

Michele Solimena

List of Publications by Year in descending order

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Version: 2024-02-01

113
papers

9,211
citations

57631

44
h-index

42291

92
g-index

127
all docs

127
docs citations

127
times ranked

10161
citing authors

#	ARTICLE	IF	CITATIONS
1	Metabolic implications of pancreatic fat accumulation. <i>Nature Reviews Endocrinology</i> , 2022, 18, 43-54.	4.3	46
2	The Impact of Pancreatic Head Resection on Blood Glucose Homeostasis in Patients with Chronic Pancreatitis. <i>Journal of Clinical Medicine</i> , 2022, 11, 663.	1.0	2
3	The German Gestational Diabetes Study (PREG), a prospective multicentre cohort study: rationale, methodology and design. <i>BMJ Open</i> , 2022, 12, e058268.	0.8	5
4	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.	2.9	3
5	Melatonin promotes regeneration of injured motor axons via MT ₁ receptors. <i>Journal of Pineal Research</i> , 2021, 70, e12695.	3.4	21
6	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.	1.4	14
7	Chromatin 3D interaction analysis of the STARD10 locus unveils FCHSD2 as a regulator of insulin secretion. <i>Cell Reports</i> , 2021, 34, 108703.	2.9	4
8	Viral infiltration of pancreatic islets in patients with COVID-19. <i>Nature Communications</i> , 2021, 12, 3534.	5.8	120
9	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
10	Sequential in vivo labeling of insulin secretory granule pools in <i>INS-SNAP</i> transgenic pigs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	7
11	3D FIB-SEM reconstruction of microtubule-“organelle” interaction in whole primary mouse β cells. <i>Journal of Cell Biology</i> , 2021, 220, .	2.3	64
12	An open-access volume electron microscopy atlas of whole cells and tissues. <i>Nature</i> , 2021, 599, 147-151.	13.7	80
13	Plasma triacylglycerols are biomarkers of β -cell function in mice and humans. <i>Molecular Metabolism</i> , 2021, 54, 101355.	3.0	17
14	MiR-375-mediated suppression of engineered coxsackievirus B3 in pancreatic cells. <i>FEBS Letters</i> , 2020, 594, 763-775.	1.3	9
15	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.	1.8	16
16	MiR-132 controls pancreatic beta cell proliferation and survival through Pten/Akt/Foxo3 signaling. <i>Molecular Metabolism</i> , 2020, 31, 150-162.	3.0	41
17	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.	1.3	9
18	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.	2.9	65

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19	The making of insulin in health and disease. <i>Diabetologia</i> , 2020, 63, 1981-1989.	2.9	48
20	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.	3.0	22
21	Dysfunction of Persisting β^2 Cells Is a Key Feature of Early Type 2 Diabetes Pathogenesis. <i>Cell Reports</i> , 2020, 31, 107469.	2.9	93
22	Fostering improved human islet research: a European perspective. <i>Diabetologia</i> , 2019, 62, 1514-1516.	2.9	13
23	Metabolically phenotyped pancreatectomized patients as living donors for the study of islets in health and diabetes. <i>Molecular Metabolism</i> , 2019, 27, S1-S6.	3.0	12
24	Atp6ap2 deletion causes extensive vacuolation that consumes the insulin content of pancreatic β^2 cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 19983-19988.	3.3	23
25	ICA512 RESP18 homology domain is a protein-condensing factor and insulin fibrillation inhibitor. <i>Journal of Biological Chemistry</i> , 2019, 294, 8564-8576.	1.6	10
26	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
27	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.	3.4	14
28	The RNA-binding protein PTBP1 is necessary for B cell selection in germinal centers. <i>Nature Immunology</i> , 2018, 19, 267-278.	7.0	63
29	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
30	Content-aware image restoration: pushing the limits of fluorescence microscopy. <i>Nature Methods</i> , 2018, 15, 1090-1097.	9.0	758
31	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.	1.8	42
32	Virus-like infection induces human β^2 cell dedifferentiation. <i>JCI Insight</i> , 2018, 3, .	2.3	53
33	Decreased STARD10 Expression Is Associated with Defective Insulin Secretion in Humans and Mice. <i>American Journal of Human Genetics</i> , 2017, 100, 238-256.	2.6	60
34	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.	1.4	65
35	A 4D view on insulin secretory granule turnover in the β^2 cell. <i>Diabetes, Obesity and Metabolism</i> , 2017, 19, 107-114.	2.2	21
36	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.	3.3	85

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37	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.	1.6	43
38	The splice factor PTBP1 regulates hematopoietic stem cell function and red blood cell development. <i>Experimental Hematology</i> , 2016, 44, S95-S96.	0.2	0
39	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.	3.0	19
40	Aldehyde dehydrogenase activity is necessary for beta cell development and functionality in mice. <i>Diabetologia</i> , 2016, 59, 139-150.	2.9	17
41	Biochemical, biophysical, and functional properties of ICA512/IA-2 RESP18 homology domain. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2016, 1864, 511-522.	1.1	10
42	A Spatial Model of Insulin Granule Dynamics in Pancreatic β Cells. <i>Traffic</i> , 2015, 16, 797-813.	1.3	16
43	A human beta cell line with drug inducible excision of immortalizing transgenes. <i>Molecular Metabolism</i> , 2015, 4, 916-925.	3.0	69
44	Blood Glucose Homeostasis in the Course of Partial Pancreatectomy – Evidence for Surgically Reversible Diabetes Induced by Cholestasis. <i>PLoS ONE</i> , 2015, 10, e0134140.	1.1	16
45	Stability of proICA512/IA-2 and Its Targeting to Insulin Secretory Granules Require β 24-Sheet-Mediated Dimerization of Its Ectodomain in the Endoplasmic Reticulum. <i>Molecular and Cellular Biology</i> , 2015, 35, 914-927.	1.1	13
46	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.	3.3	63
47	X-ray structure of the mature ectodomain of phogrin. <i>Journal of Structural and Functional Genomics</i> , 2015, 16, 1-9.	1.2	8
48	Mechanisms of Beta Cell Dysfunction Associated With Viral Infection. <i>Current Diabetes Reports</i> , 2015, 15, 73.	1.7	43
49	Adaptive Lipid Packing and Bioactivity in Membrane Domains. <i>PLoS ONE</i> , 2015, 10, e0123930.	1.1	96
50	Using pancreas tissue slices for in situ studies of islet of Langerhans and acinar cell biology. <i>Nature Protocols</i> , 2014, 9, 2809-2822.	5.5	94
51	PTBP1 is required for glucose-stimulated cap-independent translation of insulin granule proteins and Coxsackieviruses in beta cells. <i>Molecular Metabolism</i> , 2014, 3, 518-530.	3.0	39
52	Regulation of β -cell function by RNA-binding proteins. <i>Molecular Metabolism</i> , 2013, 2, 348-355.	3.0	36
53	Transplantation of human islets without immunosuppression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 19054-19058.	3.3	261
54	Age-Dependent Labeling and Imaging of Insulin Secretory Granules. <i>Diabetes</i> , 2013, 62, 3687-3696.	0.3	58

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55	Effects of immunosuppression on alpha and beta cell renewal in transplanted mouse islets. <i>Diabetologia</i> , 2013, 56, 1596-1604.	2.9	10
56	The Complement Anaphylatoxin C5a Receptor Contributes to Obese Adipose Tissue Inflammation and Insulin Resistance. <i>Journal of Immunology</i> , 2013, 191, 4367-4374.	0.4	97
57	Improved Protocol For Laser Microdissection Of Human Pancreatic Islets From Surgical Specimens. <i>Journal of Visualized Experiments</i> , 2013, , .	0.2	19
58	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.	1.6	14
59	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, 41808-41819.	1.6	31
60	Cholesterol-enriched membrane rafts and insulin secretion. <i>Journal of Diabetes Investigation</i> , 2012, 3, 339-346.	1.1	21
61	Polymorphism rs11085226 in the Gene Encoding Polypyrimidine Tract-Binding Protein 1 Negatively Affects Glucose-Stimulated Insulin Secretion. <i>PLoS ONE</i> , 2012, 7, e46154.	1.1	8
62	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, 1013-1023.	2.9	59
63	Isolation of Human Islets from Partially Pancreatectomized Patients. <i>Journal of Visualized Experiments</i> , 2011, , .	0.2	5
64	PTBP1 Is Required for Embryonic Development before Gastrulation. <i>PLoS ONE</i> , 2011, 6, e16992.	1.1	44
65	Protein-Protein Interactions in Crystals of the Human Receptor-Type Protein Tyrosine Phosphatase ICA512 Ectodomain. <i>PLoS ONE</i> , 2011, 6, e24191.	1.1	6
66	Functional assessment of automatically sorted pancreatic islets using large particle flow cytometry. <i>Islets</i> , 2011, 3, 267-270.	0.9	10
67	Human Stiff-Person Syndrome IgG Induces Anxious Behavior in Rats. <i>PLoS ONE</i> , 2011, 6, e16775.	1.1	50
68	Î²2-Syntrophin Is a Cdk5 Substrate That Restrains the Motility of Insulin Secretory Granules. <i>PLoS ONE</i> , 2010, 5, e12929.	1.1	40
69	Impaired insulin turnover in islets from type 2 diabetic patients. <i>Islets</i> , 2010, 2, 30-36.	0.9	20
70	Automated suppression of sample-related artifacts in Fluorescence Correlation Spectroscopy. <i>Optics Express</i> , 2010, 18, 11073.	1.7	26
71	Insulin Release: Shedding Light on a Complex Matter. <i>Cell Metabolism</i> , 2010, 12, 5-6.	7.2	4
72	The insulin secretory granule as a signaling hub. <i>Trends in Endocrinology and Metabolism</i> , 2010, 21, 599-609.	3.1	163

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73	Tamoxifen-Independent Recombination in the RIP-CreER Mouse. <i>PLoS ONE</i> , 2010, 5, e13533.	1.1	51
74	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.	2.5	14
75	β -Cells at the crossroads: choosing between insulin granule production and proliferation. <i>Diabetes, Obesity and Metabolism</i> , 2009, 11, 54-64.	2.2	17
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.	1.6	48
77	ICA512 signaling enhances pancreatic β -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, 674-679.	3.3	53
78	Regulation of Insulin Granule Turnover in Pancreatic β -Cells by Cleaved ICA512. <i>Journal of Biological Chemistry</i> , 2008, 283, 33719-33729.	1.6	32
79	Pancreas islets in metabolic signaling - focus on the beta-cell. <i>Frontiers in Bioscience - Landmark</i> , 2008, Volume, 7156.	3.0	75
80	Pancreas islets in metabolic signaling - focus on the β -cell. <i>Nature Precedings</i> , 2008, , .	0.1	0
81	Pancreas islets in metabolic signaling - focus on the β -cell. <i>Nature Precedings</i> , 2008, , .	0.1	1
82	cAMP-dependent phosphorylation of PTB1 promotes the expression of insulin secretory granule proteins in β cells. <i>Cell Metabolism</i> , 2006, 3, 123-134.	7.2	75
83	Synergy of glucose and growth hormone signalling in islet cells through ICA512 and STAT5. <i>Nature Cell Biology</i> , 2006, 8, 435-445.	4.6	74
84	Biogenesis of secretory granules. <i>Current Opinion in Cell Biology</i> , 2006, 18, 365-370.	2.6	82
85	Effect of Oxygenated Perfluorocarbons on Isolated Rat Pancreatic Islets in Culture. <i>Cell Transplantation</i> , 2005, 14, 441-448.	1.2	19
86	An enzymatic cascade of Rab5 effectors regulates phosphoinositide turnover in the endocytic pathway. <i>Journal of Cell Biology</i> , 2005, 170, 607-618.	2.3	354
87	β IV spectrin stabilizes the nodes of Ranvier and axon initial segments. <i>Journal of Cell Biology</i> , 2004, 166, 983-990.	2.3	124
88	Nuclear translocation of an ICA512 cytosolic fragment couples granule exocytosis and insulin expression in β -cells. <i>Journal of Cell Biology</i> , 2004, 167, 1063-1074.	2.3	70
89	β IV Spectrins Are Essential for Membrane Stability and the Molecular Organization of Nodes of Ranvier. <i>Journal of Neuroscience</i> , 2004, 24, 7230-7240.	1.7	125
90	Polypyrimidine tract-binding protein promotes insulin secretory granule biogenesis. <i>Nature Cell Biology</i> , 2004, 6, 207-214.	4.6	155

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91	Secretory granules: and the last shall be first. Trends in Cell Biology, 2003, 13, 399-402.	3.6	15
92	Islet Cell Autoantigen of 69 kDa Is an Arfaptin-related Protein Associated with the Golgi Complex of Insulinoma INS-1 Cells. Journal of Biological Chemistry, 2003, 278, 26166-26173.	1.6	33
93	The receptor tyrosine phosphatase-like protein ICA512 binds the PDZ domains of β 2-syntrophin and nNOS in pancreatic β -cells. European Journal of Cell Biology, 2000, 79, 621-630.	1.6	58
94	β iv Spectrin, a New Spectrin Localized at Axon Initial Segments and Nodes of Ranvier in the Central and Peripheral Nervous System. Journal of Cell Biology, 2000, 151, 985-1002.	2.3	242
95	Synaptic Autoimmunity and the Salk Factor. Neuron, 2000, 28, 309-316.	3.8	2
96	Autoimmunity to Gephyrin in Stiff-Man Syndrome. Neuron, 2000, 26, 307-312.	3.8	195
97	Post-translational modifications of ICA512, a receptor tyrosine phosphatase-like protein of secretory granules. European Journal of Neuroscience, 1999, 11, 2609-2620.	1.2	43
98	Molecular dissection of regulated secretory pathways in human gastric enterochromaffin-like cells: an immunohistochemical analysis. Histochemistry and Cell Biology, 1999, 112, 205-214.	0.8	16
99	Vesicular autoantigens of Type 1 diabetes. , 1998, 14, 227-240.		21
100	MFR, a Putative Receptor Mediating the Fusion of Macrophages. Molecular and Cellular Biology, 1998, 18, 6213-6223.	1.1	139
101	STEP ₆₁ : A Member of a Family of Brain-Enriched PTPs Is Localized to the Endoplasmic Reticulum. Journal of Neuroscience, 1996, 16, 7821-7831.	1.7	74
102	From Th1 to Th2: Diabetes immunotherapy shifts gears. Nature Medicine, 1996, 2, 1311-1312.	15.2	5
103	Coxsackieviruses and diabetes. Nature Medicine, 1995, 1, 25-26.	15.2	25
104	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. Journal of Biological Chemistry, 1995, 270, 2241-2246.	1.6	74
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. FEBS Letters, 1994, 351, 73-79.	1.3	137
106	Genetics of susceptibility and resistance to insulin-dependent diabetes in stiff-man syndrome. Lancet, The, 1994, 344, 1027-1028.	6.3	30
107	GAD, diabetes, and Stiff-Man syndrome: Some progress and more questions. Journal of Endocrinological Investigation, 1994, 17, 509-520.	1.8	29
108	Spotlight on a neuronal enzyme. Nature, 1993, 366, 15-17.	13.7	29

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109	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, 546-551.	13.9	327
110	Autoimmunity to glutamic acid decarboxylase (GAD) in stiffman syndrome and insulin-dependent diabetes mellitus. <i>Trends in Neurosciences</i> , 1991, 14, 452-457.	4.2	177
111	Sudden death and paroxysmal autonomic dysfunction in stiff-man syndrome. <i>Journal of Neurology</i> , 1991, 238, 91-96.	1.8	105
112	Identification of the 64K autoantigen in insulin-dependent diabetes as the GABA-synthesizing enzyme glutamic acid decarboxylase. <i>Nature</i> , 1990, 347, 151-156.	13.7	1,675
113	Autoantibodies to GABA-ergic Neurons and Pancreatic Beta Cells in Stiff-Man Syndrome. <i>New England Journal of Medicine</i> , 1990, 322, 1555-1560.	13.9	684