Anna Novials

List of Publications by Year
in descending order

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97 papers	3,542 citations	159585 30 h-index	149698 56 g-index
98 all docs	98 docs citations	98 times ranked	5454 citing authors

#	Article	IF	Citations
1	Obesity-associated exosomal miRNAs modulate glucose and lipid metabolism in mice. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12158-12163.	7.1	256
2	GUIDE study: double-blind comparison of once-daily gliclazide MR and glimepiride in type 2 diabetic patients. European Journal of Clinical Investigation, 2004, 34, 535-542.	3.4	228
3	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. Diabetes Care, 2003, 26, 1153-1157.	8.6	215
4	Rapid Insulinotropic Action of Low Doses of Bisphenol-A on Mouse and Human Islets of Langerhans: Role of Estrogen Receptor Î². PLoS ONE, 2012, 7, e31109.	2.5	191
5	Glucagon-Like Peptide 1 Reduces Endothelial Dysfunction, Inflammation, and Oxidative Stress Induced by Both Hyperglycemia and Hypoglycemia in Type 1 Diabetes. Diabetes Care, 2013, 36, 2346-2350.	8.6	158
6	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. Diabetes, 2012, 61, 2993-2997.	0.6	136
7	Circulating miR-192 and miR-193b Are Markers of Prediabetes and Are Modulated by an Exercise Intervention. Journal of Clinical Endocrinology and Metabolism, 2015, 100, E407-E415.	3.6	127
8	Impairment of the Ubiquitin-Proteasome Pathway Is a Downstream Endoplasmic Reticulum Stress Response Induced by Extracellular Human Islet Amyloid Polypeptide and Contributes to Pancreatic Î²-Cell Apoptosis. Diabetes, 2007, 56, 2284-2294.	0.6	125
9	Calcium elevation in mouse pancreatic beta cells evoked by extracellular human islet amyloid polypeptide involves activation of the mechanosensitive ion channel TRPV4. Diabetologia, 2008, 51, 2252-2262.	6.3	109
10	Effects of sardine-enriched diet on metabolic control, inflammation and gut microbiota in drug-naÃ¯ve patients with type 2 diabetes: a pilot randomized trial. Lipids in Health and Disease, 2016, 15, 78.	3.0	103
11	Stress and the inflammatory process: a major cause of pancreatic cell death in type 2 diabetes. Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy, 2014, 7, 25.	2.4	82
12	Exosomes and diabetes. Diabetes/Metabolism Research and Reviews, 2019, 35, e3107.	4.0	76
13	Incidence of Type 1 (insulin-dependent) diabetes mellitus in Catalonia, Spain. Diabetologia, 1992, 35, 267-271.	6.3	72
14	Metabolomics Approach for Analyzing the Effects of Exercise in Subjects with Type 1 Diabetes Mellitus. PLoS ONE, 2012, 7, e40600.	2.5	66
15	Simultaneous GLP-1 and Insulin Administration Acutely Enhances Their Vasodilatory, Antiinflammatory, and Antioxidant Action in Type 2 Diabetes. Diabetes Care, 2014, 37, 1938-1943.	8.6	64
16	Regulation of Islet Amyloid Polypeptide in Human Pancreatic Islets. Diabetes, 1993, 42, 1514-1519.	0.6	61
17	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. Diabetes Care, 2013, 36, 4104-4108.	8.6	61
18	Delivery of muscle-derived exosomal miRNAs induced by HIIT improves insulin sensitivity through down-regulation of hepatic FoxO1 in mice. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 30335-30343.	7.1	61

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19	Maternal Exposure to Bisphenol-A During Pregnancy Increases Pancreatic Î²-Cell Growth During Early Life in Male Mice Offspring. Endocrinology, 2016, 157, 4158-4171.	2.8	59
20	Identification of a pancreatic stellate cell population with properties of progenitor cells: new role for stellate cells in the pancreas. Biochemical Journal, 2009, 421, 181-191.	3.7	54
21	Chaperones Ameliorate Beta Cell Dysfunction Associated with Human Islet Amyloid Polypeptide Overexpression. PLoS ONE, 2014, 9, e101797.	2.5	54
22	Low Physical Activity and Its Association with Diabetes and Other Cardiovascular Risk Factors: A Nationwide, Population-Based Study. PLoS ONE, 2016, 11, e0160959.	2.5	53
23	Circulating microRNAs as biomarkers for metabolic disease. Best Practice and Research in Clinical Endocrinology and Metabolism, 2016, 30, 591-601.	4.7	52
24	Effect of Î±-lipoic acid and exercise training on cardiovascular disease risk in obesity with impaired glucose tolerance. Lipids in Health and Disease, 2011, 10, 217.	3.0	46
25	Hyperglycemia following recovery from hypoglycemia worsens endothelial damage and thrombosis activation in type 1 diabetes and in healthy controls. Nutrition, Metabolism and Cardiovascular Diseases, 2014, 24, 116-123.	2.6	41
26	Stress-Induced MicroRNA-708 Impairs Î²-Cell Function and Growth. Diabetes, 2017, 66, 3029-3040.	0.6	39
27	CD31+ Extracellular Vesicles From Patients With Type 2 Diabetes Shuttle a miRNA Signature Associated With Cardiovascular Complications. Diabetes, 2021, 70, 240-254.	0.6	38
28	Oscillating glucose and constant high glucose induce endoglin expression in endothelial cells: the role of oxidative stress. Acta Diabetologica, 2015, 52, 505-512.	2.5	36
29	Pancreatic polypeptide regulates glucagon release through PPYR1 receptors expressed in mouse and human alpha-cells. Biochimica Et Biophysica Acta - General Subjects, 2015, 1850, 343-351.	2.4	35
30	miR-10b and miR-223-3p in serum microvesicles signal progression from prediabetes to type 2 diabetes. Journal of Endocrinological Investigation, 2020, 43, 451-459.	3.3	33
31	Involvement of ATP-sensitive Potassium (KATP) Channels in the Loss of Beta-cell Function Induced by Human Islet Amyloid Polypeptide. Journal of Biological Chemistry, 2011, 286, 40857-40866.	3.4	32
32	BACE2 plays a role in the insulin receptor trafficking in pancreatic Î²-cells. American Journal of Physiology - Endocrinology and Metabolism, 2010, 299, E1087-E1095.	3.5	31
33	Differential Methylation of TCF7L2 Promoter in Peripheral Blood DNA in Newly Diagnosed, Drug-NaÃ¯ve Patients with Type 2 Diabetes. PLoS ONE, 2014, 9, e99310.	2.5	31
34	In Situ LSPR Sensing of Secreted Insulin in Organ-on-Chip. Biosensors, 2021, 11, 138.	4.7	30
35	Protein disulfide isomerase ameliorates Î²-cell dysfunction in pancreatic islets overexpressing human islet amyloid polypeptide. Molecular and Cellular Endocrinology, 2016, 420, 57-65.	3.2	27
36	Mutation in the Calcium-Binding Domain of the Mitochondrial Glycerophosphate Dehydrogenase Gene in a Family of Diabetic Subjects. Biochemical and Biophysical Research Communications, 1997, 231, 570-572.	2.1	26

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37	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. Endocrine, 2005, 27, 213-218.	2.2	26
38	Islet amyloid polypeptide exerts a novel autocrine action in Î²â€cell signaling and proliferation. FASEB Journal, 2015, 29, 2970-2979.	0.5	26
39	Circulating SFRP5 levels are elevated in drugâ€naÃ¯ve recently diagnosed type 2 diabetic patients as compared with prediabetic subjects and controls. Diabetes/Metabolism Research and Reviews, 2015, 31, 212-219.	4.0	26
40	Amyloidâ€induced Î²â€cell dysfunction and islet inflammation are ameliorated by 4â€phenylbutyrate (PBA) treatment. FASEB Journal, 2017, 31, 5296-5306.	0.5	25
41	Observation(s). Diabetologia, 2001, 44, 1064-1065.	6.3	23
42	High Glucose Concentration Favors the Selective Secretion of Islet Amyloid Polypeptide Through a Constitutive Secretory Pathway in Human Pancreatic Islets. Pancreas, 2001, 22, 307-310.	1.1	22
43	Glucose regulation of a cell cycle gene module is selectively lost in mouse pancreatic islets during ageing. Diabetologia, 2013, 56, 1761-1772.	6.3	22
44	Metabolomic Response to Acute Hypoxic Exercise and Recovery in Adult Males. Frontiers in Physiology, 2018, 9, 1682.	2.8	22
45	Signals related to glucose metabolism regulate islet amyloid polypeptide (IAPP) gene expression in human pancreatic islets. Regulatory Peptides, 1997, 68, 99-104.	1.9	20
46	Peripheral insulin and amylin levels in Parkinson's disease. Parkinsonism and Related Disorders, 2020, 79, 91-96.	2.2	20
47	Inhibition of BACE2 counteracts hIAPPâ€induced insulin secretory defects in pancreatic Î²â€cells. FASEB Journal, 2015, 29, 95-104.	0.5	18
48	Amylin effect in extrapancreatic tissues participating in glucose homeostasis, in normal, insulin-resistant and type 2 diabetic state. Peptides, 2011, 32, 2077-2085.	2.4	17
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. Cardiovascular Diabetology, 2013, 12, 97.	6.8	17
50	BACE2 suppression promotes Î²-cell survival and function in a model of type 2 diabetes induced by human islet amyloid polypeptide overexpression. Cellular and Molecular Life Sciences, 2017, 74, 2827-2838.	5.4	17
51	Features and outcome of pregnancies complicated by impaired glucose tolerance and gestational diabetes diagnosed using different criteria in a Spanish population. Diabetes Research and Clinical Practice, 2005, 68, 141-146.	2.8	16
52	Human Serum versus Human Serum Albumin Supplementation in Human Islet Pretransplantation Culture: In Vitro and in Vivo Assessment. Cell Transplantation, 2016, 25, 343-352.	2.5	16
53	Pancreatic Islet Mitochondrial Glycerophosphate Dehydrogenase Deficiency in Two Animal Models of Non-Insulin-Dependent Diabetes Mellitus. Biochemical and Biophysical Research Communications, 1996, 220, 1020-1023.	2.1	14
54	Amylin exerts osteogenic actions with different efficacy depending on the diabetic status. Molecular and Cellular Endocrinology, 2013, 365, 309-315.	3.2	14

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55	Alpha1-antitrypsin ameliorates islet amyloid-induced glucose intolerance and Î²-cell dysfunction. Molecular Metabolism, 2020, 37, 100984.	6.5	14
56	CaracterÃsticas clÃnicas y manejo de la diabetes tipo 1 en EspaÃ±a. Estudio SED1. Endocrinologia, Diabetes Y NutriciÃ“n, 2021, 68, 642-653.	0.3	14
57	Suppression by insulin treatment of glucose-induced inhibition of insulin release in non-insulin-dependent diabetics. Diabetes Research and Clinical Practice, 1989, 6, 191-198.	2.8	13
58	Localisation of islet amyloid polypeptide and its carboxy terminal flanking peptide in islets of diabetic man and monkey. Diabetologia, 1991, 34, 449-451.	6.3	13
59	Human pancreatic islet function at the onset of Type 1 (insulin-dependent) diabetes mellitus. Diabetologia, 1993, 36, 358-360.	6.3	13
60	Glucose regulation of islet amyloid polypeptide gene expression in rat pancreatic islets. American Journal of Physiology - Endocrinology and Metabolism, 1997, 272, E543-E549.	3.5	13
61	Gastric Inhibitory Polypeptide Receptor Methylation in Newly Diagnosed, Drug-NaÃ¯ve Patients with Type 2 Diabetes: A Case-Control Study. PLoS ONE, 2013, 8, e75474.	2.5	13
62	The <I>HFE </I>Gene Is Associated to an Earlier Age of Onset and to the Presence of Diabetic Nephropathy in Diabetes Mellitus Type 2. Endocrine, 2004, 24, 111-114.	2.2	12
63	Islet amyloid polypeptide gene promoter polymorphisms are not associated with Type 2 diabetes or with the severity of islet amyloidosis. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2005, 1740, 74-78.	3.8	12
64	Mutation at position â^'132 in the islet amyloid polypeptide (IAPP) gene promoter enhances basal transcriptional activity through a new CRE-like binding site. Diabetologia, 2004, 47, 1167-1174.	6.3	11
65	Regulation of islet amyloid polypeptide in human pancreatic islets. Diabetes, 1993, 42, 1514-1519.	0.6	11
66	Cationic Carbosilane Dendritic Systems as Promising Antiâ€Amyloid Agents in Typeâ€…2 Diabetes. Chemistry - A European Journal, 2020, 26, 7609-7621.	3.3	10
67	Improving Assessment of Lipoprotein Profile in Type 1 Diabetes by 1H NMR Spectroscopy. PLoS ONE, 2015, 10, e0136348.	2.5	10
68	Reduction of Islet Amylin Expression and Basal Secretion by Adenovirus-Mediated Delivery of Amylin Antisense cDNA. Pancreas, 1998, 17, 182-186.	1.1	9
69	Amylin and Hypertension: Association of an Amylin â^'G132A Gene Mutation and Hypertension in Humans and Amylin-Induced Endothelium Dysfunction in Rats. Journal of Clinical Endocrinology and Metabolism, 2007, 92, 1446-1450.	3.6	9
70	Differential Effect of Amylin on Endothelial-Dependent Vasodilation in Mesenteric Arteries from Control and Insulin Resistant Rats. PLoS ONE, 2015, 10, e0120479.	2.5	9
71	Identification and Functional Analysis of Mutations in FAD-Binding Domain of Mitochondrial Glycerophosphate Dehydrogenase in Caucasian Patients with Type 2 Diabetes Mellitus. Endocrine, 2001, 16, 39-42.	2.2	8
72	Effects of Isradipine and Nifedipine Retard in Hypertensive Patients With Type II Diabetes Mellitus. American Journal of Hypertension, 1993, 6, 102S-103S.	2.0	7

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73	Î²-Cell Function Abnormalities in Islets from an Adult Subject with Nesidioblastosis and Autoantibodies Against the Islet Cells. Pancreas, 1997, 14, 71-75.	1.1	7
74	Immunodetection of Mitochondrial Glycerophosphate Dehydrogenase (mGDH) by a Polyclonal Antibody Raised against a Recombinant mGDH Fragment Product. Biochemical and Molecular Medicine, 1996, 59, 187-191.	1.4	6
75	Identification of iduronate-2-sulfatase in mouse pancreatic islets. American Journal of Physiology - Endocrinology and Metabolism, 2004, 287, E983-E990.	3.5	6
76	Role of iduronate-2-sulfatase in glucose-stimulated insulin secretion by activation of exocytosis. American Journal of Physiology - Endocrinology and Metabolism, 2009, 297, E793-E801.	3.5	6
77	Clinical characteristics and management of type 1 diabetes in Spain. The SED1 study. EndocrinologÃa Diabetes Y NutriciÃ³n (English Ed), 2021, 68, 642-653.	0.2	6
78	4-Phenylbutyrate (PBA) treatment reduces hyperglycemia and islet amyloid in a mouse model of type 2 diabetes and obesity. Scientific Reports, 2021, 11, 11878.	3.3	5
79	Sistema de monitorizaciÃ³n continua de glucosa: una nueva herramienta para mejorar el control metabÃ³lico de los pacientes diabÃ©ticos. Endocrinologia Y Nutricion: Organo De La Sociedad Espanola De Endocrinologia Y Nutricion, 2001, 48, 266-271.	0.8	4
80	?To: Poa NR, Cooper GJS, Edgar PF: Amylin gene promoter mutations predispose to Type 2 diabetes in New Zealand Maori. Diabetologia 46: 574?578. Diabetologia, 2003, 46, 1708-1709.	6.3	4
81	Carbohydrate Management in Athletes with Type 1 Diabetes in a 10â€‰km Run Competition. International Journal of Sports Medicine, 2015, 36, 853-857.	1.7	4
82	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. Endocrinologia, Diabetes Y NutriciÃ“n, 2018, 65, 30-38.	0.3	4
83	BACE2 suppression in mice aggravates the adverse metabolic consequences of an obesogenic diet. Molecular Metabolism, 2021, 53, 101251.	6.5	4
84	Autoantibodies against mitochondrial glycerophosphate dehydrogenase in patients with IDDM. Diabetes Research and Clinical Practice, 1997, 38, 115-121.	2.8	3
85	Management of Hypoglycemia in Adults with Type 1 Diabetes in Real-Life Condition. Annals of Nutrition and Metabolism, 2020, 76, 277-284.	1.9	3
86	IAPP and Insulin Regulation in Human Pancreatic Islets. Advances in Experimental Medicine and Biology, 1997, 426, 363-369.	1.6	3
87	The Korle-Bu Hb Variant in Caucasian Women With Type 1 Diabetes: A pitfall in the assessment of diabetes control. Diabetes Care, 2004, 27, 2280-2281.	8.6	2
88	The Role of Human IAPP in Stress and Inflammatory Processes in Type 2 Diabetes. , 2016, , .		2
89	3-O-methyl-D-glucose uptake by erythrocytes of normal and diabetic subjects. Acta Diabetologica Latina, 1990, 27, 279-283.	0.2	1
90	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. Endocrine, 2002, 19, 185-190.	2.2	1

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91	Proteomics Characterization of the Secretome from Rat Pancreatic Stellate Cells with ATP-Binding Cassette Transporters (ABCG2) and NCAM Phenotype. , 2013, 2013, 1-18.		1
92	Nucleotide sequence of cDNA fragments coding for the FADâ€¸ glycerophosphateâ€•and calciumâ€binding domains of human islet mitochondrial glycerophosphate dehydrogenase. IUBMB Life, 1997, 42, 1125-1130.	3.4	0
93	Amilina: del estudio molecular a las acciones fisiolÃ³gicas. Endocrinologia Y Nutricion: Organo De La Sociedad Espanola De Endocrinologia Y Nutricion, 2001, 48, 234-245.	0.8	0
94	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. Diabetes Care 2013;36:4104â€“4108. Diabetes Care, 2014, 37, 2063.1-2063.	8.6	0
95	Molecular Aspects of Glucose Regulation ofÂPancreatic Î² Cells. , 2016, , 155-168.		0
96	Europe has to step up its efforts to produce innovative and safe diabetes technology. Diabetologia, 2017, 60, 2532-2533.	6.3	0
97	Muscular carnosine is a marker for cardiorespiratory fitness and cardiometabolic risk factors in men with type 1 diabetes. European Journal of Applied Physiology, 2022, , 1.	2.5	0