

Hindrik Mulder

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127
papers

8,379
citations

49
h-index

88
g-index

134
ext. papers

9,477
ext. citations

6.3
avg, IF

5.62
L-index

#	Paper	IF	Citations
127	Novel subgroups of adult-onset diabetes and their association with outcomes: a data-driven cluster analysis of six variables. <i>Lancet Diabetes and Endocrinology</i> , 2018 , 6, 361-369	18.1	810
126	Isolation of INS-1-derived cell lines with robust ATP-sensitive K ⁺ channel-dependent and -independent glucose-stimulated insulin secretion. <i>Diabetes</i> , 2000 , 49, 424-30	0.9	708
125	Common variant in MTNR1B associated with increased risk of type 2 diabetes and impaired early insulin secretion. <i>Nature Genetics</i> , 2009 , 41, 82-8	36.3	550
124	The ghrelin cell: a novel developmentally regulated islet cell in the human pancreas. <i>Regulatory Peptides</i> , 2002 , 107, 63-9		301
123	¹³ C NMR isotopomer analysis reveals a connection between pyruvate cycling and glucose-stimulated insulin secretion (GSIS). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 2708-13	11.5	225
122	Orexin loss in Huntington's disease. <i>Human Molecular Genetics</i> , 2005 , 14, 39-47	5.6	222
121	Sulforaphane reduces hepatic glucose production and improves glucose control in patients with type 2 diabetes. <i>Science Translational Medicine</i> , 2017 , 9,	17.5	172
120	Ghrelin is expressed in a novel endocrine cell type in developing rat islets and inhibits insulin secretion from INS-1 (832/13) cells. <i>Journal of Histochemistry and Cytochemistry</i> , 2004 , 52, 301-10	3.4	166
119	Increased Melatonin Signaling Is a Risk Factor for Type 2 Diabetes. <i>Cell Metabolism</i> , 2016 , 23, 1067-1077	24.6	159
118	Increased insulin secretion and glucose tolerance in mice lacking islet amyloid polypeptide (amylin). <i>Biochemical and Biophysical Research Communications</i> , 1998 , 250, 271-7	3.4	134
117	Pituitary adenylate cyclase activating polypeptide expression in sensory neurons. <i>Neuroscience</i> , 1994 , 63, 307-12	3.9	125
116	The R6/2 transgenic mouse model of Huntington's disease develops diabetes due to deficient beta-cell mass and exocytosis. <i>Human Molecular Genetics</i> , 2005 , 14, 565-74	5.6	116
115	Dissociated insulinotropic sensitivity to glucose and carbachol in high-fat diet-induced insulin resistance in C57BL/6J mice. <i>Metabolism: Clinical and Experimental</i> , 1997 , 46, 97-106	12.7	111
114	Fracture mechanics of collagen fibrils: influence of natural cross-links. <i>Biophysical Journal</i> , 2013 , 104, 2476-84	2.9	110
113	Melatonin receptors in pancreatic islets: good morning to a novel type 2 diabetes gene. <i>Diabetologia</i> , 2009 , 52, 1240-9	10.3	110
112	Progressive alterations in the hypothalamic-pituitary-adrenal axis in the R6/2 transgenic mouse model of Huntington's disease. <i>Human Molecular Genetics</i> , 2006 , 15, 1713-21	5.6	110
111	Regulated exocytosis of GABA-containing synaptic-like microvesicles in pancreatic beta-cells. <i>Journal of General Physiology</i> , 2004 , 123, 191-204	3.4	108

110	Increased metabolism in the R6/2 mouse model of Huntington's disease. <i>Neurobiology of Disease</i> , 2008 , 29, 41-51	7.5	105
109	Frataxin deficiency in pancreatic islets causes diabetes due to loss of beta cell mass. <i>Journal of Clinical Investigation</i> , 2003 , 112, 527-34	15.9	103
108	Hormone-sensitive lipase null mice exhibit signs of impaired insulin sensitivity whereas insulin secretion is intact. <i>Journal of Biological Chemistry</i> , 2003 , 278, 36380-8	5.4	97
107	Hormone-sensitive lipase, the rate-limiting enzyme in triglyceride hydrolysis, is expressed and active in beta-cells. <i>Diabetes</i> , 1999 , 48, 228-32	0.9	96
106	Biochemical mechanism of lipid-induced impairment of glucose-stimulated insulin secretion and reversal with a malate analogue. <i>Journal of Biological Chemistry</i> , 2004 , 279, 27263-71	5.4	95
105	Mitochondrial dysfunction in pancreatic beta-cells in Type 2 diabetes. <i>Molecular and Cellular Endocrinology</i> , 2009 , 297, 34-40	4.4	92
104	Calcitonin gene-related peptide and nitric oxide in the trigeminal ganglion: cerebral vasodilatation from trigeminal nerve stimulation involves mainly calcitonin gene-related peptide. <i>Journal of the Autonomic Nervous System</i> , 1998 , 70, 15-22		92
103	Cocaine- and amphetamine-regulated transcript (CART) is expressed in several islet cell types during rat development. <i>Journal of Histochemistry and Cytochemistry</i> , 2004 , 52, 169-77	3.4	86
102	Tight coupling between glucose and mitochondrial metabolism in clonal beta-cells is required for robust insulin secretion. <i>Journal of Biological Chemistry</i> , 2009 , 284, 32395-404	5.4	84
101	Molecular cloning, genomic organization, and expression of a testicular isoform of hormone-sensitive lipase. <i>Genomics</i> , 1996 , 35, 441-7	4.3	80
100	Overexpression of a modified human malonyl-CoA decarboxylase blocks the glucose-induced increase in malonyl-CoA level but has no impact on insulin secretion in INS-1-derived (832/13) beta-cells. <i>Journal of Biological Chemistry</i> , 2001 , 276, 6479-84	5.4	78
99	Pituitary adenylate cyclase activating polypeptide (PACAP) in the gastrointestinal tract of the rat: distribution and effects of capsaicin or denervation. <i>Cell and Tissue Research</i> , 1998 , 291, 65-79	4.2	72
98	Regulation of core clock genes in human islets. <i>Metabolism: Clinical and Experimental</i> , 2012 , 61, 978-85	12.7	69
97	Islet amyloid polypeptide gene expression in the endocrine pancreas of the rat: a combined in situ hybridization and immunocytochemical study. <i>Cell and Tissue Research</i> , 1993 , 274, 467-74	4.2	69
96	Pituitary adenylate cyclase-activating peptide is upregulated in sensory neurons by inflammation. <i>NeuroReport</i> , 1998 , 9, 2833-6	1.7	67
95	A common variant in TFB1M is associated with reduced insulin secretion and increased future risk of type 2 diabetes. <i>Cell Metabolism</i> , 2011 , 13, 80-91	24.6	64
94	Development and optimization of a metabolomic method for analysis of adherent cell cultures. <i>Analytical Biochemistry</i> , 2010 , 404, 30-9	3.1	61
93	NOS-containing neurons in the rat gut and coeliac ganglia. <i>Neuropharmacology</i> , 1994 , 33, 1323-31	5.5	61

92	Time-resolved metabolomics analysis of β cells implicates the pentose phosphate pathway in the control of insulin release. <i>Biochemical Journal</i> , 2013 , 450, 595-605	3.8	58
91	Diabetes in Friedreich ataxia. <i>Journal of Neurochemistry</i> , 2013 , 126 Suppl 1, 94-102	6	57
90	Gastric bypass improves β cell function and increases β cell mass in a porcine model. <i>Diabetes</i> , 2014 , 63, 1665-71	0.9	56
89	Inhibition of lipase activity and lipolysis in rat islets reduces insulin secretion. <i>Diabetes</i> , 2004 , 53, 122-8	0.9	56
88	Islet amyloid polypeptide in the islets of Langerhans: friend or foe?. <i>Diabetologia</i> , 2000 , 43, 687-95	10.3	55
87	Reduction of GnRH and infertility in the R6/2 mouse model of Huntington's disease. <i>European Journal of Neuroscience</i> , 2005 , 22, 1541-6	3.5	54
86	CART regulates islet hormone secretion and is expressed in the beta-cells of type 2 diabetic rats. <i>Diabetes</i> , 2006 , 55, 305-11	0.9	53
85	HDAC7 is overexpressed in human diabetic islets and impairs insulin secretion in rat islets and clonal beta cells. <i>Diabetologia</i> , 2017 , 60, 116-125	10.3	50
84	Genotype-based treatment of type 2 diabetes with an α A-adrenergic receptor antagonist. <i>Science Translational Medicine</i> , 2014 , 6, 257ra139	17.5	50
83	Coordinate changes in histone modifications, mRNA levels, and metabolite profiles in clonal INS-1 832/13 β cells accompany functional adaptations to lipotoxicity. <i>Journal of Biological Chemistry</i> , 2013 , 288, 11973-87	5.4	50
82	Enhanced mitochondrial metabolism may account for the adaptation to insulin resistance in islets from C57BL/6J mice fed a high-fat diet. <i>Diabetologia</i> , 2007 , 50, 74-83	10.3	50
81	Effect of murine strain on metabolic pathways of glucose production after brief or prolonged fasting. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2005 , 289, E53-61	6	50
80	Islet amyloid polypeptide is expressed in endocrine cells of the gastric mucosa in the rat and mouse. <i>Gastroenterology</i> , 1994 , 107, 712-9	13.3	50
79	Islet amyloid polypeptide in the gut and pancreas: localization, ontogeny and gut motility effects. <i>Peptides</i> , 1997 , 18, 771-83	3.8	49
78	Anaplerosis via pyruvate carboxylase is required for the fuel-induced rise in the ATP:ADP ratio in rat pancreatic islets. <i>Diabetologia</i> , 2006 , 49, 1578-86	10.3	49
77	Characterization of stimulus-secretion coupling in the human pancreatic EndoC- β 1 beta cell line. <i>PLoS ONE</i> , 2015 , 10, e0120879	3.7	47
76	The pathogenetic role of β cell mitochondria in type 2 diabetes. <i>Journal of Endocrinology</i> , 2018 , 236, R145-R159	4.7	46
75	Beta-cell-targeted overexpression of phosphodiesterase 3B in mice causes impaired insulin secretion, glucose intolerance, and deranged islet morphology. <i>Journal of Biological Chemistry</i> , 2004 , 279, 15214-22	5.4	46

74	Protein kinase B is expressed in pancreatic beta cells and activated upon stimulation with insulin-like growth factor I. <i>Biochemical and Biophysical Research Communications</i> , 1998 , 250, 181-6	3.4	46
73	Metabolomic and proteomic analysis of a clonal insulin-producing beta-cell line (INS-1 832/13). <i>Journal of Proteome Research</i> , 2008 , 7, 400-11	5.6	45
72	Elevated miR-130a/miR130b/miR-152 expression reduces intracellular ATP levels in the pancreatic beta cell. <i>Scientific Reports</i> , 2017 , 7, 44986	4.9	43
71	Reduced nociceptive behavior in islet amyloid polypeptide (amylin) knockout mice. <i>Molecular Brain Research</i> , 1998 , 63, 180-3		43
70	The effects of high glucose exposure on global gene expression and DNA methylation in human pancreatic islets. <i>Molecular and Cellular Endocrinology</i> , 2018 , 472, 57-67	4.4	42
69	Distribution of melatonin receptors in murine pancreatic islets. <i>Journal of Pineal Research</i> , 2011 , 50, 412-4	7.4	39
68	Metabolomic analysis of a human oral glucose tolerance test reveals fatty acids as reliable indicators of regulated metabolism. <i>Metabolomics</i> , 2010 , 6, 56-66	4.7	39
67	Pituitary adenylate cyclase activating polypeptide is expressed in autonomic neurons. <i>Regulatory Peptides</i> , 1995 , 59, 121-8		39
66	Adrenomedullin: localization in the gastrointestinal tract and effects on insulin secretion. <i>Regulatory Peptides</i> , 1996 , 62, 107-12		39
65	Transcribing Ecell mitochondria in health and disease. <i>Molecular Metabolism</i> , 2017 , 6, 1040-1051	8.8	38
64	Mutant huntingtin interacts with {beta}-tubulin and disrupts vesicular transport and insulin secretion. <i>Human Molecular Genetics</i> , 2009 , 18, 3942-54	5.6	38
63	Loss of TFB1M results in mitochondrial dysfunction that leads to impaired insulin secretion and diabetes. <i>Human Molecular Genetics</i> , 2014 , 23, 5733-49	5.6	37
62	A beta cell-specific knockout of hormone-sensitive lipase in mice results in hyperglycaemia and disruption of exocytosis. <i>Diabetologia</i> , 2009 , 52, 271-80	10.3	37
61	Islet perturbations in rats fed a high-fat diet. <i>Pancreas</i> , 1999 , 18, 75-83	2.6	37
60	Metabolomic analyses reveal profound differences in glycolytic and tricarboxylic acid cycle metabolism in glucose-responsive and -unresponsive clonal Ecell lines. <i>Biochemical Journal</i> , 2011 , 435, 277-84	3.8	35
59	Vasoactive intestinal peptide expression in enteric neurons is upregulated by both colchicine and axotomy.. <i>Regulatory Peptides</i> , 1996 , 63, 113-121		35
58	Fumarate Hydratase Deletion in Pancreatic ECells Leads to Progressive Diabetes. <i>Cell Reports</i> , 2017 , 20, 3135-3148	10.6	34
57	Metabolite profiling reveals normal metabolic control in carriers of mutations in the glucokinase gene (MODY2). <i>Diabetes</i> , 2013 , 62, 653-61	0.9	34

56	Effects of ingestion routes on hormonal and metabolic profiles in gastric-bypassed humans. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2013 , 98, E856-61	5.6	33
55	CaV1.2 rather than CaV1.3 is coupled to glucose-stimulated insulin secretion in INS-1 832/13 cells. <i>Journal of Molecular Endocrinology</i> , 2008 , 41, 1-11	4.5	33
54	Procolipase is produced in the rat stomach--a novel source of enterostatin. <i>Lipids and Lipid Metabolism</i> , 1996 , 1301, 207-12		33
53	Dysregulation of Glucagon Secretion by Hyperglycemia-Induced Sodium-Dependent Reduction of ATP Production. <i>Cell Metabolism</i> , 2019 , 29, 430-442.e4	24.6	33
52	Differential expression of islet amyloid polypeptide (amylin) and insulin in experimental diabetes in rodents. <i>Molecular and Cellular Endocrinology</i> , 1995 , 114, 101-9	4.4	32
51	Use of RNA interference to investigate cytokine signal transduction in pancreatic beta cells. <i>Methods in Molecular Biology</i> , 2012 , 820, 179-94	1.4	32
50	Chronic high glucose and pyruvate levels differentially affect mitochondrial bioenergetics and fuel-stimulated insulin secretion from clonal INS-1 832/13 cells. <i>Journal of Biological Chemistry</i> , 2014 , 289, 3786-98	5.4	31
49	Plasma membrane potential oscillations in insulin secreting Ins-1 832/13 cells do not require glycolysis and are not initiated by fluctuations in mitochondrial bioenergetics. <i>Journal of Biological Chemistry</i> , 2012 , 287, 15706-17	5.4	29
48	Islet amyloid polypeptide and calcitonin gene-related peptide expression are upregulated in lumbar dorsal root ganglia after unilateral adjuvant-induced inflammation in the rat paw. <i>Molecular Brain Research</i> , 1997 , 50, 127-35		29
47	Cerebrospinal fluid levels of orexin-A are not a clinically useful biomarker for Huntington disease. <i>Clinical Genetics</i> , 2006 , 70, 78-9	4	29
46	Hormone-sensitive lipase deficiency in mouse islets abolishes neutral cholesterol ester hydrolase activity but leaves lipolysis, acylglycerides, fat oxidation, and insulin secretion intact. <i>Endocrinology</i> , 2004 , 145, 3746-53	4.8	29
45	Glucagon-like peptide 1 stimulates insulin secretion via inhibiting RhoA/ROCK signaling and disassembling glucotoxicity-induced stress fibers. <i>Endocrinology</i> , 2014 , 155, 4676-85	4.8	28
44	Rat insulin promoter 2-Cre recombinase mice bred onto a pure C57BL/6J background exhibit unaltered glucose tolerance. <i>Journal of Endocrinology</i> , 2007 , 194, 551-5	4.7	28
43	Localization of hormone-sensitive lipase to rat Sertoli cells and its expression in developing and degenerating testes. <i>FEBS Letters</i> , 1994 , 355, 125-30	3.8	28
42	Metabolite profile deviations in an oral glucose tolerance test-a comparison between lean and obese individuals. <i>Obesity</i> , 2014 , 22, 2388-95	8	27
41	Islet amyloid polypeptide (amylin)-deficient mice develop a more severe form of alloxan-induced diabetes. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2000 , 278, E684-E691	6	27
40	Pituitary adenylate cyclase-activating polypeptide and islet amyloid polypeptide in primary sensory neurons: functional implications from plasticity in expression on nerve injury and inflammation. <i>Molecular Neurobiology</i> , 1999 , 19, 229-53	6.2	27
39	Mitochondrial transcription factor B2 is essential for mitochondrial and cellular function in pancreatic β cells. <i>Molecular Metabolism</i> , 2017 , 6, 651-663	8.8	26

38	NNT reverse mode of operation mediates glucose control of mitochondrial NADPH and glutathione redox state in mouse pancreatic β cells. <i>Molecular Metabolism</i> , 2017 , 6, 535-547	8.8	26
37	Effects of growth hormone on the function of beta-adrenoceptor subtypes in rat adipocytes. <i>Obesity</i> , 2004 , 12, 330-9		24
36	Pyruvate dehydrogenase kinase 1 controls mitochondrial metabolism and insulin secretion in INS-1 832/13 clonal beta-cells. <i>Biochemical Journal</i> , 2010 , 429, 205-13	3.8	23
35	Islet beta-cell area and hormone expression are unaltered in Huntington's disease. <i>Histochemistry and Cell Biology</i> , 2008 , 129, 623-9	2.4	23
34	Cartilage oligomeric matrix protein promotes prostate cancer progression by enhancing invasion and disrupting intracellular calcium homeostasis. <i>Oncotarget</i> , 2017 , 8, 98298-98311	3.3	23
33	Season-dependent associations of circadian rhythm-regulating loci (CRY1, CRY2 and MTNR1B) and glucose homeostasis: the GLACIER Study. <i>Diabetologia</i> , 2015 , 58, 997-1005	10.3	21
32	Development of a gas chromatography/mass spectrometry based metabolomics protocol by means of statistical experimental design. <i>Metabolomics</i> , 2012 , 8, 50-63	4.7	21
31	Amino Acid Signatures to Evaluate the Beneficial Effects of Weight Loss. <i>International Journal of Endocrinology</i> , 2017 , 2017, 6490473	2.7	21
30	Islet amyloid polypeptide and calcitonin gene-related peptide expression are down-regulated in dorsal root ganglia upon sciatic nerve transection. <i>Molecular Brain Research</i> , 1997 , 47, 322-30		20
29	Expression of non-classical islet hormone-like peptides during the embryonic development of the pancreas. <i>Microscopy Research and Technique</i> , 1998 , 43, 313-21	2.8	20
28	Differential changes in islet amyloid polypeptide (amylin) and insulin mRNA expression after high-fat diet-induced insulin resistance in C57BL/6J mice. <i>Metabolism: Clinical and Experimental</i> , 2000 , 49, 1518-22	12.7	19
27	Precise expression of Fis1 is important for glucose responsiveness of beta cells. <i>Journal of Endocrinology</i> , 2016 , 230, 81-91	4.7	19
26	Bioenergetic Impairment in Congenital Muscular Dystrophy Type 1A and Leigh Syndrome Muscle Cells. <i>Scientific Reports</i> , 2017 , 7, 45272	4.9	18
25	Cocaine- and amphetamine-regulated transcript is increased in Huntington disease. <i>Movement Disorders</i> , 2007 , 22, 1952-4	7	18
24	Enhanced cAMP protein kinase A signaling determines improved insulin secretion in a clonal insulin-producing beta-cell line (INS-1 832/13). <i>Molecular Endocrinology</i> , 2004 , 18, 2312-20		18
23	Glutamine-Elicited Secretion of Glucagon-Like Peptide 1 Is Governed by an Activated Glutamate Dehydrogenase. <i>Diabetes</i> , 2018 , 67, 372-384	0.9	17
22	Lipases in the pancreatic beta-cell: implications for insulin secretion. <i>Biochemical Society Transactions</i> , 2008 , 36, 885-90	5.1	16
21	Unique and Shared Metabolic Regulation in Clonal β Cells and Primary Islets Derived From Rat Revealed by Metabolomics Analysis. <i>Endocrinology</i> , 2015 , 156, 1995-2005	4.8	13

20	The GTPase domain of gamma-tubulin is required for normal mitochondrial function and spatial organization. <i>Communications Biology</i> , 2018 , 1, 37	6.7	12
19	Inhibition of the malate-aspartate shuttle in mouse pancreatic islets abolishes glucagon secretion without affecting insulin secretion. <i>Biochemical Journal</i> , 2015 , 468, 49-63	3.8	10
18	Is shortening of telomeres the missing link between aging and the Type 2 Diabetes epidemic?. <i>Aging</i> , 2010 , 2, 634-6	5.6	10
17	Calcium modulation of exocytosis-linked plasma membrane potential oscillations in INS-1 832/13 cells. <i>Biochemical Journal</i> , 2015 , 471, 111-22	3.8	9
16	Matrix metalloproteinases: keys to healthier blood vessels in diabetes?. <i>Journal of Endocrinology</i> , 2011 , 210, 1-2	4.7	9
15	The transcriptional co-repressor myeloid translocation gene 16 inhibits glycolysis and stimulates mitochondrial respiration. <i>PLoS ONE</i> , 2013 , 8, e68502	3.7	8
14	Glutamate dehydrogenase, insulin secretion, and type 2 diabetes: a new means to protect the pancreatic β cell?. <i>Journal of Endocrinology</i> , 2012 , 212, 239-42	4.7	7
13	Pituitary adenylate cyclase activating polypeptide and nitric oxide synthase are expressed in the rat ciliary ganglion. <i>British Journal of Ophthalmology</i> , 1997 , 81, 223-7	5.5	7
12	Glycogen metabolism in the glucose-sensing and supply-driven β cell. <i>FEBS Letters</i> , 2016 , 590, 4242-4251	3.8	6
11	Discriminative Prediction of A-To-I RNA Editing Events from DNA Sequence. <i>PLoS ONE</i> , 2016 , 11, e0164962	3.7	6
10	Metabolomics Analysis of Nutrient Metabolism in β Cells. <i>Journal of Molecular Biology</i> , 2020 , 432, 1429-1445	4.5	6
9	TIGER: The gene expression regulatory variation landscape of human pancreatic islets. <i>Cell Reports</i> , 2021 , 37, 109807	10.6	5
8	Differential effect of insulin treatment on islet amyloid polypeptide (amylin) and insulin gene expression in streptozotocin-induced diabetes in rats. <i>Journal of Endocrinology</i> , 1997 , 152, 495-501	4.7	4
7	Islet Gene View - a tool to facilitate islet research		4
6	Unaltered pancreatic islet blood perfusion in islet amyloid polypeptide-deficient mice. <i>European Journal of Endocrinology</i> , 2002 , 146, 107-12	6.5	3
5	The MafA-target gene PPP1R1A regulates GLP1R-mediated amplification of glucose-stimulated insulin secretion in β cells. <i>Metabolism: Clinical and Experimental</i> , 2021 , 118, 154734	12.7	2
4	Ribosomal biogenesis regulator DIMT1 controls β cell protein synthesis, mitochondrial function, and insulin secretion.. <i>Journal of Biological Chemistry</i> , 2022 , 101692	5.4	1
3	Applications of In Situ Hybridization and Immunocytochemistry for Localization and Quantification of Peptide Gene Expression I A Lesson From Islet Amyloid Polypeptide 1996 , 115-137		

2 Islet Amyloid Polypeptide and Adrenomedullin **1999**, 515-549

1 Blockade of muscarinic transmission increases the frequency of diabetes after low-dose alloxan challenge in the mouse. *Diabetologia*, **1996**, 39, 383-390

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