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	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
2	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
3	NR5A2/LRH-1 regulates the PTGS2-PGE2-PTGER1 pathway contributing to pancreatic islet survival and function. IScience, 2022, 25, 104345.	4.1	9
4	The metabesity factor HMG20A potentiates astrocyte survival and reactive astrogliosis preserving neuronal integrity. Theranostics, 2021, 11, 6983-7004.	10.0	16
5	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
6	Magnesium accumulation upon cyclin M4 silencing activates microsomal triglyceride transfer protein improving NASH. Journal of Hepatology, 2021, 75, 34-45.	3.7	21
7	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
8	Stemness of Human Pluripotent Cells: Hypoxia-Like Response Induced by Low Nitric Oxide. Antioxidants, 2021, 10, 1408.	5.1	3
9	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
10	Loss of GATA4 causes ectopic pancreas in the stomach. Journal of Pathology, 2020, 250, 362-373.	4.5	10
11	Mesenchymal Stromal Cell-Based Therapies as Promising Treatments for Muscle Regeneration After Snakebite Envenoming. Frontiers in Immunology, 2020, 11, 609961.	4.8	4
12	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
13	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
14	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
15	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
16	Dissecting the Brain/Islet Axis in Metabesity. Genes, 2019, 10, 350.	2.4	11
17	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
18	Stem Cells: Concept, Properties, and Characterization. Essentials in Ophthalmology, 2019, , 41-55.	0.1	1

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19	Inadequate control of thyroid hormones sensitizes to hepatocarcinogenesis and unhealthy aging. Aging, 2019, 11, 7746-7779.	3.1	12
20	GATA6 Controls Insulin Biosynthesis and Secretion in Adult Î²-Cells. Diabetes, 2018, 67, 448-460.	0.6	25
21	Î²-Cryptoxanthin is more bioavailable in humans from fermented orange juice than from orange juice. Food Chemistry, 2018, 262, 215-220.	8.2	21
22	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
23	PDGF Restores the Defective Phenotype of Adipose-Derived Mesenchymal Stromal Cells from Diabetic Patients. Molecular Therapy, 2018, 26, 2696-2709.	8.2	56
24	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
25	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
26	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
27	Gene-Diet Interactions in Type 2 Diabetes: The Chicken and Egg Debate. International Journal of Molecular Sciences, 2017, 18, 1188.	4.1	48
28	Zn2+ chelation by serum albumin improves hexameric Zn2+-insulin dissociation into monomers after exocytosis. PLoS ONE, 2017, 12, e0187547.	2.5	17
29	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
30	Pancreatic differentiation of Pdx1-GFP reporter mouse induced pluripotent stem cells. Differentiation, 2016, 92, 249-256.	1.9	7
31	A Role for the Host in the Roadmap to Diabetes Stem Cell Therapy. Diabetes, 2016, 65, 1155-1157.	0.6	9
32	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
33	Changes in orange juice (poly)phenol composition induced by controlled alcoholic fermentation. Analytical Methods, 2016, 8, 8151-8164.	2.7	12
34	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
35	Orange beverage ameliorates high-fat-diet-induced metabolic disorder in mice. Journal of Functional Foods, 2016, 24, 254-263.	3.4	7
36	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

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37	Antioxidant Activity and Nutritional Status in Anorexia Nervosa: Effects of Weight Recovery. Nutrients, 2015, 7, 2193-2208.	4.1	14
38	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
39	Consumption of orange fermented beverage reduces cardiovascular risk factors in healthy mice. Food and Chemical Toxicology, 2015, 78, 78-85.	3.6	30
40	Using stem cells to produce insulin. Expert Opinion on Biological Therapy, 2015, 15, 1469-1489.	3.1	19
41	Regulation of Pancreatic Islet Formation. , 2015, , 109-128.		3
42	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
43	Nutrigenetics and Nutrigenomics Insights into Diabetes Etiopathogenesis. Nutrients, 2014, 6, 5338-5369.	4.1	70
44	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
45	Alcoholic fermentation induces melatonin synthesis in orange juice. Journal of Pineal Research, 2014, 56, 31-38.	7.4	59
46	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
47	GATA4 loss in the septum transversum mesenchyme promotes liver fibrosis in mice. Hepatology, 2014, 59, 2358-2370.	7.3	53
48	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
49	Transcriptional control of mammalian pancreas organogenesis. Cellular and Molecular Life Sciences, 2014, 71, 2383-2402.	5.4	58
50	Regulation of Pancreatic Islet Formation. , 2014, , 1-19.		0
51	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
52	Fermented Orange Juice: Source of Higher Carotenoid and Flavanone Contents. Journal of Agricultural and Food Chemistry, 2013, 61, 8773-8782.	5.2	84
53	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
54	Zebularine regulates early stages of mESC differentiation: effect on cardiac commitment. Cell Death and Disease, 2013, 4, e570-e570.	6.3	21

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55	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
56	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
57	GATA4 and GATA6 control mouse pancreas organogenesis. Journal of Clinical Investigation, 2012, 122, 3504-3515.	8.2	135
58	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
59	Islet Cell Development. Advances in Experimental Medicine and Biology, 2010, 654, 59-75.	1.6	24
60	Nitric oxide repression of Nanog promotes mouse embryonic stem cell differentiation. Cell Death and Differentiation, 2010, 17, 1025-1033.	11.2	64
61	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
62	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
63	Pancreatic islet cells: A model for calciumâ€dependent peptide release. HFSP Journal, 2010, 4, 52-60.	2.5	13
64	Taurine supplementation modulates glucose homeostasis and islet function. Journal of Nutritional Biochemistry, 2009, 20, 503-511.	4.2	122
65	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
66	Nicotinamide induces differentiation of embryonic stem cells into insulin-secreting cells. Experimental Cell Research, 2008, 314, 969-974.	2.6	52
67	Nitric oxide mediates the survival action of IGF-1 and insulin in pancreatic Î² cells. Cellular Signalling, 2008, 20, 301-310.	3.6	18
68	Cell Therapy for Diabetes Mellitus: An Opportunity for Stem Cells?. Cells Tissues Organs, 2008, 188, 70-77.	2.3	22
69	Generation of Insulin-Producing Cells from Stem Cells. Novartis Foundation Symposium, 2008, , 158-173.	1.1	4
70	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
71	Induction of Differentiation of Embryonic Stem Cells into Insulin-Secreting Cells by Fetal Soluble Factors. Stem Cells, 2006, 24, 258-265.	3.2	100
72	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

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73	Gastrointestinal Stem Cells I. Pancreatic stem cells. American Journal of Physiology - Renal Physiology, 2005, 289, G177-G180.	3.4	12
74	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
75	Novel Players in Pancreatic Islet Signaling: From Membrane Receptors to Nuclear Channels. Diabetes, 2004, 53, S86-S91.	0.6	20
76	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
77	Nutrients Induce Different Ca2+ Signals in Cytosol and Nucleus in Pancreatic Â-Cells. Diabetes, 2004, 53, S92-S95.	0.6	17
78	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
79	Bovine subcommissural organ displays spontaneous and synchronous intracellular calcium oscillations. Brain Research, 2003, 977, 90-96.	2.2	3
80	Nicotinamide induces both proliferation and differentiation of embryonic stem cells into insulin-producing cells. Transplantation Proceedings, 2003, 35, 2021-2023.	0.6	44
81	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
82	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
83	Stem cells and diabetes. Biomedicine and Pharmacotherapy, 2001, 55, 206-212.	5.6	26
84	From stem cells to beta cells: new strategies in cell therapy of diabetes mellitus. Diabetologia, 2001, 44, 407-415.	6.3	164
85	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
86	Nutrient toxicity in pancreatic Î²-cell dysfunction. Journal of Physiology and Biochemistry, 2000, 56, 119-128.	3.0	22
87	Engineering pancreatic islets. Pflugers Archiv European Journal of Physiology, 2000, 440, 1-18.	2.8	51
88	Insulin-secreting cells derived from embryonic stem cells normalize glycemia in streptozotocin-induced diabetic mice.. Diabetes, 2000, 49, 157-162.	0.6	845
89	Engineering pancreatic islets. Pflugers Archiv European Journal of Physiology, 2000, 440, 1.	2.8	3
90	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

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91	Mechanisms of glucose hypersensitivity in beta-cells from normoglycemic, partially pancreatectomized mice. Diabetes, 1999, 48, 1954-1961.	0.6	33
92	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
93	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
94	Intracellular diadenosine polyphosphates: a novel second messenger in stimulusâ€secretion coupling. FASEB Journal, 1998, 12, 1499-1506.	0.5	43
95	Cytosolic Ca2+Gradients in Pancreatic Islet-Cells Stimulated by Glucose and Carbachol. Biochemical and Biophysical Research Communications, 1997, 235, 465-468.	2.1	19
96	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
97	Oscillations of Cytosolic Ca2+ in Pancreatic Islets of Langerhans. Advances in Experimental Medicine and Biology, 1997, 426, 195-202.	1.6	1
98	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
99	Glucoseminduced [Ca2+]i oscillations in single human pancreatic islets. Cell Calcium, 1996, 20, 409-414.	2.4	73
100	Diadenosine polyphosphates. A novel class of glucose-induced intracellular messengers in the pancreatic beta-cell. Diabetes, 1996, 45, 1431-1434.	0.6	12
101	Diminished fraction of blockable ATP-sensitive K+ channels in islets transplanted into diabetic mice. Diabetes, 1996, 45, 1755-1760.	0.6	3
102	Role of syntaxin in mouse pancreatic beta cells. Diabetologia, 1995, 38, 860-863.	6.3	65
103	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
104	Slow [Ca2+]i Oscillations Induced by Ketoisocaproate in Single Mouse Pancreatic Islets. Diabetes, 1995, 44, 300-305.	0.6	53
105	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
106	Slow [Ca2+]i oscillations induced by ketoisocaproate in single mouse pancreatic islets. Diabetes, 1995, 44, 300-305.	0.6	15
107	Effects of cyclosporin a on induced hit cell alkalinization. Life Sciences, 1992, 51, 607-613.	4.3	2
108	Effects of cyclosporine a on cyclic AMP generation and GTP-binding proteins in isolated islets. Biochemical Pharmacology, 1992, 44, 359-364.	4.4	8

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109	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
110	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
111	SHORT-TERM EFFECTS OF CYCLOSPORINE ON SECRETAGOGUE-INDUCED INSULIN RELEASE BY ISOLATED ISLETS. Transplantation, 1990, 50, 551-553.	1.0	10
112	The Use of Stem Cells in Cell Therapy. , 0, , 543-558.		0