Daniele Torella

List of Publications by Year
in descending order

125 papers	13,165 citations	53794 45 h-index	22166 113 g-index
133 all docs	133 docs citations	133 times ranked	10797 citing authors

#	Article	IF	Citations
1	Adult Cardiac Stem Cells Are Multipotent and Support Myocardial Regeneration. Cell, 2003, 114, 763-776.	28.9	3,268
2	Myocardial regeneration by activation of multipotent cardiac stem cells in ischemic heart failure. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 8692-8697.	7.1	587
3	Stem cells in the dog heart are self-renewing, clonogenic, and multipotent and regenerate infarcted myocardium, improving cardiac function. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 8966-8971.	7.1	541
4	Cardiac Stem Cell and Myocyte Aging, Heart Failure, and Insulin-Like Growth Factor-1 Overexpression. Circulation Research, 2004, 94, 514-524.	4.5	527
5	Cardiac Stem Cells Possess Growth Factor-Receptor Systems That After Activation Regenerate the Infarcted Myocardium, Improving Ventricular Function and Long-Term Survival. Circulation Research, 2005, 97, 663-673.	4.5	494
6	Adult c-kitpos Cardiac Stem Cells Are Necessary and Sufficient for Functional Cardiac Regeneration and Repair. Cell, 2013, 154, 827-842.	28.9	469
7	Intense myocyte formation from cardiac stem cells in human cardiac hypertrophy. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 10440-10445.	7.1	462
8	Cardiac stem cells delivered intravascularly traverse the vessel barrier, regenerate infarcted myocardium, and improve cardiac function. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 3766-3771.	7.1	458
9	Bone Marrow Cells Differentiate in Cardiac Cell Lineages After Infarction Independently of Cell Fusion. Circulation Research, 2005, 96, 127-137.	4.5	456
10	Senescence and Death of Primitive Cells and Myocytes Lead to Premature Cardiac Aging and Heart Failure. Circulation Research, 2003, 93, 604-613.	4.5	363
11	MicroRNA-133 Controls Vascular Smooth Muscle Cell Phenotypic Switch In Vitro and Vascular Remodeling In Vivo. Circulation Research, 2011, 109, 880-893.	4.5	280
12	Endogenous Cardiac Stem Cell Activation by Insulin-Like Growth Factor-1/Hepatocyte Growth Factor Intracoronary Injection Fosters Survival and Regeneration of the Infarcted Pig Heart. Journal of the American College of Cardiology, 2011, 58, 977-986.	2.8	227
13	Mechanisms of Smooth Muscle Cell Proliferation and Endothelial Regeneration After Vascular Injury and Stenting - Approach to Therapy -. Circulation Journal, 2011, 75, 1287-1296.	1.6	223
14	Physiological cardiac remodelling in response to endurance exercise training: cellular and molecular mechanisms. Heart, 2012, 98, 5-10.	2.9	218
15	Agedâ€senescent cells contribute to impaired heart regeneration. Aging Cell, 2019, 18, e12931.	6.7	202
16	Nuclear Targeting of Akt Enhances Kinase Activity and Survival of Cardiomyocytes. Circulation Research, 2004, 94, 884-891.	4.5	197
17	Increased Vascular Endothelial Growth Factor Expression But Impaired Vascular Endothelial Growth Factor Receptor Signaling in the Myocardium of Type 2 Diabetic Patients With Chronic Coronary Heart Disease. Journal of the American College of Cardiology, 2005, 46, 827-834.	2.8	158
18	The adult heart responds to increased workload with physiologic hypertrophy, cardiac stem cell activation, and new myocyte formation. European Heart Journal, 2014, 35, 2722-2731.	2.2	156

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19	Resident human cardiac stem cells: role in cardiac cellular homeostasis and potential for myocardial regeneration. Nature Clinical Practice Cardiovascular Medicine, 2006, 3, S8-S13.	3.3	150
20	Acute Î²-Adrenergic Overload Produces Myocyte Damage through Calcium Leakage from the Ryanodine Receptor 2 but Spares Cardiac Stem Cells. Journal of Biological Chemistry, 2007, 282, 11397-11409.	3.4	146
21	Adult cardiac stem cells are multipotent and robustly myogenic: c-kit expression is necessary but not sufficient for their identification. Cell Death and Differentiation, 2017, 24, 2101-2116.	11.2	131
22	The role of mitochondrial dynamics in cardiovascular diseases. British Journal of Pharmacology, 2021, 178, 2060-2076.	5.4	118
23	Hydroxymethylglutaryl Coenzyme A Reductase Inhibitor Simvastatin Prevents Cardiac Hypertrophy Induced by Pressure Overload and Inhibits p21rasActivation. Circulation, 2002, 106, 2118-2124.	1.6	105
24	Effects of Balloon Injury on Neointimal Hyperplasia in Streptozotocin-Induced Diabetes and in Hyperinsulinemic Nondiabetic Pancreatic Isletâ€“Transplanted Rats. Circulation, 2001, 103, 2980-2986.	1.6	104
25	Isolation and characterization of resident endogenous c-Kit+ cardiac stem cells from the adult mouse and rat heart. Nature Protocols, 2014, 9, 1662-1681.	12.0	102
26	LOWERing the INtensity of oral anticoaGulant Therapy in patients with bileaflet mechanical aortic valve replacement: Results from the â€œLOWERING-ITâ€•Trial. American Heart Journal, 2010, 160, 171-178.	2.7	93
27	Sustained Delivery of Insulin-Like Growth Factor-1/Hepatocyte Growth Factor Stimulates Endogenous Cardiac Repair in the Chronic Infarcted Pig Heart. Journal of Cardiovascular Translational Research, 2014, 7, 232-241.	2.4	93
28	Molecular Mechanisms of In-Stent Restenosis and Approach to Therapy with Eluting Stents. Trends in Cardiovascular Medicine, 2003, 13, 142-148.	4.9	91
29	The cardiac stem cell compartment is indispensable for myocardial cell homeostasis, repair and regeneration in the adult. Stem Cell Research, 2014, 13, 615-630.	0.7	87
30	Physical Training Increases eNOS Vascular Expression and Activity and Reduces Restenosis After Balloon Angioplasty or Arterial Stenting in Rats. Circulation Research, 2002, 91, 1190-1197.	4.5	85
31	Carbonic Anhydrase Activation Is Associated With Worsened Pathological Remodeling in Human Ischemic Diabetic Cardiomyopathy. Journal of the American Heart Association, 2014, 3, e000434.	3.7	79
32	Kitcre knock-in mice fail to fate-map cardiac stem cells. Nature, 2018, 555, E1-E5.	27.8	79
33	Targeting Cardiac Stem Cell Senescence to Treat Cardiac Aging and Disease. Cells, 2020, 9, 1558.	4.1	75
34	8-Chloro-cAMP inhibits smooth muscle cell proliferation in vitro and neointima formation induced by balloon injury in vivo. Journal of the American College of Cardiology, 2000, 36, 288-293.	2.8	69
35	MicroRNA-1 Downregulation Increases Connexin 43 Displacement and Induces Ventricular Tachyarrhythmias in Rodent Hypertrophic Hearts. PLoS ONE, 2013, 8, e70158.	2.5	67
36	Fludarabine prevents smooth muscle proliferation in vitro and neointimal hyperplasia in vivo through specific inhibition of STAT-1 activation. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 292, H2935-H2943.	3.2	61

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37	Anti-oxidant effect of bergamot polyphenolic fraction counteracts doxorubicin-induced cardiomyopathy: Role of autophagy and c-kitposCD45negCD31neg cardiac stem cell activation. Journal of Molecular and Cellular Cardiology, 2018, 119, 10-18.	1.9	61
38	Effects of insulin-glucose infusion on left ventricular function at rest and during dynamic exercise in healthy subjects and noninsulin dependent diabetic patients. Journal of the American College of Cardiology, 2000, 36, 219-226.	2.8	59
39	Cochlear dysfunction in type 2 diabetes: A complication independent of neuropathy and acute hyperglycemia. Metabolism: Clinical and Experimental, 1999, 48, 1346-1350.	3.4	58
40	Absence of Evidence Is Not Evidence of Absence. Circulation Research, 2014, 115, 415-418.	4.5	58
41	Modulation of Circulating MicroRNAs Levels during the Switch from Clopidogrel to Ticagrelor. BioMed Research International, 2016, 2016, 1-5.	1.9	57
42	Myocyte death and renewal: modern concepts of cardiac cellular homeostasis. Nature Clinical Practice Cardiovascular Medicine, 2007, 4, S52-S59.	3.3	56
43	Aging exacerbates negative remodeling and impairs endothelial regeneration after balloon injury. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 287, H2850-H2860.	3.2	53
44	miRNA Regulation of the Hyperproliferative Phenotype of Vascular Smooth Muscle Cells in Diabetes. Diabetes, 2018, 67, 2554-2568.	0.6	53
45	Atrial myxomas arise from multipotent cardiac stem cells. European Heart Journal, 2020, 41, 4332-4345.	2.2	51
46	Routine ganglionic plexi ablation during Maze procedure improves hospital and early follow-up results of mitral surgery. Journal of Thoracic and Cardiovascular Surgery, 2008, 136, 408-418.	0.8	47
47	Rat carotid artery dilation by PTCA balloon catheter induces neointima formation in presence of IEL rupture. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 283, H760-H767.	3.2	46
48	Membrane-Bound Protein Kinase A Inhibits Smooth Muscle Cell Proliferation In Vitro and In Vivo by Amplifying cAMPâ€“Protein Kinase A Signals. Circulation Research, 2001, 88, 319-324.	4.5	45
49	Growth-factor-mediated cardiac stem cell activation in myocardial regeneration. Nature Clinical Practice Cardiovascular Medicine, 2007, 4, S46-S51.	3.3	45
50	Cardiac Stem and Progenitor Cell Biology for Regenerative Medicine. Trends in Cardiovascular Medicine, 2005, 15, 229-236.	4.9	44
51	Role of c-Kit in Myocardial Regeneration and Aging. Frontiers in Endocrinology, 2019, 10, 371.	3.5	44
52	A new rat model of small vessel stenting. Basic Research in Cardiology, 2000, 95, 179-185.	5.9	43
53	c-kit Haploinsufficiency impairs adult cardiac stem cell growth, myogenicity and myocardial regeneration. Cell Death and Disease, 2019, 10, 436.	6.3	43
54	Hindlimb Ischemia Impairs Endothelial Recovery and Increases Neointimal Proliferation in the Carotid Artery. Scientific Reports, 2018, 8, 761.	3.3	39

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55	Gene Therapy for Restenosis after Balloon Angioplasty and Stenting. Cardiology in Review, 1999, 7, 324-331.	1.4	38
56	Differential regulation of vascular smooth muscle and endothelial cell proliferation in vitro and in vivo by cAMP/PKA-activated p85Î±^{PI3K}. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 297, H2015-H2025.	3.2	38
57	Activated c-Kit receptor in the heart promotes cardiac repair and regeneration after injury. Cell Death and Disease, 2016, 7, e2317-e2317.	6.3	38
58	Cardiac stem and progenitor cell identification Different markers for the same cell. Frontiers in Bioscience - Scholar, 2010, S2, 641-652.	2.1	37
59	The instantaneous wave-free ratio (iFR) for evaluation of non-culprit lesions in patients with acute coronary syndrome and multivessel disease. International Journal of Cardiology, 2015, 178, 46-54.	1.7	37
60	Effect of stent coating alone on in vitro vascular smooth muscle cell proliferation and apoptosis. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 286, H902-H908.	3.2	35
61	The role of endothelial progenitor and cardiac stem cells in the cardiovascular adaptations to age and exercise. Frontiers in Bioscience - Landmark, 2009, Volume, 4685.	3.0	33
62	HMGA1 is a novel candidate gene for myocardial infarction susceptibility. International Journal of Cardiology, 2017, 227, 331-334.	1.7	33
63	Optimizing Cardiac Repair and Regeneration Through Activation of the Endogenous Cardiac Stem Cell Compartment. Journal of Cardiovascular Translational Research, 2012, 5, 667-677.	2.4	32
64	Molecular basis of functional myogenic specification ofBona Fidemultipotent adult cardiac stem cells. Cell Cycle, 2018, 17, 927-946.	2.6	31
65	Adult Cardiac Stem Cell Aging: A Reversible Stochastic Phenomenon?. Oxidative Medicine and Cellular Longevity, 2019, 2019, 1-19.	4.0	31
66	Current and future therapeutic perspective in chronic heart failure. Pharmacological Research, 2022, 175, 106035.	7.1	31
67	Diabetes-Induced Cellular Senescence and Senescence-Associated Secretory Phenotype Impair Cardiac Regeneration and Function Independently of Age. Diabetes, 2022, 71, 1081-1098.	0.6	30
68	Administration of a Loading Dose Has No Additive Effect on Platelet Aggregation During the Switch From Ongoing Clopidogrel Treatment to Ticagrelor in Patients With Acute Coronary Syndrome. Circulation: Cardiovascular Interventions, 2014, 7, 104-112.	3.9	29
69	Statins Stimulate New Myocyte Formation After Myocardial Infarction by Activating Growth and Differentiation of the Endogenous Cardiac Stem Cells. International Journal of Molecular Sciences, 2020, 21, 7927.	4.1	27
70	From Spheroids to Organoids: The Next Generation of Model Systems of Human Cardiac Regeneration in a Dish. International Journal of Molecular Sciences, 2021, 22, 13180.	4.1	27
71	Proteomics reveals high levels of vitamin D binding protein in myocardial infarction. Frontiers in Bioscience - Elite, 2010, E2, 796-804.	1.8	26
72	Unravelling the Biology of Adult Cardiac Stem Cell-Derived Exosomes to Foster Endogenous Cardiac Regeneration and Repair. International Journal of Molecular Sciences, 2020, 21, 3725.	4.1	26

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73	Iron Administration Overcomes Resistance to Erastin-Mediated Ferroptosis in Ovarian Cancer Cells. Frontiers in Oncology, 2022, 12, 868351.	2.8	26
74	Clinical and Procedural Outcomes of 5-French versus 6-French Sheaths in Transradial Coronary Interventions. Medicine (United States), 2015, 94, e2170.	1.0	24
75	Combined lymphocyte/monocyte count, D-dimer and iron status predict COVID-19 course and outcome in a long-term care facility. Journal of Translational Medicine, 2021, 19, 79.	4.4	24
76	Left radial access for percutaneous coronary procedures: From neglected to performer? A meta-analysis of 14 studies including 7603 procedures. International Journal of Cardiology, 2014, 171, 66-72.	1.7	23
77	Resident progenitors and bone marrow stem cells in myocardial renewal and repair. Nature Clinical Practice Cardiovascular Medicine, 2006, 3, S83-S89.	3.3	22
78	Combining cell and gene therapy to advance cardiac regeneration. Expert Opinion on Biological Therapy, 2018, 18, 409-423.	3.1	22
79	The use and abuse of Cre/Lox recombination to identify adult cardiomyocyte renewal rate and origin. Pharmacological Research, 2018, 127, 116-128.	7.1	22
80	WIND (Workflow for pIRNAs aNd beyonD): a strategy for in-depth analysis of small RNA-seq data. F1000Research, 2021, 10, 1.	1.6	22
81	Heterogeneity of Adult Cardiac Stem Cells. Advances in Experimental Medicine and Biology, 2019, 1169, 141-178.	1.6	22
82	Cardiac adaptations from 4Âweeks of intensity-controlled vigorous exercise are lost after a similar period of detraining. Physiological Reports, 2015, 3, e12302.	1.7	21
83	Adult c-kit ^{pos} Cardiac Stem Cells Fulfill Kochâ€™s Postulates as Causal Agents for Cardiac Regeneration. Circulation Research, 2014, 114, e24-6.	4.5	20
84	The duration of balloon inflation affects the luminal diameter of coronary segments after bioresorbable vascular scaffolds deployment. BMC Cardiovascular Disorders, 2015, 15, 169.	1.7	20
85	Cardiac Stem Cell-Based Myocardial Regeneration: Towards a Translational Approach. Cardiovascular and Hematological Agents in Medicinal Chemistry, 2008, 6, 53-59.	1.0	19
86	Physical Exercise and Cardiac Repair: The Potential Role of Nitric Oxide in Boosting Stem Cell Regenerative Biology. Antioxidants, 2021, 10, 1002.	5.1	19
87	Mediterranean jellyfish sting-induced Tako-Tsubo cardiomyopathy. European Heart Journal, 2011, 32, 18-18.	2.2	18
88	Intracoronary abciximab reduces death and major adverse cardiovascular events in acute coronary syndromes: A meta-analysis of clinical trials. International Journal of Cardiology, 2013, 168, 1298-1305.	1.7	18
89	Neointimal Proliferation Is Associated With Clinical Restenosis 2 Years After Fully Bioresorbable Vascular Scaffold Implantation. Circulation: Cardiovascular Imaging, 2014, 7, 755-757.	2.6	18
90	Myocardial regeneration protocols towards the routine clinical scenario: An unseemly path from bench to bedside. EClinicalMedicine, 2022, 50, 101530.	7.1	17

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91	Mitogen-activated protein kinases activation in T lymphocytes of patients with acute coronary syndromes. Basic Research in Cardiology, 2011, 106, 667-679.	5.9	16
92	Subclinical Myocardial Dysfunction and Cardiac Autonomic Dysregulation Are Closely Associated in Obese Children and Adolescents: The Potential Role of Insulin Resistance. PLoS ONE, 2015, 10, e0123916.	2.5	15
93	In vitro CSC-derived cardiomyocytes exhibit the typical microRNA-mRNA blueprint of endogenous cardiomyocytes. Communications Biology, 2021, 4, 1146.	4.4	15
94	Response to Molkentinâ€™s Letter to The Editor Regarding Article, â€œThe Absence of Evidence Is Not Evidence of Absence: The Pitfalls of Cre Knock-Ins in the c-kit Locusâ€. Circulation Research, 2014, 115, e38-9.	4.5	14
95	Delayed flow-mediated vasodilation and critical coronary stenosis. Journal of Investigative Medicine, 2018, 66, 1.5-7.	1.6	14
96	Low-dose anticoagulation after isolated mechanical aortic valve replacement with Liva Nova Bicarbon prosthesis: A post hoc analysis of LOWERING-IT Trial. Scientific Reports, 2018, 8, 8405.	3.3	14
97	Aspiration Thrombectomy. Journal of the American College of Cardiology, 2014, 63, 2052-2053.	2.8	13
98	Reparative cell therapy for the heart: critical internal appraisal of the field in response to recent controversies. ESC Heart Failure, 2021, 8, 2306-2309.	3.1	13
99	Lyotropic Liquid Crystals: A Biocompatible and Safe Material for Local Cardiac Application. Pharmaceutics, 2022, 14, 452.	4.5	13
100	Use of Impella device in cardiogenic shock and its clinical outcomes: A systematic review and meta-analysis. IJC Heart and Vasculature, 2022, 40, 101007.	1.1	13
101	Cardiovascular Regenerative Medicine at the Crossroads. Clinical Trials of Cellular Therapy Must Now Be Based on Reliable Experimental Data From Animals With Characteristics Similar to Human's. Revista Espanola De Cardiologia (English Ed), 2006, 59, 1175-1189.	0.6	12
102	Unraveling and Targeting Myocardial Regeneration Deficit in Diabetes. Antioxidants, 2022, 11, 208.	5.1	12
103	Novel Perspectives in Redox Biology and Pathophysiology of Failing Myocytes: Modulation of the Intramyocardial Redox Milieu for Therapeutic Interventionsâ€"A Review Article from the Working Group of Cardiac Cell Biology, Italian Society of Cardiology. Oxidative Medicine and Cellular Longevity, 2016, 2016, 1-13.	4.0	10
104	Intracoronary Versus Intravenous Abciximab Bolus Administration. Journal of the American College of Cardiology, 2014, 63, 1340-1341.	2.8	8
105	Novel Basic Science Insights to Improve the Management of Heart Failure: Review of the Working Group on Cellular and Molecular Biology of the Heart of the Italian Society of Cardiology. International Journal of Molecular Sciences, 2020, 21, 1192.	4.1	8
106	Generation of new cardiomyocytes after injury: de novo formation from resident progenitors vs. replication of pre-existing cardiomyocytes. Annals of Translational Medicine, 2015, 3, S8.	1.7	8
107	Monographic issue of pharmacological research on adult myocardial repair/regeneration. Pharmacological Research, 2018, 127, 1-3.	7.1	7
108	Cardiac Autonomic Regulation in Response to a Mixed Meal Is Impaired in Obese Children and Adolescents: The Role Played by Insulin Resistance. Journal of Clinical Endocrinology and Metabolism, 2014, 99, 3199-3207.	3.6	6

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109	Testing Regeneration of Human Myocardium Without Knowing the Identity and the Number of Effective Bone Marrow Cells Transplanted: Are the Results Meaningful?. Journal of the American College of Cardiology, 2006, 48, 417.	2.8	5
110	WIND (Workflow for pIRNAs aNd beyonD): a strategy for in-depth analysis of small RNA-seq data. F1000Research, 2021, 10, 1.	1.6	5
111	Migration of a stent from left main and its retrieval from femoral artery. Medicine (United States), 2017, 96, e9281.	1.0	5
112	Whole-genome analysis of SARS-CoV-2 in a 2020 infection cluster in a nursing home of Southern Italy. Infection, Genetics and Evolution, 2022, 99, 105253.	2.3	5
113	Delayed Sudden Radial Artery Rupture After Left Transradial Coronary Catheterization. Medicine (United States), 2015, 94, e634.	1.0	4
114	Hand Laser Perfusion Imaging to Assess Radial Artery Patency: A Pilot Study. Journal of Clinical Medicine, 2018, 7, 319.	2.4	4
115	The baby and the bath water: adult cardiac stem cells revisited. European Heart Journal, 2021, 42, 3814-3816.	2.2	4
116	What accounts for the higher clinical efficacy of intracoronary abciximab?. International Journal of Cardiology, 2013, 168, 4410.	1.7	3
117	New imaging techniques project the cellular and molecular alterations underlying bicuspid aortic valve development. Journal of Molecular and Cellular Cardiology, 2019, 129, 197-207.	1.9	3
118	The everlasting dispute between coronary bypass and angioplasty in patients with multivessels coronary artery disease: results of the SYNTAX II study. European Heart Journal Supplements, 2019, 21, B55-B56.	0.1	2
119	Editorial commentary: The cardiac regeneration interchange. Trends in Cardiovascular Medicine, 2020, 30, 344-345.	4.9	1
120	Adult Cardiac Stem Cells: Identity, Location and Potential. Pancreatic Islet Biology, 2014, , 47-90.	0.3	1
121	Cardiac stem cell therapy towards the clinic: The way forward re-starts from within. International Journal of Cardiology, 2021, 345, 105-106.	1.7	1
122	Response to Letter Regarding, â€œAdministration of a Loading Dose Has No Additive Effect on Platelet Aggregation During the Switch From Ongoing Clopidogrel Treatment to Ticagrelor in Patients With Acute Coronary Syndromeâ€. Circulation: Cardiovascular Interventions, 2014, 7, 634-634.	3.9	0
123	Re-broken and remended male heart. European Heart Journal, 2019, 40, 702-702.	2.2	0
124	Editorsâ€™ Preamble to The Journal of Cardiovascular Aging. , 2021, 1, .		0
125	Understanding Tissue Repair Through the Activation of Endogenous Resident Stem Cells. Pancreatic Islet Biology, 2014, , 31-48.	0.3	0