Francis C Lynn

List of Publications by Year
in descending order

56 papers	4,604 citations	159585 30 h-index	149698 56 g-index
63 all docs	63 docs citations	63 times ranked	6252 citing authors

#	Article	IF	Citations
1	Serotonin regulates pancreatic beta cell mass during pregnancy. Nature Medicine, 2010, 16, 804-808.	30.7	489
2	HIP1, a human homologue of S. cerevisiae Sla2p, interacts with membrane-associated huntingtin in the brain. Nature Genetics, 1997, 16, 44-53.	21.4	353
3	MicroRNA Expression Is Required for Pancreatic Islet Cell Genesis in the Mouse. Diabetes, 2007, 56, 2938-2945.	0.6	344
4	Dipeptidyl Peptidase IV Inhibitor Treatment Stimulates Â-Cell Survival and Islet Neogenesis in Streptozotocin-Induced Diabetic Rats. Diabetes, 2003, 52, 741-750.	0.6	326
5	Rfx6 directs islet formation and insulin production in mice and humans. Nature, 2010, 463, 775-780.	27.8	300
6	Sox9 coordinates a transcriptional network in pancreatic progenitor cells. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 10500-10505.	7.1	214
7	Defective Glucose-Dependent Insulinotropic Polypeptide Receptor Expression in Diabetic Fatty Zucker Rats. Diabetes, 2001, 50, 1004-1011.	0.6	193
8	Meta-regulation: microRNA regulation of glucose and lipid metabolism. Trends in Endocrinology and Metabolism, 2009, 20, 452-459.	7.1	169
9	Reduced Insulin Production Relieves Endoplasmic Reticulum Stress and Induces Î² Cell Proliferation. Cell Metabolism, 2016, 23, 179-193.	16.2	160
10	Characterization of polyhormonal insulin-producing cells derived in vitro from human embryonic stem cells. Stem Cell Research, 2014, 12, 194-208.	0.7	133
11	Improved glucose tolerance in rats treated with the dipeptidyl peptidase IV (CD26) inhibitor Ile-thiazolidide. Metabolism: Clinical and Experimental, 1999, 48, 385-389.	3.4	119
12	The Polycomb-Dependent Epigenome Controls Î² Cell Dysfunction, Dedifferentiation, and Diabetes. Cell Metabolism, 2018, 27, 1294-1308.e7.	16.2	109
13	Reversal of islet GIP receptor down-regulation and resistance to GIP by reducing hyperglycemia in the Zucker rat. Biochemical and Biophysical Research Communications, 2007, 362, 1007-1012.	2.1	108
14	Glucose-dependent insulinotropic polypeptide receptor null mice exhibit compensatory changes in the enteroinsular axis. American Journal of Physiology - Endocrinology and Metabolism, 2003, 284, E931-E939.	3.5	105
15	The HMG Box Transcription Factor Sox4 Contributes to the Development of the Endocrine Pancreas. Diabetes, 2005, 54, 3402-3409.	0.6	104
16	Single-Cell Transcriptome Profiling of Mouse and hESC-Derived Pancreatic Progenitors. Stem Cell Reports, 2018, 11, 1551-1564.	4.8	94
17	A novel pathway for regulation of glucoseâ€dependent insulinotropic polypeptide receptor expression in Î²â€cells. FASEB Journal, 2003, 17, 91-93.	0.5	89
18	Super-resolution microscopy compatible fluorescent probes reveal endogenous glucagon-like peptide-1 receptor distribution and dynamics. Nature Communications, 2020, 11, 467.	12.8	88

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19	Mouse let-7 miRNA populations exhibit RNA editing that is constrained in the 5'-seed/ cleavage/anchor regions and stabilize predicted mmu-let-7a:mRNA duplexes. Genome Research, 2008, 18, 1571-1581.	5.5	87
20	Phosphorylation of NEUROG3 Links Endocrine Differentiation to the Cell Cycle in Pancreatic Progenitors. Developmental Cell, 2017, 41, 129-142.e6.	7.0	80
21	Maintenance of Î²-Cell Maturity and Plasticity in the Adult Pancreas. Diabetes, 2012, 61, 1365-1371.	0.6	64
22	Friend and foe: Î²-cell Ca2+ signaling and the development of diabetes. Molecular Metabolism, 2019, 21, 1-12.	6.5	57
23	Glucose-Dependent Insulinotropic Polypeptide Stimulation of Lipolysis in Differentiated 3T3-L1 Cells: Wortmannin-Sensitive Inhibition by Insulin**This work was supported by grants from Zymogenetics Inc. (Seattle, WA), the Medical Research Council of Canada (5â€“90007-RAP/CHSM) and the Canadian Diabetes Association (CHSM/RAP).. Endocrinology, 1999, 140, 398-404.	2.8	55
24	Identification and analysis of murine pancreatic islet enhancers. Diabetologia, 2013, 56, 542-552.	6.3	55
25	Regulation of GIP and GLP1 Receptor Cell Surface Expression by N-Glycosylation and Receptor Heteromerization. PLoS ONE, 2012, 7, e32675.	2.5	52
26	Novel Glucagon Receptor Antagonists with Improved Selectivity over the Glucose-Dependent Insulinotropic Polypeptide Receptor. Journal of Medicinal Chemistry, 2008, 51, 5387-5396.	6.4	46
27	Induction of pancreatic islet cell differentiation by the neurogeninâ€“neuroD cascade. Differentiation, 2008, 76, 381-391.	1.9	44
28	Identification of the bHLH Factor Math6 as a Novel Component of the Embryonic Pancreas Transcriptional Network. PLoS ONE, 2008, 3, e2430.	2.5	38
29	Npas4 Is a Novel Activityâ€“Regulated Cytoprotective Factor in Pancreatic Î²-Cells. Diabetes, 2013, 62, 2808-2820.	0.6	35
30	Homeodomain transcription factor NKX2.2 functions in immature cells to control enteroendocrine differentiation and is expressed in gastrointestinal neuroendocrine tumors. Endocrine-Related Cancer, 2009, 16, 267-279.	3.1	33
31	Npas4 Transcription Factor Expression Is Regulated by Calcium Signaling Pathways and Prevents Tacrolimus-induced Cytotoxicity in Pancreatic Beta Cells. Journal of Biological Chemistry, 2016, 291, 2682-2695.	3.4	33
32	The Transcription Factor Atonal homolog 8 Regulates Gata4 and Friend of Gata-2 during Vertebrate Development. Journal of Biological Chemistry, 2013, 288, 24429-24440.	3.4	32
33	Characterization of the Carboxyl-terminal Domain of the Rat Glucose-dependent Insulinotropic Polypeptide (GIP) Receptor. Journal of Biological Chemistry, 1999, 274, 24593-24601.	3.4	31
34	Recessive mutations in ATP8A2 cause severe hypotonia, cognitive impairment, hyperkinetic movement disorders and progressive optic atrophy. Orphanet Journal of Rare Diseases, 2018, 13, 86.	2.7	29
35	TALEN/CRISPR-Mediated eGFP Knock-In Add-On at the OCT4 Locus Does Not Impact Differentiation of Human Embryonic Stem Cells towards Endoderm. PLoS ONE, 2014, 9, e114275.	2.5	28
36	SOX4 cooperates with neurogenin 3 to regulate endocrine pancreas formation in mouse models. Diabetologia, 2015, 58, 1013-1023.	6.3	27

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37	Glycoprotein 130 Receptor Signaling Mediates Î±-Cell Dysfunction in a Rodent Model of Type 2 Diabetes. Diabetes, 2014, 63, 2984-2995.	0.6	24
38	The p300 and CBP Transcriptional Coactivators Are Required for Î²-Cell and Î±-Cell Proliferation. Diabetes, 2018, 67, 412-422.	0.6	24
39	Glucose-Dependent Insulinotropic Polypeptide Stimulation of Lipolysis in Differentiated 3T3-L1 Cells: Wortmannin-Sensitive Inhibition by Insulin. Endocrinology, 1999, 140, 398-404.	2.8	22
40	Mediator subunit MDT-15/MED15 and Nuclear Receptor HIZR-1/HNF4 cooperate to regulate toxic metal stress responses in Caenorhabditis elegans. PLoS Genetics, 2019, 15, e1008508.	3.5	20
41	Neuronal PAS Domain Protein 4 Suppression of Oxygen Sensing Optimizes Metabolism during Excitation of Neuroendocrine Cells. Cell Reports, 2018, 22, 163-174.	6.4	19
42	Premature termination codon readthrough upregulates progranulin expression and improves lysosomal function in preclinical models of GRN deficiency. Molecular Neurodegeneration, 2020, 15, 21.	10.8	19
43	Quetiapine Treatment in Youth Is Associated With Decreased Insulin Secretion. Journal of Clinical Psychopharmacology, 2014, 34, 359-364.	1.4	18
44	In vitro analyses of suspected arrhythmogenic thin filament variants as a cause of sudden cardiac death in infants. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 6969-6974.	7.1	16
45	Use-Dependent Activation of Neuronal Kv1.2 Channel Complexes. Journal of Neuroscience, 2015, 35, 3515-3524.	3.6	15
46	SOX4 Allows Facultative Î²-Cell Proliferation Through Repression of <i>Cdkn1a</i>. Diabetes, 2017, 66, 2213-2219.	0.6	15
47	All-encomPASsing regulation of Î²-cells: PAS domain proteins in Î²-cell dysfunction and diabetes. Trends in Endocrinology and Metabolism, 2015, 26, 49-57.	7.1	14
48	A mouse model for monitoring islet cell genesis and developing therapies for diabetes. DMM Disease Models and Mechanisms, 2011, 4, 268-276.	2.4	12
49	Generation of a Conditional Allele of the Transcription Factor Atonal Homolog 8 (Atoh8). PLoS ONE, 2016, 11, e0146273.	2.5	11
50	TrxG Complex Catalytic and Non-catalytic Activity Play Distinct Roles in Pancreas Progenitor Specification and Differentiation. Cell Reports, 2019, 28, 1830-1844.e6.	6.4	10
51	A versatile fluorescence-quenched substrate for quantitative measurement of glucocerebrosidase activity within live cells. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	10
52	Sequence and epigenetic determinants in the regulation of the Math6 gene by Neurogenin3. Differentiation, 2011, 82, 66-76.	1.9	9
53	Spatial and transcriptional heterogeneity of pancreatic beta cell neogenesis revealed by a time-resolved reporter system. Diabetologia, 2022, 65, 811-828.	6.3	7
54	Lrrc55 is a novel prosurvival factor in pancreatic islets. American Journal of Physiology - Endocrinology and Metabolism, 2019, 317, E794-E804.	3.5	5

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55	Using CRISPR-Cas9 Genome Editing to Enhance Cell Based Therapies for the Treatment of Diabetes Mellitus. , 2016, , 127-147.		1
56	Reawakening the Duct Cell Progenitor?. Endocrinology, 2016, 157, 52-53.	2.8	0