Raghavendra G Mirmira

List of Publications by Year
in descending order

167	7,385	53794 45	74163 75
papers	citations	h-index	g-index

181	181	181	9171
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Islet Î²-Cell Endoplasmic Reticulum Stress Precedes the Onset of Type 1 Diabetes in the Nonobese Diabetic Mouse Model. Diabetes, 2012, 61, 818-827.	0.6	299
2	Quantitative Assessment of Gene Targeting in Vitroand in Vivo by the Pancreatic Transcription Factor, Pdx1. Journal of Biological Chemistry, 2002, 277, 13286-13293.	3.4	269
3	Restructuring of the Gut Microbiome by Intermittent Fasting Prevents Retinopathy and Prolongs Survival in db/db Mice. Diabetes, 2018, 67, 1867-1879.	0.6	243
4	Regulation of the Pancreatic Pro-Endocrine Gene Neurogenin3. Diabetes, 2001, 50, 928-936.	0.6	237
5	Pdx1 (MODY4) regulates pancreatic beta cell susceptibility to ER stress. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 19090-19095.	7.1	190
6	The Homeodomain of PDX-1 Mediates Multiple Protein-Protein Interactions in the Formation of a Transcriptional Activation Complex on the Insulin Promoter. Molecular and Cellular Biology, 2000, 20, 900-911.	2.3	179
7	The unique hypusine modification of eIF5A promotes islet Î² cell inflammation and dysfunction in mice. Journal of Clinical Investigation, 2010, 120, 2156-2170.	8.2	144
8	The Nkx6.1 homeodomain transcription factor suppresses glucagon expression and regulates glucose-stimulated insulin secretion in islet beta cells. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 7297-7302.	7.1	142
9	An Acetate-Specific GPCR, FFAR2, Regulates Insulin Secretion. Molecular Endocrinology, 2015, 29, 1055-1066.	3.7	139
10	Proendocrine genes coordinate the pancreatic islet differentiation program in vitro. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 13245-13250.	7.1	135
11	Peroxisome Proliferator-Activated Receptor Î³ Activation Restores Islet Function in Diabetic Mice through Reduction of Endoplasmic Reticulum Stress and Maintenance of Euchromatin Structure. Molecular and Cellular Biology, 2009, 29, 2053-2067.	2.3	134
12	Covalent Histone Modifications Underlie the Developmental Regulation of Insulin Gene Transcription in Pancreatic Î² Cells. Journal of Biological Chemistry, 2003, 278, 23617-23623.	3.4	131
13	An intracellular role for ABCG1-mediated cholesterol transport in the regulated secretory pathway of mouse pancreatic Î² cells. Journal of Clinical Investigation, 2010, 120, 2575-2589.	8.2	129
14	Loss of mTORC1 signalling impairs Î²-cell homeostasis and insulin processing. Nature Communications, 2017, 8, 16014.	12.8	125
15	Transcription factors direct the development and function of pancreatic Î² cells. Trends in Endocrinology and Metabolism, 2003, 14, 78-84.	7.1	112
16	Elevations in the Fasting Serum Proinsulinâ€“toâ€“C-Peptide Ratio Precede the Onset of Type 1 Diabetes. Diabetes Care, 2016, 39, 1519-1526.	8.6	106
17	Methyltransferase Set7/9 Maintains Transcription and Euchromatin Structure at Islet-Enriched Genes. Diabetes, 2009, 58, 185-193.	0.6	105
18	Mechanism of insulin Gene Regulation by the Pancreatic Transcription Factor Pdx-1. Journal of Biological Chemistry, 2005, 280, 16798-16807.	3.4	98

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19	Intramolecular control of transcriptional activity by the NK2-specific domain in NK-2 homeodomain proteins. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 9443-9448.	7.1	93
20	Stimulation of Human and Rat Islet Î²-Cell Proliferation with Retention of Function by the Homeodomain Transcription Factor Nkx6.1. Molecular and Cellular Biology, 2008, 28, 3465-3476.	2.3	93
21	A feat of metabolic proportions: Pdx1 orchestrates islet development and function in the maintenance of glucose homeostasis. Molecular Genetics and Metabolism, 2007, 92, 43-55.	1.1	90
22	Our Response to COVID-19 as Endocrinologists and Diabetologists. Journal of Clinical Endocrinology and Metabolism, 2020, 105, 1299-1301.	3.6	89
23	Pdx-1 Links Histone H3-Lys-4 Methylation to RNA Polymerase II Elongation during Activation of Insulin Transcription. Journal of Biological Chemistry, 2005, 280, 36244-36253.	3.4	83
24	Proinsulin Secretion Is a Persistent Feature of Type 1 Diabetes. Diabetes Care, 2019, 42, 258-264.	8.6	82
25	Elevations in Circulating Methylated and Unmethylated Preproinsulin DNA in New-Onset Type 1 Diabetes. Diabetes, 2015, 64, 3867-3872.	0.6	80
26	Comprehensive Proteomics Analysis of Stressed Human Islets Identifies GDF15 as a Target for Type 1 Diabetes Intervention. Cell Metabolism, 2020, 31, 363-374.e6.	16.2	78
27	Glucose Regulation of Insulin Gene Transcription and Pre-mRNA Processing in Human Islets. Diabetes, 2007, 56, 827-835.	0.6	77
28	The Roles of ATF3, an Adaptive-Response Gene, in High-Fat-Diet-Induced Diabetes and Pancreatic Î²-Cell Dysfunction. Molecular Endocrinology, 2010, 24, 1423-1433.	3.7	77
29	Interleukin-6 Reduces Î²-Cell Oxidative Stress by Linking Autophagy With the Antioxidant Response. Diabetes, 2018, 67, 1576-1588.	0.6	77
30	Mouse Islet of Langerhans Isolation using a Combination of Purified Collagenase and Neutral Protease. Journal of Visualized Experiments, 2012, , .	0.3	76
31	Cyclical and Alternating Infusions of Glucose and Intralipid in Rats Inhibit Insulin Gene Expression and Pdx-1 Binding in Islets. Diabetes, 2008, 57, 424-431.	0.6	71
32	Noninvasive assessment of pancreatic Î²-cell function in vivo with manganese-enhanced magnetic resonance imaging. American Journal of Physiology - Endocrinology and Metabolism, 2009, 296, E573-E578.	3.5	71
33	Phenotypic sexual dimorphism in response to dietary fat manipulation in C57BL/6J mice. Journal of Diabetes and Its Complications, 2021, 35, 107795.	2.3	71
34	Transcriptional and Translational Regulation of Î²-Cell Differentiation Factor Nkx6.1. Journal of Biological Chemistry, 2000, 275, 34224-34230.	3.4	63
35	Creatine-mediated crosstalk between adipocytes and cancer cells regulates obesity-driven breast cancer. Cell Metabolism, 2021, 33, 499-512.e6.	16.2	61
36	12-Lipoxygenase Promotes Obesity-Induced Oxidative Stress in Pancreatic Islets. Molecular and Cellular Biology, 2014, 34, 3735-3745.	2.3	60

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37	Research Resource: Nuclear Hormone Receptor Expression in the Endocrine Pancreas. Molecular Endocrinology, 2008, 22, 2353-2363.	3.7	56
38	Proinsulin and heat shock protein 90 as biomarkers of beta-cell stress in the early period after onset of type 1 diabetes. Translational Research, 2016, 168, 96-106.e1.	5.0	56
39	Sirtuin 6 regulates glucose-stimulated insulin secretion in mouse pancreatic beta cells. Diabetologia, 2016, 59, 151-160.	6.3	56
40	Leukotriene B ₄ â€“mediated sterile inflammation promotes susceptibility to sepsis in a mouse model of type 1 diabetes. Science Signaling, 2015, 8, ra10.	3.6	55
41	Î²-Cell Differentiation Factor Nkx6.1 Contains Distinct DNA Binding Interference and Transcriptional Repression Domains. Journal of Biological Chemistry, 2000, 275, 14743-14751.	3.4	53
42	Imatinib therapy for patients with recent-onset type 1 diabetes: a multicentre, randomised, double-blind, placebo-controlled, phase 2 trial. Lancet Diabetes and Endocrinology,the, 2021, 9, 502-514.	11.4	53
43	The Transcriptional Repressor Nkx6.1 Also Functions as a Deoxyribonucleic Acid Context-Dependent Transcriptional Activator during Pancreatic Î²-Cell Differentiation: Evidence for Feedback Activation of thenkx6.1Gene by Nkx6.1. Molecular Endocrinology, 2004, 18, 1363-1375.	3.7	52
44	Â40 Isoform of p53 Controls Â-Cell Proliferation and Glucose Homeostasis in Mice. Diabetes, 2011, 60, 1210-1222.	0.6	52
45	IFN-Î± induces a preferential long-lasting expression of MHC class I in human pancreatic beta cells. Diabetologia, 2018, 61, 636-640.	6.3	50
46	Lost in translation: endoplasmic reticulum stress and the decline of Î²â€cell health in diabetes mellitus. Diabetes, Obesity and Metabolism, 2013, 15, 159-169.	4.4	49
47	Palmitate Induces mRNA Translation and Increases ER Protein Load in Islet Î²-Cells via Activation of the Mammalian Target of Rapamycin Pathway. Diabetes, 2014, 63, 3404-3415.	0.6	48
48	Profiling of RNAs from Human Islet-Derived Exosomes in a Model of Type 1 Diabetes. International Journal of Molecular Sciences, 2019, 20, 5903.	4.1	48
49	Targeting Regulatory T Cells in the Treatment of Type 1 Diabetes Mellitus. Current Molecular Medicine, 2012, 12, 1261-1272.	1.3	47
50	Minireview: 12-Lipoxygenase and Islet Î²-Cell Dysfunction in Diabetes. Molecular Endocrinology, 2015, 29, 791-800.	3.7	47
51	Disposition of the phenylalanine B25 side chain during insulin-receptor and insulin-insulin interactions. Biochemistry, 1991, 30, 8222-8229.	2.5	44
52	Divergent compensatory responses to high-fat diet between C57BL6/J and C57BLKS/J inbred mouse strains. American Journal of Physiology - Endocrinology and Metabolism, 2013, 305, E1495-E1511.	3.5	44
53	Regulation of Tissue Inflammation by 12-Lipoxygenases. Biomolecules, 2021, 11, 717.	4.0	43
54	Islet Î²-Cell-Specific MafA Transcription Requires the 5â€²-Flanking Conserved Region 3 Control Domain. Molecular and Cellular Biology, 2010, 30, 4234-4244.	2.3	42

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55	Detection of Islet Î²-Cell Death in Vivo by Multiplex PCR Analysis of Differentially Methylated DNA. Endocrinology, 2013, 154, 3476-3481.	2.8	42
56	Insulin regulates carboxypeptidase E by modulating translation initiation scaffolding protein eIF4G1 in pancreatic Î² cells. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E2319-28.	7.1	42
57	Deletion of 12/15-Lipoxygenase Alters Macrophage and Islet Function in NOD-Alox15null Mice, Leading to Protection against Type 1 Diabetes Development. PLoS ONE, 2013, 8, e56763.	2.5	40
58	The role of beta-cell dysfunction in early type 1 diabetes. Current Opinion in Endocrinology, Diabetes and Obesity, 2020, 27, 215-224.	2.3	39
59	Pdx1 and BETA2/NeuroD1 Participate in a Transcriptional Complex That Mediates Short-range DNA Looping at the Insulin Gene. Journal of Biological Chemistry, 2008, 283, 8164-8172.	3.4	38
60	Liver X Receptor Agonists Augment Human Islet Function through Activation of Anaplerotic Pathways and Glycerolipid/Free Fatty Acid Cycling. Journal of Biological Chemistry, 2010, 285, 5392-5404.	3.4	38
61	Abnormalities in proinsulin processing in islets from individuals with longstanding T1D. Translational Research, 2019, 213, 90-99.	5.0	38
62	Recessive Rare Variants in Deoxyhypusine Synthase, an Enzyme Involved in the Synthesis of Hypusine, Are Associated with a Neurodevelopmental Disorder. American Journal of Human Genetics, 2019, 104, 287-298.	6.2	38
63	Expression of a functional non-ribosomal peptide synthetase module in Escherichia coli by coexpression with a phosphopantetheinyl transferase. Chemistry and Biology, 1997, 4, 203-207.	6.0	37
64	Trefoil Factor 3 Stimulates Human and Rodent Pancreatic Islet Î²-Cell Replication with Retention of Function. Molecular Endocrinology, 2008, 22, 1251-1259.	3.7	37
65	Inhibition of Deoxyhypusine Synthase Enhances Islet Î² Cell Function and Survival in the Setting of Endoplasmic Reticulum Stress and Type 2 Diabetes. Journal of Biological Chemistry, 2010, 285, 39943-39952.	3.4	37
66	Effects of combination therapy with dipeptidyl peptidase-IV and histone deacetylase inhibitors in the non-obese diabetic mouse model of type 1 diabetes. Clinical and Experimental Immunology, 2013, 172, 375-382.	2.6	37
67	Transcriptional Activity of the Islet Î² Cell Factor Pdx1 Is Augmented by Lysine Methylation Catalyzed by the Methyltransferase Set7/9. Journal of Biological Chemistry, 2015, 290, 9812-9822.	3.4	37
68	1,25-Dihydroxyvitamin D3 enhances glucose-stimulated insulin secretion in mouse and human islets: a role for transcriptional regulation of voltage-gated calcium channels by the vitamin D receptor. Journal of Steroid Biochemistry and Molecular Biology, 2019, 185, 17-26.	2.5	37
69	Hypusine biosynthesis in Î² cells links polyamine metabolism to facultative cellular proliferation to maintain glucose homeostasis. Science Signaling, 2019, 12, .	3.6	37
70	Nanomedicine-Based Strategies for Diabetes: Diagnostics, Monitoring, and Treatment. Trends in Endocrinology and Metabolism, 2020, 31, 448-458.	7.1	36
71	Biomarkers of Î²-Cell Stress and Death in Type 1 Diabetes. Current Diabetes Reports, 2016, 16, 95.	4.2	35
72	Cellular metabolism constrains innate immune responses in early human ontogeny. Nature Communications, 2018, 9, 4822.	12.8	35

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73	Inhibition of 12/15-Lipoxygenase Protects Against Î²-Cell Oxidative Stress and Glycemic Deterioration in Mouse Models of Type 1 Diabetes. Diabetes, 2017, 66, 2875-2887.	0.6	34
74	Inducible pluripotent stem cells: not quite ready for prime time?. Current Opinion in Organ Transplantation, 2010, 15, 61-67.	1.6	33
75	Loss of Free Fatty Acid Receptor 2 leads to impaired islet mass and beta cell survival. Scientific Reports, 2016, 6, 28159.	3.3	33
76	The demise of islet allotransplantation in the United States: A call for an urgent regulatory update. American Journal of Transplantation, 2021, 21, 1365-1375.	4.7	33
77	Protective effects of polyamine depletion in mouse models of type 1 diabetes: implications for therapy. Amino Acids, 2014, 46, 633-642.	2.7	32
78	Syntaxin 4 Up-Regulation Increases Efficiency of Insulin Release in Pancreatic Islets From Humans With and Without Type 2 Diabetes Mellitus. Journal of Clinical Endocrinology and Metabolism, 2014, 99, E866-E870.	3.6	32
79	A Versatile, Portable Intravital Microscopy Platform for Studying Beta-cell Biology In Vivo. Scientific Reports, 2019, 9, 8449.	3.3	32
80	Distinct gene expression pathways in islets from individuals with shortâ€•and longâ€duration type 1 diabetes. Diabetes, Obesity and Metabolism, 2018, 20, 1859-1867.	4.4	31
81	Biomarkers of islet beta cell stress and death in type 1 diabetes. Diabetologia, 2018, 61, 2259-2265.	6.3	31
82	Deoxyhypusine Synthase Promotes Differentiation and Proliferation of T Helper Type 1 (Th1) Cells in Autoimmune Diabetes. Journal of Biological Chemistry, 2013, 288, 36226-36235.	3.4	30
83	Molecular mechanisms of nonalcoholic fatty liver disease: Potential role for 12-lipoxygenase. Journal of Diabetes and Its Complications, 2017, 31, 1630-1637.	2.3	30
84	In situ type I oligomeric collagen macroencapsulation promotes islet longevity and function in vitro and in vivo. American Journal of Physiology - Endocrinology and Metabolism, 2018, 315, E650-E661.	3.5	30
85	An islet in distress: Î² cell failure in type 2 diabetes. Journal of Diabetes Investigation, 2010, 1, 123-133.	2.4	29
86	Oscillatory glucose flux in INS 1 pancreatic Î² cells: A self-referencing microbiosensor study. Analytical Biochemistry, 2011, 411, 185-193.	2.4	29
87	Characterization of a novel polyclonal anti-hypusine antibody. SpringerPlus, 2013, 2, 421.	1.2	28
88	Polyamine biosynthesis is critical for growth and differentiation of the pancreas. Scientific Reports, 2015, 5, 13269.	3.3	26
89	Episodic Î²â€cell death and dedifferentiation during dietâ€induced obesity and dysglycemia in male mice. FASEB Journal, 2018, 32, 6150-6158.	0.5	26
90	Nuclear Translocation of Glutaminase GLS2 in Human Cancer Cells Associates with Proliferation Arrest and Differentiation. Scientific Reports, 2020, 10, 2259.	3.3	26

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91	Translational Control of Inducible Nitric Oxide Synthase by p38 MAPK in Islet Î²-Cells. Molecular Endocrinology, 2013, 27, 336-349.	3.7	25
92	Mitogen-Inducible Gene 6 Triggers Apoptosis and Exacerbates ER Stress-Induced Î²-Cell Death. Molecular Endocrinology, 2013, 27, 162-171.	3.7	25
93	Comparative quantitative proteomic analysis of disease stratified laser captured microdissected human islets identifies proteins and pathways potentially related to type 1 diabetes. PLoS ONE, 2017, 12, e0183908.	2.5	25
94	Preclinical evaluation of tyrosine kinase 2 inhibitors for human betaâ€cell protection in type 1 diabetes. Diabetes, Obesity and Metabolism, 2020, 22, 1827-1836.	4.4	25
95	Visible light-initiated interfacial thiol-norbornene photopolymerization for forming an islet surface conformal coating. Journal of Materials Chemistry B, 2015, 3, 170-175.	5.8	24
96	AnIn VivoZebrafish Model for Interrogating ROS-Mediated PancreaticÎ²-Cell Injury, Response, and Prevention. Oxidative Medicine and Cellular Longevity, 2018, 2018, 1-8.	4.0	24
97	Deoxyhypusine synthase promotes a pro-inflammatory macrophage phenotype. Cell Metabolism, 2021, 33, 1883-1893.e7.	16.2	24
98	From immunobiology to Î²-cell biology: The changing perspective on type 1 diabetes. Islets, 2014, 6, e28778.	1.8	23
99	Hypusination Orchestrates the Antimicrobial Response of Macrophages. Cell Reports, 2020, 33, 108510.	6.4	23
100	Hypusine: a new target for therapeutic intervention in diabetic inflammation. Discovery Medicine, 2010, 10, 18-23.	0.5	23
101	Deoxyhypusine synthase haploinsufficiency attenuates acute cytokine signaling. Cell Cycle, 2011, 10, 1043-1049.	2.6	22
102	SET7/9 Enzyme Regulates Cytokine-induced Expression of Inducible Nitric-oxide Synthase through Methylation of Lysine 4 at Histone 3 in the Islet Î² Cell. Journal of Biological Chemistry, 2015, 290, 16607-16618.	3.4	21
103	12-Lipoxygenase Inhibitor Improves Functions of Cytokine-Treated Human Islets and Type 2 Diabetic Islets. Journal of Clinical Endocrinology and Metabolism, 2017, 102, 2789-2797.	3.6	21
104	A system for detecting high impact-low frequency mutations in primary tumors and metastases. Oncogene, 2018, 37, 185-196.	5.9	21
105	Platelet-type 12-lipoxygenase deletion provokes a compensatory 12/15-lipoxygenase increase that exacerbates oxidative stress in mouse islet Î² cells. Journal of Biological Chemistry, 2019, 294, 6612-6620.	3.4	21
106	Effect of Different Obesogenic Diets on Pancreatic Histology in Ossabaw Miniature Swine. Pancreas, 2011, 40, 438-443.	1.1	19
107	Role of Chromatin Accessibility in the Occupancy and Transcription of the Insulin Gene by the Pancreatic and Duodenal Homeobox Factor 1. Molecular Endocrinology, 2006, 20, 3133-3145.	3.7	18
108	Peroxisome Proliferator-activated Receptor-Î³ Activation Augments the Î²-Cell Unfolded Protein Response and Rescues Early Glycemic Deterioration and Î² Cell Death in Non-obese Diabetic Mice. Journal of Biological Chemistry, 2016, 291, 22524-22533.	3.4	18

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109	Reduced synchroneity of intra-islet Ca2+ oscillations in vivo in Robo-deficient Î² cells. ELife, 2021, 10, .	6.0	18
110	Expression and function of Set7/9 in pancreatic islets. Islets, 2009, 1, 269-272.	1.8	17
111	Development of insulin-producing cells from primitive biologic precursors. Current Opinion in Organ Transplantation, 2009, 14, 56-63.	1.6	17
112	Circulating Unmethylated Insulin DNA As a Biomarker of Human Beta Cell Death: A Multi-laboratory Assay Comparison. Journal of Clinical Endocrinology and Metabolism, 2020, 105, 781-791.	3.6	17
113	Circulating unmethylated CHTOP and INS DNA fragments provide evidence of possible islet cell death in youth with obesity and diabetes. Clinical Epigenetics, 2020, 12, 116.	4.1	17
114	IRS1 deficiency protects Î²-cells against ER stress-induced apoptosis by modulating sXBP-1 stability and protein translation. Scientific Reports, 2016, 6, 28177.	3.3	16
115	Neuron-specific ablation of eIF5A or deoxyhypusine synthase leads to impairments in growth, viability, neurodevelopment, and cognitive functions in mice. Journal of Biological Chemistry, 2021, 297, 101333.	3.4	16
116	Role of Polyamines and Hypusine in Î² Cells and Diabetes Pathogenesis. Metabolites, 2022, 12, 344.	2.9	16
117	Physicochemical characterization of bovine retinal arrestin. Archives of Biochemistry and Biophysics, 1991, 285, 126-133.	3.0	15
118	Chronic high fat feeding restricts islet mRNA translation initiation independently of ER stress via DNA damage and p53 activation. Scientific Reports, 2017, 7, 3758.	3.3	15
119	eIF5A inhibition influences T cell dynamics in the pancreatic microenvironment of the humanized mouse model of Type 1 Diabetes. Scientific Reports, 2019, 9, 1533.	3.3	15
120	Combined Analysis of GAD65, miR-375, and Unmethylated Insulin DNA Following Islet Transplantation in Patients With T1D. Journal of Clinical Endocrinology and Metabolism, 2019, 104, 451-460.	3.6	15
121	Analysis of serum Hsp90 as a potential biomarker of Î² cell autoimmunity in type 1 diabetes. PLoS ONE, 2019, 14, e0208456.	2.5	15
122	The C-Terminal Domain of the Î² Cell Homeodomain Factor Nkx6.1 Enhances Sequence-Selective DNA Binding at theinsulinPromoterâ€. Biochemistry, 2005, 44, 11269-11278.	2.5	14
123	AGI-1067, a novel antioxidant and anti-inflammatory agent, enhances insulin release and protects mouse islets. Molecular and Cellular Endocrinology, 2010, 323, 246-255.	3.2	14
124	Single-Cell Transcriptional Profiling of Mouse Islets Following Short-Term Obesogenic Dietary Intervention. Metabolites, 2020, 10, 513.	2.9	14
125	12-Lipoxygenase governs the innate immune pathogenesis of islet inflammation and autoimmune diabetes. JCI Insight, 2021, 6, .	5.0	14
126	Maintenance of Pdx1 mRNA Translation in Islet Î²-Cells During the Unfolded Protein Response. Molecular Endocrinology, 2014, 28, 1820-1830.	3.7	13

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127	Deoxyhypusine synthase, an essential enzyme for hypusine biosynthesis, is required for proper exocrine pancreas development. FASEB Journal, 2021, 35, e21473.	0.5	13
128	Regenerative medicine and tissue engineering: contribution of stem cells in organ transplantation. Current Opinion in Organ Transplantation, 2009, 14, 46-50.	1.6	12
129	A 12â€lipoxygenaseâ€Gpr31 signaling axis is required for pancreatic organogenesis in the zebrafish. FASEB Journal, 2020, 34, 14850-14862.	0.5	12
130	A Novel Cre-Enabled Tetracycline Inducible transgenic system for tissue specific cytokine expression in the zebrafish: CETI-PIC3. DMM Disease Models and Mechanisms, 2020, 13, .	2.4	12
131	Cell-Free DNA Fragments as Biomarkers of Islet Î²-Cell Death in Obesity and Type 2 Diabetes. International Journal of Molecular Sciences, 2021, 22, 2151.	4.1	12
132	Amelioration of type 1 diabetes following treatment of non-obese diabetic mice with INGAP and lisofylline. Journal of Diabetes Mellitus, 2012, 02, 251-257.	0.3	12
133	GDF15: a potential therapeutic target for type 1 diabetes. Expert Opinion on Therapeutic Targets, 2022, 26, 57-67.	3.4	12
134	Saturated free fatty acids: islet Î² cell â€œstressERsâ€• Endocrine, 2012, 42, 1-2.	2.3	11
135	Mouse and human islets survive and function after coating by biosilicification. American Journal of Physiology - Endocrinology and Metabolism, 2013, 305, E1230-E1240.	3.5	11
136	Measurement of Differentially Methylated INS DNA Species in Human Serum Samples as a Biomarker of Islet β Cell Death. Journal of Visualized Experiments, 2016, , .	0.3	11
137	Hypusinated eIF5A is expressed in the pancreas and spleen of individuals with type 1 and type 2 diabetes. PLoS ONE, 2020, 15, e0230627.	2.5	11
138	Î²-Cell pre-mir-21 induces dysfunction and loss of cellular identity by targeting transforming growth factor beta 2 (Tgfb2) and Smad family member 2 (Smad2) mRNAs. Molecular Metabolism, 2021, 53, 101289.	6.5	11
139	Proinflammatory signaling in islet Î² cells propagates invasion of pathogenic immune cells in autoimmune diabetes. Cell Reports, 2022, 39, 111011.	6.4	11
140	Immune reconstitution in ART treated, but not untreated HIV infection, is associated with abnormal beta cell function. PLoS ONE, 2018, 13, e0197080.	2.5	10
141	Eukaryotic translation initiation factor 5A inhibition alters physiopathology and immune responses in a â€œhumanizedâ€•transgenic mouse model of type 1 diabetes. American Journal of Physiology - Endocrinology and Metabolism, 2014, 306, E791-E798.	3.5	9
142	Elevated unmethylated and methylated insulin DNA are unique markers of A + Î² + ketosis prone diabetes. Journal of Diabetes and Its Complications, 2018, 32, 193-195.	2.3	9
143	Persistent elevations in circulating INS DNA among subjects with longstanding type 1 diabetes. Diabetes, Obesity and Metabolism, 2019, 21, 95-102.	4.4	9
144	The role of proteomics in assessing beta-cell dysfunction and death in type 1 diabetes. Expert Review of Proteomics, 2019, 16, 569-582.	3.0	8

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145	PIE-FLIM Measurements of Two Different FRET-Based Biosensor Activities in the Same Living Cells. Biophysical Journal, 2020, 118, 1820-1829.	0.5	8
146	A Novel 2-Hit Zebrafish Model to Study Early Pathogenesis of Non-Alcoholic Fatty Liver Disease. Biomedicines, 2022, 10, 479.	3.2	8
147	Insights into Mentorship for Endocrinologists. Journal of Clinical Endocrinology and Metabolism, 2012, 97, 3891-3896.	3.6	7
148	Editorial: The Vulnerable Physician-Scientist. Molecular Endocrinology, 2014, 28, 603-606.	3.7	7
149	Extracellular vesicles in Î² cell biology: Role of lipids in vesicle biogenesis, cargo, and intercellular signaling. Molecular Metabolism, 2022, 63, 101545.	6.5	7
150	Oligomeric collagen as an encapsulation material for islet/Î²-cell replacement: effect of islet source, dose, implant site, and administration format. American Journal of Physiology - Endocrinology and Metabolism, 2020, 319, E388-E400.	3.5	6
151	Response to Comment on Sims et al. Proinsulin Secretion Is a Persistent Feature of Type 1 Diabetes. Diabetes Care 2019;42:258â€“264. Diabetes Care, 2019, 42, e85-e86.	8.6	5
152	Comparative analysis of diagnostic platforms for measurement of differentially methylated insulin DNA. Journal of Biological Methods, 2019, 6, e113.	0.6	4
153	Impact of Proinflammatory Cytokines on Alternative Splicing Patterns in Human Islets. Diabetes, 2022, 71, 116-127.	0.6	4
154	A zebrafish tailfin injury assay protocol for quantifying immune cell migration and infiltration. STAR Protocols, 2022, 3, 101196.	1.2	4
155	SARS-CoV-2 infection of islet Î² cells: Evidence and implications. Cell Reports Medicine, 2021, 2, 100380.	6.5	3
156	Stem cells and the future of organ transplantation. Current Opinion in Organ Transplantation, 2010, 15, 52-53.	1.6	1
157	Achieving "PeaK-A" Insulin Secretion. Diabetes, 2013, 62, 1389-1390.	0.6	1
158	Progress and change. Journal of Diabetes and Its Complications, 2015, 29, 1.	2.3	1
159	Islet Architecture Controls Synchronous Î² Cell Response to Glucose in the Intact Mouse Pancreas <i>in vivo</i>. SSRN Electronic Journal, 0, , .	0.4	1
160	Magnetic Resonance Imaging of Pancreatic Î²-Cells. , 2011, , 121-146.		1
161	Environmental Pollution, Climate Change, and a Critical Role for the Endocrinologist. Journal of Clinical Endocrinology and Metabolism, 2021, 106, 3381-3384.	3.6	1
162	Editorial: In Praise of Scientific Review Officers. Molecular Endocrinology, 2014, 28, 987-988.	3.7	0

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163	Editorial: Lessons From the Classic Scientific Literature. Molecular Endocrinology, 2015, 29, 1385-1387.	3.7	0
164	Hypoglycemia in a Patient With a Polyhormonal Pancreatic Neuroendocrine Tumor With Evidence of Endocrine Progenitors. Journal of the Endocrine Society, 2018, 2, 172-177.	0.2	0
165	Structural domains and conformational adjustments directing insulin-receptor interactions. , 1993, , 413-415.		0
166	Probing islet stress in type 1 diabetes. Aging, 2020, 12, 18795-18796.	3.1	0
167	Probing islet stress in type 1 diabetes. Aging, 2020, 12, 18795-18796.	3.1	0