Nils Wierup

List of Publications by Year
in descending order

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89 papers	5,084 citations	101543 36 h-index	91884 69 g-index
90 all docs	90 docs citations	90 times ranked	8294 citing authors

#	Article	IF	Citations
1	Common variant in MTNR1B associated with increased risk of type 2 diabetes and impaired early insulin secretion. Nature Genetics, 2009, 41, 82-88.	21.4	642
2	Impact of an Exercise Intervention on DNA Methylation in Skeletal Muscle From First-Degree Relatives of Patients With Type 2 Diabetes. Diabetes, 2012, 61, 3322-3332.	0.6	334
3	A Major Lineage of Enteroendocrine Cells Coexpress CCK, Secretin, GIP, GLP-1, PYY, and Neurotensin but Not Somatostatin. Endocrinology, 2012, 153, 5782-5795.	2.8	269
4	Orexin loss in Huntington's disease. Human Molecular Genetics, 2005, 14, 39-47.	2.9	246
5	Sulforaphane reduces hepatic glucose production and improves glucose control in patients with type 2 diabetes. Science Translational Medicine, 2017, 9, .	12.4	240
6	Increased Melatonin Signaling Is a Risk Factor for Type 2 Diabetes. Cell Metabolism, 2016, 23, 1067-1077.	16.2	194
7	TCF7L2 is a master regulator of insulin production and processing. Human Molecular Genetics, 2014, 23, 6419-6431.	2.9	166
8	A Central Role for GRB10 in Regulation of Islet Function in Man. PLoS Genetics, 2014, 10, e1004235.	3.5	164
9	Capsaicin-sensitive sensory fibers in the islets of Langerhans contribute to defective insulin secretion in Zucker diabetic rat, an animal model for some aspects of human typeâ€ƒ2 diabetes. European Journal of Neuroscience, 2007, 25, 213-223.	2.6	144
10	The R6/2 transgenic mouse model of Huntington's disease develops diabetes due to deficient Î²-cell mass and exocytosis. Human Molecular Genetics, 2005, 14, 565-574.	2.9	129
11	Increased metabolism in the R6/2 mouse model of Huntingtonâ€™s disease. Neurobiology of Disease, 2008, 29, 41-51.	4.4	114
12	Gastrointestinal dysfunction contributes to weight loss in Huntington's disease mice. Neurobiology of Disease, 2011, 44, 1-8.	4.4	88
13	The islet ghrelin cell. Journal of Molecular Endocrinology, 2014, 52, R35-R49.	2.5	85
14	Ghrelin and Motilin Are Cosecreted from a Prominent Endocrine Cell Population in the Small Intestine. Journal of Clinical Endocrinology and Metabolism, 2007, 92, 3573-3581.	3.6	83
15	Pleiotropic Effects of GIP on Islet Function Involve Osteopontin. Diabetes, 2011, 60, 2424-2433.	0.6	83
16	Increased Î²-cell volume in mice fed a high-fat diet: A dynamic study over 12 months. Islets, 2010, 2, 353-356.	1.8	76
17	Link Between GIP and Osteopontin in Adipose Tissue and Insulin Resistance. Diabetes, 2013, 62, 2088-2094.	0.6	75
18	Loss-of-Function Mutation of the Galanin Gene Is Associated with Perturbed Islet Function in Mice. Endocrinology, 2004, 145, 3190-3196.	2.8	70

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19	Nesfatin-1 stimulates glucagon and insulin secretion and beta cell NUCB2 is reduced in human type 2 diabetic subjects. Cell and Tissue Research, 2011, 346, 393-405.	2.9	68
20	Gastric Bypass Improves Î²-Cell Function and Increases Î²-Cell Mass in a Porcine Model. Diabetes, 2014, 63, 1665-1671.	0.6	67
21	Apelin is a novel islet peptide. Regulatory Peptides, 2010, 162, 44-51.	1.9	64
22	Serotonin (5-HT) receptor 2b activation augments glucose-stimulated insulin secretion in human and mouse islets of Langerhans. Diabetologia, 2016, 59, 744-754.	6.3	64
23	CART Regulates Islet Hormone Secretion and Is Expressed in the Î²-Cells of Type 2 Diabetic Rats. Diabetes, 2006, 55, 305-311.	0.6	63
24	No direct effect of SGLT2 activity on glucagon secretion. Diabetologia, 2019, 62, 1011-1023.	6.3	58
25	Characterisation of CART-containing neurons and cells in the porcine pancreas, gastro-intestinal tract, adrenal and thyroid glands. BMC Neuroscience, 2007, 8, 51.	1.9	57
26	Mucosal glucagon-like peptide-1 and glucose-dependent insulinotropic polypeptide cell numbers in the super-obese human foregut after gastric bypass. Surgery for Obesity and Related Diseases, 2015, 11, 1237-1246.	1.2	53
27	Î²-Cell-targeted Overexpression of Phosphodiesterase 3B in Mice Causes Impaired Insulin Secretion, Glucose Intolerance, and Deranged Islet Morphology. Journal of Biological Chemistry, 2004, 279, 15214-15222.	3.4	51
28	Loss of TFB1M results in mitochondrial dysfunction that leads to impaired insulin secretion and diabetes. Human Molecular Genetics, 2014, 23, 5733-5749.	2.9	51
29	Distribution of melatonin receptors in murine pancreatic islets. Journal of Pineal Research, 2011, 50, 412-417.	7.4	49
30	CFTR is involved in the regulation of glucagon secretion in human and rodent alpha cells. Scientific Reports, 2017, 7, 90.	3.3	48
31	Ultrastructure of islet ghrelin cells in the human fetus. Cell and Tissue Research, 2005, 319, 423-428.	2.9	47
32	CART is a novel islet regulatory peptide. Peptides, 2006, 27, 2031-2036.	2.4	47
33	Expression profiling of cell cycle genes in human pancreatic islets with and without type 2 diabetes. Molecular and Cellular Endocrinology, 2013, 375, 35-42.	3.2	47
34	Genetic determinants of circulating GIP and GLP-1 concentrations. JCI Insight, 2017, 2, .	5.0	46
35	DPP-4 inhibition improves glucose tolerance and increases insulin and GLP-1 responses to gastric glucose in association with normalized islet topography in mice with Î²-cell-specific overexpression of human islet amyloid polypeptide. Regulatory Peptides, 2007, 143, 97-103.	1.9	38
36	Mitochondrial transcription factor B2 is essential for mitochondrial and cellular function in pancreatic Î²-cells. Molecular Metabolism, 2017, 6, 651-663.	6.5	37

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37	Covariation of plasma ghrelin and motilin in irritable bowel syndrome. Peptides, 2010, 31, 1109-1112.	2.4	36
38	Effects of Ingestion Routes on Hormonal and Metabolic Profiles in Gastric-Bypassed Humans. Journal of Clinical Endocrinology and Metabolism, 2013, 98, E856-E861.	3.6	34
39	Autoimmunity against INS-IGF2 Protein Expressed in Human Pancreatic Islets*. Journal of Biological Chemistry, 2013, 288, 29013-29023.	3.4	33
40	Phosphodiesterase 3B Is Localized in Caveolae and Smooth ER in Mouse Hepatocytes and Is Important in the Regulation of Glucose and Lipid Metabolism. PLoS ONE, 2009, 4, e4671.	2.5	31
41	Cocaine- and Amphetamine-regulated Transcript (CART) Protects Beta Cells against Glucotoxicity and Increases Cell Proliferation. Journal of Biological Chemistry, 2013, 288, 3208-3218.	3.4	30
42	Rat insulin promoter 2-Cre recombinase mice bred onto a pure C57BL/6J background exhibit unaltered glucose tolerance. Journal of Endocrinology, 2007, 194, 551-555.	2.6	28
43	Biomechanical properties and innervation of the female caveolinâ€1â€deficient detrusor. British Journal of Pharmacology, 2011, 162, 1156-1170.	5.4	27
44	Early and rapid development of insulin resistance, islet dysfunction and glucose intolerance after high-fat feeding in mice overexpressing phosphodiesterase 3B. Journal of Endocrinology, 2006, 189, 629-641.	2.6	26
45	Cocaine- and amphetamine-regulated transcript is expressed in adipocytes and regulate lipid- and glucose homeostasis. Regulatory Peptides, 2013, 182, 35-40.	1.9	26
46	Î²-cell PDE3B regulates Ca2+-stimulated exocytosis of insulin. Cellular Signalling, 2007, 19, 1505-1513.	3.6	25
47	Metabolic effects of whole grain wheat and whole grain rye in the C57BL/6J mouse. Nutrition, 2010, 26, 230-239.	2.4	25
48	Ghrelin suppresses insulin secretion in human islets and type 2 diabetes patients have diminished islet ghrelin cell number and lower plasma ghrelin levels. Molecular and Cellular Endocrinology, 2020, 511, 110835.	3.2	25
49	Islet Î²-cell area and hormone expression are unaltered in Huntingtonâ€™s disease. Histochemistry and Cell Biology, 2008, 129, 623-629.	1.7	24
50	CART is overexpressed in human type 2 diabetic islets and inhibits glucagon secretion and increases insulin secretion. Diabetologia, 2016, 59, 1928-1937.	6.3	24
51	Metabolic Effects of Gastric Bypass Surgery: Is It All About Calories?. Diabetes, 2020, 69, 2027-2035.	0.6	24
52	Inflammatory Response in White Adipose Tissue in the Non-Obese Hormone-Sensitive Lipase Null Mouse Model. Journal of Proteome Research, 2006, 5, 1701-1710.	3.7	23
53	Long-Term Nicotine Exposure Causes Increased Concentrations of Trypsinogens and Amylase in Pancreatic Extracts in the Rat. Pancreas, 2008, 37, 288-294.	1.1	22
54	Effects of meal and incretins in the regulation of splanchnic blood flow. Endocrine Connections, 2017, 6, 179-187.	1.9	21

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55	The density of parasympathetic axons is reduced in the exocrine pancreas of individuals recently diagnosed with type 1 diabetes. PLoS ONE, 2017, 12, e0179911.	2.5	21
56	Gastric ghrelin cell development is hampered and plasma ghrelin is reduced by delayed weaning in rats. Journal of Endocrinology, 2007, 192, 345-352.	2.6	20
57	First Report on Metastasizing Small Bowel Carcinoids in First-Degree Relatives in Three Generations. Neuroendocrinology, 2010, 91, 318-323.	2.5	20
58	HTR1A a Novel Type 1 Diabetes Susceptibility Gene on Chromosome 5p13-q13. PLoS ONE, 2012, 7, e35439.	2.5	20
59	Roux-en-Y gastric bypass versus calorie restriction: support for surgery per se as the direct contributor to altered responses of insulin and incretins to a mixed meal. Surgery for Obesity and Related Diseases, 2017, 13, 234-242.	1.2	20
60	Glutamine-Elicited Secretion of Glucagon-Like Peptide 1 Is Governed by an Activated Glutamate Dehydrogenase. Diabetes, 2018, 67, 372-384.	0.6	20
61	Î²-Cell Specific Overexpression of GPR39 Protects against Streptozotocin-Induced Hyperglycemia. International Journal of Endocrinology, 2011, 2011, 1-8.	1.5	19
62	Expression of Cocaine- and Amphetamine-Regulated Transcript Is Associated with Worse Survival in Small Bowel Carcinoid Tumors. Clinical Cancer Research, 2012, 18, 3668-3676.	7.0	19
63	Cocaine- and Amphetamine-Regulated Transcript in Neuroendocrine Tumors. Neuroendocrinology, 2011, 94, 228-236.	2.5	18
64	Decreased insulin secretion and glucose clearance in exocrine pancreasâ€insufficient pigs. Experimental Physiology, 2016, 101, 100-112.	2.0	18
65	Ghrelin rescues skeletal muscle catabolic profile in the R6/2 mouse model of Huntingtonâ€™s disease. Scientific Reports, 2017, 7, 13896.	3.3	17
66	Lessons from single-cell RNA sequencing of human islets. Diabetologia, 2022, 65, 1241-1250.	6.3	17
67	Ghrelin Is a Regulator of Glucagon-Like Peptide 1 Secretion and Transcription in Mice. Frontiers in Endocrinology, 2017, 8, 135.	3.5	16
68	Reduced Ghrelin, Islet Amyloid Polypeptide, and Peptide YY Expression in the Stomach of Gastrin-Cholecystokinin Knockout Mice. Endocrinology, 2005, 146, 4464-4471.	2.8	15
69	Lack of cholesterol mobilization in islets of hormone-sensitive lipase deficient mice impairs insulin secretion. Biochemical and Biophysical Research Communications, 2008, 376, 558-562.	2.1	15
70	HMGB1 binds to the rs7903146 locus in TCF7L2 in human pancreatic islets. Molecular and Cellular Endocrinology, 2016, 430, 138-145.	3.2	14
71	Experiments suggesting extra-digestive effects of enteral pancreatic amylase and its peptides on glucose homeostasis in a pig model. Scientific Reports, 2017, 7, 8628.	3.3	14
72	Bariatric Surgery Enhances Splanchnic Vascular Responses in Patients With Type 2 Diabetes. Diabetes, 2017, 66, 880-885.	0.6	13

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73	Gastric bypass in the pig increases GIP levels and decreases active GLP-1 levels. Peptides, 2017, 90, 78-82.	2.4	13
74	Endogenous beta-cell CART regulates insulin secretion and transcription of beta-cell genes. Molecular and Cellular Endocrinology, 2017, 447, 52-60.	3.2	12
75	Liver blood dynamics after bariatric surgery: the effects of mixed-meal test and incretin infusions. Endocrine Connections, 2018, 7, 888-896.	1.9	12
76	Early deficits in insulin secretion, beta cell mass and islet blood perfusion precede onset of autoimmune type 1 diabetes in BioBreeding rats. Diabetologia, 2018, 61, 896-905.	6.3	10
77	The impact of Roux-en-Y gastric bypass surgery on normal metabolism in a porcine model. PLoS ONE, 2017, 12, e0173137.	2.5	10
78	Short- and Long-Term Hormonal and Metabolic Consequences of Reversing Gastric Bypass to Normal Anatomy in a Type 2 Diabetes Patient. Obesity Surgery, 2015, 25, 180-185.	2.1	8
79	Evidence for Presence and Functional Effects of Kv1.1 Channels in Î²-Cells: General Survey and Results from mceph/mceph Mice. PLoS ONE, 2011, 6, e18213.	2.5	7
80	Malignant presacral ghrelinoma with long-standing hyperghrelinaemia. Upsala Journal of Medical Sciences, 2015, 120, 299-304.	0.9	7
81	Intestinal CART is a regulator of GIP and GLP-1 secretion and expression. Molecular and Cellular Endocrinology, 2018, 476, 8-16.	3.2	7
82	GK-rats respond to gastric bypass surgery with improved glycemia despite unaffected insulin secretion and beta cell mass. Peptides, 2021, 136, 170445.	2.4	6
83	Antral G-cell in gastrin and gastrin-cholecystokinin knockout animals. Cell and Tissue Research, 2005, 321, 141-146.	2.9	5
84	Nuclear import of glucokinase in pancreatic beta-cells is mediated by a nuclear localization signal and modulated by SUMOylation. Molecular and Cellular Endocrinology, 2017, 454, 146-157.	3.2	5
85	Effects of GIP on regional blood flow during normoglycemia and hyperglycemia in anesthetized rats. Physiological Reports, 2018, 6, e13685.	1.7	5
86	Overexpressed beta cell CART increases insulin secretion in mouse models of insulin resistance and diabetes. Peptides, 2022, 151, 170747.	2.4	5
87	SCRT1 is a novel beta cell transcription factor with insulin regulatory properties. Molecular and Cellular Endocrinology, 2021, 521, 111107.	3.2	4
88	The role of CART in islet biology. Peptides, 2022, 149, 170708.	2.4	3
89	Glucose-dependent insulinotropic polypeptide lowers branched chain amino acids in hyperglycemic rats. Regulatory Peptides, 2014, 189, 11-16.	1.9	0