

Ernesto Bernal-Mizrachi

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

5,909
citations

87723

38
h-index

85405

71
g-index

73
all docs

73
docs citations

73
times ranked

7077
citing authors

#	ARTICLE	IF	CITATIONS
1	A gene encoding a transmembrane protein is mutated in patients with diabetes mellitus and optic atrophy (Wolfram syndrome). <i>Nature Genetics</i> , 1998, 20, 143-148.	9.4	654
2	Increased dosage of mammalian Sir2 in pancreatic β cells enhances glucose-stimulated insulin secretion in mice. <i>Cell Metabolism</i> , 2005, 2, 105-117.	7.2	575
3	Islet β cell expression of constitutively active Akt1/PKB β induces striking hypertrophy, hyperplasia, and hyperinsulinemia. <i>Journal of Clinical Investigation</i> , 2001, 108, 1631-1638.	3.9	324
4	Conditional Gene Targeting in Mouse Pancreatic β -Cells. <i>Diabetes</i> , 2010, 59, 3090-3098.	0.3	288
5	Inhibition of Foxo1 Protects Pancreatic Islet β -Cells Against Fatty Acid and Endoplasmic Reticulum Stress-Induced Apoptosis. <i>Diabetes</i> , 2008, 57, 846-859.	0.3	204
6	Akt Induces β -Cell Proliferation by Regulating Cyclin D1, Cyclin D2, and p21 Levels and Cyclin-Dependent Kinase-4 Activity. <i>Diabetes</i> , 2006, 55, 318-325.	0.3	186
7	Natural history of β -cell adaptation and failure in type 2 diabetes. <i>Molecular Aspects of Medicine</i> , 2015, 42, 19-41.	2.7	183
8	Defective insulin secretion and increased susceptibility to experimental diabetes are induced by reduced Akt activity in pancreatic islet β cells. <i>Journal of Clinical Investigation</i> , 2004, 114, 928-936.	3.9	180
9	Neurofibromatosis-1 Regulates Neuronal and Glial Cell Differentiation from Neuroglial Progenitors In Vivo by Both cAMP- and Ras-Dependent Mechanisms. <i>Cell Stem Cell</i> , 2007, 1, 443-457.	5.2	180
10	Disruption of Tsc2 in pancreatic β cells induces β cell mass expansion and improved glucose tolerance in a TORC1-dependent manner. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 9250-9255.	3.3	175
11	Insulin protects islets from apoptosis via Pdx1 and specific changes in the human islet proteome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 19575-19580.	3.3	174
12	Endoplasmic Reticulum Stress-Induced Apoptosis Is Partly Mediated by Reduced Insulin Signaling Through Phosphatidylinositol 3-Kinase/Akt and Increased Glycogen Synthase Kinase-3 α in Mouse Insulinoma Cells. <i>Diabetes</i> , 2005, 54, 968-975.	0.3	158
13	Human β -Cell Proliferation and Intracellular Signaling Part 2: Still Driving in the Dark Without a Road Map. <i>Diabetes</i> , 2014, 63, 819-831.	0.3	155
14	Interrupted Glucagon Signaling Reveals Hepatic α Cell Axis and Role for L-Glutamine in α Cell Proliferation. <i>Cell Metabolism</i> , 2017, 25, 1362-1373.e5.	7.2	153
15	Defective insulin secretion and increased susceptibility to experimental diabetes are induced by reduced Akt activity in pancreatic islet β cells. <i>Journal of Clinical Investigation</i> , 2004, 114, 928-936.	3.9	148
16	Loss of mTORC1 signalling impairs β -cell homeostasis and insulin processing. <i>Nature Communications</i> , 2017, 8, 16014.	5.8	125
17	Human β -Cell Proliferation and Intracellular Signaling: Part 3. <i>Diabetes</i> , 2015, 64, 1872-1885.	0.3	120
18	Glucose Regulates Foxo1 Through Insulin Receptor Signaling in the Pancreatic Islet β -cell. <i>Diabetes</i> , 2006, 55, 1581-1591.	0.3	112

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19	mTORC1 Activation Regulates β -Cell Mass and Proliferation by Modulation of Cyclin D2 Synthesis and Stability. <i>Journal of Biological Chemistry</i> , 2009, 284, 7832-7842.	1.6	105
20	Glucose promotes pancreatic islet β -cell survival through a PI 3-kinase/Akt-signaling pathway. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2002, 283, E784-E793.	1.8	100
21	Genetic Deficiency of Glycogen Synthase Kinase-3 β Corrects Diabetes in Mouse Models of Insulin Resistance. <i>PLoS Biology</i> , 2008, 6, e37.	2.6	96
22	Maternal diet-induced microRNAs and mTOR underlie β cell dysfunction in offspring. <i>Journal of Clinical Investigation</i> , 2014, 124, 4395-4410.	3.9	96
23	Reduced Expression of the Insulin Receptor in Mouse Insulinoma (MIN6) Cells Reveals Multiple Roles of Insulin Signaling in Gene Expression, Proliferation, Insulin Content, and Secretion. <i>Journal of Biological Chemistry</i> , 2005, 280, 4992-5003.	1.6	86
24	Akt and PTEN: β -cell mass and pancreas plasticity. <i>Trends in Endocrinology and Metabolism</i> , 2009, 20, 243-251.	3.1	80
25	mTORC1-to-AMPK switching underlies β cell metabolic plasticity during maturation and diabetes. <i>Journal of Clinical Investigation</i> , 2019, 129, 4124-4137.	3.9	80
26	mTORC1 signaling and regulation of pancreatic β -cell mass. <i>Cell Cycle</i> , 2012, 11, 1892-1902.	1.3	74
27	Activation of Serum Response Factor in the Depolarization Induction of Egr-1 Transcription in Pancreatic Islet β -Cells. <i>Journal of Biological Chemistry</i> , 2000, 275, 25681-25689.	1.6	61
28	Decreased IRS Signaling Impairs β -Cell Cycle Progression and Survival in Transgenic Mice Overexpressing S6K in β -Cells. <i>Diabetes</i> , 2010, 59, 2390-2399.	0.3	58
29	Disruption of O-linked N-Acetylglucosamine Signaling Induces ER Stress and β Cell Failure. <i>Cell Reports</i> , 2015, 13, 2527-2538.	2.9	51
30	Differential Effects of p27 in Regulation of β -Cell Mass During Development, Neonatal Period, and Adult Life. <i>Diabetes</i> , 2006, 55, 3520-3528.	0.3	50
31	Androgen excess in pancreatic β cells and neurons predisposes female mice to type 2 diabetes. <i>JCI Insight</i> , 2018, 3, .	2.3	49
32	Glucose and Insulin Treatment of Insulinoma Cells Results in Transcriptional Regulation of a Common Set of Genes. <i>Diabetes</i> , 2004, 53, 1496-1508.	0.3	48
33	Suppressed Insulin Signaling and Increased Apoptosis in Cd38-Null Islets. <i>Diabetes</i> , 2006, 55, 2737-2746.	0.3	47
34	Loss of mTORC1 signaling alters pancreatic β cell mass and impairs glucagon secretion. <i>Journal of Clinical Investigation</i> , 2017, 127, 4379-4393.	3.9	44
35	Overexpression of Kinase-Dead mTOR Impairs Glucose Homeostasis by Regulating Insulin Secretion and Not β -Cell Mass. <i>Diabetes</i> , 2017, 66, 2150-2162.	0.3	42
36	Glucose and Fatty Acids Synergize to Promote β -Cell Apoptosis through Activation of Glycogen Synthase Kinase 3 β Independent of JNK Activation. <i>PLoS ONE</i> , 2011, 6, e18146.	1.1	41

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37	Role of nutrients and mTOR signaling in the regulation of pancreatic progenitors development. <i>Molecular Metabolism</i> , 2017, 6, 560-573.	3.0	40
38	Inhibition of mTORC1 by ER stress impairs neonatal β -cell expansion and predisposes to diabetes in the Akita mouse. <i>ELife</i> , 2018, 7, .	2.8	39
39	Hypusine biosynthesis in β cells links polyamine metabolism to facultative cellular proliferation to maintain glucose homeostasis. <i>Science Signaling</i> , 2019, 12, .	1.6	37
40	Transgenic Overexpression of Active Calcineurin in β -Cells Results in Decreased β -Cell Mass and Hyperglycemia. <i>PLoS ONE</i> , 2010, 5, e11969.	1.1	33
41	Long-lived crowded-litter mice exhibit lasting effects on insulin sensitivity and energy homeostasis. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2014, 306, E1305-E1314.	1.8	32
42	Activation of Nuclear Factor- κ B by Depolarization and Ca ²⁺ Influx in MIN6 Insulinoma Cells. <i>Diabetes</i> , 2002, 51, S484-S488.	0.3	30
43	Calpain 10: the first positional cloning of a gene for type 2 diabetes?. <i>Journal of Clinical Investigation</i> , 2000, 106, 819-821.	3.9	29
44	Maternal low-protein diet on the last week of pregnancy contributes to insulin resistance and β -cell dysfunction in the mouse offspring. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2020, 319, R485-R496.	0.9	26
45	Gene expression profiling in islet biology and diabetes research. <i>Diabetes/Metabolism Research and Reviews</i> , 2003, 19, 32-42.	1.7	23
46	Islet pericytes convert into profibrotic myofibroblasts in a mouse model of islet vascular fibrosis. <i>Diabetologia</i> , 2020, 63, 1564-1575.	2.9	23
47	S6K1 controls pancreatic β cell size independently of intrauterine growth restriction. <i>Journal of Clinical Investigation</i> , 2015, 125, 2736-2747.	3.9	23
48	Exposure of mouse embryonic pancreas to metformin enhances the number of pancreatic progenitors. <i>Diabetologia</i> , 2014, 57, 2566-2575.	2.9	20
49	Pancreatic and duodenal homeobox-1 (PDX1) contributes to β -cell mass expansion and proliferation induced by Akt/PKB pathway. <i>Islets</i> , 2020, 12, 32-40.	0.9	19
50	Transient early food restriction leads to hypothalamic changes in the long-lived crowded litter female mice. <i>Physiological Reports</i> , 2015, 3, e12379.	0.7	18
51	Gestational exposure to metformin programs improved glucose tolerance and insulin secretion in adult male mouse offspring. <i>Scientific Reports</i> , 2018, 8, 5745.	1.6	17
52	4E-BP2/SH2B1/IRS2 Are Part of a Novel Feedback Loop That Controls β -Cell Mass. <i>Diabetes</i> , 2016, 65, 2235-2248.	0.3	13
53	Sexual dimorphism in hypothalamic inflammation in the offspring of dams exposed to a diet rich in high fat and branched-chain amino acids. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2019, 317, E526-E534.	1.8	13
54	Lactational metformin exposure programs offspring white adipose tissue glucose homeostasis and resilience to metabolic stress in a sex-dependent manner. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2020, 318, E600-E612.	1.8	13

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55	Glucagon Resistance and Decreased Susceptibility to Diabetes in a Model of Chronic Hyperglucagonemia. <i>Diabetes</i> , 2021, 70, 477-491.	0.3	13
56	OGT Regulates Mitochondrial Biogenesis and Function via Diabetes Susceptibility Gene Pdx1. <i>Diabetes</i> , 2021, 70, 2608-2625.	0.3	12
57	Glucose stimulates microRNA-199 expression in murine pancreatic β -cells. <i>Journal of Biological Chemistry</i> , 2020, 295, 1261-1270.	1.6	10
58	Early pancreatic islet fate and maturation is controlled through RBP-J δ . <i>Scientific Reports</i> , 2016, 6, 26874.	1.6	9
59	Glucose stimulates microRNA-199 expression in murine pancreatic β -cells. <i>Journal of Biological Chemistry</i> , 2020, 295, 1261-1270.	1.6	9
60	The Transcription Factor YY1 Is Essential for Normal DNA Repair and Cell Cycle in Human and Mouse β -Cells. <i>Diabetes</i> , 2022, 71, 1694-1705.	0.3	8
61	Trimethylguanosine synthase 1 is a novel regulator of pancreatic beta-cell mass and function. <i>Journal of Biological Chemistry</i> , 2022, 298, 101592.	1.6	7
62	Nutrient Sensor mTORC1 Regulates Insulin Secretion by Modulating β -Cell Autophagy. <i>Diabetes</i> , 2022, 71, 453-469.	0.3	6
63	Maternal High-Fat Diet During Pre-Conception and Gestation Predisposes Adult Female Offspring to Metabolic Dysfunction in Mice. <i>Frontiers in Endocrinology</i> , 2021, 12, 780300.	1.5	6
64	Cyclin C stimulates β -cell proliferation in rat and human pancreatic β -cells. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2015, 308, E450-E459.	1.8	5
65	The regulatory G protein signaling complex, G β 17, promotes glucose- and extracellular signal-stimulated insulin secretion. <i>Journal of Biological Chemistry</i> , 2020, 295, 7213-7223.	1.6	5
66	Molecular aspects of pancreatic beta cell failure and diabetes. <i>Molecular Aspects of Medicine</i> , 2015, 42, 1-2.	2.7	4
67	Noninvasive in vivo imaging of embryonic β -cell development in the anterior chamber of the eye. <i>Islets</i> , 2016, 8, 35-47.	0.9	4
68	Steroid-Free Immune Suppression Impairs Glycemic Control in a Healthy Cynomolgus Monkey. <i>Cell Transplantation</i> , 2019, 28, 262-268.	1.2	4
69	Novel roles of mTORC2 in regulation of insulin secretion by actin filament remodeling. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2022, 323, E133-E144.	1.8	3
70	The RNA-binding protein LARP1 is dispensable for pancreatic β -cell function and mass. <i>Scientific Reports</i> , 2021, 11, 2079.	1.6	1