

Massimiliano Gnechi

List of Publications by Citations

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

100
papers

8,290
citations

32
h-index

91
g-index

123
ext. papers

9,450
ext. citations

5.9
avg, IF

5.77
L-index

#	Paper	IF	Citations
100	Paracrine mechanisms in adult stem cell signaling and therapy. <i>Circulation Research</i> , 2008 , 103, 1204-19	15.7	1560
99	Paracrine action accounts for marked protection of ischemic heart by Akt-modified mesenchymal stem cells. <i>Nature Medicine</i> , 2005 , 11, 367-8	50.5	1320
98	Evidence supporting paracrine hypothesis for Akt-modified mesenchymal stem cell-mediated cardiac protection and functional improvement. <i>FASEB Journal</i> , 2006 , 20, 661-9	0.9	972
97	Secreted frizzled related protein 2 (Sfrp2) is the key Akt-mesenchymal stem cell-released paracrine factor mediating myocardial survival and repair. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 1643-8	11.5	466
96	Reduction of hospitalizations for myocardial infarction in Italy in the COVID-19 era. <i>European Heart Journal</i> , 2020 , 41, 2083-2088	9.5	437
95	Mesenchymal stem cells overexpressing Akt dramatically repair infarcted myocardium and improve cardiac function despite infrequent cellular fusion or differentiation. <i>Molecular Therapy</i> , 2006 , 14, 840-50	11.7	407
94	Paracrine mechanisms of stem cell reparative and regenerative actions in the heart. <i>Journal of Molecular and Cellular Cardiology</i> , 2011 , 50, 280-9	5.8	346
93	Cytokine-induced mobilization of circulating endothelial progenitor cells enhances repair of injured arteries. <i>Circulation</i> , 2004 , 110, 2039-46	16.7	257
92	Paracrine Mechanisms of Mesenchymal Stem Cells in Tissue Repair. <i>Methods in Molecular Biology</i> , 2016 , 1416, 123-46	1.4	221
91	Bone marrow-derived mesenchymal stem cells: isolation, expansion, characterization, viral transduction, and production of conditioned medium. <i>Methods in Molecular Biology</i> , 2009 , 482, 281-94	1.4	190
90	Therapeutic potential of endothelial progenitor cells in cardiovascular diseases. <i>Hypertension</i> , 2005 , 46, 7-18	8.5	187
89	Vagal stimulation, through its nicotinic action, limits infarct size and the inflammatory response to myocardial ischemia and reperfusion. <i>Journal of Cardiovascular Pharmacology</i> , 2011 , 58, 500-7	3.1	141
88	Mesenchymal stem cell therapy for heart disease. <i>Vascular Pharmacology</i> , 2012 , 57, 48-55	5.9	117
87	Heme oxygenase-1 (HO-1) inhibits postmyocardial infarct remodeling and restores ventricular function. <i>FASEB Journal</i> , 2006 , 20, 207-16	0.9	105
86	Early beneficial effects of bone marrow-derived mesenchymal stem cells overexpressing Akt on cardiac metabolism after myocardial infarction. <i>Stem Cells</i> , 2009 , 27, 971-9	5.8	99
85	Association of Troponin Levels With Mortality in Italian Patients Hospitalized With Coronavirus Disease 2019: Results of a Multicenter Study. <i>JAMA Cardiology</i> , 2020 , 5, 1274-1280	16.2	95
84	Elucidating arrhythmogenic mechanisms of long-QT syndrome CALM1-F142L mutation in patient-specific induced pluripotent stem cell-derived cardiomyocytes. <i>Cardiovascular Research</i> , 2017 , 113, 531-541	9.9	79

83	Conditioned medium from human amniotic mesenchymal stromal cells limits infarct size and enhances angiogenesis. <i>Stem Cells Translational Medicine</i> , 2015 , 4, 448-58	6.9	78
82	Liver X receptors alpha and beta regulate renin expression in vivo. <i>Journal of Clinical Investigation</i> , 2005 , 115, 1913-22	15.9	77
81	Identification of a targeted and testable antiarrhythmic therapy for long-QT syndrome type 2 using a patient-specific cellular model. <i>European Heart Journal</i> , 2018 , 39, 1446-1455	9.5	71
80	Gene and cell-based therapies for heart disease. <i>FASEB Journal</i> , 2004 , 18, 648-63	0.9	66
79	Molecular and cell-based therapies for protection, rescue, and repair of ischemic myocardium: reasons for cautious optimism. <i>Circulation</i> , 2004 , 109, 2386-93	16.7	64
78	Paracrine factors of human fetal MSCs inhibit liver cancer growth through reduced activation of IGF-1R/PI3K/Akt signaling. <i>Molecular Therapy</i> , 2015 , 23, 746-56	11.7	62
77	Impact of heart failure on the clinical course and outcomes of patients hospitalized for COVID-19. Results of the Cardio-COVID-Italy multicentre study. <i>European Journal of Heart Failure</i> , 2020 , 22, 2238-2247	12.3	58
76	Endothelium-targeted gene and cell-based therapies for cardiovascular disease. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2004 , 24, 1761-74	9.4	51
75	Protocols for in vitro Differentiation of Human Mesenchymal Stem Cells into Osteogenic, Chondrogenic and Adipogenic Lineages. <i>Methods in Molecular Biology</i> , 2016 , 1416, 149-58	1.4	50
74	Novel mitochondrial protein interactors of immunoglobulin light chains causing heart amyloidosis. <i>FASEB Journal</i> , 2015 , 29, 4614-28	0.9	43
73	From patient-specific induced pluripotent stem cells to clinical translation in long QT syndrome Type 2. <i>European Heart Journal</i> , 2019 , 40, 1832-1836	9.5	41
72	Proteotoxicity in cardiac amyloidosis: amyloidogenic light chains affect the levels of intracellular proteins in human heart cells. <i>Scientific Reports</i> , 2017 , 7, 15661	4.9	37
71	Genetic therapies for cardiovascular diseases. <i>Trends in Molecular Medicine</i> , 2005 , 11, 240-50	11.5	34
70	Calcineurin Inhibitor-Based Immunosuppression and COVID-19: Results from a Multidisciplinary Cohort of Patients in Northern Italy. <i>Microorganisms</i> , 2020 , 8,	4.9	32
69	Myocarditis in a 16-year-old boy positive for SARS-CoV-2. <i>Lancet, The</i> , 2020 , 395, e116	4.0	31
68	Induced pluripotent stem cell technology: Toward the future of cardiac arrhythmias. <i>International Journal of Cardiology</i> , 2017 , 237, 49-52	3.2	29
67	Synthetic extracellular matrix mimic hydrogel improves efficacy of mesenchymal stromal cell therapy for ischemic cardiomyopathy. <i>Acta Biomaterialia</i> , 2018 , 70, 71-83	10.8	29
66	Combination of miRNA499 and miRNA133 exerts a synergic effect on cardiac differentiation. <i>Stem Cells</i> , 2015 , 33, 1187-99	5.8	25

65	Long QT Syndrome Modelling with Cardiomyocytes Derived from Human-induced Pluripotent Stem Cells. <i>Arrhythmia and Electrophysiology Review</i> , 2019 , 8, 105-110	3.2	25
64	Different pro-angiogenic potential of Irradiated PBMC-derived secretome and its subfractions. <i>Scientific Reports</i> , 2018 , 8, 18016	4.9	22
63	The KCNH2-IVS9-28A/G mutation causes aberrant isoform expression and hERG trafficking defect in cardiomyocytes derived from patients affected by Long QT Syndrome type 2. <i>International Journal of Cardiology</i> , 2017 , 240, 367-371	3.2	21
62	Cardiac involvement at presentation in patients hospitalized with COVID-19 and their outcome in a tertiary referral hospital in Northern Italy. <i>Internal and Emergency Medicine</i> , 2020 , 15, 1457-1465	3.7	21
61	Allogeneic lethally irradiated cord blood mononuclear cells in no-option critical limb ischemia: a "box of rain". <i>Stem Cells and Development</i> , 2013 , 22, 2806-12	4.4	17
60	Effectiveness of adjunctive stent implantation following directional coronary atherectomy for treatment of left anterior descending ostial stenosis. <i>American Journal of Cardiology</i> , 2002 , 90, 1074-8	3	17
59	Human mesenchymal stromal cells do not express ACE2 and TMPRSS2 and are not permissive to SARS-CoV-2 infection. <i>Stem Cells Translational Medicine</i> , 2021 , 10, 636-642	6.9	17
58	MTMR4 SNVs modulate ion channel degradation and clinical severity in congenital long QT syndrome: insights in the mechanism of action of protective modifier genes. <i>Cardiovascular Research</i> , 2021 , 117, 767-779	9.9	13
57	microRNA and Cardiac Regeneration. <i>Advances in Experimental Medicine and Biology</i> , 2015 , 887, 119-41	3.6	11
56	Rat experimental model of myocardial ischemia/reperfusion injury: an ethical approach to set up the analgesic management of acute post-surgical pain. <i>PLoS ONE</i> , 2014 , 9, e95913	3.7	11
55	Pulmonary embolism in patients with COVID-19: characteristics and outcomes in the Cardio-COVID Italy multicenter study. <i>Clinical Research in Cardiology</i> , 2021 , 110, 1020-1028	6.1	10
54	Prognostic Impact of in-Hospital-Bleeding in Patients With ST-Elevation Myocardial Infarction Treated by Primary Percutaneous Coronary Intervention. <i>American Journal of Cardiology</i> , 2017 , 120, 1734-1741 ¹⁰	3	10
53	Neutrophil Extracellular Traps Induce the Epithelial-Mesenchymal Transition: Implications in Post-COVID-19 Fibrosis. <i>Frontiers in Immunology</i> , 2021 , 12, 663303	8.4	10
52	Testing the Paracrine Properties of Human Mesenchymal Stem Cells Using Conditioned Medium. <i>Methods in Molecular Biology</i> , 2016 , 1416, 445-56	1.4	10
51	Comparison of Outcomes of Staged Complete Revascularization Versus Culprit Lesion-Only Revascularization for ST-Elevation Myocardial Infarction and Multivessel Coronary Artery Disease. <i>American Journal of Cardiology</i> , 2017 , 119, 508-514	3	8
50	Precision Medicine and cardiac channelopathies: when dreams meet reality. <i>European Heart Journal</i> , 2021 , 42, 1661-1675	9.5	8
49	The prognostic value of serial troponin measurements in patients admitted for COVID-19. <i>ESC Heart Failure</i> , 2021 , 8, 3504-3511	3.7	8
48	NOS1AP polymorphisms reduce NOS1 activity and interact with prolonged repolarization in arrhythmogenesis. <i>Cardiovascular Research</i> , 2021 , 117, 472-483	9.9	8

47	Early Complete Revascularization in Hemodynamically Stable Patients With ST-Segment Elevation Myocardial Infarction and Multivessel Disease. <i>Canadian Journal of Cardiology</i> , 2019 , 35, 1047-1057	3.8	7
46	Neutrophil to platelet ratio: A novel prognostic biomarker in ST-elevation myocardial infarction patients undergoing primary percutaneous coronary intervention. <i>European Journal of Preventive Cardiology</i> , 2020 , 27, 2338-2340	3.9	7
45	First-in-man case of non-invasive proton radiotherapy for the treatment of refractory ventricular tachycardia in advanced heart failure. <i>European Journal of Heart Failure</i> , 2021 , 23, 195-196	12.3	7
44	Cell Therapy for Heart Regeneration: Learning from the Past to Build a Brighter Future. <i>Stem Cells Translational Medicine</i> , 2018 , 7, 702-704	6.9	7
43	Serum uric acid may modulate the inflammatory response after primary percutaneous coronary intervention in patients with ST-elevation myocardial infarction. <i>Journal of Cardiovascular Medicine</i> , 2020 , 21, 337-339	1.9	6
42	Generation of the human induced pluripotent stem cell (hiPSC) line PSMi003-A from a patient affected by an autosomal recessive form of Long QT Syndrome type 1. <i>Stem Cell Research</i> , 2018 , 29, 170-173	1.6	5
41	Direct oral Xa inhibitors versus warfarin in patients with cancer and atrial fibrillation: a meta-analysis. <i>Journal of Cardiovascular Medicine</i> , 2020 , 21, 570-576	1.9	5
40	Determinants of the protective effect of glucocorticoids on mortality in hospitalized patients with COVID-19: Insights from the Cardio-COVID-Italy multicenter study. <i>International Journal of Infectious Diseases</i> , 2021 , 108, 270-273	10.5	5
39	Leptin affects the inflammatory response after STEMI. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2020 , 30, 922-924	4.5	4
38	Angiography- vs. physiology-guided complete revascularization in patients with ST-elevation myocardial infarction and multivessel disease: who is the better gatekeeper in this setting? A meta-analysis of randomized controlled trials. <i>European Heart Journal Quality of Care & Clinical Outcomes</i> , 2020 , 6, 199-200	4.6	4
37	Mesenchymal Stem Cell Therapy for Heart Disease 2013 , 241-270		4
36	Risk factors for primary ventricular fibrillation during a first myocardial infarction: Clinical findings from PREDESTINATION (PRimary vEntricular fibrillation and suDden dEath during firST myocardial iNfArcTION). <i>International Journal of Cardiology</i> , 2020 , 302, 164-170	3.2	4
35	Implications of atrial fibrillation on the clinical course and outcomes of hospitalized COVID-19 patients: results of the Cardio-COVID-Italy multicentre study. <i>Europace</i> , 2021 , 23, 1603-1611	3.9	4
34	Elevated serum uric acid is associated with a greater inflammatory response and with short- and long-term mortality in patients with ST-segment elevation myocardial infarction undergoing primary percutaneous coronary intervention. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2021 , 31, 608-614	4.5	4
33	Optimized lentiviral transduction of human amniotic mesenchymal stromal cells. <i>Pharmacological Research</i> , 2018 , 127, 49-57	10.2	3
32	Gene- and cell-based therapies for cardiovascular diseases: current status and future directions. <i>European Heart Journal Supplements</i> , 2004 , 6, E24-E35	1.5	3
31	Combined Role of Troponin and Natriuretic Peptides Measurements in Patients With Covid-19 (from the Cardio-COVID-Italy Multicenter Study).. <i>American Journal of Cardiology</i> , 2022 ,	3	3
30	Generation of the human induced pluripotent stem cell (hiPSC) line PSMi006-A from a patient affected by an autosomal recessive form of long QT syndrome type 1. <i>Stem Cell Research</i> , 2020 , 42, 101658	1.6	3

29	Elevated serum uric acid is a predictor of contrast associated acute kidney injury in patient with ST-segment elevation myocardial infarction undergoing primary percutaneous coronary intervention. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2021 , 31, 2140-2143	4.5	3
28	Generation of the human induced pluripotent stem cell (hiPSC) line PSMi002-A from a patient affected by the Jervell and Lange-Nielsen syndrome and carrier of two compound heterozygous mutations on the KCNQ1 gene. <i>Stem Cell Research</i> , 2018 , 29, 157-161	1.6	2
27	Generation of two human induced pluripotent stem cell (hiPSC) lines from a long QT syndrome South African founder population. <i>Stem Cell Research</i> , 2019 , 39, 101510	1.6	2
26	Overexpression of growth factors to improve cardiac differentiation of human mesenchymal stem cells derived from the amniotic membrane. <i>European Heart Journal</i> , 2013 , 34, P5692-P5692	9.5	2
25	Has hyperglycemia a different prognostic role in STEMI patients with or without diabetes?. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2021 , 31, 528-531	4.5	2
24	Smoker's paradox in ST-elevation myocardial infarction: Role of inflammation and platelets. <i>Hellenic Journal of Cardiology</i> , 2019 , 60, 397-399	2.1	1
23	Generation of the human induced pluripotent stem cell (hiPSC) line PSMi005-A from a patient carrying the KCNQ1-R190W mutation. <i>Stem Cell Research</i> , 2019 , 37, 101437	1.6	1
22	Generation of the human induced pluripotent stem cell (hiPSC) line PSMi007-A from a Long QT Syndrome type 1 patient carrier of two common variants in the NOS1AP gene. <i>Stem Cell Research</i> , 2019 , 36, 101416	1.6	1
21	Generation of the human induced pluripotent stem cell (hiPSC) line PSMi004-A from a carrier of the KCNQ1-R594Q mutation. <i>Stem Cell Research</i> , 2019 , 37, 101431	1.6	1
20	Tuning Tissue Ingrowth into Proangiogenic Hydrogels via Dual Modality Degradation. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 5430-5438	5.5	1
19	Angiotensin-converting enzyme insertion/deletion polymorphism and risk of restenosis after directional coronary atherectomy followed by stent implantation. <i>Thrombosis and Haemostasis</i> , 2004 , 91, 795-800	7	1
18	The unfavourable inflammatory response in elderly patients after myocardial infarction: should we talk of Pylsflammaging?. <i>Journal of Cardiovascular Medicine</i> , 2020 , 21, 340-342	1.9	1
17	Extracellular vesicles fail to trigger the generation of new cardiomyocytes in chronically infarcted hearts. <i>Theranostics</i> , 2021 , 11, 10114-10124	12.1	1
16	Barriers associated with emergency medical service activation in patients with ST-segment elevation acute coronary syndromes. <i>Internal and Emergency Medicine</i> , 2021 , 1	3.7	1
15	Vascular Remodeling in Health and Disease 2007 , 1541-1565		1
14	Cardiac Repolarization and Stem Cells: An Emerging Path Toward Precision Medicine 2020 , 87-107		1
13	Mesenchymal Stromal Cell Secretome for Tissue Repair 2020 , 641-666		1
12	Favorable effect of glycoprotein IIb/IIIa inhibitors among STEMI patients treated with primary PCI and incomplete ST resolution. <i>Platelets</i> , 2020 , 31, 48-54	3.6	1

11	Endothelium-targeted Gene and Cell-based Therapy for Cardiovascular Disease365-399		1
10	Use of hiPSC-Derived Cardiomyocytes to Rule Out Proarrhythmic Effects of Drugs: The Case of Hydroxychloroquine in COVID-19.. <i>Frontiers in Physiology</i> , 2021 , 12, 730127	4.6	0
9	Estimating the Posttest Probability of Long QT Syndrome Diagnosis for Rare Variants. <i>Circulation Genomic and Precision Medicine</i> , 2021 , 14, e003289	5.2	0
8	Novel IRES-based lentivirus co-expressing IGF1 and BMP2 enhances both cardiomyogenesis and cytoprotection of bone marrow-derived mesenchymal stem cells. <i>European Heart Journal</i> , 2013 , 34, P1473-P1473	9.5	0
7	Amyloidogenic light chains induce human cardiac fibroblast toxicity through alteration of mitochondrial functionality. <i>European Heart Journal</i> , 2013 , 34, P4239-P4239	9.5	0
6	MicroRNA133 and microRNA499 exert synergistic effect on cardiac differentiation. <i>European Heart Journal</i> , 2013 , 34, P1460-P1460	9.5	0
5	Pentraxin-3 and galectin-1 are key mediators of the cardioprotective paracrine effects exerted by fetal mesenchymal stem cells isolated from human placenta. <i>European Heart Journal</i> , 2013 , 34, P3271-P3271	9.5	0
4	Adult Stem Cell-Based Therapy for the Heart 2010 , 899-935		
3	Mesenchymal Stromal Cell Secretome for Tissue Repair 2019 , 1-26		
2	386 Achieving Ldl Cholesterol Target In A Real-World Secondary Prevention Cohort: When Two Is Better Than One. <i>European Heart Journal Supplements</i> , 2020 , 22, N132-N134	1.5	0
1	Self-perception of acute symptoms in adolescents with COVID-19.. <i>Lancet Regional Health - Europe, The</i> , 2022 , 16, 100383		