# Pedro L Herrera

## List of Publications by Year in Descending Order



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|---|---|---|---|
| 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 | Adult pancreatic islet endocrine cells emerge as fetal hormone-expressing cells.. *Cell Reports*, **2022**, 38, 110377 | 10.6 | 0 |
| 46 | Generation of human islet cell type-specific identity genesets.. *Nature Communications*, **2022**, 13, 2020 | 17.4 | 0 |
| 45 | Pancreatic Ppy-expressing cells display mixed phenotypic traits and the adaptive plasticity to engage insulin production. *Nature Communications*, **2021**, 12, 4458 | 17.4 | 10 |
| 44 | Stage-specific transcriptomic changes in pancreatic cells after massive cell loss. *BMC Genomics*, **2021**, 22, 585 | 4.5 | 1 |
| 43 | K channel blockers control glucagon secretion by distinct mechanisms: A direct stimulation of cells involving a [Ca] rise and an indirect inhibition mediated by somatostatin. *Molecular Metabolism*, **2021**, 53, 101268 | 8.8 | 4 |
| 42 | Combined inhibition of menin-MLL interaction and TGF- signaling induces replication of human pancreatic beta cells. *European Journal of Cell Biology*, **2020**, 99, 151094 | 6.1 | 4 |
| 41 | Tissue repair brakes: A common paradigm in the biology of regeneration. *Stem Cells*, **2020**, 38, 330-339 | 5.8 | 2 |
| 40 | SGLT2 is not expressed in pancreatic and cells, and its inhibition does not directly affect glucagon and insulin secretion in rodents and humans. *Molecular Metabolism*, **2020**, 42, 101071 | 8.8 | 13 |
| 39 | Generation and Characterization of a Novel Mouse Model That Allows Spatiotemporal Quantification of Pancreatic Cell Proliferation. *Diabetes*, **2020**, 69, 2340-2351 | 0.9 | 4 |
| 38 | Cell Heterogeneity and Paracrine Interactions in Human Islet Function: A Perspective Focused in Cell Regeneration Strategies. *Frontiers in Endocrinology*, **2020**, 11, 619150 | 5.7 | 4 |
| 37 | A Map of Human Type 1 Diabetes Progression by Imaging Mass Cytometry. *Cell Metabolism*, **2019**, 29, 755-768.e5 | 24.6 | 103 |
| 36 | GPR40 activation initiates store-operated Ca entry and potentiates insulin secretion via the IP3R1/STIM1/Orai1 pathway in pancreatic cells. *Scientific Reports*, **2019**, 9, 15562 | 4.9 | 10 |
| 35 | Diabetes relief in mice by glucose-sensing insulin-secreting human cells. *Nature*, **2019**, 567, 43-48 | 50.4 | 104 |
| 34 | cell glucokinase suppresses glucose-regulated glucagon secretion. *Nature Communications*, **2018**, 9, 546 | 17.4 | 47 |
| 33 | Cell-Specific Deletion of the IL-1 Receptor Antagonist Impairs Cell Proliferation and Insulin Secretion. *Cell Reports*, **2018**, 22, 1774-1786 | 10.6 | 37 |
| 32 | Pancreatic islet-autonomous insulin and smoothened-mediated signalling modulate identity changes of glucagon cells. *Nature Cell Biology*, **2018**, 20, 1267-1277 | 23.4 | 29 |
| 31 | Dnmt1 activity is dispensable in cells but is essential for cell homeostasis. *International Journal of Biochemistry and Cell Biology*, **2017**, 88, 226-235 | 5.6 | 2 |

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| 30 | Mafa Enables Pdx1 to Effectively Convert Pancreatic Islet Progenitors and Committed Islet Cells Into Cells In Vivo. *Diabetes*, **2017**, 66, 1293-1300 | 0.9 | 33 |
| 29 | Converting Adult Pancreatic Islet Cells into Cells by Targeting Both Dnmt1 and Arx. *Cell Metabolism*, **2017**, 25, 622-634 | 24.6 | 122 |
| 28 | Pancreatic alpha cell-selective deletion of Tcf7l2 impairs glucagon secretion and counter-regulatory responses to hypoglycaemia in mice. *Diabetologia*, **2017**, 60, 1043-1050 | 10.3 | 13 |
| 27 | Pancreatic Cell-Derived Glucagon-Related Peptides Are Required for Cell Adaptation and Glucose Homeostasis. *Cell Reports*, **2017**, 18, 3192-3203 | 10.6 | 60 |
| 26 | Kinetics of functional beta cell mass decay in a diphtheria toxin receptor mouse model of diabetes. *Scientific Reports*, **2017**, 7, 12440 | 4.9 | 7 |
| 25 | Insulin and Glucagon: Partners for Life. *Endocrinology*, **2017**, 158, 696-701 | 4.8 | 46 |
| 24 | Cell type-specific deletion in mice reveals roles for PAS kinase in insulin and glucagon production. *Diabetologia*, **2016**, 59, 1938-47 | 10.3 | 7 |
| 23 | Regeneration of pancreatic insulin-producing cells by in situ adaptive cell conversion. *Current Opinion in Genetics and Development*, **2016**, 40, 1-10 | 4.9 | 15 |
| 22 | Lack of Prox1 Downregulation Disrupts the Expansion and Maturation of Postnatal Murine Cells. *Diabetes*, **2016**, 65, 687-98 | 0.9 | 12 |
| 21 | Stress-impaired transcription factor expression and insulin secretion in transplanted human islets. *Journal of Clinical Investigation*, **2016**, 126, 1857-70 | 15.9 | 57 |
| 20 | Blockade of glucagon signaling prevents or reverses diabetes onset only if residual cells persist. *ELife*, **2016**, 5, | 8.9 | 45 |
| 19 | Connective tissue growth factor modulates adult cell maturity and proliferation to promote cell regeneration in mice. *Diabetes*, **2015**, 64, 1284-98 | 0.9 | 51 |
| 18 | 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. *Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy*, **2015**, 8, 387-98 | 3.4 | 9 |
| 17 | The Zinc Transporter Slc30a8/ZnT8 Is Required in a Subpopulation of Pancreatic Cells for Hypoglycemia-induced Glucagon Secretion. *Journal of Biological Chemistry*, **2015**, 290, 21432-42 | 5.4 | 32 |
| 16 | Diabetes recovery by age-dependent conversion of pancreatic cells into insulin producers. *Nature* , **2014**, 514, 503-7 | 50.4 | 273 |
| 15 | Argonaute2 mediates compensatory expansion of the pancreatic cell. *Cell Metabolism*, **2014**, 19, 122-34 | 24.6 | 113 |
| 14 | Glycoprotein 130 receptor signaling mediates cell dysfunction in a rodent model of type 2 diabetes. *Diabetes*, **2014**, 63, 2984-95 | 0.9 | 20 |
| 13 | Nkx6.1 controls a gene regulatory network required for establishing and maintaining pancreatic Beta cell identity. *PLoS Genetics*, **2013**, 9, e1003274 | 6 | 163 |

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|---|---|---|---|
| 12 | Normal glucagon signaling and -cell function after near-total -cell ablation in adult mice. *Diabetes* , **2011**, 60, 2872-82 | 0.9 | 83 |
| 11 | -cell regeneration: the pancreatic intrinsic faculty. *Trends in Endocrinology and Metabolism*, **2011**, 22, 34-43 | 8.8 | 72 |
| 10 | Multimodal image coregistration and inducible selective cell ablation to evaluate imaging ligands. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 20719-24 | 11.5 | 34 |
| 9 | Context-specific -to--cell reprogramming by forced Pdx1 expression. *Genes and Development*, **2011**, 25, 1680-5 | 12.6 | 147 |
| 8 | Conversion of adult pancreatic alpha-cells to beta-cells after extreme beta-cell loss. *Nature*, **2010**, 464, 1149-54 | 50.4 | 846 |
| 7 | Insulin signaling in alpha cells modulates glucagon secretion in vivo. *Cell Metabolism*, **2009**, 9, 350-61 | 24.6 | 228 |
| 6 | Pancreatic neurogenin 3-expressing cells are unipotent islet precursors. *Development (Cambridge)*, **2009**, 136, 3567-74 | 6.6 | 127 |
| 5 | Embryonic endocrine pancreas and mature beta cells acquire alpha and PP cell phenotypes upon Arx misexpression. *Journal of Clinical Investigation*, **2007**, 117, 961-70 | 15.9 | 189 |
| 4 | Unique mechanisms of growth regulation and tumor suppression upon Apc inactivation in the pancreas. *Development (Cambridge)*, **2007**, 134, 2719-25 | 6.6 | 50 |
| 3 | The GluCre-ROSA26EYFP mouse: a new model for easy identification of living pancreatic alpha-cells. *FEBS Letters*, **2007**, 581, 4235-40 | 3.8 | 68 |
| 2 | Pancreatic cell lineage analyses in mice. *Endocrine*, **2002**, 19, 267-78 | | 73 |
| 1 | Defining the cell lineages of the islets of Langerhans using transgenic mice. *International Journal of Developmental Biology*, **2002**, 46, 97-103 | 1.9 | 38 |