Franz Martin

List of Publications by Year
in descending order

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112 papers	4,441 citations	101543 36 h-index	114465 63 g-index
114 all docs	114 docs citations	114 times ranked	5372 citing authors

#	Article	IF	Citations
1	Insulin-secreting cells derived from embryonic stem cells normalize glycemia in streptozotocin-induced diabetic mice.. Diabetes, 2000, 49, 157-162.	0.6	845
2	Differentiation of In Vitroâ€“Modified Human Peripheral Blood Monocytes Into Hepatocyteâ€“like and Pancreatic Islet-like Cells. Gastroenterology, 2005, 128, 1774-1786.	1.3	194
3	From stem cells to beta cells: new strategies in cell therapy of diabetes mellitus. Diabetologia, 2001, 44, 407-415.	6.3	164
4	GATA4 and GATA6 control mouse pancreas organogenesis. Journal of Clinical Investigation, 2012, 122, 3504-3515.	8.2	135
5	Junctional communication of pancreatic Î² cells contributes to the control of insulin secretion and glucose tolerance. Journal of Clinical Investigation, 2000, 106, 235-243.	8.2	123
6	Taurine supplementation modulates glucose homeostasis and islet function. Journal of Nutritional Biochemistry, 2009, 20, 503-511.	4.2	122
7	A role for calcium release-activated current (CRAC) in cholinergic modulation of electrical activity in pancreatic beta-cells. Biophysical Journal, 1995, 68, 2323-2332.	0.5	102
8	Induction of Differentiation of Embryonic Stem Cells into Insulin-Secreting Cells by Fetal Soluble Factors. Stem Cells, 2006, 24, 258-265.	3.2	100
9	Glucose Induces Opposite Intracellular Ca2+Concentration Oscillatory Patterns in Identified Î±- and Î²-Cells Within Intact Human Islets of Langerhans. Diabetes, 2006, 55, 2463-2469.	0.6	89
10	Fermented Orange Juice: Source of Higher Carotenoid and Flavanone Contents. Journal of Agricultural and Food Chemistry, 2013, 61, 8773-8782.	5.2	84
11	Nuclear K _{ATP} channels trigger nuclear Ca ²⁺ transients that modulate nuclear function. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 9544-9549.	7.1	82
12	Glucoseminduced [Ca2+]i oscillations in single human pancreatic islets. Cell Calcium, 1996, 20, 409-414.	2.4	73
13	Consumption of extra-virgin olive oil rich in phenolic compounds has beneficial antioxidant effects in healthy human adults. Journal of Functional Foods, 2014, 10, 475-484.	3.4	73
14	Extra virgin olive oil (EVOO) consumption and antioxidant status in healthy institutionalized elderly humans. Archives of Gerontology and Geriatrics, 2013, 57, 234-242.	3.0	72
15	Nutrigenetics and Nutrigenomics Insights into Diabetes Etiopathogenesis. Nutrients, 2014, 6, 5338-5369.	4.1	70
16	Role of syntaxin in mouse pancreatic beta cells. Diabetologia, 1995, 38, 860-863.	6.3	65
17	Nitric oxide repression of Nanog promotes mouse embryonic stem cell differentiation. Cell Death and Differentiation, 2010, 17, 1025-1033.	11.2	64
18	Low concentrations of nitric oxide delay the differentiation of embryonic stem cells and promote their survival. Cell Death and Disease, 2010, 1, e80-e80.	6.3	62

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19	Alcoholic fermentation induces melatonin synthesis in orange juice. Journal of Pineal Research, 2014, 56, 31-38.	7.4	59
20	Transcriptional control of mammalian pancreas organogenesis. Cellular and Molecular Life Sciences, 2014, 71, 2383-2402.	5.4	58
21	PDGF Restores the Defective Phenotype of Adipose-Derived Mesenchymal Stromal Cells from Diabetic Patients. Molecular Therapy, 2018, 26, 2696-2709.	8.2	56
22	Changes in Antioxidant Endogenous Enzymes (Activity and Gene Expression Levels) after Repeated Red Wine Intake. Journal of Agricultural and Food Chemistry, 2009, 57, 6578-6583.	5.2	54
23	Slow [Ca2+]i Oscillations Induced by Ketoisocaproate in Single Mouse Pancreatic Islets. Diabetes, 1995, 44, 300-305.	0.6	53
24	GATA4 loss in the septum transversum mesenchyme promotes liver fibrosis in mice. Hepatology, 2014, 59, 2358-2370.	7.3	53
25	Nicotinamide induces differentiation of embryonic stem cells into insulin-secreting cells. Experimental Cell Research, 2008, 314, 969-974.	2.6	52
26	Cost-Effective, Safe, and Personalized Cell Therapy for Critical Limb Ischemia in Type 2 Diabetes Mellitus. Frontiers in Immunology, 2019, 10, 1151.	4.8	52
27	Engineering pancreatic islets. Pflugers Archiv European Journal of Physiology, 2000, 440, 1-18.	2.8	51
28	Gene-Diet Interactions in Type 2 Diabetes: The Chicken and Egg Debate. International Journal of Molecular Sciences, 2017, 18, 1188.	4.1	48
29	Transforming growth factor (TGF)beta, fibroblast growth factor (FGF) and retinoid signalling pathways promote pancreatic exocrine gene expression in mouse embryonic stem cells. Biochemical Journal, 2004, 379, 749-756.	3.7	47
30	Oestrogen receptor Î² mediates the actions of bisphenol-A on ion channel expression in mouse pancreatic beta cells. Diabetologia, 2019, 62, 1667-1680.	6.3	46
31	Nicotinamide induces both proliferation and differentiation of embryonic stem cells into insulin-producing cells. Transplantation Proceedings, 2003, 35, 2021-2023.	0.6	44
32	Intracellular diadenosine polyphosphates: a novel second messenger in stimulusâ€secretion coupling. FASEB Journal, 1998, 12, 1499-1506.	0.5	43
33	An Extra-Virgin Olive Oil Rich in Polyphenolic Compounds Has Antioxidant Effects in Of1 Mice. Journal of Nutrition, 2008, 138, 1074-1078.	2.9	43
34	Inhibition of insulin release by synthetic peptides shows that the H3 region at the C-terminal domain of syntaxin-1 is crucial for Ca2+- but not for guanosine 5â€²-[Î³-thio]triphosphate-induced secretion. Biochemical Journal, 1996, 320, 201-205.	3.7	40
35	Direct transcriptional regulation of Gata4 during early endoderm specification is controlled by FoxA2 binding to an intronic enhancer. Developmental Biology, 2010, 346, 346-355.	2.0	40
36	Regulation of pancreatic Î²-cell electrical activity and insulin release by physiological amino acid concentrations. Pflugers Archiv European Journal of Physiology, 1997, 433, 699-704.	2.8	38

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37	An extra virgin olive oil rich diet intervention ameliorates the nonalcoholic steatohepatitis induced by a highâ€fat â€œWesternâ€typeâ€•diet in mice. Molecular Nutrition and Food Research, 2017, 61, 1600549.	3.3	37
38	Extraâ€Virgin Olive Oil with Natural Phenolic Content Exerts an Antiâ€Inflammatory Effect in Adipose Tissue and Attenuates the Severity of Atherosclerotic Lesions in Ldlrâ^'/â^'.Leiden Mice. Molecular Nutrition and Food Research, 2018, 62, e1800295.	3.3	36
39	Mechanisms of glucose hypersensitivity in beta-cells from normoglycemic, partially pancreatectomized mice. Diabetes, 1999, 48, 1954-1961.	0.6	33
40	Effect of thermal processing on the profile of bioactive compounds and antioxidant capacity of fermented orange juice. International Journal of Food Sciences and Nutrition, 2016, 67, 779-788.	2.8	33
41	miR-7 Modulates hESC Differentiation into Insulin-Producing Beta-like Cells and Contributes to Cell Maturation. Molecular Therapy - Nucleic Acids, 2018, 12, 463-477.	5.1	33
42	Nutrient modulation of polarized and sustained submembrane Ca 2+ microgradients in mouse pancreatic islet cells. Journal of Physiology, 2000, 525, 159-167.	2.9	31
43	Consumption of orange fermented beverage reduces cardiovascular risk factors in healthy mice. Food and Chemical Toxicology, 2015, 78, 78-85.	3.6	30
44	Secretagogue-induced [Ca2+]i changes in single rat pancreatic islets and correlation with simultaneously measured insulin release. Journal of Molecular Endocrinology, 1995, 15, 177-185.	2.5	29
45	Effects of calcium buffering on glucose-induced insulin release in mouse pancreatic islets: an approximation to the calcium sensor. Journal of Physiology, 1999, 520, 473-483.	2.9	26
46	Stem cells and diabetes. Biomedicine and Pharmacotherapy, 2001, 55, 206-212.	5.6	26
47	GATA6 Controls Insulin Biosynthesis and Secretion in Adult Î²-Cells. Diabetes, 2018, 67, 448-460.	0.6	25
48	Islet Cell Development. Advances in Experimental Medicine and Biology, 2010, 654, 59-75.	1.6	24
49	Extra virgin olive oil diet intervention improves insulin resistance and islet performance in diet-induced diabetes in mice. Scientific Reports, 2019, 9, 11311.	3.3	23
50	Nutrient toxicity in pancreatic Î²-cell dysfunction. Journal of Physiology and Biochemistry, 2000, 56, 119-128.	3.0	22
51	Cell Therapy for Diabetes Mellitus: An Opportunity for Stem Cells?. Cells Tissues Organs, 2008, 188, 70-77.	2.3	22
52	Zebularine regulates early stages of mESC differentiation: effect on cardiac commitment. Cell Death and Disease, 2013, 4, e570-e570.	6.3	21
53	Role of nitric oxide in the maintenance of pluripotency and regulation of the hypoxia response in stem cells. World Journal of Stem Cells, 2015, 7, 605.	2.8	21
54	Î²-Cryptoxanthin is more bioavailable in humans from fermented orange juice than from orange juice. Food Chemistry, 2018, 262, 215-220.	8.2	21

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55	Magnesium accumulation upon cyclin M4 silencing activates microsomal triglyceride transfer protein improving NASH. Journal of Hepatology, 2021, 75, 34-45.	3.7	21
56	Novel Players in Pancreatic Islet Signaling: From Membrane Receptors to Nuclear Channels. Diabetes, 2004, 53, S86-S91.	0.6	20
57	Consumption of orange fermented beverage improves antioxidant status and reduces peroxidation lipid and inflammatory markers in healthy humans. Journal of the Science of Food and Agriculture, 2018, 98, 2777-2786.	3.5	20
58	Cytosolic Ca2+Gradients in Pancreatic Islet-Cells Stimulated by Glucose and Carbachol. Biochemical and Biophysical Research Communications, 1997, 235, 465-468.	2.1	19
59	Using stem cells to produce insulin. Expert Opinion on Biological Therapy, 2015, 15, 1469-1489.	3.1	19
60	Nitric oxide mediates the survival action of IGF-1 and insulin in pancreatic Î² cells. Cellular Signalling, 2008, 20, 301-310.	3.6	18
61	Nutrients Induce Different Ca2+ Signals in Cytosol and Nucleus in Pancreatic Â-Cells. Diabetes, 2004, 53, S92-S95.	0.6	17
62	Cryobanking the genetic diversity in the critically endangered Iberian lynx (Lynx pardinus) from skin biopsies. Investigating the cryopreservation and culture ability of highly valuable explants and cells. Cryobiology, 2011, 62, 145-151.	0.7	17
63	Zn2+ chelation by serum albumin improves hexameric Zn2+-insulin dissociation into monomers after exocytosis. PLoS ONE, 2017, 12, e0187547.	2.5	17
64	The metabesity factor HMG20A potentiates astrocyte survival and reactive astrogliosis preserving neuronal integrity. Theranostics, 2021, 11, 6983-7004.	10.0	16
65	Differentiation of Mouse Embryonic Stem Cells toward Functional Pancreatic Î²-Cell Surrogates through Epigenetic Regulation ofPdx1by Nitric Oxide. Cell Transplantation, 2016, 25, 1879-1892.	2.5	15
66	Nitric Oxide Prevents Mouse Embryonic Stem Cell Differentiation Through Regulation of Gene Expression, Cell Signaling, and Control of Cell Proliferation. Journal of Cellular Biochemistry, 2016, 117, 2078-2088.	2.6	15
67	Slow [Ca2+]i oscillations induced by ketoisocaproate in single mouse pancreatic islets. Diabetes, 1995, 44, 300-305.	0.6	15
68	Direct Visualization by Confocal Fluorescent Microscopy of the Permeation of Myristoylated Peptides Through the Cell Membrane. IUBMB Life, 2002, 54, 33-36.	3.4	14
69	Similar effects of succinic acid dimethyl ester and glucose on islet calcium oscillations and insulin release. Biochemical Pharmacology, 2004, 67, 981-988.	4.4	14
70	Effect of Alcoholic Fermentation on the Carotenoid Composition and Provitamin A Content of Orange Juice. Journal of Agricultural and Food Chemistry, 2014, 62, 842-849.	5.2	14
71	Antioxidant Activity and Nutritional Status in Anorexia Nervosa: Effects of Weight Recovery. Nutrients, 2015, 7, 2193-2208.	4.1	14
72	Extra virgin olive oil improved body weight and insulin sensitivity in high fat diet-induced obese LDLrâ^'/â^'.Leiden mice without attenuation of steatohepatitis. Scientific Reports, 2021, 11, 8250.	3.3	14

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73	Thimerosal induces calcium mobilization, fructose 2,6-bisphosphate synthesis and cytoplasmic alkalinization in rat thymus lymphocytes. Biochimica Et Biophysica Acta - Molecular Cell Research, 1991, 1091, 110-114.	4.1	13
74	Pancreatic islet cells: A model for calciumâ€dependent peptide release. HFSP Journal, 2010, 4, 52-60.	2.5	13
75	Alkylphospholipids deregulate cholesterol metabolism and induce cell-cycle arrest and autophagy in U-87 MG glioblastoma cells. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2013, 1831, 1322-1334.	2.4	13
76	Gastrointestinal Stem Cells I. Pancreatic stem cells. American Journal of Physiology - Renal Physiology, 2005, 289, G177-G180.	3.4	12
77	Changes in orange juice (poly)phenol composition induced by controlled alcoholic fermentation. Analytical Methods, 2016, 8, 8151-8164.	2.7	12
78	Inadequate control of thyroid hormones sensitizes to hepatocarcinogenesis and unhealthy aging. Aging, 2019, 11, 7746-7779.	3.1	12
79	Diadenosine polyphosphates. A novel class of glucose-induced intracellular messengers in the pancreatic beta-cell. Diabetes, 1996, 45, 1431-1434.	0.6	12
80	Mechanisms of action of Cyclosporin A on islet Î±- and Î²-cells effects on cAMP- and calcium-dependent pathways. Life Sciences, 1991, 49, 1915-1921.	4.3	11
81	Dissecting the Brain/Islet Axis in Metabesity. Genes, 2019, 10, 350.	2.4	11
82	SHORT-TERM EFFECTS OF CYCLOSPORINE ON SECRETAGOGUE-INDUCED INSULIN RELEASE BY ISOLATED ISLETS. Transplantation, 1990, 50, 551-553.	1.0	10
83	Effect of daily intake of a low-alcohol orange beverage on cardiovascular risk factors in hypercholesterolemic humans. Food Research International, 2019, 116, 168-174.	6.2	10
84	Loss of GATA4 causes ectopic pancreas in the stomach. Journal of Pathology, 2020, 250, 362-373.	4.5	10
85	Effect of extra virgin olive oil on glycaemia in healthy young subjects. European Journal of Lipid Science and Technology, 2012, 114, 999-1006.	1.5	9
86	A Role for the Host in the Roadmap to Diabetes Stem Cell Therapy. Diabetes, 2016, 65, 1155-1157.	0.6	9
87	NR5A2/LRH-1 regulates the PTGS2-PGE2-PTGER1 pathway contributing to pancreatic islet survival and function. IScience, 2022, 25, 104345.	4.1	9
88	Effects of cyclosporine a on cyclic AMP generation and GTP-binding proteins in isolated islets. Biochemical Pharmacology, 1992, 44, 359-364.	4.4	8
89	Impact of exposure to low concentrations of nitric oxide on protein profile in murine and human pancreatic islet cells. Islets, 2014, 6, e995997.	1.8	7
90	Transient Downregulation of Nanog and Oct4 Induced by DETA/NO Exposure in Mouse Embryonic Stem Cells Leads to Mesodermal/Endodermal Lineage Differentiation. Stem Cells International, 2014, 2014, 1-11.	2.5	7

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91	Pancreatic differentiation of Pdx1-GFP reporter mouse induced pluripotent stem cells. Differentiation, 2016, 92, 249-256.	1.9	7
92	Orange beverage ameliorates high-fat-diet-induced metabolic disorder in mice. Journal of Functional Foods, 2016, 24, 254-263.	3.4	7
93	Efficacy and safety of intramuscular administration of allogeneic adipose tissue derived and expanded mesenchymal stromal cells in diabetic patients with critical limb ischemia with no possibility of revascularization: study protocol for a randomized controlled double-blind phase II clinical trial (The NOMA Trial). Trials, 2021, 22, 595.	1.6	7
94	Generation of Insulin-Producing Cells from Stem Cells. Novartis Foundation Symposium, 2008, , 158-173.	1.1	4
95	Mesenchymal Stromal Cell-Based Therapies as Promising Treatments for Muscle Regeneration After Snakebite Envenoming. Frontiers in Immunology, 2020, 11, 609961.	4.8	4
96	White Button Mushroom Extracts Modulate Hepatic Fibrosis Progression, Inflammation, and Oxidative Stress In Vitro and in LDLR-/- Mice. Foods, 2021, 10, 1788.	4.3	4
97	Effect of Acute Intake of Fermented Orange Juice on Fasting and Postprandial Glucose Metabolism, Plasma Lipids and Antioxidant Status in Healthy Human. Foods, 2022, 11, 1256.	4.3	4
98	Engineered Peptides Corresponding to Segments of the H3 Domain of Syntaxin Inhibit Insulin Release both in Intact and Permeabilized Mouse Pancreatic Î² Cells. Biochemical and Biophysical Research Communications, 1998, 248, 83-86.	2.1	3
99	Bovine subcommissural organ displays spontaneous and synchronous intracellular calcium oscillations. Brain Research, 2003, 977, 90-96.	2.2	3
100	Consumption of cowsâ€™ milk is associated with lower risk of type 2 diabetes mellitus. A cross-sectional study. International Dairy Journal, 2012, 26, 162-165.	3.0	3
101	L-Type Ca2+ Channels and SK Channels in Mouse Embryonic Stem Cells and Their Contribution to Cell Proliferation. Journal of Membrane Biology, 2015, 248, 671-682.	2.1	3
102	Regulation of Pancreatic Islet Formation. , 2015, , 109-128.		3
103	Stemness of Human Pluripotent Cells: Hypoxia-Like Response Induced by Low Nitric Oxide. Antioxidants, 2021, 10, 1408.	5.1	3
104	Engineering pancreatic islets. Pflugers Archiv European Journal of Physiology, 2000, 440, 1.	2.8	3
105	Diminished fraction of blockable ATP-sensitive K+ channels in islets transplanted into diabetic mice. Diabetes, 1996, 45, 1755-1760.	0.6	3
106	Effects of cyclosporin a on induced hit cell alkalinization. Life Sciences, 1992, 51, 607-613.	4.3	2
107	Stem Cells: Concept, Properties, and Characterization. Essentials in Ophthalmology, 2019, , 41-55.	0.1	1
108	Oscillations of Cytosolic Ca2+ in Pancreatic Islets of Langerhans. Advances in Experimental Medicine and Biology, 1997, 426, 195-202.	1.6	1

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109	The Use of Stem Cells in Cell Therapy. , 0, , 543-558.		0
110	FRI-318-Effects of fatty acids and polyphenols from extra virgin olive oil in a murine animal dietary model knockout for the LDL receptor. Journal of Hepatology, 2019, 70, e536.	3.7	0
111	Regulation of Pancreatic Islet Formation. , 2014, , 1-19.		0
112	Pdx1 Is Transcriptionally Regulated by EGR-1 during Nitric Oxide-Induced Endoderm Differentiation of Mouse Embryonic Stem Cells. International Journal of Molecular Sciences, 2022, 23, 3920.	4.1	0