

Pedro L Herrera

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.

47 papers	3,407 citations	28 h-index	52 g-index
52 ext. papers	4,040 ext. citations	11.5 avg, IF	4.97 L-index

#	Paper	IF	Citations
47	Conversion of adult pancreatic alpha-cells to beta-cells after extreme beta-cell loss. <i>Nature</i> , 2010 , 464, 1149-54	50.4	846
46	Diabetes recovery by age-dependent conversion of pancreatic β cells into insulin producers. <i>Nature</i> , 2014 , 514, 503-7	50.4	273
45	Insulin signaling in alpha cells modulates glucagon secretion in vivo. <i>Cell Metabolism</i> , 2009 , 9, 350-61	24.6	228
44	Embryonic endocrine pancreas and mature beta cells acquire alpha and PP cell phenotypes upon Arx misexpression. <i>Journal of Clinical Investigation</i> , 2007 , 117, 961-70	15.9	189
43	Nkx6.1 controls a gene regulatory network required for establishing and maintaining pancreatic Beta cell identity. <i>PLoS Genetics</i> , 2013 , 9, e1003274	6	163
42	Context-specific β to- β cell reprogramming by forced Pdx1 expression. <i>Genes and Development</i> , 2011 , 25, 1680-5	12.6	147
41	Pancreatic neurogenin 3-expressing cells are unipotent islet precursors. <i>Development (Cambridge)</i> , 2009 , 136, 3567-74	6.6	127
40	Converting Adult Pancreatic Islet β Cells into β Cells by Targeting Both Dnmt1 and Arx. <i>Cell Metabolism</i> , 2017 , 25, 622-634	24.6	122
39	Argonaute2 mediates compensatory expansion of the pancreatic β cell. <i>Cell Metabolism</i> , 2014 , 19, 122-34	24.6	113
38	Diabetes relief in mice by glucose-sensing insulin-secreting human β cells. <i>Nature</i> , 2019 , 567, 43-48	50.4	104
37	A Map of Human Type 1 Diabetes Progression by Imaging Mass Cytometry. <i>Cell Metabolism</i> , 2019 , 29, 755-768.e5	24.6	103
36	Normal glucagon signaling and β cell function after near-total β cell ablation in adult mice. <i>Diabetes</i> , 2011 , 60, 2872-82	0.9	83
35	Pancreatic cell lineage analyses in mice. <i>Endocrine</i> , 2002 , 19, 267-78		73
34	β cell regeneration: the pancreatic intrinsic faculty. <i>Trends in Endocrinology and Metabolism</i> , 2011 , 22, 34-43	8.8	72
33	The GluCre-ROSA26EYFP mouse: a new model for easy identification of living pancreatic alpha-cells. <i>FEBS Letters</i> , 2007 , 581, 4235-40	3.8	68
32	Pancreatic β Cell-Derived Glucagon-Related Peptides Are Required for β Cell Adaptation and Glucose Homeostasis. <i>Cell Reports</i> , 2017 , 18, 3192-3203	10.6	60
31	Stress-impaired transcription factor expression and insulin secretion in transplanted human islets. <i>Journal of Clinical Investigation</i> , 2016 , 126, 1857-70	15.9	57

30	Connective tissue growth factor modulates adult β cell maturity and proliferation to promote β cell regeneration in mice. <i>Diabetes</i> , 2015 , 64, 1284-98	0.9	51
29	Unique mechanisms of growth regulation and tumor suppression upon Apc inactivation in the pancreas. <i>Development (Cambridge)</i> , 2007 , 134, 2719-25	6.6	50
28	β cell glucokinase suppresses glucose-regulated glucagon secretion. <i>Nature Communications</i> , 2018 , 9, 546	17.4	47
27	Insulin and Glucagon: Partners for Life. <i>Endocrinology</i> , 2017 , 158, 696-701	4.8	46
26	Blockade of glucagon signaling prevents or reverses diabetes onset only if residual β cells persist. <i>ELife</i> , 2016 , 5,	8.9	45
25	Defining the cell lineages of the islets of Langerhans using transgenic mice. <i>International Journal of Developmental Biology</i> , 2002 , 46, 97-103	1.9	38
24	β Cell-Specific Deletion of the IL-1 Receptor Antagonist Impairs β Cell Proliferation and Insulin Secretion. <i>Cell Reports</i> , 2018 , 22, 1774-1786	10.6	37
23	Multimodal image coregistration and inducible selective cell ablation to evaluate imaging ligands. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 20719-24	11.5	34
22	Mafa Enables Pdx1 to Effectively Convert Pancreatic Islet Progenitors and Committed Islet β Cells Into β Cells In Vivo. <i>Diabetes</i> , 2017 , 66, 1293-1300	0.9	33
21	The Zinc Transporter Slc30a8/ZnT8 Is Required in a Subpopulation of Pancreatic β Cells for Hypoglycemia-induced Glucagon Secretion. <i>Journal of Biological Chemistry</i> , 2015 , 290, 21432-42	5.4	32
20	Pancreatic islet-autonomous insulin and smoothened-mediated signalling modulate identity changes of glucagon β cells. <i>Nature Cell Biology</i> , 2018 , 20, 1267-1277	23.4	29
19	Glycoprotein 130 receptor signaling mediates β cell dysfunction in a rodent model of type 2 diabetes. <i>Diabetes</i> , 2014 , 63, 2984-95	0.9	20
18	Regeneration of pancreatic insulin-producing cells by in situ adaptive cell conversion. <i>Current Opinion in Genetics and Development</i> , 2016 , 40, 1-10	4.9	15
17	Pancreatic alpha cell-selective deletion of Tcf7l2 impairs glucagon secretion and counter-regulatory responses to hypoglycaemia in mice. <i>Diabetologia</i> , 2017 , 60, 1043-1050	10.3	13
16	SGLT2 is not expressed in pancreatic β and α cells, and its inhibition does not directly affect glucagon and insulin secretion in rodents and humans. <i>Molecular Metabolism</i> , 2020 , 42, 101071	8.8	13
15	Lack of Prox1 Downregulation Disrupts the Expansion and Maturation of Postnatal Murine β Cells. <i>Diabetes</i> , 2016 , 65, 687-98	0.9	12
14	GPR40 activation initiates store-operated Ca entry and potentiates insulin secretion via the IP3R1/STIM1/Orai1 pathway in pancreatic β cells. <i>Scientific Reports</i> , 2019 , 9, 15562	4.9	10
13	Pancreatic Ppy-expressing β cells display mixed phenotypic traits and the adaptive plasticity to engage insulin production. <i>Nature Communications</i> , 2021 , 12, 4458	17.4	10

12	Lixisenatide accelerates restoration of normoglycemia and improves human beta-cell function and survival in diabetic immunodeficient NOD-scid IL-2rg(null) RIP-DTR mice engrafted with human islets. <i>Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy</i> , 2015 , 8, 387-98	3.4	9
11	Kinetics of functional beta cell mass decay in a diphtheria toxin receptor mouse model of diabetes. <i>Scientific Reports</i> , 2017 , 7, 12440	4.9	7
10	Cell type-specific deletion in mice reveals roles for PAS kinase in insulin and glucagon production. <i>Diabetologia</i> , 2016 , 59, 1938-47	10.3	7
9	Combined inhibition of menin-MLL interaction and TGF- β signaling induces replication of human pancreatic beta cells. <i>European Journal of Cell Biology</i> , 2020 , 99, 151094	6.1	4
8	Generation and Characterization of a Novel Mouse Model That Allows Spatiotemporal Quantification of Pancreatic β Cell Proliferation. <i>Diabetes</i> , 2020 , 69, 2340-2351	0.9	4
7	Cell Heterogeneity and Paracrine Interactions in Human Islet Function: A Perspective Focused in β Cell Regeneration Strategies. <i>Frontiers in Endocrinology</i> , 2020 , 11, 619150	5.7	4
6	K channel blockers control glucagon secretion by distinct mechanisms: A direct stimulation of β cells involving a [Ca] rise and an indirect inhibition mediated by somatostatin. <i>Molecular Metabolism</i> , 2021 , 53, 101268	8.8	4
5	Dnmt1 activity is dispensable in β cells but is essential for β cell homeostasis. <i>International Journal of Biochemistry and Cell Biology</i> , 2017 , 88, 226-235	5.6	2
4	Tissue repair brakes: A common paradigm in the biology of regeneration. <i>Stem Cells</i> , 2020 , 38, 330-339	5.8	2
3	Stage-specific transcriptomic changes in pancreatic β cells after massive β cell loss. <i>BMC Genomics</i> , 2021 , 22, 585	4.5	1
2	Adult pancreatic islet endocrine cells emerge as fetal hormone-expressing cells.. <i>Cell Reports</i> , 2022 , 38, 110377	10.6	0
1	Generation of human islet cell type-specific identity genesets.. <i>Nature Communications</i> , 2022 , 13, 2020	17.4	0