

# Anna Novials

## List of Publications by Year in Descending Order

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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 | 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> , <b>2022</b> , 1   | 3.4  |           |
| 95 | Clinical characteristics and management of type 1 diabetes in Spain. The SED1 study.. <i>Endocrinología Diabetes Y Nutrición (English Ed)</i> , <b>2021</b> , 68, 642-653   | 0.1  | 0         |
| 94 | Clinical characteristics and management of type 1 diabetes in Spain. The SED1 study. <i>Endocrinología, Diabetes Y Nutrición</i> , <b>2021</b> ,  | 1.3  | 2         |
| 93 | In Situ LSPR Sensing of Secreted Insulin in Organ-on-Chip. <i>Biosensors</i> , <b>2021</b> , 11,  | 5.9  | 11        |
| 92 | 4-Phenylbutyrate (PBA) treatment reduces hyperglycemia and islet amyloid in a mouse model of type 2 diabetes and obesity. <i>Scientific Reports</i> , <b>2021</b> , 11, 11878   | 4.9  | 0         |
| 91 | CD31 Extracellular Vesicles From Patients With Type 2 Diabetes Shuttle a miRNA Signature Associated With Cardiovascular Complications. <i>Diabetes</i> , <b>2021</b> , 70, 240-254  | 0.9  | 19        |
| 90 | BACE2 suppression in mice aggravates the adverse metabolic consequences of an obesogenic diet. <i>Molecular Metabolism</i> , <b>2021</b> , 53, 101251   | 8.8  | 2         |
| 89 | Alpha1-antitrypsin ameliorates islet amyloid-induced glucose intolerance and $\beta$ cell dysfunction. <i>Molecular Metabolism</i> , <b>2020</b> , 37, 100984   | 8.8  | 8         |
| 88 | Cationic Carboxilane Dendritic Systems as Promising Anti-Amyloid Agents in Type 2 Diabetes. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 7609-7621   | 4.8  | 5         |
| 87 | 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> , <b>2020</b> , 117, 30335-30343 | 11.5 | 19        |
| 86 | miR-10b and miR-223-3p in serum microvesicles signal progression from prediabetes to type 2 diabetes. <i>Journal of Endocrinological Investigation</i> , <b>2020</b> , 43, 451-459  | 5.2  | 21        |
| 85 | Peripheral insulin and amylin levels in Parkinson's disease. <i>Parkinsonism and Related Disorders</i> , <b>2020</b> , 79, 91-96  | 3.6  | 5         |
| 84 | Management of Hypoglycemia in Adults with Type 1 Diabetes in Real-Life Condition. <i>Annals of Nutrition and Metabolism</i> , <b>2020</b> , 76, 277-284   | 4.5  | 0         |
| 83 | Exosomes and diabetes. <i>Diabetes/Metabolism Research and Reviews</i> , <b>2019</b> , 35, e3107  | 7.5  | 35        |
| 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> , <b>2018</b> , 65, 30-38      | 1.3  | 3         |
| 81 | 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> , <b>2018</b> , 115, 12158-12163   | 11.5 | 144       |
| 80 | Metabolomic Response to Acute Hypoxic Exercise and Recovery in Adult Males. <i>Frontiers in Physiology</i> , <b>2018</b> , 9, 1682  | 4.6  | 11        |

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|----|--|------|----|
| 79 | BACE2 suppression promotes $\beta$ 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> , <b>2017</b> , 74, 2827-2838 | 10.3 | 12 |
| 78 | Stress-Induced MicroRNA-708 Impairs $\beta$ Cell Function and Growth. <i>Diabetes</i> , <b>2017</b> , 66, 3029-3040  | 0.9  | 30 |
| 77 | Europe has to step up its efforts to produce innovative and safe diabetes technology. <i>Diabetologia</i> , <b>2017</b> , 60, 2532-2533  | 10.3 |    |
| 76 | Amyloid-induced $\beta$ cell dysfunction and islet inflammation are ameliorated by 4-phenylbutyrate (PBA) treatment. <i>FASEB Journal</i> , <b>2017</b> , 31, 5296-5306  | 0.9  | 19 |
| 75 | Maternal Exposure to Bisphenol-A During Pregnancy Increases Pancreatic $\beta$ Cell Growth During Early Life in Male Mice Offspring. <i>Endocrinology</i> , <b>2016</b> , 157, 4158-4171   | 4.8  | 45 |
| 74 | Human Serum Versus Human Serum Albumin Supplementation in Human Islet Pretransplantation Culture: In Vitro and In Vivo Assessment. <i>Cell Transplantation</i> , <b>2016</b> , 25, 343-52  | 4    | 14 |
| 73 | Protein disulfide isomerase ameliorates $\beta$ cell dysfunction in pancreatic islets overexpressing human islet amyloid polypeptide. <i>Molecular and Cellular Endocrinology</i> , <b>2016</b> , 420, 57-65                     | 4.4  | 13 |
| 72 | Molecular Aspects of Glucose Regulation of Pancreatic $\beta$ Cells <b>2016</b> , 155-168  |      |    |
| 71 | Low Physical Activity and Its Association with Diabetes and Other Cardiovascular Risk Factors: A Nationwide, Population-Based Study. <i>PLoS ONE</i> , <b>2016</b> , 11, e0160959  | 3.7  | 30 |
| 70 | The Role of Human IAPP in Stress and Inflammatory Processes in Type 2 Diabetes <b>2016</b> ,   |      | 1  |
| 69 | 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> , <b>2016</b> , 15, 78         | 4.4  | 71 |
| 68 | Circulating microRNAs as biomarkers for metabolic disease. <i>Best Practice and Research in Clinical Endocrinology and Metabolism</i> , <b>2016</b> , 30, 591-601  | 6.5  | 33 |
| 67 | Inhibition of BACE2 counteracts hIAPP-induced insulin secretory defects in pancreatic $\beta$ cells. <i>FASEB Journal</i> , <b>2015</b> , 29, 95-104   | 0.9  | 14 |
| 66 | 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> , <b>2015</b> , 100, E407-15                                  | 5.6  | 99 |
| 65 | Carbohydrate Management in Athletes with Type 1 Diabetes in a 10 km Run Competition. <i>International Journal of Sports Medicine</i> , <b>2015</b> , 36, 853-7   | 3.6  | 2  |
| 64 | Islet amyloid polypeptide exerts a novel autocrine action in $\beta$ cell signaling and proliferation. <i>FASEB Journal</i> , <b>2015</b> , 29, 2970-9   | 0.9  | 24 |
| 63 | Pancreatic polypeptide regulates glucagon release through PPYR1 receptors expressed in mouse and human alpha-cells. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2015</b> , 1850, 343-51                         | 4    | 25 |
| 62 | 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> , <b>2015</b> , 31, 212-9    | 7.5  | 23 |

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|----|---|------|-----|
| 61 | Oscillating glucose and constant high glucose induce endoglin expression in endothelial cells: the role of oxidative stress. <i>Acta Diabetologica</i> , <b>2015</b> , 52, 505-12   | 3.9  | 28  |
| 60 | Differential effect of amylin on endothelial-dependent vasodilation in mesenteric arteries from control and insulin resistant rats. <i>PLoS ONE</i> , <b>2015</b> , 10, e0120479  | 3.7  | 8   |
| 59 | Improving Assessment of Lipoprotein Profile in Type 1 Diabetes by 1H NMR Spectroscopy. <i>PLoS ONE</i> , <b>2015</b> , 10, e0136348   | 3.7  | 9   |
| 58 | 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> , <b>2014</b> , 24, 116-23             | 4.5  | 29  |
| 57 | Chaperones ameliorate beta cell dysfunction associated with human islet amyloid polypeptide overexpression. <i>PLoS ONE</i> , <b>2014</b> , 9, e101797  | 3.7  | 41  |
| 56 | 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> , <b>2014</b> , 7, 25-34   | 3.4  | 62  |
| 55 | Simultaneous GLP-1 and insulin administration acutely enhances their vasodilatory, antiinflammatory, and antioxidant action in type 2 diabetes. <i>Diabetes Care</i> , <b>2014</b> , 37, 1938-43  | 14.6 | 54  |
| 54 | Differential methylation of TCF7L2 promoter in peripheral blood DNA in newly diagnosed, drug-naïve patients with type 2 diabetes. <i>PLoS ONE</i> , <b>2014</b> , 9, e99310   | 3.7  | 26  |
| 53 | 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> , <b>2013</b> , 12, 97                           | 8.7  | 13  |
| 52 | Glucose regulation of a cell cycle gene module is selectively lost in mouse pancreatic islets during ageing. <i>Diabetologia</i> , <b>2013</b> , 56, 1761-72  | 10.3 | 18  |
| 51 | 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> , <b>2013</b> , 36, 2346-50                                     | 14.6 | 122 |
| 50 | Amylin exerts osteogenic actions with different efficacy depending on the diabetic status. <i>Molecular and Cellular Endocrinology</i> , <b>2013</b> , 365, 309-15  | 4.4  | 14  |
| 49 | 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> , <b>2013</b> , 36, 4104-8           | 14.6 | 44  |
| 48 | Proteomics Characterization of the Secretome from Rat Pancreatic Stellate Cells with ATP-Binding Cassette Transporters (ABCG2) and NCAM Phenotype <b>2013</b> , 2013, 1-18  |      | 1   |
| 47 | Gastric inhibitory polypeptide receptor methylation in newly diagnosed, drug-naïve patients with type 2 diabetes: a case-control study. <i>PLoS ONE</i> , <b>2013</b> , 8, e75474   | 3.7  | 10  |
| 46 | 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> , <b>2012</b> , 61, 2993-7 | 0.9  | 108 |
| 45 | Rapid insulinotropic action of low doses of bisphenol-A on mouse and human islets of Langerhans: role of estrogen receptor $\alpha$ <i>PLoS ONE</i> , <b>2012</b> , 7, e31109   | 3.7  | 147 |
| 44 | Metabolomics approach for analyzing the effects of exercise in subjects with type 1 diabetes mellitus. <i>PLoS ONE</i> , <b>2012</b> , 7, e40600  | 3.7  | 54  |

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|----|--|------|-----|
| 43 | Amylin effect in extrapancreatic tissues participating in glucose homeostasis, in normal, insulin-resistant and type 2 diabetic state. <i>Peptides</i> , <b>2011</b> , 32, 2077-85   | 3.8  | 16  |
| 42 | Effect of lipoic acid and exercise training on cardiovascular disease risk in obesity with impaired glucose tolerance. <i>Lipids in Health and Disease</i> , <b>2011</b> , 10, 217   | 4.4  | 39  |
| 41 | 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> , <b>2011</b> , 286, 40857-66  | 5.4  | 24  |
| 40 | BACE2 plays a role in the insulin receptor trafficking in pancreatic $\beta$ cells. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2010</b> , 299, E1087-95   | 6    | 27  |
| 39 | Role of iduronate-2-sulfatase in glucose-stimulated insulin secretion by activation of exocytosis. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2009</b> , 297, E793-801  | 6    | 5   |
| 38 | Identification of a pancreatic stellate cell population with properties of progenitor cells: new role for stellate cells in the pancreas. <i>Biochemical Journal</i> , <b>2009</b> , 421, 181-91   | 3.8  | 48  |
| 37 | 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> , <b>2008</b> , 51, 2252-62                                      | 10.3 | 97  |
| 36 | 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> , <b>2007</b> , 92, 1446-50                    | 5.6  | 8   |
| 35 | 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> , <b>2007</b> , 56, 2284-94 | 0.9  | 105 |
| 34 | 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> , <b>2005</b> , 1740, 74-8                        | 6.9  | 11  |
| 33 | 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> , <b>2005</b> , 68, 141-6                  | 7.4  | 12  |
| 32 | 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> , <b>2005</b> , 27, 213-7                       |      | 23  |
| 31 | The Korle-Bu Hb variant in Caucasian women with type 1 diabetes: a pitfall in the assessment of diabetes control. <i>Diabetes Care</i> , <b>2004</b> , 27, 2280-1  | 14.6 | 1   |
| 30 | Identification of iduronate-2-sulfatase in mouse pancreatic islets. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2004</b> , 287, E983-90  | 6    | 6   |
| 29 | GUIDE study: double-blind comparison of once-daily gliclazide MR and glimepiride in type 2 diabetic patients. <i>European Journal of Clinical Investigation</i> , <b>2004</b> , 34, 535-42   | 4.6  | 191 |
| 28 | 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> , <b>2004</b> , 24, 111-4  |      | 9   |
| 27 | 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> , <b>2004</b> , 47, 1167-1174   | 10.3 | 10  |
| 26 | -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> , <b>2003</b> , 46, 1708-9  | 10.3 | 3   |

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|----|---|------|-----|
| 25 | 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> , <b>2003</b> , 26, 1153-7 | 14.6 | 182 |
| 24 | 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> , <b>2002</b> , 19, 185-9   |      | 1   |
| 23 | A novel mutation in islet amyloid polypeptide (IAPP) gene promoter is associated with Type II diabetes mellitus. <i>Diabetologia</i> , <b>2001</b> , 44, 1064-5   | 10.3 | 22  |
| 22 | 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> , <b>2001</b> , 16, 39-42   |      | 7   |
| 21 | Amilina: del estudio molecular a las acciones fisiológicas. <i>Endocrinología Y Nutricion: Organo De La Sociedad Espanola De Endocrinología Y Nutricion</i> , <b>2001</b> , 48, 234-245   |      |     |
| 20 | 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> , <b>2001</b> , 48, 266-271                        |      | 2   |
| 19 | High glucose concentration favors the selective secretion of islet amyloid polypeptide through a constitutive secretory pathway in human pancreatic islets. <i>Pancreas</i> , <b>2001</b> , 22, 307-10  | 2.6  | 18  |
| 18 | Reduction of islet amylin expression and basal secretion by adenovirus-mediated delivery of amylin antisense cDNA. <i>Pancreas</i> , <b>1998</b> , 17, 182-6  | 2.6  | 7   |
| 17 | Beta-cell function abnormalities in islets from an adult subject with nesidioblastosis and autoantibodies against the islet cells. <i>Pancreas</i> , <b>1997</b> , 14, 71-5   | 2.6  | 5   |
| 16 | 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> , <b>1997</b> , 231, 570-2   | 3.4  | 23  |
| 15 | Signals related to glucose metabolism regulate islet amyloid polypeptide (IAPP) gene expression in human pancreatic islets. <i>Regulatory Peptides</i> , <b>1997</b> , 68, 99-104   |      | 18  |
| 14 | Autoantibodies against mitochondrial glycerophosphate dehydrogenase in patients with IDDM. <i>Diabetes Research and Clinical Practice</i> , <b>1997</b> , 38, 115-21  | 7.4  | 3   |
| 13 | Glucose regulation of islet amyloid polypeptide gene expression in rat pancreatic islets. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>1997</b> , 272, E543-9  | 6    | 11  |
| 12 | Nucleotide sequence of cDNA fragments coding for the FAD-, glycerophosphate- and calcium-binding domains of human islet mitochondrial glycerophosphate dehydrogenase. <i>IUBMB Life</i> , <b>1997</b> , 42, 1125-30   | 4.7  |     |
| 11 | IAPP and insulin regulation in human pancreatic islets. <i>Advances in Experimental Medicine and Biology</i> , <b>1997</b> , 426, 363-9   | 3.6  | 2   |
| 10 | Pancreatic islet mitochondrial glycerophosphate dehydrogenase deficiency in two animal models of non-insulin-dependent diabetes mellitus. <i>Biochemical and Biophysical Research Communications</i> , <b>1996</b> , 220, 1020-3  | 3.4  | 12  |
| 9  | Immunodetection of mitochondrial glycerophosphate dehydrogenase (mGDH) by a polyclonal antibody raised against a recombinant mGDH fragment product. <i>Biochemical and Molecular Medicine</i> , <b>1996</b> , 59, 187-91  |      | 6   |
| 8  | Regulation of islet amyloid polypeptide in human pancreatic islets. <i>Diabetes</i> , <b>1993</b> , 42, 1514-9  | 0.9  | 56  |

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|---|---|------|----|
| 7 | Effects of isradipine and nifedipine retard in hypertensive patients with type II diabetes mellitus. <i>American Journal of Hypertension</i> , <b>1993</b> , 6, 102S-103S                     | 2.3  | 6  |
| 6 | Human pancreatic islet function at the onset of type 1 (insulin-dependent) diabetes mellitus. <i>Diabetologia</i> , <b>1993</b> , 36, 358-60  | 10.3 | 13 |
| 5 | Regulation of islet amyloid polypeptide in human pancreatic islets. <i>Diabetes</i> , <b>1993</b> , 42, 1514-1519   | 0.9  | 10 |
| 4 | Incidence of type 1 (insulin-dependent) diabetes mellitus in Catalonia, Spain. The Catalan Epidemiology Diabetes Study Group. <i>Diabetologia</i> , <b>1992</b> , 35, 267-71                  | 10.3 | 54 |
| 3 | Localisation of islet amyloid polypeptide and its carboxy terminal flanking peptide in islets of diabetic man and monkey. <i>Diabetologia</i> , <b>1991</b> , 34, 449-51                      | 10.3 | 13 |
| 2 | 3-O-methyl-D-glucose uptake by erythrocytes of normal and diabetic subjects. <i>Acta Diabetologica Latina</i> , <b>1990</b> , 27, 279-83  |      | 1  |
| 1 | Suppression by insulin treatment of glucose-induced inhibition of insulin release in non-insulin-dependent diabetics. <i>Diabetes Research and Clinical Practice</i> , <b>1989</b> , 6, 191-8 | 7.4  | 12 |