

Michele Solimena

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/4145241/michele-solimena-publications-by-year.pdf>

Version: 2024-04-19

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

116
papers

7,082
citations

39
h-index

83
g-index

127
ext. papers

8,238
ext. citations

11
avg, IF

5.24
L-index

#	Paper	IF	Citations
116	Metabolic implications of pancreatic fat accumulation. <i>Nature Reviews Endocrinology</i> , 2022 , 18, 43-54	15.2	2
115	The German Gestational Diabetes Study (PREG), a prospective multicentre cohort study: rationale, methodology and design.. <i>BMJ Open</i> , 2022 , 12, e058268	3	0
114	PTBP1 promotes hematopoietic stem cell maintenance and red blood cell development by ensuring sufficient availability of ribosomal constituents.. <i>Cell Reports</i> , 2022 , 39, 110793	10.6	2
113	An open-access volume electron microscopy atlas of whole cells and tissues. <i>Nature</i> , 2021 , 599, 147-151	50.4	12
112	Plasma triacylglycerols are biomarkers of β cell function in mice and humans. <i>Molecular Metabolism</i> , 2021 , 54, 101355	8.8	1
111	3D FIB-SEM reconstruction of microtubule-organelle interaction in whole primary mouse β cells. <i>Journal of Cell Biology</i> , 2021 , 220,	7.3	20
110	Schutz und Regeneration der Betazellen. <i>Diabetes Aktuell</i> , 2021 , 19, 86-89	0	
109	Viral infiltration of pancreatic islets in patients with COVID-19. <i>Nature Communications</i> , 2021 , 12, 3534	17.4	34
108	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	14.6	13
107	Melatonin promotes regeneration of injured motor axons via MT receptors. <i>Journal of Pineal Research</i> , 2021 , 70, e12695	10.4	6
106	miR-375- and miR-1-Regulated Coxsackievirus B3 Has No Pancreas and Heart Toxicity But Strong Antitumor Efficiency in Colorectal Carcinomas. <i>Human Gene Therapy</i> , 2021 , 32, 216-230	4.8	7
105	Chromatin 3D interaction analysis of the STARD10 locus unveils FCHSD2 as a regulator of insulin secretion. <i>Cell Reports</i> , 2021 , 34, 108703	10.6	1
104	Sequential in vivo labeling of insulin secretory granule pools in β -transgenic pigs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	4
103	The type 2 diabetes gene product STARD10 is a phosphoinositide-binding protein that controls insulin secretory granule biogenesis. <i>Molecular Metabolism</i> , 2020 , 40, 101015	8.8	10
102	Dysfunction of Persisting β Cells Is a Key Feature of Early Type 2 Diabetes Pathogenesis. <i>Cell Reports</i> , 2020 , 31, 107469	10.6	42
101	MiR-132 controls pancreatic beta cell proliferation and survival through Pten/Akt/Foxo3 signaling. <i>Molecular Metabolism</i> , 2020 , 31, 150-162	8.8	23
100	Circadian, Sleep and Caloric Intake Phenotyping in Type 2 Diabetes Patients With Rare Melatonin Receptor 2 Mutations and Controls: A Pilot Study. <i>Frontiers in Physiology</i> , 2020 , 11, 564140	4.6	5

99	Persistent or Transient Human β Cell Dysfunction Induced by Metabolic Stress: Specific Signatures and Shared Gene Expression with Type 2 Diabetes. <i>Cell Reports</i> , 2020 , 33, 108466	10.6	22
98	The making of insulin in health and disease. <i>Diabetologia</i> , 2020 , 63, 1981-1989	10.3	17
97	MiR-375-mediated suppression of engineered coxsackievirus B3 in pancreatic cells. <i>FEBS Letters</i> , 2020 , 594, 763-775	3.8	5
96	Development of a new mouse model for coxsackievirus-induced myocarditis by attenuating coxsackievirus B3 virulence in the pancreas. <i>Cardiovascular Research</i> , 2020 , 116, 1756-1766	9.9	8
95	Metabolically phenotyped pancreatectomized patients as living donors for the study of islets in health and diabetes. <i>Molecular Metabolism</i> , 2019 , 27S, S1-S6	8.8	5
94	deletion causes extensive vacuolation that consumes the insulin content of pancreatic β cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 19983-19988	11.5	12
93	ICA512 RESP18 homology domain is a protein-condensing factor and insulin fibrillation inhibitor. <i>Journal of Biological Chemistry</i> , 2019 , 294, 8564-8576	5.4	4
92	Laser capture microdissection of human pancreatic islets reveals novel eQTLs associated with type 2 diabetes. <i>Molecular Metabolism</i> , 2019 , 24, 98-107	8.8	14
91	Fostering improved human islet research: a European perspective. <i>Diabetologia</i> , 2019 , 62, 1514-1516	10.3	9
90	Detection of recombinant and endogenous mouse melatonin receptors by monoclonal antibodies targeting the C-terminal domain. <i>Journal of Pineal Research</i> , 2019 , 66, e12540	10.4	10
89	The RNA-binding protein PTBP1 is necessary for B cell selection in germinal centers. <i>Nature Immunology</i> , 2018 , 19, 267-278	19.1	33
88	Virus-like infection induces human β cell dedifferentiation. <i>JCI Insight</i> , 2018 , 3,	9.9	32
87	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	10.3	84
86	Content-aware image restoration: pushing the limits of fluorescence microscopy. <i>Nature Methods</i> , 2018 , 15, 1090-1097	21.6	369
85	The Expression of Aldolase B in Islets Is Negatively Associated With Insulin Secretion in Humans. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2018 , 103, 4373-4383	5.6	24
84	Decreased STARD10 Expression Is Associated with Defective Insulin Secretion in Humans and Mice. <i>American Journal of Human Genetics</i> , 2017 , 100, 238-256	11	50
83	Vessel Network Architecture of Adult Human Islets Promotes Distinct Cell-Cell Interactions In Situ and Is Altered After Transplantation. <i>Endocrinology</i> , 2017 , 158, 1373-1385	4.8	42
82	A 4D view on insulin secretory granule turnover in the β cell. <i>Diabetes, Obesity and Metabolism</i> , 2017 , 19 Suppl 1, 107-114	6.7	16

81	Favorable outcome of experimental islet xenotransplantation without immunosuppression in a nonhuman primate model of diabetes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 11745-11750	11.5	56
80	A Global Approach for Quantitative Super Resolution and Electron Microscopy on Cryo and Epoxy Sections Using Self-labeling Protein Tags. <i>Scientific Reports</i> , 2017 , 7, 23	4.9	29
79	The F-actin modifier villin regulates insulin granule dynamics and exocytosis downstream of islet cell autoantigen 512. <i>Molecular Metabolism</i> , 2016 , 5, 656-668	8.8	14
78	Aldehyde dehydrogenase activity is necessary for beta cell development and functionality in mice. <i>Diabetologia</i> , 2016 , 59, 139-150	10.3	9
77	Biochemical, biophysical, and functional properties of ICA512/IA-2 RESP18 homology domain. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2016 , 1864, 511-22	4	4
76	X-ray structure of the mature ectodomain of phogrin. <i>Journal of Structural and Functional Genomics</i> , 2015 , 16, 1-9		4
75	Mechanisms of Beta Cell Dysfunction Associated With Viral Infection. <i>Current Diabetes Reports</i> , 2015 , 15, 73	5.6	33
74	A Spatial Model of Insulin-Granule Dynamics in Pancreatic β Cells. <i>Traffic</i> , 2015 , 16, 797-813	5.7	13
73	A human beta cell line with drug inducible excision of immortalizing transgenes. <i>Molecular Metabolism</i> , 2015 , 4, 916-25	8.8	47
72	Blood Glucose Homeostasis in the Course of Partial Pancreatectomy--Evidence for Surgically Reversible Diabetes Induced by Cholestasis. <i>PLoS ONE</i> , 2015 , 10, e0134140	3.7	10
71	Stability of proICA512/IA-2 and its targeting to insulin secretory granules require β -sheet-mediated dimerization of its ectodomain in the endoplasmic reticulum. <i>Molecular and Cellular Biology</i> , 2015 , 35, 914-27	4.8	7
70	Aged insulin granules display reduced microtubule-dependent mobility and are disposed within actin-positive multigranular bodies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E667-76	11.5	40
69	Adaptive lipid packing and bioactivity in membrane domains. <i>PLoS ONE</i> , 2015 , 10, e0123930	3.7	70
68	Using pancreas tissue slices for in situ studies of islet of Langerhans and acinar cell biology. <i>Nature Protocols</i> , 2014 , 9, 2809-22	18.8	68
67	PTBP1 is required for glucose-stimulated cap-independent translation of insulin granule proteins and Cocksackieviruses in beta cells. <i>Molecular Metabolism</i> , 2014 , 3, 518-30	8.8	27
66	Regulation of β cell function by RNA-binding proteins. <i>Molecular Metabolism</i> , 2013 , 2, 348-55	8.8	16
65	Transplantation of human islets without immunosuppression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 19054-8	11.5	210
64	Age-dependent labeling and imaging of insulin secretory granules. <i>Diabetes</i> , 2013 , 62, 3687-96	0.9	44

63	Effects of immunosuppression on alpha and beta cell renewal in transplanted mouse islets. <i>Diabetologia</i> , 2013 , 56, 1596-604	10.3	7
62	The complement anaphylatoxin C5a receptor contributes to obese adipose tissue inflammation and insulin resistance. <i>Journal of Immunology</i> , 2013 , 191, 4367-74	5.3	66
61	Improved protocol for laser microdissection of human pancreatic islets from surgical specimens. <i>Journal of Visualized Experiments</i> , 2013 ,	1.6	15
60	Novel standards in the measurement of rat insulin granules combining electron microscopy, high-content image analysis and in silico modelling. <i>Diabetologia</i> , 2012 , 55, 1013-23	10.3	49
59	Cholesterol-enriched membrane rafts and insulin secretion. <i>Journal of Diabetes Investigation</i> , 2012 , 3, 339-46	3.9	15
58	Polymorphism rs11085226 in the gene encoding polypyrimidine tract-binding protein 1 negatively affects glucose-stimulated insulin secretion. <i>PLoS ONE</i> , 2012 , 7, e46154	3.7	5
57	Sequence variation in promoter of Ica1 gene, which encodes protein implicated in type 1 diabetes, causes transcription factor autoimmune regulator (AIRE) to increase its binding and down-regulate expression. <i>Journal of Biological Chemistry</i> , 2012 , 287, 17882-17893	5.4	12
56	CDK5 regulatory subunit-associated protein 1-like 1 (CDKAL1) is a tail-anchored protein in the endoplasmic reticulum (ER) of insulinoma cells. <i>Journal of Biological Chemistry</i> , 2012 , 287, 41808-19	5.4	25
55	Isolation of human islets from partially pancreatectomized patients. <i>Journal of Visualized Experiments</i> , 2011 ,	1.6	4
54	PTBP1 is required for embryonic development before gastrulation. <i>PLoS ONE</i> , 2011 , 6, e16992	3.7	33
53	Protein-protein interactions in crystals of the human receptor-type protein tyrosine phosphatase ICA512 ectodomain. <i>PLoS ONE</i> , 2011 , 6, e24191	3.7	3
52	Functional assessment of automatically sorted pancreatic islets using large particle flow cytometry. <i>Islets</i> , 2011 , 3, 267-70	2	8
51	Human stiff-person syndrome IgG induces anxious behavior in rats. <i>PLoS ONE</i> , 2011 , 6, e16775	3.7	42
50	β-Syntrophin is a Cdk5 substrate that restrains the motility of insulin secretory granules. <i>PLoS ONE</i> , 2010 , 5, e12929	3.7	32
49	Impaired insulin turnover in islets from type 2 diabetic patients. <i>Islets</i> , 2010 , 2, 30-6	2	15
48	Automated suppression of sample-related artifacts in Fluorescence Correlation Spectroscopy. <i>Optics Express</i> , 2010 , 18, 11073-82	3.3	19
47	Insulin release: shedding light on a complex matter. <i>Cell Metabolism</i> , 2010 , 12, 5-6	24.6	2
46	The insulin secretory granule as a signaling hub. <i>Trends in Endocrinology and Metabolism</i> , 2010 , 21, 599-608	12.5	

45	Tamoxifen-independent recombination in the RIP-CreER mouse. <i>PLoS ONE</i> , 2010 , 5, e13533	3.7	43
44	Rapid changes of mRNA-binding protein levels following glucose and 3-isobutyl-1-methylxanthine stimulation of insulinoma INS-1 cells. <i>Molecular and Cellular Proteomics</i> , 2009 , 8, 393-408	7.6	11
43	beta-Cells at the crossroads: choosing between insulin granule production and proliferation. <i>Diabetes, Obesity and Metabolism</i> , 2009 , 11 Suppl 4, 54-64	6.7	16
42	ICA69 is a novel Rab2 effector regulating ER-Golgi trafficking in insulinoma cells. <i>European Journal of Cell Biology</i> , 2008 , 87, 197-209	6.1	35
41	ICA512 signaling enhances pancreatic beta-cell proliferation by regulating cyclins D through STATs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 674-9	11.5	47
40	Regulation of insulin granule turnover in pancreatic beta-cells by cleaved ICA512. <i>Journal of Biological Chemistry</i> , 2008 , 283, 33719-29	5.4	29
39	Pancreas islets in metabolic signaling--focus on the beta-cell. <i>Frontiers in Bioscience - Landmark</i> , 2008 , 13, 7156-71	2.8	64
38	Biogenesis of secretory granules. <i>Current Opinion in Cell Biology</i> , 2006 , 18, 365-70	9	69
37	cAMP-dependent phosphorylation of PTB1 promotes the expression of insulin secretory granule proteins in beta cells. <i>Cell Metabolism</i> , 2006 , 3, 123-34	24.6	68
36	Synergy of glucose and growth hormone signalling in islet cells through ICA512 and STAT5. <i>Nature Cell Biology</i> , 2006 , 8, 435-45	23.4	64
35	Effect of oxygenated perfluorocarbons on isolated rat pancreatic islets in culture. <i>Cell Transplantation</i> , 2005 , 14, 441-8	4	17
34	An enzymatic cascade of Rab5 effectors regulates phosphoinositide turnover in the endocytic pathway. <i>Journal of Cell Biology</i> , 2005 , 170, 607-18	7.3	309
33	BetaIVSigma1 spectrin stabilizes the nodes of Ranvier and axon initial segments. <i>Journal of Cell Biology</i> , 2004 , 166, 983-90	7.3	113
32	Nuclear translocation of an ICA512 cytosolic fragment couples granule exocytosis and insulin expression in {beta}-cells. <i>Journal of Cell Biology</i> , 2004 , 167, 1063-74	7.3	61
31	BetaIV spectrins are essential for membrane stability and the molecular organization of nodes of Ranvier. <i>Journal of Neuroscience</i> , 2004 , 24, 7230-40	6.6	114
30	Polypyrimidine tract-binding protein promotes insulin secretory granule biogenesis. <i>Nature Cell Biology</i> , 2004 , 6, 207-14	23.4	137
29	Islet cell autoantigen of 69 kDa is an arfaptin-related protein associated with the Golgi complex of insulinoma INS-1 cells. <i>Journal of Biological Chemistry</i> , 2003 , 278, 26166-73	5.4	27
28	Secretory granules: and the last shall be first. <i>Trends in Cell Biology</i> , 2003 , 13, 399-402	18.3	15

27	The receptor tyrosine phosphatase-like protein ICA512 binds the PDZ domains of beta2-syntrophin and nNOS in pancreatic beta-cells. <i>European Journal of Cell Biology</i> , 2000 , 79, 621-30	6.1	55
26	betaIV spectrin, a new spectrin localized at axon initial segments and nodes of ranvier in the central and peripheral nervous system. <i>Journal of Cell Biology</i> , 2000 , 151, 985-1002	7.3	229
25	Synaptic autoimmunity and the Salk factor. <i>Neuron</i> , 2000 , 28, 309-10	13.9	1
24	Autoimmunity to gephyrin in Stiff-Man syndrome. <i>Neuron</i> , 2000 , 26, 307-12	13.9	170
23	Post-translational modifications of ICA512, a receptor tyrosine phosphatase-like protein of secretory granules. <i>European Journal of Neuroscience</i> , 1999 , 11, 2609-20	3.5	37
22	Molecular dissection of regulated secretory pathways in human gastric enterochromaffin-like cells: an immunohistochemical analysis. <i>Histochemistry and Cell Biology</i> , 1999 , 112, 205-14	2.4	15
21	Vesicular autoantigens of type 1 diabetes. <i>Diabetes/metabolism Reviews</i> , 1998 , 14, 227-40		18
20	MFR, a putative receptor mediating the fusion of macrophages. <i>Molecular and Cellular Biology</i> , 1998 , 18, 6213-23	4.8	133
19	STEP61: a member of a family of brain-enriched PTPs is localized to the endoplasmic reticulum. <i>Journal of Neuroscience</i> , 1996 , 16, 7821-31	6.6	71
18	Coxsackieviruses and diabetes. <i>Nature Medicine</i> , 1995 , 1, 25-6	50.5	23
17	Targeting of the 67-kDa isoform of glutamic acid decarboxylase to intracellular organelles is mediated by its interaction with the NH2-terminal region of the 65-kDa isoform of glutamic acid decarboxylase. <i>Journal of Biological Chemistry</i> , 1995 , 270, 2241-6	5.4	67
16	Autoimmunity in stiff-Man syndrome with breast cancer is targeted to the C-terminal region of human amphiphysin, a protein similar to the yeast proteins, Rvs167 and Rvs161. <i>FEBS Letters</i> , 1994 , 351, 73-9	3.8	128
15	Genetics of susceptibility and resistance to insulin-dependent diabetes in stiff-man syndrome. <i>Lancet, The</i> , 1994 , 344, 1027-8	4.0	20
14	GAD, diabetes, and Stiff-Man syndrome: some progress and more questions. <i>Journal of Endocrinological Investigation</i> , 1994 , 17, 509-20	5.2	28
13	Autoantibodies to a 128-kd synaptic protein in three women with the stiff-man syndrome and breast cancer. <i>New England Journal of Medicine</i> , 1993 , 328, 546-51	59.2	293
12	Sudden death and paroxysmal autonomic dysfunction in stiff-man syndrome. <i>Journal of Neurology</i> , 1991 , 238, 91-6	5.5	94
11	Autoimmunity to glutamic acid decarboxylase (GAD) in Stiff-Man syndrome and insulin-dependent diabetes mellitus. <i>Trends in Neurosciences</i> , 1991 , 14, 452-7	13.3	159
10	Identification of the 64K autoantigen in insulin-dependent diabetes as the GABA-synthesizing enzyme glutamic acid decarboxylase. <i>Nature</i> , 1990 , 347, 151-6	50.4	1507

9	Autoantibodies to GABA-ergic neurons and pancreatic beta cells in stiff-man syndrome. <i>New England Journal of Medicine</i> , 1990 , 322, 1555-60	59.2	622
8	3D FIB-SEM reconstruction of microtubule-organelle interaction in whole primary mouse beta cells		1
7	An open-access volume electron microscopy atlas of whole cells and tissues		3
6	miR-132 controls pancreatic beta cell proliferation and survival in mouse model through the Pten/Akt/Foxo3 signaling		1
5	FLIM-based pH measurements reveal incretin-induced rejuvenation of aged insulin secretory granules		5
4	Chromatin 3D interaction analysis of the STARD10 locus unveils FCHSD2 as a new regulator of insulin secretion		2
3	Purification of age-distinct insulin secretory granules through antigen restriction using the CLIP-tag		1
2	Content-Aware Image Restoration: Pushing the Limits of Fluorescence Microscopy		13
1	Sequential in vivo labeling of insulin secretory granule pools in INS-SNAP transgenic pigs		1