

Anna Novials

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7403370/publications.pdf>

Version: 2024-02-01

97
papers

3,542
citations

159525

30
h-index

149623

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.	3.3	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.	1.7	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.	4.3	215
4	Rapid Insulinotropic Action of Low Doses of Bisphenol-A on Mouse and Human Islets of Langerhans: Role of Estrogen Receptor β . PLoS ONE, 2012, 7, e31109.	1.1	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.	4.3	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.	0.3	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.	1.8	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 β -Cell Apoptosis. Diabetes, 2007, 56, 2284-2294.	0.3	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.	2.9	109
10	Effects of sardine-enriched diet on metabolic control, inflammation and gut microbiota in drug-naïve patients with type 2 diabetes: a pilot randomized trial. Lipids in Health and Disease, 2016, 15, 78.	1.2	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.	1.1	82
12	Exosomes and diabetes. Diabetes/Metabolism Research and Reviews, 2019, 35, e3107.	1.7	76
13	Incidence of Type 1 (insulin-dependent) diabetes mellitus in Catalonia, Spain. Diabetologia, 1992, 35, 267-271.	2.9	72
14	Metabolomics Approach for Analyzing the Effects of Exercise in Subjects with Type 1 Diabetes Mellitus. PLoS ONE, 2012, 7, e40600.	1.1	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.	4.3	64
16	Regulation of Islet Amyloid Polypeptide in Human Pancreatic Islets. Diabetes, 1993, 42, 1514-1519.	0.3	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.	4.3	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.	3.3	61

#	ARTICLE	IF	CITATIONS
19	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.	1.4	59
20	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, 181-191.	1.7	54
21	Chaperones Ameliorate Beta Cell Dysfunction Associated with Human Islet Amyloid Polypeptide Overexpression. <i>PLoS ONE</i> , 2014, 9, e101797.	1.1	54
22	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.	1.1	53
23	Circulating microRNAs as biomarkers for metabolic disease. <i>Best Practice and Research in Clinical Endocrinology and Metabolism</i> , 2016, 30, 591-601.	2.2	52
24	Effect of α -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.	1.2	46
25	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, 116-123.	1.1	41
26	Stress-Induced MicroRNA-708 Impairs β -Cell Function and Growth. <i>Diabetes</i> , 2017, 66, 3029-3040.	0.3	39
27	CD31+ Extracellular Vesicles From Patients With Type 2 Diabetes Shuttle a miRNA Signature Associated With Cardiovascular Complications. <i>Diabetes</i> , 2021, 70, 240-254.	0.3	38
28	Oscillating glucose and constant high glucose induce endoglin expression in endothelial cells: the role of oxidative stress. <i>Acta Diabetologica</i> , 2015, 52, 505-512.	1.2	36
29	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, 343-351.	1.1	35
30	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.	1.8	33
31	Involvement of ATP-sensitive Potassium (KATP) Channels in the Loss of Beta-cell Function Induced by Human Islet Amyloid Polypeptide. <i>Journal of Biological Chemistry</i> , 2011, 286, 40857-40866.	1.6	32
32	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-E1095.	1.8	31
33	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.	1.1	31
34	In Situ LSPR Sensing of Secreted Insulin in Organ-on-Chip. <i>Biosensors</i> , 2021, 11, 138.	2.3	30
35	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.	1.6	27
36	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, 570-572.	1.0	26

#	ARTICLE	IF	CITATIONS
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. <i>Endocrine</i> , 2005, 27, 213-218.	2.2	26
38	Islet amyloid polypeptide exerts a novel autocrine action in β -cell signaling and proliferation. <i>FASEB Journal</i> , 2015, 29, 2970-2979.	0.2	26
39	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, 212-219.	1.7	26
40	Amyloid β -induced β -cell dysfunction and islet inflammation are ameliorated by 4 α -phenylbutyrate (PBA) treatment. <i>FASEB Journal</i> , 2017, 31, 5296-5306.	0.2	25
41	Observation(s). <i>Diabetologia</i> , 2001, 44, 1064-1065.	2.9	23
42	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, 307-310.	0.5	22
43	Glucose regulation of a cell cycle gene module is selectively lost in mouse pancreatic islets during ageing. <i>Diabetologia</i> , 2013, 56, 1761-1772.	2.9	22
44	Metabolomic Response to Acute Hypoxic Exercise and Recovery in Adult Males. <i>Frontiers in Physiology</i> , 2018, 9, 1682.	1.3	22
45	Signals related to glucose metabolism regulate islet amyloid polypeptide (IAPP) gene expression in human pancreatic islets. <i>Regulatory Peptides</i> , 1997, 68, 99-104.	1.9	20
46	Peripheral insulin and amylin levels in Parkinson's disease. <i>Parkinsonism and Related Disorders</i> , 2020, 79, 91-96.	1.1	20
47	Inhibition of BACE2 counteracts hIAPP-induced insulin secretory defects in pancreatic β -cells. <i>FASEB Journal</i> , 2015, 29, 95-104.	0.2	18
48	Amylin effect in extrapancreatic tissues participating in glucose homeostasis, in normal, insulin-resistant and type 2 diabetic state. <i>Peptides</i> , 2011, 32, 2077-2085.	1.2	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. <i>Cardiovascular Diabetology</i> , 2013, 12, 97.	2.7	17
50	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.	2.4	17
51	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, 141-146.	1.1	16
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, 343-352.	1.2	16
53	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, 1020-1023.	1.0	14
54	Amylin exerts osteogenic actions with different efficacy depending on the diabetic status. <i>Molecular and Cellular Endocrinology</i> , 2013, 365, 309-315.	1.6	14

#	ARTICLE	IF	CITATIONS
55	Alpha1-antitrypsin ameliorates islet amyloid-induced glucose intolerance and β^2 -cell dysfunction. <i>Molecular Metabolism</i> , 2020, 37, 100984.	3.0	14
56	Características clínicas y manejo de la diabetes tipo 1 en España. Estudio SED1. <i>Endocrinología, Diabetes Y Nutrición</i> , 2021, 68, 642-653.	0.1	14
57	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, 191-198.	1.1	13
58	Localisation of islet amyloid polypeptide and its carboxy terminal flanking peptide in islets of diabetic man and monkey. <i>Diabetologia</i> , 1991, 34, 449-451.	2.9	13
59	Human pancreatic islet function at the onset of Type 1 (insulin-dependent) diabetes mellitus. <i>Diabetologia</i> , 1993, 36, 358-360.	2.9	13
60	Glucose regulation of islet amyloid polypeptide gene expression in rat pancreatic islets. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 1997, 272, E543-E549.	1.8	13
61	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.	1.1	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. <i>Endocrine</i> , 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. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2005, 1740, 74-78.	1.8	12
64	Mutation at position β^2 132 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.	2.9	11
65	Regulation of islet amyloid polypeptide in human pancreatic islets. <i>Diabetes</i> , 1993, 42, 1514-1519.	0.3	11
66	Cationic Carbosilane Dendritic Systems as Promising Anti-Amyloid Agents in Type 2 Diabetes. <i>Chemistry - A European Journal</i> , 2020, 26, 7609-7621.	1.7	10
67	Improving Assessment of Lipoprotein Profile in Type 1 Diabetes by ¹ H NMR Spectroscopy. <i>PLoS ONE</i> , 2015, 10, e0136348.	1.1	10
68	Reduction of Islet Amylin Expression and Basal Secretion by Adenovirus-Mediated Delivery of Amylin Antisense cDNA. <i>Pancreas</i> , 1998, 17, 182-186.	0.5	9
69	Amylin and Hypertension: Association of an Amylin β^2 G132A Gene Mutation and Hypertension in Humans and Amylin-Induced Endothelium Dysfunction in Rats. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2007, 92, 1446-1450.	1.8	9
70	Differential Effect of Amylin on Endothelial-Dependent Vasodilation in Mesenteric Arteries from Control and Insulin Resistant Rats. <i>PLoS ONE</i> , 2015, 10, e0120479.	1.1	9
71	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.	2.2	8
72	Effects of Isradipine and Nifedipine Retard in Hypertensive Patients With Type II Diabetes Mellitus. <i>American Journal of Hypertension</i> , 1993, 6, 102S-103S.	1.0	7

#	ARTICLE	IF	CITATIONS
73	Î2-Cell Function Abnormalities in Islets from an Adult Subject with Nesidioblastosis and Autoantibodies Against the Islet Cells. <i>Pancreas</i> , 1997, 14, 71-75.	0.5	7
74	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, 187-191.	1.5	6
75	Identification of iduronate-2-sulfatase in mouse pancreatic islets. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2004, 287, E983-E990.	1.8	6
76	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-E801.	1.8	6
77	Clinical characteristics and management of type 1 diabetes in Spain. The SED1 study. <i>Endocrinología y Nutrición (English Ed)</i> , 2021, 68, 642-653.	0.1	6
78	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.	1.6	5
79	Sistema de monitorización continua de glucosa: una nueva herramienta para mejorar el control metabólico de los pacientes diabéticos. <i>Endocrinología Y Nutrición: Órgano De La Sociedad Española De Endocrinología Y Nutrición</i> , 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. <i>Diabetologia</i> 46: 574-578. <i>Diabetologia</i> , 2003, 46, 1708-1709.	2.9	4
81	Carbohydrate Management in Athletes with Type 1 Diabetes in a 10%km Run Competition. <i>International Journal of Sports Medicine</i> , 2015, 36, 853-857.	0.8	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. <i>Endocrinología, Diabetes Y Nutrición</i> , 2018, 65, 30-38.	0.1	4
83	BACE2 suppression in mice aggravates the adverse metabolic consequences of an obesogenic diet. <i>Molecular Metabolism</i> , 2021, 53, 101251.	3.0	4
84	Autoantibodies against mitochondrial glycerophosphate dehydrogenase in patients with IDDM. <i>Diabetes Research and Clinical Practice</i> , 1997, 38, 115-121.	1.1	3
85	Management of Hypoglycemia in Adults with Type 1 Diabetes in Real-Life Condition. <i>Annals of Nutrition and Metabolism</i> , 2020, 76, 277-284.	1.0	3
86	IAPP and Insulin Regulation in Human Pancreatic Islets. <i>Advances in Experimental Medicine and Biology</i> , 1997, 426, 363-369.	0.8	3
87	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, 2280-2281.	4.3	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. <i>Acta Diabetologica Latina</i> , 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. <i>Endocrine</i> , 2002, 19, 185-190.	2.2	1

#	ARTICLE	IF	CITATIONS
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.	1.5	0
93	Amilina: del estudio molecular a las acciones fisiolÃ³gicas. Endocrinología Y Nutricion: Organo De La Sociedad Espanola De Endocrinología 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.	4.3	0
95	Molecular Aspects of Glucose Regulation ofâ€•Pancreatic â€• 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.	2.9	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.	1.2	0