

# Bernard Thorens

## List of Publications by Year in descending order

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Version: 2024-02-01

102  
papers

10,103  
citations

50566

48  
h-index

46524

93  
g-index

106  
all docs

106  
docs citations

106  
times ranked

13262  
citing authors

#	ARTICLE	IF	CITATIONS
1	Neuronal regulation of glucagon secretion and gluconeogenesis. <i>Journal of Diabetes Investigation</i> , 2022, 13, 599-607.	1.1	7
2	Hypothalamic Irak4 is a genetically controlled regulator of hypoglycemia-induced glucagon secretion. <i>Molecular Metabolism</i> , 2022, 61, 101479.	3.0	6
3	Opposite physiological and pathological mTORC1-mediated roles of the CB1 receptor in regulating renal tubular function. <i>Nature Communications</i> , 2022, 13, 1783.	5.8	12
4	Homocysteine Metabolism Pathway Is Involved in the Control of Glucose Homeostasis: A Cystathionine Beta Synthase Deficiency Study in Mouse. <i>Cells</i> , 2022, 11, 1737.	1.8	5
5	Cold-induced dishabituation in rodents exposed to recurrent hypoglycaemia. <i>Diabetologia</i> , 2021, 64, 1436-1441.	2.9	4
6	Fgf15 Neurons of the Dorsomedial Hypothalamus Control Glucagon Secretion and Hepatic Gluconeogenesis. <i>Diabetes</i> , 2021, 70, 1443-1457.	0.3	15
7	Replication and cross-validation of type 2 diabetes subtypes based on clinical variables: an IMI-RHAPSODY study. <i>Diabetologia</i> , 2021, 64, 1982-1989.	2.9	44
8	Multi-omics profiling of living human pancreatic islet donors reveals heterogeneous beta cell trajectories towards type 2 diabetes. <i>Nature Metabolism</i> , 2021, 3, 1017-1031.	5.1	76
9	Distinct Molecular Signatures of Clinical Clusters in People With Type 2 Diabetes: An IMI-RHAPSODY Study. <i>Diabetes</i> , 2021, 70, 2683-2693.	0.3	26
10	Détection ciblée du glucose et homéostasie du glucose. <i>Medecine Des Maladies Metaboliques</i> , 2021, 15, 518-525.	0.1	0
11	Mike Mueckler (1953–2021): the father of the mammalian SLC2 glucose transporter family. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2021, 321, E490-E492.	1.8	0
12	Glucokinase neurons of the paraventricular nucleus of the thalamus sense glucose and decrease food consumption. <i>IScience</i> , 2021, 24, 103122.	1.9	11
13	Ablation of glucokinase-expressing tanycytes impacts energy balance and increases adiposity in mice. <i>Molecular Metabolism</i> , 2021, 53, 101311.	3.0	15
14	Plasma triacylglycerols are biomarkers of $\beta^2$ -cell function in mice and humans. <i>Molecular Metabolism</i> , 2021, 54, 101355.	3.0	17
15	Persistent or Transient Human $\beta^2$ Cell Dysfunction Induced by Metabolic Stress: Specific Signatures and Shared Gene Expression with Type 2 Diabetes. <i>Cell Reports</i> , 2020, 33, 108466.	2.9	65
16	Hypoglycemia-Sensing Neurons of the Ventromedial Hypothalamus Require AMPK-Induced Txn2 Expression but Are Dispensable for Physiological Counterregulation. <i>Diabetes</i> , 2020, 69, 2253-2266.	0.3	19
17	Klf6 protects $\beta^2$ -cells against insulin resistance-induced dedifferentiation. <i>Molecular Metabolism</i> , 2020, 35, 100958.	3.0	12
18	A genetic screen identifies Crat as a regulator of pancreatic beta-cell insulin secretion. <i>Molecular Metabolism</i> , 2020, 37, 100993.	3.0	4

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19	EphrinB1 modulates glutamatergic inputs into POMC-expressing progenitors and controls glucose homeostasis. <i>PLoS Biology</i> , 2020, 18, e3000680.	2.6	8
20	Title is missing!. , 2020, 18, e3000680.		0
21	Title is missing!. , 2020, 18, e3000680.		0
22	Title is missing!. , 2020, 18, e3000680.		0
23	Title is missing!. , 2020, 18, e3000680.		0
24	Title is missing!. , 2020, 18, e3000680.		0
25	Title is missing!. , 2020, 18, e3000680.		0
26	Use of preclinical models to identify markers of type 2 diabetes susceptibility and novel regulators of insulin secretion – A step towards precision medicine. <i>Molecular Metabolism</i> , 2019, 27, S147-S154.	3.0	11
27	Laser capture microdissection of human pancreatic islets reveals novel eQTLs associated with type 2 diabetes. <i>Molecular Metabolism</i> , 2019, 24, 98-107.	3.0	26
28	Targeting the Brain to Cure Type 2 Diabetes. <i>Diabetes</i> , 2019, 68, 476-478.	0.3	1
29	Glucose transporter 2 mediates the hypoglycemia-induced increase in cerebral blood flow. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019, 39, 1725-1736.	2.4	5
30	Î±-cell glucokinase suppresses glucose-regulated glucagon secretion. <i>Nature Communications</i> , 2018, 9, 546.	5.8	72
31	Systems biology of the IMIDIA biobank from organ donors and pancreatectomised patients defines a novel transcriptomic signature of islets from individuals with type 2 diabetes. <i>Diabetologia</i> , 2018, 61, 641-657.	2.9	131
32	GLUT2-Expressing Neurons as Glucose Sensors in the Brain: Electrophysiological Analysis. <i>Methods in Molecular Biology</i> , 2018, 1713, 255-267.	0.4	6
33	Protective role of the ELOVL2/docosahexaenoic acid axis in glucolipotoxicity-induced apoptosis in rodent beta cells and human islets. <i>Diabetologia</i> , 2018, 61, 1780-1793.	2.9	32
34	Postprandial macrophage-derived IL-1Î² stimulates insulin, and both synergistically promote glucose disposal and inflammation. <i>Nature Immunology</i> , 2017, 18, 283-292.	7.0	286
35	Plasma Dihydroceramides Are Diabetes Susceptibility Biomarker Candidates in Mice and Humans. <i>Cell Reports</i> , 2017, 18, 2269-2279.	2.9	168
36	Molecular phenotyping of multiple mouse strains under metabolic challenge uncovers a role for Elovl2 in glucose-induced insulin secretion. <i>Molecular Metabolism</i> , 2017, 6, 340-351.	3.0	42

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37	Alain Ktorza, PhD. Diabetes, Obesity and Metabolism, 2017, 19, 3-3.	2.2	0
38	A Genetic Screen Identifies Hypothalamic Fgf15 as a Regulator of Glucagon Secretion. Cell Reports, 2016, 17, 1795-1806.	2.9	26
39	Sex-Specific Control of Fat Mass and Counterregulation by Hypothalamic Glucokinase. Diabetes, 2016, 65, 2920-2931.	0.3	20
40	Glucose-responsive neurons of the paraventricular thalamus control sucrose-seeking behavior. Nature Neuroscience, 2016, 19, 999-1002.	7.1	108
41	Clic4, a novel protein that sensitizes $\beta$ -cells to apoptosis. Molecular Metabolism, 2015, 4, 253-264.	3.0	20
42	Characterization of pancreatic NMDA receptors as possible drug targets for diabetes treatment. Nature Medicine, 2015, 21, 363-372.	15.2	126
43	Brain glucose sensing in homeostatic and hedonic regulation. Trends in Endocrinology and Metabolism, 2015, 26, 455-466.	3.1	66
44	Autocrine Action of IGF2 Regulates Adult $\beta$ -Cell Mass and Function. Diabetes, 2015, 64, 4148-4157.	0.3	46
45	Ins1 Cre knock-in mice for beta cell-specific gene recombination. Diabetologia, 2015, 58, 558-565.	2.9	182
46	GLUT2, glucose sensing and glucose homeostasis. Diabetologia, 2015, 58, 221-232.	2.9	499
47	Selective disruption of Tcf7l2 in the pancreatic $\beta$ cell impairs secretory function and lowers $\beta$ cell mass. Human Molecular Genetics, 2015, 24, 1390-1399.	1.4	89
48	Gluco-Incretins Regulate Beta-Cell Glucose Competence by Epigenetic Silencing of Fxyd3 Expression. PLoS ONE, 2014, 9, e103277.	1.1	12
49	Glutamine Stimulates Biosynthesis and Secretion of Insulin-like Growth Factor 2 (IGF2), an Autocrine Regulator of Beta Cell Mass and Function. Journal of Biological Chemistry, 2014, 289, 31972-31982.	1.6	31
50	Hypoglycemia-Activated GLUT2 Neurons of the Nucleus Tractus Solitarius Stimulate Vagal Activity and Glucagon Secretion. Cell Metabolism, 2014, 19, 527-538.	7.2	114
51	Nervous glucose sensing regulates postnatal $\beta$ cell proliferation and glucose homeostasis. Journal of Clinical Investigation, 2014, 124, 413-424.	3.9	62
52	The SLC2 (GLUT) family of membrane transporters. Molecular Aspects of Medicine, 2013, 34, 121-138.	2.7	934
53	The role of sodium-coupled glucose co-transporter 3 in the satiety effect of portal glucose sensing. Molecular Metabolism, 2013, 2, 47-53.	3.0	99
54	The Peroxisomal Enzyme L-PBE Is Required to Prevent the Dietary Toxicity of Medium-Chain Fatty Acids. Cell Reports, 2013, 5, 248-258.	2.9	45

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55	Hepatic glucose sensing is required to preserve $\beta^2$ cell glucose competence. <i>Journal of Clinical Investigation</i> , 2013, 123, 1662-1676.	3.9	118
56	MicroRNAs contribute to compensatory $\beta^2$ cell expansion during pregnancy and obesity. <i>Journal of Clinical Investigation</i> , 2012, 122, 3541-3551.	3.9	148
57	Sensing of Glucose in the Brain. <i>Handbook of Experimental Pharmacology</i> , 2012, , 277-294.	0.9	66
58	Plac8 is required for White Adipocyte Differentiation in vitro and Cell Number Control in vivo. <i>PLoS ONE</i> , 2012, 7, e48767.	1.1	28
59	Of Fat, $\beta^2$ Cells, and Diabetes. <i>Cell Metabolism</i> , 2011, 14, 439-440.	7.2	11
60	Oxidative Phosphorylation Flexibility in the Liver of Mice Resistant to High-Fat Diet-Induced Hepatic Steatosis. <i>Diabetes</i> , 2011, 60, 2216-2224.	0.3	30
61	In Vivo Conditional Pax4 Overexpression in Mature Islet $\beta^2$ -Cells Prevents Stress-Induced Hyperglycemia in Mice. <i>Diabetes</i> , 2011, 60, 1705-1715.	0.3	45
62	Peroxisomal and Microsomal Lipid Pathways Associated with Resistance to Hepatic Steatosis and Reduced Pro-inflammatory State. <i>Journal of Biological Chemistry</i> , 2010, 285, 31011-31023.	1.6	63
63	Glut2-dependent glucose-sensing controls thermoregulation by enhancing the leptin sensitivity of NPY and POMC neurons. <i>FASEB Journal</i> , 2010, 24, 1747-1758.	0.2	69
64	Glucagon-like Peptide-1 Increases $\beta^2$ -Cell Glucose Competence and Proliferation by Translational Induction of Insulin-like Growth Factor-1 Receptor Expression. <i>Journal of Biological Chemistry</i> , 2010, 285, 10538-10545.	1.6	77
65	Glucose transporters in the 21st Century. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2010, 298, E141-E145.	1.8	746
66	GLP-1 protects $\beta^2$ -cells against apoptosis by enhancing the activity of an IGF-2/IGF1-receptor autocrine loop. <i>Islets</i> , 2009, 1, 280-282.	0.9	26
67	Glucagon-Like Peptide-1 Protects $\beta^2$ -Cells Against Apoptosis by Increasing the Activity of an IGF-2/Igf-1 Receptor Autocrine Loop. <i>Diabetes</i> , 2009, 58, 1816-1825.	0.3	118
68	Increasing GLP-1-Induced $\beta^2$ -Cell Proliferation by Silencing the Negative Regulators of Signaling cAMP Response Element Modulator-1 and DUSP14. <i>Diabetes</i> , 2008, 57, 584-593.	0.3	79
69	Blocking VLDL secretion causes hepatic steatosis but does not affect peripheral lipid stores or insulin sensitivity in mice. <i>Journal of Lipid Research</i> , 2008, 49, 2038-2044.	2.0	136
70	Different Transcriptional Control of Metabolism and Extracellular Matrix in Visceral and Subcutaneous Fat of Obese and Rimonabant Treated Mice. <i>PLoS ONE</i> , 2008, 3, e3385.	1.1	20
71	Brain Glucose Sensing, Counterregulation, and Energy Homeostasis. <i>Physiology</i> , 2007, 22, 241-251.	1.6	273
72	Development and preclinical assessment of a bioartificial pancreas. <i>Swiss Medical Weekly</i> , 2007, 137 Suppl 155, 68S-71S.	0.8	1

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73	Evidence From Glut2-Null Mice That Glucose Is a Critical Physiological Regulator of Feeding. <i>Diabetes</i> , 2006, 55, 988-995.	0.3	117
74	A missing sugar prevents glucose entry: A new twist on insulin secretion. <i>Cell Metabolism</i> , 2006, 3, 3-5.	7.2	7
75	A Toggle for Type 2 Diabetes?. <i>New England Journal of Medicine</i> , 2006, 354, 1636-1638.	13.9	11
76	Regulation of glucagon secretion by glucose transporter type 2 (glut2) and astrocyte-dependent glucose sensors. <i>Journal of Clinical Investigation</i> , 2005, 115, 3545-3553.	3.9	203
77	Regulated exocytosis of an H <sup>+</sup> /myo-inositol symporter at synapses and growth cones. <i>EMBO Journal</i> , 2004, 23, 531-540.	3.5	60
78	Distribution and anatomical localization of the glucose transporter 2 (GLUT2) in the adult rat brain—an immunohistochemical study. <i>Journal of Chemical Neuroanatomy</i> , 2004, 28, 117-136.	1.0	130
79	Immunocytochemical localization of the glucose transporter 2 (GLUT2) in the adult rat brain. II. Electron microscopic study. <i>Journal of Chemical Neuroanatomy</i> , 2004, 28, 137-146.	1.0	82
80	Gut-derived signaling molecules and vagal afferents in the control of glucose and energy homeostasis. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2004, 7, 471-478.	1.3	65
81	Gluco-incretins control insulin secretion at multiple levels as revealed in mice lacking GLP-1 and GIP receptors. <i>Journal of Clinical Investigation</i> , 2004, 113, 635-645.	3.9	201
82	Gluco-incretins control insulin secretion at multiple levels as revealed in mice lacking GLP-1 and GIP receptors. <i>Journal of Clinical Investigation</i> , 2004, 113, 635-645.	3.9	104
83	A gene knockout approach in mice to identify glucose sensors controlling glucose homeostasis. <i>Pflugers Archiv European Journal of Physiology</i> , 2003, 445, 482-490.	1.3	27
84	The facilitative glucose transporter 2: pathophysiological role in mouse and human. , 2003, , 175-190.		4
85	GLUT4, AMP kinase, but not the insulin receptor, are required for hepatoportal glucose sensor—stimulated muscle glucose utilization. <i>Journal of Clinical Investigation</i> , 2003, 111, 1555-1562.	3.9	50
86	GLUT4, AMP kinase, but not the insulin receptor, are required for hepatoportal glucose sensor—stimulated muscle glucose utilization. <i>Journal of Clinical Investigation</i> , 2003, 111, 1555-1562.	3.9	31
87	Heterogeneous metabolic adaptation of C57BL/6J mice to high-fat diet. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2002, 282, E834-E842.	1.8	246
88	Glucose release from GLUT2-null hepatocytes: characterization of a major and a minor pathway. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2002, 282, E794-E801.	1.8	37
89	GLUT2 is a high affinity glucosamine transporter. <i>FEBS Letters</i> , 2002, 524, 199-203.	1.3	247
90	The extended GLUT-family of sugar/polyol transport facilitators: nomenclature, sequence characteristics, and potential function of its novel members. <i>Molecular Membrane Biology</i> , 2001, 18, 247-256.	2.0	583

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91	GLUT2 in pancreatic and extra-pancreatic gluco-detection. <i>Molecular Membrane Biology</i> , 2001, 18, 265-273.	2.0	96
92	Evidence That Extrapancreatic GLUT2-Dependent Glucose Sensors Control Glucagon Secretion. <i>Diabetes</i> , 2001, 50, 1282-1289.	0.3	68
93	Engineering Tolerance into Transplanted $\beta^2$ Cell Lines. <i>Annals of the New York Academy of Sciences</i> , 2001, 944, 267-270.	1.8	2
94	Transgenic Reexpression of GLUT1 or GLUT2 in Pancreatic $\beta^2$ Cells Rescues GLUT2-null Mice from Early Death and Restores Normal Glucose-stimulated Insulin Secretion. <i>Journal of Biological Chemistry</i> , 2000, 275, 23751-23758.	1.6	170
95	Liver Hyperplasia and Paradoxical Regulation of Glycogen Metabolism and Glucose-sensitive Gene Expression in GLUT2-null Hepatocytes. <i>Journal of Biological Chemistry</i> , 2000, 275, 10930-10936.	1.6	72
96	Encapsulated, Genetically Engineered Cells, Secreting Glucagon-Like Peptide-1 for the Treatment of Non-Insulin-Dependent Diabetes Mellitus. <i>Annals of the New York Academy of Sciences</i> , 1999, 875, 277-285.	1.8	32
97	Dexamethasone Induces Posttranslational Degradation of GLUT2 and Inhibition of Insulin Secretion in Isolated Pancreatic $\beta^2$ Cells. <i>Journal of Biological Chemistry</i> , 1997, 272, 3216-3222.	1.6	131
98	Fatty Acids Decrease IDX-1 Expression in Rat Pancreatic Islets and Reduce GLUT2, Glucokinase, Insulin, and Somatostatin Levels. <i>Journal of Biological Chemistry</i> , 1997, 272, 30261-30269.	1.6	242
99	Inhibition of glucose-induced insulin secretion by long-term preexposure of pancreatic islets to leptin. <i>FEBS Letters</i> , 1997, 415, 179-182.	1.3	44
100	Early diabetes and abnormal postnatal pancreatic islet development in mice lacking Glut-2. <i>Nature Genetics</i> , 1997, 17, 327-330.	9.4	385
101	Expression of the Glucagon-Like Peptide-1 Receptor Gene in Rat Brain. <i>Journal of Neurochemistry</i> , 1996, 66, 920-927.	2.1	160
102	Cloning and functional expression in bacteria of a novel glucose transporter present in liver, intestine, kidney, and $\beta^2$ -pancreatic islet cells. <i>Cell</i> , 1988, 55, 281-290.	13.5	831