

# Kathrin Maedler

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

101 papers	7,428 citations	40 h-index	86 g-index
118 ext. papers	8,190 ext. citations	7.5 avg, IF	5.63 L-index

#	Paper	IF	Citations
101	Glucose-induced $\beta$ cell production of IL-1 $\beta$ contributes to glucotoxicity in human pancreatic islets. <i>Journal of Clinical Investigation</i> , <b>2002</b> , 110, 851-860	15.9	846
100	Monounsaturated fatty acids prevent the deleterious effects of palmitate and high glucose on human pancreatic beta-cell turnover and function. <i>Diabetes</i> , <b>2003</b> , 52, 726-33	0.9	445
99	Distinct effects of saturated and monounsaturated fatty acids on beta-cell turnover and function. <i>Diabetes</i> , <b>2001</b> , 50, 69-76	0.9	443
98	Glucose-induced beta cell production of IL-1 $\beta$ contributes to glucotoxicity in human pancreatic islets. <i>Journal of Clinical Investigation</i> , <b>2002</b> , 110, 851-60	15.9	439
97	Mechanisms of beta-cell death in type 2 diabetes. <i>Diabetes</i> , <b>2005</b> , 54 Suppl 2, S108-13	0.9	339
96	Inflammatory mediators and islet beta-cell failure: a link between type 1 and type 2 diabetes. <i>Journal of Molecular Medicine</i> , <b>2003</b> , 81, 455-70	5.5	330
95	Glucose induces beta-cell apoptosis via upregulation of the Fas receptor in human islets. <i>Diabetes</i> , <b>2001</b> , 50, 1683-90	0.9	301
94	Sulfonylurea induced beta-cell apoptosis in cultured human islets. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2005</b> , 90, 501-6	5.6	267
93	Transcription factor 7-like 2 regulates beta-cell survival and function in human pancreatic islets. <i>Diabetes</i> , <b>2008</b> , 57, 645-53	0.9	221
92	Leptin modulates beta cell expression of IL-1 receptor antagonist and release of IL-1 $\beta$ in human islets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 8138-43	11.5	211
91	Decreased TCF7L2 protein levels in type 2 diabetes mellitus correlate with downregulation of GIP- and GLP-1 receptors and impaired beta-cell function. <i>Human Molecular Genetics</i> , <b>2009</b> , 18, 2388-99	5.6	200
90	Glucose and palmitic acid induce degeneration of myofibrils and modulate apoptosis in rat adult cardiomyocytes. <i>Diabetes</i> , <b>2001</b> , 50, 2105-13	0.9	169
89	CXCL10 impairs beta cell function and viability in diabetes through TLR4 signaling. <i>Cell Metabolism</i> , <b>2009</b> , 9, 125-39	24.6	154
88	The antiinflammatory cytokine interleukin-1 receptor antagonist protects from high-fat diet-induced hyperglycemia. <i>Endocrinology</i> , <b>2008</b> , 149, 2208-18	4.8	153
87	Extracellular matrix protects pancreatic beta-cells against apoptosis: role of short- and long-term signaling pathways. <i>Diabetes</i> , <b>2004</b> , 53, 2034-41	0.9	149
86	MST1 is a key regulator of beta cell apoptosis and dysfunction in diabetes. <i>Nature Medicine</i> , <b>2014</b> , 20, 385-397	50.5	140
85	Low concentration of interleukin-1 $\beta$ induces FLICE-inhibitory protein-mediated beta-cell proliferation in human pancreatic islets. <i>Diabetes</i> , <b>2006</b> , 55, 2713-22	0.9	139

84	Glucose- and interleukin-1beta-induced beta-cell apoptosis requires Ca <sup>2+</sup> influx and extracellular signal-regulated kinase (ERK) 1/2 activation and is prevented by a sulfonylurea receptor 1/inwardly rectifying K <sup>+</sup> channel 6.2 (SUR/Kir6.2) selective potassium channel opener in human islets. <i>Diabetes</i> , <b>2004</b> , 53, 1706-13	0.9	135
83	Aging correlates with decreased beta-cell proliferative capacity and enhanced sensitivity to apoptosis: a potential role for Fas and pancreatic duodenal homeobox-1. <i>Diabetes</i> , <b>2006</b> , 55, 2455-62	0.9	133
82	FLIP switches Fas-mediated glucose signaling in human pancreatic beta cells from apoptosis to cell replication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 8236-41	11.5	122
81	Pioglitazone and sodium salicylate protect human beta-cells against apoptosis and impaired function induced by glucose and interleukin-1beta. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2004</b> , 89, 5059-66	5.6	90
80	Glucose and leptin induce apoptosis in human beta-cells and impair glucose-stimulated insulin secretion through activation of c-Jun N-terminal kinases. <i>FASEB Journal</i> , <b>2008</b> , 22, 1905-13	0.9	84
79	mTORC1 Signaling: A Double-Edged Sword in Diabetic $\beta$ Cells. <i>Cell Metabolism</i> , <b>2018</b> , 27, 314-331	24.6	82
78	Interleukin-1 beta targeted therapy for type 2 diabetes. <i>Expert Opinion on Biological Therapy</i> , <b>2009</b> , 9, 1177-88	5.4	79
77	The DPP-4 inhibitor linagliptin restores $\beta$ cell function and survival in human isolated islets through GLP-1 stabilization. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2013</b> , 98, E1163-72	5.6	77
76	XOMA 052, an anti-IL-1 $\beta$ monoclonal antibody, improves glucose control and $\beta$ -cell function in the diet-induced obesity mouse model. <i>Endocrinology</i> , <b>2010</b> , 151, 2515-27	4.8	77
75	Impact of integrin-matrix matching and inhibition of apoptosis on the survival of purified human beta-cells in vitro. <i>Diabetologia</i> , <b>2002</b> , 45, 841-50	10.3	75
74	TLR2/6 and TLR4-activated macrophages contribute to islet inflammation and impair beta cell insulin gene expression via IL-1 and IL-6. <i>Diabetologia</i> , <b>2014</b> , 57, 1645-54	10.3	72
73	Purinergic P2X7 receptors regulate secretion of interleukin-1 receptor antagonist and beta cell function and survival. <i>Diabetologia</i> , <b>2009</b> , 52, 1579-88	10.3	69
72	Upregulation of alpha cell glucagon-like peptide 1 (GLP-1) in Psammomys obesus--an adaptive response to hyperglycaemia?. <i>Diabetologia</i> , <b>2011</b> , 54, 1379-87	10.3	68
71	The Fas pathway is involved in pancreatic beta cell secretory function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 2861-6	11.5	64
70	TCF7L2 splice variants have distinct effects on beta-cell turnover and function. <i>Human Molecular Genetics</i> , <b>2011</b> , 20, 1906-15	5.6	63
69	Hippo Signaling: Key Emerging Pathway in Cellular and Whole-Body Metabolism. <i>Trends in Endocrinology and Metabolism</i> , <b>2018</b> , 29, 492-509	8.8	60
68	Reciprocal regulation of mTOR complexes in pancreatic islets from humans with type 2 diabetes. <i>Diabetologia</i> , <b>2017</b> , 60, 668-678	10.3	54
67	Benchmark datasets for 3D MALDI- and DESI-imaging mass spectrometry. <i>GigaScience</i> , <b>2015</b> , 4, 20	7.6	45

66	Overexpression of IRS2 in isolated pancreatic islets causes proliferation and protects human beta-cells from hyperglycemia-induced apoptosis. <i>Experimental Cell Research</i> , <b>2005</b> , 303, 68-78	4.2	45
65	Lung Surfactant for Pulmonary Barrier Restoration in Patients With COVID-19 Pneumonia. <i>Frontiers in Medicine</i> , <b>2020</b> , 7, 254	4.9	44
64	Increased vulnerability of newly forming beta cells to cytokine-induced cell death. <i>Diabetologia</i> , <b>2006</b> , 49, 83-9	10.3	44
63	Proapoptotic effects of the chemokine, CXCL 10 are mediated by the noncognate receptor TLR4 in hepatocytes. <i>Hepatology</i> , <b>2013</b> , 57, 797-805	11.2	42
62	Possible role of interleukin-1 $\beta$ in type 2 diabetes onset and implications for anti-inflammatory therapy strategies. <i>PLoS Computational Biology</i> , <b>2014</b> , 10, e1003798	5	41
61	The diabetes-linked transcription factor Pax4 is expressed in human pancreatic islets and is activated by mitogens and GLP-1. <i>Human Molecular Genetics</i> , <b>2008</b> , 17, 478-89	5.6	40
60	Identification of ALOX5 as a gene regulating adiposity and pancreatic function. <i>Diabetologia</i> , <b>2008</b> , 51, 978-88	10.3	39
59	The adipocytokine Nampt and its product NMN have no effect on beta-cell survival but potentiate glucose stimulated insulin secretion. <i>PLoS ONE</i> , <b>2013</b> , 8, e54106	3.7	37
58	TCF7L2 promotes beta cell regeneration in human and mouse pancreas. <i>Diabetologia</i> , <b>2012</b> , 55, 3296-307	10.3	36
57	Beta cells in type 2 diabetes - a crucial contribution to pathogenesis. <i>Diabetes, Obesity and Metabolism</i> , <b>2008</b> , 10, 408-20	6.7	33
56	MST1: a promising therapeutic target to restore functional beta cell mass in diabetes. <i>Diabetologia</i> , <b>2016</b> , 59, 1843-9	10.3	31
55	Identification of an intracellular metabolic signature impairing beta cell function in the rat beta cell line INS-1E and human islets. <i>Diabetologia</i> , <b>2011</b> , 54, 2584-94	10.3	28
54	Pancreatic beta cells and islets take up thiamin by a regulated carrier-mediated process: studies using mice and human pancreatic preparations. <i>American Journal of Physiology - Renal Physiology</i> , <b>2009</b> , 297, G197-206	5.1	27
53	Neutralizing interleukin-1beta (IL-1beta) induces beta-cell survival by maintaining PDX1 protein nuclear localization. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 17144-55	5.4	24
52	UCP-2 and UCP-3 proteins are differentially regulated in pancreatic beta-cells. <i>PLoS ONE</i> , <b>2008</b> , 3, e13973	3.7	24
51	The Hippo Signaling Pathway in Pancreatic $\beta$ Cells: Functions and Regulations. <i>Endocrine Reviews</i> , <b>2018</b> , 39, 21-35	27.2	23
50	Siglec-7 restores $\beta$ cell function and survival and reduces inflammation in pancreatic islets from patients with diabetes. <i>Scientific Reports</i> , <b>2017</b> , 7, 45319	4.9	22
49	Neratinib protects pancreatic beta cells in diabetes. <i>Nature Communications</i> , <b>2019</b> , 10, 5015	17.4	21

48	mTORC2 Signaling: A Path for Pancreatic $\beta$ Cells Growth and Function. <i>Journal of Molecular Biology</i> , <b>2018</b> , 430, 904-918	6.5	20
47	Ageing potentiates diet-induced glucose intolerance, $\beta$ cell failure and tissue inflammation through TLR4. <i>Scientific Reports</i> , <b>2018</b> , 8, 2767	4.9	20
46	COUP-TFII controls mouse pancreatic $\beta$ cell mass through GLP-1- $\beta$ catenin signaling pathways. <i>PLoS ONE</i> , <b>2012</b> , 7, e30847	3.7	20
45	Proproliferative and antiapoptotic action of exogenously introduced YAP in pancreatic cells. <i>JCI Insight</i> , <b>2016</b> , 1, e86326	9.9	20
44	Interleukin-targeted therapy for metabolic syndrome and type 2 diabetes. <i>Handbook of Experimental Pharmacology</i> , <b>2011</b> , 257-78	3.2	20
43	Detection and localization of viral infection in the pancreas of patients with type 1 diabetes using short fluorescently-labelled oligonucleotide probes. <i>Oncotarget</i> , <b>2017</b> , 8, 12620-12636	3.3	19
42	Genetic and biochemical evidence for a functional role of BACE1 in the regulation of insulin mRNA expression. <i>Obesity</i> , <b>2013</b> , 21, E626-33	8	17
41	Matrix Metalloproteinase-3 is Key Effector of TNF- $\alpha$ -Induced Collagen Degradation in Skin. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	16
40	Imaging of the $\beta$ cells of the islets of Langerhans. <i>Diabetes Research and Clinical Practice</i> , <b>2012</b> , 98, 11-8	7.4	15
39	Deletion of the mitochondrial flavoprotein apoptosis inducing factor (AIF) induces beta-cell apoptosis and impairs beta-cell mass. <i>PLoS ONE</i> , <b>2009</b> , 4, e4394	3.7	15
38	Macrophage-associated pro-inflammatory state in human islets from obese individuals. <i>Nutrition and Diabetes</i> , <b>2019</b> , 9, 36	4.7	15
37	TLR4 triggered complex inflammation in human pancreatic islets. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2019</b> , 1865, 86-97	6.9	15
36	Manganese-mediated MRI signals correlate with functional $\beta$ cell mass during diabetes progression. <i>Diabetes</i> , <b>2015</b> , 64, 2138-47	0.9	13
35	Efficient gene delivery and silencing of mouse and human pancreatic islets. <i>BMC Biotechnology</i> , <b>2010</b> , 10, 28	3.5	12
34	Enhanced cell adhesion on bioinert ceramics mediated by the osteogenic cell membrane enzyme alkaline phosphatase. <i>Materials Science and Engineering C</i> , <b>2016</b> , 69, 184-94	8.3	11
33	Distinct functions of the dual leucine zipper kinase depending on its subcellular localization. <i>Cellular Signalling</i> , <b>2016</b> , 28, 272-83	4.9	11
32	SARS-CoV-2 and pancreas: a potential pathological interaction?. <i>Trends in Endocrinology and Metabolism</i> , <b>2021</b> , 32, 842-845	8.8	11
31	Loss of Merlin/NF2 protects pancreatic $\beta$ cells from apoptosis by inhibiting LATS2. <i>Cell Death and Disease</i> , <b>2016</b> , 7, e2107	9.8	9

30	Evaluation of Existing Methods for Human Blood mRNA Isolation and Analysis for Large Studies. <i>PLoS ONE</i> , <b>2016</b> , 11, e0161778	3.7	9
29	Enteroviruses and T1D: Is It the Virus, the Genes or Both which Cause T1D. <i>Microorganisms</i> , <b>2020</b> , 8,	4.9	9
28	mTORC in $\beta$ cells: more Than Only Recognizing Comestibles. <i>Journal of Cell Biology</i> , <b>2017</b> , 216, 1883-1885	7.3	8
27	Angiopoietin-2 Signals Do Not Mediate the Hypervascularization of Islets in Type 2 Diabetes. <i>PLoS ONE</i> , <b>2016</b> , 11, e0161834	3.7	8
26	CXCL10- a path to $\beta$ cell death. <i>Islets</i> , <b>2009</b> , 1, 256-9	2	7
25	Lung Surfactant Accelerates Skin Wound Healing: A Translational Study with a Randomized Clinical Phase I Study. <i>Scientific Reports</i> , <b>2020</b> , 10, 2581	4.9	6
24	mTORC1 and IRS1: Another Deadly Kiss. <i>Trends in Endocrinology and Metabolism</i> , <b>2018</b> , 29, 737-739	8.8	6
23	Expression of Fas but not Fas ligand on fetal pig beta cells. <i>Xenotransplantation</i> , <b>2004</b> , 11, 426-35	2.8	6
22	Neratinib is an MST1 inhibitor and restores pancreatic $\beta$ cells in diabetes. <i>Cell Death Discovery</i> , <b>2019</b> , 5, 149	6.9	6
21	$\beta$ MSCs: successful fusion of MSCs with $\beta$ cells results in a $\beta$ cell like phenotype. <i>Oncotarget</i> , <b>2016</b> , 7, 48963-48977	3.3	5
20	Loss of TAZ Boosts PPAR $\alpha$ to Cope with Insulin Resistance. <i>Cell Metabolism</i> , <b>2020</b> , 31, 6-8	24.6	5
19	Loss of Deubiquitinase USP1 Blocks Pancreatic $\beta$ Cell Apoptosis by Inhibiting DNA Damage Response. <i>iScience</i> , <b>2018</b> , 1, 72-86	6.1	5
18	Inhibition of PHLPP1/2 phosphatases rescues pancreatic $\beta$ cells in diabetes. <i>Cell Reports</i> , <b>2021</b> , 36, 109490	10.6	5
17	The Hippo kinase LATS2 impairs pancreatic $\beta$ cell survival in diabetes through the mTORC1-autophagy axis. <i>Nature Communications</i> , <b>2021</b> , 12, 4928	17.4	5
16	TOSO promotes $\beta$ cell proliferation and protects from apoptosis. <i>Molecular Metabolism</i> , <b>2012</b> , 1, 70-8	8.8	4
15	GLP-2 Is Locally Produced From Human Islets and Balances Inflammation Through an Inter-Islet-Immune Cell Crosstalk. <i>Frontiers in Endocrinology</i> , <b>2021</b> , 12, 697120	5.7	4
14	Localization of enteroviral RNA within the pancreas in donors with T1D and T1D-associated autoantibodies. <i>Cell Reports Medicine</i> , <b>2021</b> , 2, 100371	18	4
13	STRIPAK Is a Regulatory Hub Initiating Hippo Signaling. <i>Trends in Biochemical Sciences</i> , <b>2020</b> , 45, 280-283	10.3	2

12	An SCF E3 Ligase Protects Pancreatic $\beta$ Cells from Apoptosis. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	2
11	Commentary: A Human Pluripotent Stem Cell-Based Platform to Study SARS-CoV-2 Tropism and Model Virus Infection in Human Cells and Organoids. <i>Frontiers in Endocrinology</i> , <b>2020</b> , 11, 585922	5.7	2
10	Statement of Retraction. Transcription Factor 7-Like 2 Regulates $\beta$ Cell Survival and Function in Human Pancreatic Islets. <i>Diabetes</i> , <b>2017</b> , 66, 1729-1730	0.9	1
9	How $\beta$ cells can smell insulin fragments.. <i>Cell Metabolism</i> , <b>2022</b> , 34, 189-191	24.6	1
8	Deathly triangle for pancreatic $\beta$ cells: Hippo pathway-MTORC1-autophagy. <i>Autophagy</i> , <b>2021</b> , 1-3	10.2	1
7	LDHA is enriched in human islet $\alpha$ cells and upregulated in type 2 diabetes. <i>Biochemical and Biophysical Research Communications</i> , <b>2021</b> , 568, 158-166	3.4	1
6	Case Report: Neratinib Therapy Improves Glycemic Control in a Patient With Type 2 Diabetes and Breast Cancer.. <i>Frontiers in Endocrinology</i> , <b>2022</b> , 13, 830097	5.7	1
5	MST1 deletion protects $\beta$ cells in a mouse model of diabetes.. <i>Nutrition and Diabetes</i> , <b>2022</b> , 12, 7	4.7	0
4	PHLPP1 deletion restores pancreatic $\beta$ cell survival and normoglycemia in the db/db mouse model of obesity-associated diabetes.. <i>Cell Death Discovery</i> , <b>2022</b> , 8, 57	6.9	0
3	Targeting the Metabolic Syndrome and Type 2 Diabetes by Preventing Inflammation <b>2012</b> , 233-252		
2	Rettet die Beta-Zelle: Neue Therapieansätze für Diabetes. <i>Diabetologie Und Stoffwechsel</i> , <b>2011</b> , 6, 283-286	0.7	
1	Hippo STK kinases drive metabolic derangement. <i>Nature Metabolism</i> , <b>2021</b> , 3, 295-296	14.6	