

# Geert Martens

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

2,834  
citations

201575

27  
h-index

182361

51  
g-index

70  
all docs

70  
docs citations

70  
times ranked

5120  
citing authors

#	ARTICLE	IF	CITATIONS
1	miR-375 Targets 3â€²-Phosphoinositideâ€“Dependent Protein Kinase-1 and Regulates Glucose-Induced Biological Responses in Pancreatic Î²-Cells. <i>Diabetes</i> , 2008, 57, 2708-2717.	0.3	407
2	Interleukin-6 regulates pancreatic Î±-cell mass expansion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 13163-13168.	3.3	234
3	Environmental pollutants and type 2 diabetes: a review of mechanisms that can disrupt beta cell function. <i>Diabetologia</i> , 2011, 54, 1273-1290.	2.9	229
4	Metformin-induced stimulation of AMP-activated protein kinase in Î²-cells impairs their glucose responsiveness and can lead to apoptosis. <i>Biochemical Pharmacology</i> , 2004, 68, 409-416.	2.0	131
5	Glucose Suppresses Superoxide Generation in Metabolically Responsive Pancreatic Î² Cells*. <i>Journal of Biological Chemistry</i> , 2005, 280, 20389-20396.	1.6	120
6	Serum 25(OH)D Level on Hospital Admission Associated With COVID-19 Stage and Mortality. <i>American Journal of Clinical Pathology</i> , 2021, 155, 381-388.	0.4	117
7	Increased oxygen radical formation and mitochondrial dysfunction mediate beta cell apoptosis under conditions of AMP-activated protein kinase stimulation. <i>Free Radical Biology and Medicine</i> , 2007, 42, 64-78.	1.3	91
8	PhIP-Seq characterization of autoantibodies from patients with multiple sclerosis, type 1 diabetes and rheumatoid arthritis. <i>Journal of Autoimmunity</i> , 2013, 43, 1-9.	3.0	83
9	Diagnostic Performance of Chest CT for SARS-CoV-2 Infection in Individuals with or without COVID-19 Symptoms. <i>Radiology</i> , 2021, 298, E30-E37.	3.6	74
10	Methyl succinate antagonises biguanide-induced AMPK-activation and death of pancreatic Î² -cells through restoration of mitochondrial electron transfer. <i>British Journal of Pharmacology</i> , 2007, 150, 1031-1043.	2.7	69
11	Restoring a functional Î²â€“cell mass in diabetes. <i>Diabetes, Obesity and Metabolism</i> , 2008, 10, 54-62.	2.2	61
12	Comparison of microsatellite instability detection by immunohistochemistry and molecular techniques in colorectal and endometrial cancer. <i>Scientific Reports</i> , 2021, 11, 12880.	1.6	55
13	Plasticity of Adult Human Pancreatic Duct Cells by Neurogenin3-Mediated Reprogramming. <i>PLoS ONE</i> , 2012, 7, e37055.	1.1	54
14	Probe-Independent and Direct Quantification of Insulin mRNA and Growth Hormone mRNA in Enriched Cell Preparations. <i>Diabetes</i> , 2006, 55, 3214-3220.	0.3	52
15	Peroxisome proliferatorâ€“activated receptorâ€“Î±/Î² retinoidâ€“X receptor agonists induce betaâ€“cell protection against palmitate toxicity. <i>FEBS Journal</i> , 2007, 274, 6094-6105.	2.2	49
16	Clusters of Conserved Beta Cell Marker Genes for Assessment of Beta Cell Phenotype. <i>PLoS ONE</i> , 2011, 6, e24134.	1.1	49
17	Humoral Immune Response to SARS-CoV-2. <i>American Journal of Clinical Pathology</i> , 2020, 154, 610-619.	0.4	49
18	Estrogen Receptor Î± Regulates Î²-Cell Formation During Pancreas Development and Following Injury. <i>Diabetes</i> , 2015, 64, 3218-3228.	0.3	47

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19	Use of the Cell-Dyn Sapphire Hematology Analyzer for Automated Counting of Blood Cells in Body Fluids. <i>American Journal of Clinical Pathology</i> , 2010, 133, 291-299.	0.4	46
20	Acute respiratory muscle weakness and apnea in a critically ill patient induced by colistin neurotoxicity: key potential role of hemoadsorption elimination during continuous venovenous hemofiltration. <i>International Journal of Nephrology and Renovascular Disease</i> , 2013, 6, 107.	0.8	46
21	Susceptibility of Pancreatic Beta Cells to Fatty Acids Is Regulated by LXR/PPAR $\alpha$ -Dependent Stearoyl-Coenzyme A Desaturase. <i>PLoS ONE</i> , 2009, 4, e7266.	1.1	43
22	Specificity in Beta Cell Expression of l-3-Hydroxyacyl-CoA Dehydrogenase, Short Chain, and Potential Role in Down-regulating Insulin Release. <i>Journal of Biological Chemistry</i> , 2007, 282, 21134-21144.	1.6	38
23	Functional characteristics of neonatal rat $\beta^2$ cells with distinct markers. <i>Journal of Molecular Endocrinology</i> , 2014, 52, 11-28.	1.1	37
24	Three doses of BNT162b2 vaccine confer neutralising antibody capacity against the SARS-CoV-2 Omicron variant. <i>Npj Vaccines</i> , 2022, 7, 35.	2.9	34
25	Protein Markers for Insulin-Producing Beta Cells with Higher Glucose Sensitivity. <i>PLoS ONE</i> , 2010, 5, e14214.	1.1	33
26	Homozygosity for aquaporin 7 G264V in three unrelated children with hyperglyceroluria and a mild platelet secretion defect. <i>Genetics in Medicine</i> , 2013, 15, 55-63.	1.1	33
27	Evaluation of the INS-1 832/13 Cell Line as a Beta-Cell Based Screening System to Assess Pollutant Effects on Beta-Cell Function. <i>PLoS ONE</i> , 2013, 8, e60030.	1.1	33
28	Potential of Protein Phosphatase Inhibitor 1 As Biomarker of Pancreatic $\beta^2$ -Cell Injury In Vitro and In Vivo. <i>Diabetes</i> , 2013, 62, 2683-2688.	0.3	29
29	Cov-MS: A Community-Based Template Assay for Mass-Spectrometry-Based Protein Detection in SARS-CoV-2 Patients. <i>Jacs Au</i> , 2021, 1, 750-765.	3.6	29
30	Circulating microRNA-375 as biomarker of pancreatic beta cell death and protection of beta cell mass by cytoprotective compounds. <i>PLoS ONE</i> , 2017, 12, e0186480.	1.1	25
31	Use of Likelihood Ratios Improves Interpretation of Laboratory Testing for Pulmonary Sarcoidosis. <i>American Journal of Clinical Pathology</i> , 2010, 134, 939-947.	0.4	24
32	Convulsions and apnoea in a patient infected with New Delhi metallo- $\beta^2$ -lactamase-1 <i>Escherichia coli</i> treated with colistin. <i>Journal of Infection</i> , 2011, 63, 468-470.	1.7	24
33	Chapter 17 Glucose, Regulator of Survival and Phenotype of Pancreatic Beta Cells. <i>Vitamins and Hormones</i> , 2009, 80, 507-539.	0.7	23
34	Conditional Hypovascularization and Hypoxia in Islets Do Not Overtly Influence Adult $\beta^2$ -Cell Mass or Function. <i>Diabetes</i> , 2013, 62, 4165-4173.	0.3	23
35	Glycemic Control of Apoptosis in the Pancreatic Beta Cell: Danger of Extremes?. <i>Antioxidants and Redox Signaling</i> , 2007, 9, 309-317.	2.5	22
36	LC-MS/MS identification of doublecortin as abundant beta cell-selective protein discharged by damaged beta cells in vitro. <i>Journal of Proteomics</i> , 2013, 80, 268-280.	1.2	22

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37	Plasma GAD65, a Marker for Early $\beta$ -Cell Loss After Intraportal Islet Cell Transplantation in Diabetic Patients. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2015, 100, 2314-2321.	1.8	22
38	Potential of UCHL1 as biomarker for destruction of pancreatic beta cells. <i>Journal of Proteomics</i> , 2015, 117, 156-167.	1.2	20
39	Clinical implementation of gene panel testing for lysosomal storage diseases. <i>Molecular Genetics &amp; Genomic Medicine</i> , 2019, 7, e00527.	0.6	18
40	Plasma Protein Binding of Luciferase Substrates Influences Sensitivity and Accuracy of Bioluminescence Imaging. <i>Molecular Imaging and Biology</i> , 2011, 13, 59-66.	1.3	17
41	Species-Related Differences in the Proteome of Rat and Human Pancreatic Beta Cells. <i>Journal of Diabetes Research</i> , 2015, 2015, 1-11.	1.0	15
42	An analytical comparison of three immunoassay platforms for subpicomolar detection of protein biomarker GAD65. <i>PLoS ONE</i> , 2018, 13, e0193670.	1.1	15
43	Combined Analysis of GAD65, miR-375, and Unmethylated Insulin DNA Following Islet Transplantation in Patients With T1D. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2019, 104, 451-460.	1.8	15
44	Early treatment of a child with NAGS deficiency using N-carbamyl glutamate results in a normal neurological outcome. <i>European Journal of Pediatrics</i> , 2014, 173, 1635-1638.	1.3	14
45	Nutrient sensing in pancreatic $\beta$ cells suppresses mitochondrial superoxide generation and its contribution to apoptosis. <i>Biochemical Society Transactions</i> , 2005, 33, 300-301.	1.6	13
46	X-Linked Cobalamin Disorder ( HCFC1 ) Mimicking Nonketotic Hyperglycinemia With Increased Both Cerebrospinal Fluid Glycine and Methylmalonic Acid. <i>Pediatric Neurology</i> , 2017, 71, 65-69.	1.0	11
47	Development of an Enhanced Sensitivity Bead-Based Immunoassay for Real-Time In Vivo Detection of Pancreatic $\beta$ -Cell Death. <i>Endocrinology</i> , 2015, 156, 4755-4760.	1.4	10
48	Quantitative proteomics of rat and human pancreatic beta cells. <i>Data in Brief</i> , 2015, 3, 234-239.	0.5	10
49	Metabolic Activation of Glucose Low-Responsive $\beta$ -Cells by Glyceraldehyde Correlates with Their Biosynthetic Activation in Lower Glucose Concentration Range But Not at High Glucose. <i>Endocrinology</i> , 2006, 147, 5196-5204.	1.4	9
50	CD99 as surface anchor for human islet endocrine cell purification. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, e171-e176.	1.3	8
51	Oxidative Stress, Glutathione Metabolism, and Liver Regeneration Pathways Are Activated in Hereditary Tyrosinemia Type 1 Mice upon Short-Term Nitisinone Discontinuation. <i>Genes</i> , 2021, 12, 3.	1.0	8
52	Homocysteine measurement by Vitros <sup>®</sup> Microtip homocysteine assay. <i>Clinical Chemistry and Laboratory Medicine</i> , 2008, 46, 283-6.	1.4	7
53	OUP accepted manuscript. <i>American Journal of Clinical Pathology</i> , 2021, , .	0.4	7
54	Glucose Regulates Rat Beta Cell Number through Age-Dependent Effects on Beta Cell Survival and Proliferation. <i>PLoS ONE</i> , 2014, 9, e85174.	1.1	7

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55	Automated validation of clinical laboratory test results: do we get what we expect?. Clinical Chemistry and Laboratory Medicine, 2009, 47, 379-80.	1.4	5
56	The MicroRNA Landscape of Acute Beta Cell Destruction in Type 1 Diabetic Recipients of Intraportal Islet Grafts. Cells, 2021, 10, 1693.	1.8	4
57	Lessons from the Belgian experience with regulatory control during the COVID-19 pandemic for the implementation of the European IVD regulation 2017/746. Acta Clinica Belgica, 2022, 77, 1-3.	0.5	3
58	Enzymatic Pyruvate Measurement by Cobas&reg;6000 Open Channel Assay. Clinical Laboratory, 2013, 59, .	0.2	3
59	Markers for beta-cell loss. , 2020, , 695-709.		0
60	Glycemic Control of Apoptosis in the Pancreatic Beta Cell: Danger of Extremes?. Antioxidants and Redox Signaling, 2006, .	2.5	0
61	Pitfalls of SARS-CoV-2 antigen testing at emergency department. Infectious Diseases, 0, , 1-7.	1.4	0