

Michele Solimena

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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	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
115	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
114	Content-aware image restoration: pushing the limits of fluorescence microscopy. <i>Nature Methods</i> , 2018 , 15, 1090-1097	21.6	369
113	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
112	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
111	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
110	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
109	Autoimmunity to gephyrin in Stiff-Man syndrome. <i>Neuron</i> , 2000 , 26, 307-12	13.9	170
108	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
107	Polypyrimidine tract-binding protein promotes insulin secretory granule biogenesis. <i>Nature Cell Biology</i> , 2004 , 6, 207-14	23.4	137
106	MFR, a putative receptor mediating the fusion of macrophages. <i>Molecular and Cellular Biology</i> , 1998 , 18, 6213-23	4.8	133
105	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
104	The insulin secretory granule as a signaling hub. <i>Trends in Endocrinology and Metabolism</i> , 2010 , 21, 599-608	12.5	125
103	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
102	BetaIVSigma1 spectrin stabilizes the nodes of Ranvier and axon initial segments. <i>Journal of Cell Biology</i> , 2004 , 166, 983-90	7.3	113
101	Sudden death and paroxysmal autonomic dysfunction in stiff-man syndrome. <i>Journal of Neurology</i> , 1991 , 238, 91-6	5.5	94
100	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

99	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
98	Adaptive lipid packing and bioactivity in membrane domains. <i>PLoS ONE</i> , 2015 , 10, e0123930	3.7	70
97	Biogenesis of secretory granules. <i>Current Opinion in Cell Biology</i> , 2006 , 18, 365-70	9	69
96	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
95	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
94	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
93	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
92	Pancreas islets in metabolic signaling--focus on the beta-cell. <i>Frontiers in Bioscience - Landmark</i> , 2008 , 13, 7156-71	2.8	64
91	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
90	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
89	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
88	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
87	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
86	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
85	A human beta cell line with drug inducible excision of immortalizing transgenes. <i>Molecular Metabolism</i> , 2015 , 4, 916-25	8.8	47
84	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
83	Age-dependent labeling and imaging of insulin secretory granules. <i>Diabetes</i> , 2013 , 62, 3687-96	0.9	44
82	Tamoxifen-independent recombination in the RIP-CreER mouse. <i>PLoS ONE</i> , 2010 , 5, e13533	3.7	43

81	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
80	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
79	Human stiff-person syndrome IgG induces anxious behavior in rats. <i>PLoS ONE</i> , 2011 , 6, e16775	3.7	42
78	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
77	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
76	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
75	Viral infiltration of pancreatic islets in patients with COVID-19. <i>Nature Communications</i> , 2021 , 12, 3534	17.4	34
74	Mechanisms of Beta Cell Dysfunction Associated With Viral Infection. <i>Current Diabetes Reports</i> , 2015 , 15, 73	5.6	33
73	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
72	PTBP1 is required for embryonic development before gastrulation. <i>PLoS ONE</i> , 2011 , 6, e16992	3.7	33
71	β -Syntrophin is a Cdk5 substrate that restrains the motility of insulin secretory granules. <i>PLoS ONE</i> , 2010 , 5, e12929	3.7	32
70	Virus-like infection induces human β cell dedifferentiation. <i>JCI Insight</i> , 2018 , 3,	9.9	32
69	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
68	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
67	GAD, diabetes, and Stiff-Man syndrome: some progress and more questions. <i>Journal of Endocrinological Investigation</i> , 1994 , 17, 509-20	5.2	28
66	PTBP1 is required for glucose-stimulated cap-independent translation of insulin granule proteins and Coxsackieviruses in beta cells. <i>Molecular Metabolism</i> , 2014 , 3, 518-30	8.8	27
65	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
64	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

63	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
62	Coxsackieviruses and diabetes. <i>Nature Medicine</i> , 1995 , 1, 25-6	50.5	23
61	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
60	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
59	Genetics of susceptibility and resistance to insulin-dependent diabetes in stiff-man syndrome. <i>Lancet, The</i> , 1994 , 344, 1027-8	40	20
58	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
57	Automated suppression of sample-related artifacts in Fluorescence Correlation Spectroscopy. <i>Optics Express</i> , 2010 , 18, 11073-82	3.3	19
56	Vesicular autoantigens of type 1 diabetes. <i>Diabetes/metabolism Reviews</i> , 1998 , 14, 227-40		18
55	Effect of oxygenated perfluorocarbons on isolated rat pancreatic islets in culture. <i>Cell Transplantation</i> , 2005 , 14, 441-8	4	17
54	The making of insulin in health and disease. <i>Diabetologia</i> , 2020 , 63, 1981-1989	10.3	17
53	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
52	Regulation of β cell function by RNA-binding proteins. <i>Molecular Metabolism</i> , 2013 , 2, 348-55	8.8	16
51	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
50	Cholesterol-enriched membrane rafts and insulin secretion. <i>Journal of Diabetes Investigation</i> , 2012 , 3, 339-46	3.9	15
49	Improved protocol for laser microdissection of human pancreatic islets from surgical specimens. <i>Journal of Visualized Experiments</i> , 2013 ,	1.6	15
48	Impaired insulin turnover in islets from type 2 diabetic patients. <i>Islets</i> , 2010 , 2, 30-6	2	15
47	Secretory granules: and the last shall be first. <i>Trends in Cell Biology</i> , 2003 , 13, 399-402	18.3	15
46	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

45	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
44	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
43	A Spatial Model of Insulin-Granule Dynamics in Pancreatic β Cells. <i>Traffic</i> , 2015 , 16, 797-813	5.7	13
42	Content-Aware Image Restoration: Pushing the Limits of Fluorescence Microscopy		13
41	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
40	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
39	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
38	An open-access volume electron microscopy atlas of whole cells and tissues. <i>Nature</i> , 2021 , 599, 147-151	50.4	12
37	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
36	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
35	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
34	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
33	Aldehyde dehydrogenase activity is necessary for beta cell development and functionality in mice. <i>Diabetologia</i> , 2016 , 59, 139-150	10.3	9
32	Fostering improved human islet research: a European perspective. <i>Diabetologia</i> , 2019 , 62, 1514-1516	10.3	9
31	Functional assessment of automatically sorted pancreatic islets using large particle flow cytometry. <i>Islets</i> , 2011 , 3, 267-70	2	8
30	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
29	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
28	Effects of immunosuppression on alpha and beta cell renewal in transplanted mouse islets. <i>Diabetologia</i> , 2013 , 56, 1596-604	10.3	7

27	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
26	Melatonin promotes regeneration of injured motor axons via MT receptors. <i>Journal of Pineal Research</i> , 2021 , 70, e12695	10.4	6
25	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
24	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
23	FLIM-based pH measurements reveal incretin-induced rejuvenation of aged insulin secretory granules		5
22	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
21	MiR-375-mediated suppression of engineered coxsackievirus B3 in pancreatic cells. <i>FEBS Letters</i> , 2020 , 594, 763-775	3.8	5
20	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
19	X-ray structure of the mature ectodomain of phogrin. <i>Journal of Structural and Functional Genomics</i> , 2015 , 16, 1-9		4
18	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
17	Isolation of human islets from partially pancreatectomized patients. <i>Journal of Visualized Experiments</i> , 2011 ,	1.6	4
16	Sequential in vivo labeling of insulin secretory granule pools in - transgenic pigs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	4
15	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
14	An open-access volume electron microscopy atlas of whole cells and tissues		3
13	Insulin release: shedding light on a complex matter. <i>Cell Metabolism</i> , 2010 , 12, 5-6	24.6	2
12	Metabolic implications of pancreatic fat accumulation. <i>Nature Reviews Endocrinology</i> , 2022 , 18, 43-54	15.2	2
11	Chromatin 3D interaction analysis of the STARD10 locus unveils FCHSD2 as a new regulator of insulin secretion		2
10	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

9	Synaptic autoimmunity and the Salk factor. <i>Neuron</i> , 2000 , 28, 309-10	13.9	1
8	3D FIB-SEM reconstruction of microtubule-organelle interaction in whole primary mouse beta cells		1
7	Plasma triacylglycerols are biomarkers of β cell function in mice and humans. <i>Molecular Metabolism</i> , 2021 , 54, 101355	8.8	1
6	miR-132 controls pancreatic beta cell proliferation and survival in mouse model through the Pten/Akt/Foxo3 signaling		1
5	Purification of age-distinct insulin secretory granules through antigen restriction using the CLIP-tag		1
4	Sequential in vivo labeling of insulin secretory granule pools in INS-SNAP transgenic pigs		1
3	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
2	The German Gestational Diabetes Study (PREG), a prospective multicentre cohort study: rationale, methodology and design.. <i>BMJ Open</i> , 2022 , 12, e058268	3	0
1	Schutz und Regeneration der Betazellen. <i>Diabetes Aktuell</i> , 2021 , 19, 86-89		0