflammation, and endothelial dysfunction in type 1 diabetes. <i>Diabetes Care</i> , 2013 , 36, 4104-8	14.6	44
78	Chaperones ameliorate beta cell dysfunction associated with human islet amyloid polypeptide overexpression. <i>PLoS ONE</i> , 2014 , 9, e101797	3.7	41
77	Effect of lipoic acid and exercise training on cardiovascular disease risk in obesity with impaired glucose tolerance. <i>Lipids in Health and Disease</i> , 2011 , 10, 217	4.4	39
76	Exosomes and diabetes. <i>Diabetes/Metabolism Research and Reviews</i> , 2019 , 35, e3107	7.5	35
75	Circulating microRNAs as biomarkers for metabolic disease. <i>Best Practice and Research in Clinical Endocrinology and Metabolism</i> , 2016 , 30, 591-601	6.5	33
74	Stress-Induced MicroRNA-708 Impairs β Cell Function and Growth. <i>Diabetes</i> , 2017 , 66, 3029-3040	0.9	30
73	Low Physical Activity and Its Association with Diabetes and Other Cardiovascular Risk Factors: A Nationwide, Population-Based Study. <i>PLoS ONE</i> , 2016 , 11, e0160959	3.7	30
72	Hyperglycemia following recovery from hypoglycemia worsens endothelial damage and thrombosis activation in type 1 diabetes and in healthy controls. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2014 , 24, 116-23	4.5	29
71	Oscillating glucose and constant high glucose induce endoglin expression in endothelial cells: the role of oxidative stress. <i>Acta Diabetologica</i> , 2015 , 52, 505-12	3.9	28
70	BACE2 plays a role in the insulin receptor trafficking in pancreatic β cells. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2010 , 299, E1087-95	6	27
69	Differential methylation of TCF7L2 promoter in peripheral blood DNA in newly diagnosed, drug-naïve patients with type 2 diabetes. <i>PLoS ONE</i> , 2014 , 9, e99310	3.7	26
68	Pancreatic polypeptide regulates glucagon release through PPYR1 receptors expressed in mouse and human alpha-cells. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015 , 1850, 343-51	4	25
67	Islet amyloid polypeptide exerts a novel autocrine action in β cell signaling and proliferation. <i>FASEB Journal</i> , 2015 , 29, 2970-9	0.9	24
66	Involvement of ATP-sensitive potassium (K(ATP)) channels in the loss of beta-cell function induced by human islet amyloid polypeptide. <i>Journal of Biological Chemistry</i> , 2011 , 286, 40857-66	5.4	24
65	Circulating SFRP5 levels are elevated in drug-naïve recently diagnosed type 2 diabetic patients as compared with prediabetic subjects and controls. <i>Diabetes/Metabolism Research and Reviews</i> , 2015 , 31, 212-9	7.5	23
64	Mutation in the calcium-binding domain of the mitochondrial glycerophosphate dehydrogenase gene in a family of diabetic subjects. <i>Biochemical and Biophysical Research Communications</i> , 1997 , 231, 570-2	3.4	23
63	Silent myocardial ischemia is associated with autonomic neuropathy and other cardiovascular risk factors in type 1 and type 2 diabetic subjects, especially in those with microalbuminuria. <i>Endocrine</i> , 2005 , 27, 213-7		23
62	A novel mutation in islet amyloid polypeptide (IAPP) gene promoter is associated with Type II diabetes mellitus. <i>Diabetologia</i> , 2001 , 44, 1064-5	10.3	22

61	miR-10b and miR-223-3p in serum microvesicles signal progression from prediabetes to type 2 diabetes. <i>Journal of Endocrinological Investigation</i> , 2020 , 43, 451-459	5.2	21
60	Amyloid-induced β cell dysfunction and islet inflammation are ameliorated by 4-phenylbutyrate (PBA) treatment. <i>FASEB Journal</i> , 2017 , 31, 5296-5306	0.9	19
59	Delivery of muscle-derived exosomal miRNAs induced by HIIT improves insulin sensitivity through down-regulation of hepatic FoxO1 in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 30335-30343	11.5	19
58	CD31 Extracellular Vesicles From Patients With Type 2 Diabetes Shuttle a miRNA Signature Associated With Cardiovascular Complications. <i>Diabetes</i> , 2021 , 70, 240-254	0.9	19
57	Glucose regulation of a cell cycle gene module is selectively lost in mouse pancreatic islets during ageing. <i>Diabetologia</i> , 2013 , 56, 1761-72	10.3	18
56	Signals related to glucose metabolism regulate islet amyloid polypeptide (IAPP) gene expression in human pancreatic islets. <i>Regulatory Peptides</i> , 1997 , 68, 99-104		18
55	High glucose concentration favors the selective secretion of islet amyloid polypeptide through a constitutive secretory pathway in human pancreatic islets. <i>Pancreas</i> , 2001 , 22, 307-10	2.6	18
54	Amylin effect in extrapancreatic tissues participating in glucose homeostasis, in normal, insulin-resistant and type 2 diabetic state. <i>Peptides</i> , 2011 , 32, 2077-85	3.8	16
53	Inhibition of BACE2 counteracts hIAPP-induced insulin secretory defects in pancreatic β cells. <i>FASEB Journal</i> , 2015 , 29, 95-104	0.9	14
52	Human Serum Versus Human Serum Albumin Supplementation in Human Islet Pretransplantation Culture: In Vitro and In Vivo Assessment. <i>Cell Transplantation</i> , 2016 , 25, 343-52	4	14
51	Amylin exerts osteogenic actions with different efficacy depending on the diabetic status. <i>Molecular and Cellular Endocrinology</i> , 2013 , 365, 309-15	4.4	14
50	Protein disulfide isomerase ameliorates β cell dysfunction in pancreatic islets overexpressing human islet amyloid polypeptide. <i>Molecular and Cellular Endocrinology</i> , 2016 , 420, 57-65	4.4	13
49	Vitamin C further improves the protective effect of GLP-1 on the ischemia-reperfusion-like effect induced by hyperglycemia post-hypoglycemia in type 1 diabetes. <i>Cardiovascular Diabetology</i> , 2013 , 12, 97	8.7	13
48	Localisation of islet amyloid polypeptide and its carboxy terminal flanking peptide in islets of diabetic man and monkey. <i>Diabetologia</i> , 1991 , 34, 449-51	10.3	13
47	Human pancreatic islet function at the onset of type 1 (insulin-dependent) diabetes mellitus. <i>Diabetologia</i> , 1993 , 36, 358-60	10.3	13
46	BACE2 suppression promotes β cell survival and function in a model of type 2 diabetes induced by human islet amyloid polypeptide overexpression. <i>Cellular and Molecular Life Sciences</i> , 2017 , 74, 2827-2838	10.3	12
45	Features and outcome of pregnancies complicated by impaired glucose tolerance and gestational diabetes diagnosed using different criteria in a Spanish population. <i>Diabetes Research and Clinical Practice</i> , 2005 , 68, 141-6	7.4	12
44	Pancreatic islet mitochondrial glycerophosphate dehydrogenase deficiency in two animal models of non-insulin-dependent diabetes mellitus. <i>Biochemical and Biophysical Research Communications</i> , 1996 , 220, 1020-3	3.4	12

43	Suppression by insulin treatment of glucose-induced inhibition of insulin release in non-insulin-dependent diabetics. <i>Diabetes Research and Clinical Practice</i> , 1989 , 6, 191-8	7.4	12
42	Glucose regulation of islet amyloid polypeptide gene expression in rat pancreatic islets. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 1997 , 272, E543-9	6	11
41	Islet amyloid polypeptide gene promoter polymorphisms are not associated with Type 2 diabetes or with the severity of islet amyloidosis. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2005 , 1740, 74-8	6.9	11
40	In Situ LSPR Sensing of Secreted Insulin in Organ-on-Chip. <i>Biosensors</i> , 2021 , 11,	5.9	11
39	Metabolomic Response to Acute Hypoxic Exercise and Recovery in Adult Males. <i>Frontiers in Physiology</i> , 2018 , 9, 1682	4.6	11
38	Gastric inhibitory polypeptide receptor methylation in newly diagnosed, drug-naïve patients with type 2 diabetes: a case-control study. <i>PLoS ONE</i> , 2013 , 8, e75474	3.7	10
37	Mutation at position -132 in the islet amyloid polypeptide (IAPP) gene promoter enhances basal transcriptional activity through a new CRE-like binding site. <i>Diabetologia</i> , 2004 , 47, 1167-1174	10.3	10
36	Regulation of islet amyloid polypeptide in human pancreatic islets. <i>Diabetes</i> , 1993 , 42, 1514-1519	0.9	10
35	The HFE gene is associated to an earlier age of onset and to the presence of diabetic nephropathy in diabetes mellitus type 2. <i>Endocrine</i> , 2004 , 24, 111-4		9
34	Improving Assessment of Lipoprotein Profile in Type 1 Diabetes by 1H NMR Spectroscopy. <i>PLoS ONE</i> , 2015 , 10, e0136348	3.7	9
33	Alpha1-antitrypsin ameliorates islet amyloid-induced glucose intolerance and β cell dysfunction. <i>Molecular Metabolism</i> , 2020 , 37, 100984	8.8	8
32	Amylin and hypertension: association of an amylin -G132A gene mutation and hypertension in humans and amylin-induced endothelium dysfunction in rats. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2007 , 92, 1446-50	5.6	8
31	Differential effect of amylin on endothelial-dependent vasodilation in mesenteric arteries from control and insulin resistant rats. <i>PLoS ONE</i> , 2015 , 10, e0120479	3.7	8
30	Identification and functional analysis of mutations in FAD-binding domain of mitochondrial glycerophosphate dehydrogenase in caucasian patients with type 2 diabetes mellitus. <i>Endocrine</i> , 2001 , 16, 39-42		7
29	Reduction of islet amylin expression and basal secretion by adenovirus-mediated delivery of amylin antisense cDNA. <i>Pancreas</i> , 1998 , 17, 182-6	2.6	7
28	Identification of iduronate-2-sulfatase in mouse pancreatic islets. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2004 , 287, E983-90	6	6
27	Immunodetection of mitochondrial glycerophosphate dehydrogenase (mGDH) by a polyclonal antibody raised against a recombinant mGDH fragment product. <i>Biochemical and Molecular Medicine</i> , 1996 , 59, 187-91		6
26	Effects of isradipine and nifedipine retard in hypertensive patients with type II diabetes mellitus. <i>American Journal of Hypertension</i> , 1993 , 6, 102S-103S	2.3	6

25	Cationic Carbosilane Dendritic Systems as Promising Anti-Amyloid Agents in Type 2 Diabetes. <i>Chemistry - A European Journal</i> , 2020 , 26, 7609-7621	4.8	5
24	Role of iduronate-2-sulfatase in glucose-stimulated insulin secretion by activation of exocytosis. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2009 , 297, E793-801	6	5
23	Beta-cell function abnormalities in islets from an adult subject with nesidioblastosis and autoantibodies against the islet cells. <i>Pancreas</i> , 1997 , 14, 71-5	2.6	5
22	Peripheral insulin and amylin levels in Parkinson's disease. <i>Parkinsonism and Related Disorders</i> , 2020 , 79, 91-96	3.6	5
21	Clinical characteristics, complications and management of patients with type 2 diabetes with and without diabetic kidney disease (DKD): A comparison of data from a clinical database. <i>Endocrinologia, Diabetes Y Nutrición</i> , 2018 , 65, 30-38	1.3	3
20	Autoantibodies against mitochondrial glycerophosphate dehydrogenase in patients with IDDM. <i>Diabetes Research and Clinical Practice</i> , 1997 , 38, 115-21	7.4	3
19	-To: Poa NR, Cooper GJS, Edgar PF: Amylin gene promoter mutations predispose to Type 2 diabetes in New Zealand Maori. <i>Diabetologia</i> 46: 574-578. <i>Diabetologia</i> , 2003 , 46, 1708-9	10.3	3
18	Carbohydrate Management in Athletes with Type 1 Diabetes in a 10 km Run Competition. <i>International Journal of Sports Medicine</i> , 2015 , 36, 853-7	3.6	2
17	Sistema de monitorización continua de glucosa: una nueva herramienta para mejorar el control metabólico de los pacientes diabéticos. <i>Endocrinología Y Nutricion: Organo De La Sociedad Espanola De Endocrinología Y Nutricion</i> , 2001 , 48, 266-271		2
16	IAPP and insulin regulation in human pancreatic islets. <i>Advances in Experimental Medicine and Biology</i> , 1997 , 426, 363-9	3.6	2
15	Clinical characteristics and management of type 1 diabetes in Spain. The SED1 study. <i>Endocrinología, Diabetes Y Nutrición</i> , 2021 ,	1.3	2
14	BACE2 suppression in mice aggravates the adverse metabolic consequences of an obesogenic diet. <i>Molecular Metabolism</i> , 2021 , 53, 101251	8.8	2
13	Proteomics Characterization of the Secretome from Rat Pancreatic Stellate Cells with ATP-Binding Cassette Transporters (ABCG2) and NCAM Phenotype 2013 , 2013, 1-18		1
12	The Korle-Bu Hb variant in Caucasian women with type 1 diabetes: a pitfall in the assessment of diabetes control. <i>Diabetes Care</i> , 2004 , 27, 2280-1	14.6	1
11	Polymorphism in intron 2 of islet amyloid polypeptide gene is associated with lower low-density lipoprotein cholesterol in nondiabetic subjects and in type 2 diabetic patients. <i>Endocrine</i> , 2002 , 19, 185-9		1
10	3-O-methyl-D-glucose uptake by erythrocytes of normal and diabetic subjects. <i>Acta Diabetologica Latina</i> , 1990 , 27, 279-83		1
9	The Role of Human IAPP in Stress and Inflammatory Processes in Type 2 Diabetes 2016 ,		1
8	Clinical characteristics and management of type 1 diabetes in Spain. The SED1 study.. <i>Endocrinología Diabetes Y Nutrición (English Ed)</i> , 2021 , 68, 642-653	0.1	0

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| 7 | Management of Hypoglycemia in Adults with Type 1 Diabetes in Real-Life Condition. <i>Annals of Nutrition and Metabolism</i> , 2020 , 76, 277-284 | 4.5 | ○ |
| 6 | 4-Phenylbutyrate (PBA) treatment reduces hyperglycemia and islet amyloid in a mouse model of type 2 diabetes and obesity. <i>Scientific Reports</i> , 2021 , 11, 11878 | 4.9 | ○ |
| 5 | Europe has to step up its efforts to produce innovative and safe diabetes technology. <i>Diabetologia</i> , 2017 , 60, 2532-2533 | 10.3 | |
| 4 | Nucleotide sequence of cDNA fragments coding for the FAD-,glycerophosphate- and calcium-binding domains of human islet mitochondrial glycerophosphate dehydrogenase. <i>IUBMB Life</i> , 1997 , 42, 1125-30 | 4.7 | |
| 3 | Amilina: del estudio molecular a las acciones fisiológicas. <i>Endocrinología Y Nutricion: Organo De La Sociedad Espanola De Endocrinología Y Nutricion</i> , 2001 , 48, 234-245 | | |
| 2 | Molecular Aspects of Glucose Regulation of Pancreatic β Cells 2016 , 155-168 | | |
| 1 | Muscular carnosine is a marker for cardiorespiratory fitness and cardiometabolic risk factors in men with type 1 diabetes.. <i>European Journal of Applied Physiology</i> , 2022 , 1 | 3.4 | |