

Raphael Scharfmann

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

4,582
citations

159358

30
h-index

168136

53
g-index

59
all docs

59
docs citations

59
times ranked

5463
citing authors

#	ARTICLE	IF	CITATIONS
1	Activating Mutations in the ABCC8 Gene in Neonatal Diabetes Mellitus. <i>New England Journal of Medicine</i> , 2006, 355, 456-466.	13.9	591
2	A genetically engineered human pancreatic β cell line exhibiting glucose-inducible insulin secretion. <i>Journal of Clinical Investigation</i> , 2011, 121, 3589-3597.	3.9	484
3	<i>Fgf10</i> is essential for maintaining the proliferative capacity of epithelial progenitor cells during early pancreatic organogenesis. <i>Development (Cambridge)</i> , 2001, 128, 5109-5117.	1.2	394
4	Age-Dependent Pancreatic Gene Regulation Reveals Mechanisms Governing Human β Cell Function. <i>Cell Metabolism</i> , 2016, 23, 909-920.	7.2	205
5	Early pattern of differentiation in the human pancreas. <i>Diabetes</i> , 2000, 49, 225-232.	0.3	182
6	<i>Fgf10</i> is essential for maintaining the proliferative capacity of epithelial progenitor cells during early pancreatic organogenesis. <i>Development (Cambridge)</i> , 2001, 128, 5109-17.	1.2	178
7	Conventional and Neo-antigenic Peptides Presented by β Cells Are Targeted by Circulating Na ⁺ -ve CD8 ⁺ T Cells in Type 1 Diabetic and Healthy Donors. <i>Cell Metabolism</i> , 2018, 28, 946-960.e6.	7.2	177
8	Histone Deacetylase Inhibitors Modify Pancreatic Cell Fate Determination and Amplify Endocrine Progenitors. <i>Molecular and Cellular Biology</i> , 2008, 28, 6373-6383.	1.1	167
9	Development of a conditionally immortalized human pancreatic β cell line. <i>Journal of Clinical Investigation</i> , 2014, 124, 2087-2098.	3.9	165
10	Signaling through fibroblast growth factor receptor 2b plays a key role in the development of the exocrine pancreas. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 6267-6272.	3.3	162
11	The Mesenchyme Controls the Timing of Pancreatic β -Cell Differentiation. <i>Diabetes</i> , 2006, 55, 582-589.	0.3	101
12	Efficient Generation of Glucose-Responsive Beta Cells from Isolated GP2 + Human Pancreatic Progenitors. <i>Cell Reports</i> , 2017, 19, 36-49.	2.9	100
13	Comparison of Human and Murine Enteroendocrine Cells by Transcriptomic and Peptidomic Profiling. <i>Diabetes</i> , 2019, 68, 1062-1072.	0.3	100
14	Control of β -Cell Differentiation by the Pancreatic Mesenchyme. <i>Diabetes</i> , 2007, 56, 1248-1258.	0.3	96
15	Neuropsychological dysfunction and developmental defects associated with genetic changes in infants with neonatal diabetes mellitus: a prospective cohort study. <i>Lancet Diabetes and Endocrinology</i> , 2013, 1, 199-207.	5.5	87
16	Blood glucose normalization upon transplantation of human embryonic pancreas into beta-cell-deficient SCID mice. <i>Diabetologia</i> , 2001, 44, 2066-2076.	2.9	81
17	Label-Retaining Cells in the Rat Pancreas: Location and Differentiation Potential in Vitro. <i>Diabetes</i> , 2003, 52, 2035-2042.	0.3	79
18	Systematic Functional Characterization of Candidate Causal Genes for Type 2 Diabetes Risk Variants. <i>Diabetes</i> , 2016, 65, 3805-3811.	0.3	79

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19	Understanding human fetal pancreas development using subpopulation sorting, RNA sequencing and single-cell profiling. <i>Development (Cambridge)</i> , 2018, 145, .	1.2	78
20	Sulfonylurea Therapy Benefits Neurological and Psychomotor Functions in Patients With Neonatal Diabetes Owing to Potassium Channel Mutations. <i>Diabetes Care</i> , 2015, 38, 2033-2041.	4.3	75
21	RFX6 Regulates Insulin Secretion by Modulating Ca ²⁺ Homeostasis in Human β Cells. <i>Cell Reports</i> , 2014, 9, 2206-2218.	2.9	73
22	Disruption of a Novel Kr ⁴ ppel-like Transcription Factor p300-regulated Pathway for Insulin Biosynthesis Revealed by Studies of the c.-331 INS Mutation Found in Neonatal Diabetes Mellitus. <i>Journal of Biological Chemistry</i> , 2011, 286, 28414-28424.	1.6	72
23	Modeling human pancreatic beta cell dedifferentiation. <i>Molecular Metabolism</i> , 2018, 10, 74-86.	3.0	65
24	Glucose Is Necessary for Embryonic Pancreatic Endocrine Cell Differentiation. <i>Journal of Biological Chemistry</i> , 2007, 282, 15228-15237.	1.6	61
25	Characterization of Stimulus-Secretion Coupling in the Human Pancreatic EndoC- β H1 Beta Cell Line. <i>PLoS ONE</i> , 2015, 10, e0120879.	1.1	54
26	Virus-like infection induces human β cell dedifferentiation. <i>JCI Insight</i> , 2018, 3, .	2.3	53
27	Reconstructing human pancreatic differentiation by mapping specific cell populations during development. <i>ELife</i> , 2017, 6, .	2.8	45
28	Ex Vivo Expansion and Differentiation of Human and Mouse Fetal Pancreatic Progenitors Are Modulated by Epidermal Growth Factor. <i>Stem Cells and Development</i> , 2015, 24, 1766-1778.	1.1	41
29	Transcription factors that shape the mammalian pancreas. <i>Diabetologia</i> , 2020, 63, 1974-1980.	2.9	39
30	Efficient restricted gene expression in beta cells by lentivirus-mediated gene transfer into pancreatic stem/progenitor cells. <i>Diabetologia</i> , 2005, 48, 709-719.	2.9	38
31	Stearoyl CoA desaturase is a gatekeeper that protects human beta cells against lipotoxicity and maintains their identity. <i>Diabetologia</i> , 2020, 63, 395-409.	2.9	37
32	MondoA Is an Essential Glucose-Responsive Transcription Factor in Human Pancreatic β -Cells. <i>Diabetes</i> , 2018, 67, 461-472.	0.3	36
33	The supply chain of human pancreatic β cell lines. <i>Journal of Clinical Investigation</i> , 2019, 129, 3511-3520.	3.9	35
34	Mitochondrial Protein UCP2 Controls Pancreas Development. <i>Diabetes</i> , 2018, 67, 78-84.	0.3	30
35	Purification of pancreatic endocrine subsets reveals increased iron metabolism in beta cells. <i>Molecular Metabolism</i> , 2020, 42, 101060.	3.0	30
36	Pro-oxidant/antioxidant balance controls pancreatic β -cell differentiation through the ERK1/2 pathway. <i>Cell Death and Disease</i> , 2014, 5, e1487-e1487.	2.7	29

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37	Mass production of functional human pancreatic β cells: why and how?. <i>Diabetes, Obesity and Metabolism</i> , 2016, 18, 128-136.	2.2	27
38	Peptidylarginine Deiminase Inhibition Prevents Diabetes Development in NOD Mice. <i>Diabetes</i> , 2021, 70, 516-528.	0.3	25
39	Extracellular acidification stimulates GPR68 mediated IL-8 production in human pancreatic β cells. <i>Scientific Reports</i> , 2016, 6, 25765.	1.6	22
40	Regulated expression and function of the GABAB receptor in human pancreatic beta cell line and islets. <i>Scientific Reports</i> , 2020, 10, 13469.	1.6	22
41	Concise Review: In Search of Unlimited Sources of Functional Human Pancreatic Beta Cells. <i>Stem Cells Translational Medicine</i> , 2013, 2, 61-67.	1.6	21
42	Role of the AMP kinase in cytokine-induced human EndoC- β H1 cell death. <i>Molecular and Cellular Endocrinology</i> , 2015, 414, 53-63.	1.6	20
43	Xenotropic retrovirus Bxv1 in human pancreatic β cell lines. <i>Journal of Clinical Investigation</i> , 2016, 126, 1109-1113.	3.9	20
44	Mouse Muscle As an Ectopic Permissive Site for Human Pancreatic Development. <i>Diabetes</i> , 2013, 62, 3479-3487.	0.3	19
45	Aggregation of Engineered Human β -Cells into Pseudoislets: Insulin Secretion and Gene Expression Profile in Normoxic and Hypoxic Milieu. <i>Cell Medicine</i> , 2016, 8, 99-112.	5.0	19
46	Innate and adaptive immunity to human beta cell lines: implications for beta cell therapy. <i>Diabetologia</i> , 2016, 59, 170-175.	2.9	19
47	Bromodomain and Extra Terminal Proteins Inhibitors Promote Pancreatic Endocrine Cell Fate. <i>Diabetes</i> , 2019, 68, db180224.	0.3	13
48	Human Pancreas Endocrine Cell Populations and Activating β Mutations. <i>Hormone Research in Paediatrics</i> , 2014, 82, 59-64.	0.8	11
49	Glucose treatment of human pancreatic β -cells enhances translation of mRNAs involved in energetics and insulin secretion. <i>Journal of Biological Chemistry</i> , 2021, 297, 100839.	1.6	6
50	Proprotein convertase PCSK9 affects expression of key surface proteins in human pancreatic beta cells via intracellular and extracellular regulatory circuits. <i>Journal of Biological Chemistry</i> , 2022, 298, 102096.	1.6	6
51	Long-term Metabolic and Socioeducational Outcomes of Transient Neonatal Diabetes: A Longitudinal and Cross-sectional Study. <i>Diabetes Care</i> , 2020, 43, 1191-1199.	4.3	5
52	Characterization of the Secretome, Transcriptome, and Proteome of Human β Cell Line EndoC- β H1. <i>Molecular and Cellular Proteomics</i> , 2022, 21, 100229.	2.5	3
53	Loss of Human Beta Cell Identity in a Reconstructed Omental Stromal Cell Environment. <i>Cells</i> , 2022, 11, 924.	1.8	1
54	Pancreatic endocrinogenesis revisited: β cells have all the answers, who has the questions? <i>Cell Research</i> , 2021, 31, 834-835.	5.7	0