

Massimiliano Gnecci

List of Publications by Year in descending order

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114
papers

10,277
citations

117453

34
h-index

38300

95
g-index

123
all docs

123
docs citations

123
times ranked

13378
citing authors

#	ARTICLE	IF	CITATIONS
1	Paracrine Mechanisms in Adult Stem Cell Signaling and Therapy. <i>Circulation Research</i> , 2008, 103, 1204-1219.	2.0	1,809
2	Paracrine action accounts for marked protection of ischemic heart by Akt-modified mesenchymal stem cells. <i>Nature Medicine</i> , 2005, 11, 367-368.	15.2	1,512
3	Evidence supporting paracrine hypothesis for Akt-modified mesenchymal stem cell-mediated cardiac protection and functional improvement. <i>FASEB Journal</i> , 2006, 20, 661-669.	0.2	1,082
4	Reduction of hospitalizations for myocardial infarction in Italy in the COVID-19 era. <i>European Heart Journal</i> , 2020, 41, 2083-2088.	1.0	716
5	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, 1643-1648.	3.3	500
6	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, 840-850.	3.7	454
7	Paracrine mechanisms of stem cell reparative and regenerative actions in the heart. <i>Journal of Molecular and Cellular Cardiology</i> , 2011, 50, 280-289.	0.9	414
8	Paracrine Mechanisms of Mesenchymal Stem Cells in Tissue Repair. <i>Methods in Molecular Biology</i> , 2016, 1416, 123-146.	0.4	318
9	Cytokine-Induced Mobilization of Circulating Endothelial Progenitor Cells Enhances Repair of Injured Arteries. <i>Circulation</i> , 2004, 110, 2039-2046.	1.6	279
10	Bone Marrow-Derived Mesenchymal Stem Cells: Isolation, Expansion, Characterization, Viral Transduction, and Production of Conditioned Medium. <i>Methods in Molecular Biology</i> , 2009, 482, 281-294.	0.4	227
11	Therapeutic Potential of Endothelial Progenitor Cells in Cardiovascular Diseases. <i>Hypertension</i> , 2005, 46, 7-18.	1.3	199
12	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, 500-507.	0.8	163
13	Association of Troponin Levels With Mortality in Italian Patients Hospitalized With Coronavirus Disease 2019. <i>JAMA Cardiology</i> , 2020, 5, 1274.	3.0	157
14	Mesenchymal stem cell therapy for heart disease. <i>Vascular Pharmacology</i> , 2012, 57, 48-55.	1.0	137
15	Heme oxygenase-1 (HO-1) inhibits postmyocardial infarct remodeling and restores ventricular function. <i>FASEB Journal</i> , 2006, 20, 207-216.	0.2	118
16	Early Beneficial Effects of Bone Marrow-Derived Mesenchymal Stem Cells Overexpressing Akt on Cardiac Metabolism After Myocardial Infarction. <i>Stem Cells</i> , 2009, 27, 971-979.	1.4	110
17	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.	1.8	110
18	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.	1.0	100

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19	Impact of heart failure on the clinical course and outcomes of patients hospitalized for COVID-19. Results of the CardioCOVID-Italy multicentre study. <i>European Journal of Heart Failure</i> , 2020, 22, 2238-2247.	2.9	99
20	Conditioned Medium From Human Amniotic Mesenchymal Stromal Cells Limits Infarct Size and Enhances Angiogenesis. <i>Stem Cells Translational Medicine</i> , 2015, 4, 448-458.	1.6	94
21	Liver X receptors α and β regulate renin expression in vivo. <i>Journal of Clinical Investigation</i> , 2005, 115, 1913-1922.	3.9	86
22	Protocols for in vitro Differentiation of Human Mesenchymal Stem Cells into Osteogenic, Chondrogenic and Adipogenic Lineages. <i>Methods in Molecular Biology</i> , 2016, 1416, 149-158.	0.4	82
23	Molecular and Cell-Based Therapies for Protection, Rescue, and Repair of Ischemic Myocardium. <i>Circulation</i> , 2004, 109, 2386-2393.	1.6	73
24	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, 746-756.	3.7	72
25	Gene and cell-based therapies for heart disease. <i>FASEB Journal</i> , 2004, 18, 648-663.	0.2	71
26	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.	1.0	69
27	Proteotoxicity in cardiac amyloidosis: amyloidogenic light chains affect the levels of intracellular proteins in human heart cells. <i>Scientific Reports</i> , 2017, 7, 15661.	1.6	63
28	Novel mitochondrial protein interactors of immunoglobulin light chains causing heart amyloidosis. <i>FASEB Journal</i> , 2015, 29, 4614-4628.	0.2	60
29	Endothelium-Targeted Gene and Cell-Based Therapies for Cardiovascular Disease. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2004, 24, 1761-1774.	1.1	59
30	Myocarditis in a 16-year-old boy positive for SARS-CoV-2. <i>Lancet</i> , The, 2020, 395, e116.	6.3	52
31	Neutrophil Extracellular Traps Induce the Epithelial-Mesenchymal Transition: Implications in Post-COVID-19 Fibrosis. <i>Frontiers in Immunology</i> , 2021, 12, 663303.	2.2	45
32	Genetic therapies for cardiovascular diseases. <i>Trends in Molecular Medicine</i> , 2005, 11, 240-250.	3.5	42
33	Synthetic extracellular matrix mimic hydrogel improves efficacy of mesenchymal stromal cell therapy for ischemic cardiomyopathy. <i>Acta Biomaterialia</i> , 2018, 70, 71-83.	4.1	41
34	Calcineurin Inhibitor-Based Immunosuppression and COVID-19: Results from a Multidisciplinary Cohort of Patients in Northern Italy. <i>Microorganisms</i> , 2020, 8, 977.	1.6	41
35	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.	1.6	40
36	Long QT Syndrome Modelling with Cardiomyocytes Derived from Human-induced Pluripotent Stem Cells. <i>Arrhythmia and Electrophysiology Review</i> , 2019, 8, 105-110.	1.3	36

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37	<i>MTMR4</i> 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.	1.8	34
38	Precision Medicine and cardiac channelopathies: when dreams meet reality. <i>European Heart Journal</i> , 2021, 42, 1661-1675.	1.0	34
39	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.	0.7	34
40	Induced pluripotent stem cell technology: Toward the future of cardiac arrhythmias. <i>International Journal of Cardiology</i> , 2017, 237, 49-52.	0.8	33
41	Different pro-angiogenic potential of β -irradiated PBMC-derived secretome and its subfractions. <i>Scientific Reports</i> , 2018, 8, 18016.	1.6	33
42	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.	1.0	32
43	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.	1.5	32
44	Combination of miRNA499 and miRNA133 Exerts a Synergic Effect on Cardiac Differentiation. <i>Stem Cells</i> , 2015, 33, 1187-1199.	1.4	31
45	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.	0.8	28
46	The prognostic value of serial troponin measurements in patients admitted for COVID-19. <i>ESC Heart Failure</i> , 2021, 8, 3504-3511.	1.4	25
47	NOS1AP polymorphisms reduce NOS1 activity and interact with prolonged repolarization in arrhythmogenesis. <i>Cardiovascular Research</i> , 2021, 117, 472-483.	1.8	22
48	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.	1.1	22
49	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, 2806-2812.	1.1	20
50	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, 1074-1078.	0.7	17
51	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.	0.8	17
52	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.	2.9	16
53	microRNA and Cardiac Regeneration. <i>Advances in Experimental Medicine and Biology</i> , 2015, 887, 119-141.	0.8	14
54	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.	0.6	14

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55	Rat Experimental Model of Myocardial Ischemia/Reperfusion Injury: An Ethical Approach to Set up the Analgesic Management of Acute Post-Surgical Pain. PLoS ONE, 2014, 9, e95913.	1.1	14
56	Combined Role of Troponin and Natriuretic Peptides Measurements in Patients With Covid-19 (from the Tj ETQq0 0.0 rgBT /Overlock 10	0.7	14
57	Testing the Paracrine Properties of Human Mesenchymal Stem Cells Using Conditioned Medium. Methods in Molecular Biology, 2016, 1416, 445-456.	0.4	12
58	Prognostic Impact of in-Hospital-Bleeding in Patients With ST-Elevation Myocardial Infarction Treated by Primary Percutaneous Coronary Intervention. American Journal of Cardiology, 2017, 120, 1734-1741.	0.7	12
59	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. Nutrition, Metabolism and Cardiovascular Diseases, 2021, 31, 2140-2143.	1.1	12
60	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. European Heart Journal Quality of Care & Clinical Outcomes, 2020, 6, 199-200.	1.8	11
61	Estimating the Posttest Probability of Long QT Syndrome Diagnosis for Rare <i>KCNH2</i> Variants. Circulation Genomic and Precision Medicine, 2021, 14, e003289.	1.6	10
62	Extracellular vesicles fail to trigger the generation of new cardiomyocytes in chronically infarcted hearts. Theranostics, 2021, 11, 10114-10124.	4.6	10
63	Cell Therapy for Heart Regeneration: Learning from the Past to Build a Brighter Future. Stem Cells Translational Medicine, 2018, 7, 702-704.	1.6	9
64	Has hyperglycemia a different prognostic role in STEMI patients with or without diabetes?. Nutrition, Metabolism and Cardiovascular Diseases, 2021, 31, 528-531.	1.1	9
65	Comparison of Outcomes of Staged Complete Revascularization Versus Culprit Lesionâ€œOnly Revascularization for ST-Elevation Myocardial Infarction and Multivessel Coronary Artery Disease. American Journal of Cardiology, 2017, 119, 508-514.	0.7	8
66	Early Complete Revascularization in Hemodynamically Stable Patients With ST-Segment Elevation Myocardial Infarction and Multivessel Disease. Canadian Journal of Cardiology, 2019, 35, 1047-1057.	0.8	8
67	The Unstoppable Attraction for Induced Pluripotent Stem Cells. Journal of the American College of Cardiology, 2012, 60, 1001-1004.	1.2	7
68	Mesenchymal Stem Cell Therapy for Heart Disease. , 2013, , 241-270.		7
69	Risk factors for primary ventricular fibrillation during a first myocardial infarction: Clinical findings from PREDESTINATION (PRimary vEntricular fibrillation and suDden dEath during firST) Tj ETQq1 1 0.7843 148rgBT /Overlock 10	1.0	7
70	Direct oral Xa inhibitors versus warfarin in patients with cancer and atrial fibrillation: a meta-analysis. Journal of Cardiovascular Medicine, 2020, 21, 570-576.	0.6	7
71	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. Stem Cell Research, 2018, 29, 170-173.	0.3	6
72	Determinants of the protective effect of glucocorticoids on mortality in hospitalized patients with COVID-19. International Journal of Infectious Diseases, 2021, 108, 270-273.	1.5	6

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73	Machine learning for prediction of in-hospital mortality in coronavirus disease 2019 patients: results from an Italian multicenter study. <i>Journal of Cardiovascular Medicine</i> , 2022, 23, 439-446.	0.6	6
74	Tuning Tissue Ingrowth into Proangiogenic Hydrogels via Dual Modality Degradation. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 5430-5438.	2.6	5
75	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.	1.1	5
76	Optimized lentiviral transduction of human amniotic mesenchymal stromal cells. <i>Pharmacological Research</i> , 2018, 127, 49-57.	3.1	4
77	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.	0.3	4
78	Leptin affects the inflammatory response after STEMI. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2020, 30, 922-924.	1.1	4
79	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.	1.3	4
80	Gene- and cell-based therapies for cardiovascular diseases: current status and future directions. <i>European Heart Journal Supplements</i> , 2004, 6, E24-E35.	0.0	3
81	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.	0.3	3
82	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.	0.3	3
83	Vascular Remodeling in Health and Disease. , 2007, , 1541-1565.		3
84	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.	1.0	2
85	Smoker's paradox in ST-elevation myocardial infarction: Role of inflammation and platelets. <i>Hellenic Journal of Cardiology</i> , 2019, 60, 397-399.	0.4	2
86	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.	0.3	2
87	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.	0.3	2
88	Mesenchymal Stromal Cell Secretome for Tissue Repair. , 2020, , 641-666.		2
89	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.	1.8	1
90	Genotype-Phenotype Correlation in Induced Pluripotent Stem Cell (iPSC)Derived Cardiomyocytes Carrying Calmodulin Mutations. <i>Biophysical Journal</i> , 2014, 106, 333a.	0.2	1

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91	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.	0.3	1
92	Endothelium-targeted Gene and Cell-based Therapy for Cardiovascular Disease. , 0, , 365-399.		1
93	Cardiac Repolarization and Stem Cells: An Emerging Path Toward Precision Medicine. , 2020, , 87-107.		1
94	Mesenchymal Stromal Cell Secretome for Tissue Repair. , 2019, , 1-26.		1
95	The unfavourable inflammatory response in elderly patients after myocardial infarction: should we talk of "dysflaming"? <i>Journal of Cardiovascular Medicine</i> , 2020, 21, 340-342.	0.6	1
96	Barriers associated with emergency medical service activation in patients with ST-segment elevation acute coronary syndromes. <i>Internal and Emergency Medicine</i> , 2021, , 1.	1.0	1
97	Adult Stem Cell-Based Therapy for the Heart. , 2010, , 899-935.		0
98	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.	1.0	0
99	Amyloidogenic light chains induce human cardiac fibroblast toxicity through alteration of mitochondrial functionality. <i>European Heart Journal</i> , 2013, 34, P4239-P4239.	1.0	0
100	MicroRNA133 and microRNA499 exert synergistic effect on cardiac differentiation. <i>European Heart Journal</i> , 2013, 34, P1460-P1460.	1.0	0
101	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.	1.0	0
102	Novel degradable heparin hydrogel improves the engraftment and therapeutic effect of mesenchymal stromal cells in ischemic heart disease. <i>Cytotherapy</i> , 2015, 17, S54.	0.3	0
103	Modeling Heart Failure in Danon Disease Using Patient-Specific Induced Pluripotent Stem Cell-Derived Cardiomyocytes. <i>Cytotherapy</i> , 2016, 18, S12.	0.3	0
104	Human Induced Pluripotent Stem Cells-Derived Cardiomyocytes Carrying CALM1-F142I Mutation Recapitulate LQTS Phenotype in Vitro. <i>Biophysical Journal</i> , 2016, 110, 263a.	0.2	0
105	Optimized Method to Determine Infarct Size and Stem Cell Engraftment in Rodent Hearts Subjected to Ischemia-Reperfusion Injury. <i>Cytotherapy</i> , 2016, 18, S80-S81.	0.3	0
106	Improving the Cardioprotective and Regenerative Properties of Bone Marrow Derived Mesenchymal Stem Cells Through the Overexpression of IGF1 and BMP2. <i>Cytotherapy</i> , 2016, 18, S81.	0.3	0
107	Donor Age Impairs the Capacity of Human Mesenchymal Stromal Cells to Repair Cardiac and Renal Damage. <i>Cytotherapy</i> , 2016, 18, S16.	0.3	0
108	Symptomatic and Asymptomatic Discrimination by Single Nucleotide Polymorphisms in LQTS2 Patients: A DNA-Based Patient Stratification. <i>Cytotherapy</i> , 2016, 18, S151.	0.3	0

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109	How do Extracellular Vesicles Protect the Ischemic Myocardium?. <i>Cytotherapy</i> , 2020, 22, S189.	0.3	0
110	What is the Paracrine Effect of Stem Cells?. , 2012, , 219-267.		0
111	Transfection of Embryoid Bodies with miRNA Precursors to Induce Cardiac Differentiation. <i>Bio-protocol</i> , 2016, 6, .	0.2	0
112	386â€fAchieving 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.	0.0	0
113	D-dimer for the prediction of left atrial appendage thrombosis: daydream or reality? A meta-analysis. <i>European Heart Journal</i> , 2020, 41, .	1.0	0
114	Self-perception of acute symptoms in adolescents with COVID-19. <i>Lancet Regional Health - Europe</i> , The, 2022, 16, 100383.	3.0	0