

Daniele Torella

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.

118 papers	11,032 citations	42 h-index	104 g-index
133 ext. papers	12,197 ext. citations	7.5 avg, IF	5.51 L-index

#	Paper	IF	Citations
118	Adult cardiac stem cells are multipotent and support myocardial regeneration. <i>Cell</i> , 2003 , 114, 763-76	56.2	2909
117	Myocardial regeneration by activation of multipotent cardiac stem cells in ischemic heart failure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 8692-7	11.5	516
116	Stem cells in the dog heart are self-renewing, clonogenic, and multipotent and regenerate infarcted myocardium, improving cardiac function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 8966-71	11.5	478
115	Cardiac stem cell and myocyte aging, heart failure, and insulin-like growth factor-1 overexpression. <i>Circulation Research</i> , 2004 , 94, 514-24	15.7	477
114	Cardiac stem cells possess growth factor-receptor systems that after activation regenerate the infarcted myocardium, improving ventricular function and long-term survival. <i>Circulation Research</i> , 2005 , 97, 663-73	15.7	453
113	Bone marrow cells differentiate in cardiac cell lineages after infarction independently of cell fusion. <i>Circulation Research</i> , 2005 , 96, 127-37	15.7	420
112	Intense myocyte formation from cardiac stem cells in human cardiac hypertrophy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 10440-5	11.5	416
111	Cardiac stem cells delivered intravascularly traverse the vessel barrier, regenerate infarcted myocardium, and improve cardiac function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 3766-71	11.5	411
110	Adult c-kit(pos) cardiac stem cells are necessary and sufficient for functional cardiac regeneration and repair. <i>Cell</i> , 2013 , 154, 827-42	56.2	397
109	Senescence and death of primitive cells and myocytes lead to premature cardiac aging and heart failure. <i>Circulation Research</i> , 2003 , 93, 604-13	15.7	320
108	MicroRNA-133 controls vascular smooth muscle cell phenotypic switch in vitro and vascular remodeling in vivo. <i>Circulation Research</i> , 2011 , 109, 880-93	15.7	239
107	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. <i>Journal of the American College of Cardiology</i> , 2011 , 58, 977-86	15.1	200
106	Mechanisms of smooth muscle cell proliferation and endothelial regeneration after vascular injury and stenting: approach to therapy. <i>Circulation Journal</i> , 2011 , 75, 1287-96	2.9	197
105	Nuclear targeting of Akt enhances kinase activity and survival of cardiomyocytes. <i>Circulation Research</i> , 2004 , 94, 884-91	15.7	179
104	Physiological cardiac remodelling in response to endurance exercise training: cellular and molecular mechanisms. <i>Heart</i> , 2012 , 98, 5-10	5.1	175
103	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. <i>Journal of the American College of Cardiology</i> , 2005 , 46, 827-34	15.1	147
102	The adult heart responds to increased workload with physiologic hypertrophy, cardiac stem cell activation, and new myocyte formation. <i>European Heart Journal</i> , 2014 , 35, 2722-31	9.5	126

101	Resident human cardiac stem cells: role in cardiac cellular homeostasis and potential for myocardial regeneration. <i>Nature Clinical Practice Cardiovascular Medicine</i> , 2006 , 3 Suppl 1, S8-13		126
100	Acute beta-adrenergic overload produces myocyte damage through calcium leakage from the ryanodine receptor 2 but spares cardiac stem cells. <i>Journal of Biological Chemistry</i> , 2007 , 282, 11397-409 ^{5.4}		119
99	Aged-senescent cells contribute to impaired heart regeneration. <i>Aging Cell</i> , 2019 , 18, e12931	9.9	112
98	Hydroxymethylglutaryl coenzyme A reductase inhibitor simvastatin prevents cardiac hypertrophy induced by pressure overload and inhibits p21ras activation. <i>Circulation</i> , 2002 , 106, 2118-24	16.7	101
97	Effects of balloon injury on neointimal hyperplasia in streptozotocin-induced diabetes and in hyperinsulinemic nondiabetic pancreatic islet-transplanted rats. <i>Circulation</i> , 2001 , 103, 2980-6	16.7	97
96	Adult cardiac stem cells are multipotent and robustly myogenic: c-kit expression is necessary but not sufficient for their identification. <i>Cell Death and Differentiation</i> , 2017 , 24, 2101-2116	12.7	89
95	Isolation and characterization of resident endogenous c-Kit ⁺ cardiac stem cells from the adult mouse and rat heart. <i>Nature Protocols</i> , 2014 , 9, 1662-81	18.8	85
94	Molecular mechanisms of in-stent restenosis and approach to therapy with eluting stents. <i>Trends in Cardiovascular Medicine</i> , 2003 , 13, 142-8	6.9	81
93	Sustained delivery of insulin-like growth factor-1/hepatocyte growth factor stimulates endogenous cardiac repair in the chronic infarcted pig heart. <i>Journal of Cardiovascular Translational Research</i> , 2014 , 7, 232-41	3.3	80
92	The cardiac stem cell compartment is indispensable for myocardial cell homeostasis, repair and regeneration in the adult. <i>Stem Cell Research</i> , 2014 , 13, 615-30	1.6	76
91	Physical training increases eNOS vascular expression and activity and reduces restenosis after balloon angioplasty or arterial stenting in rats. <i>Circulation Research</i> , 2002 , 91, 1190-7	15.7	75
90	LOWERING the INTensity of oral anticoagulant Therapy in patients with bileaflet mechanical aortic valve replacement: results from the "LOWERING-IT" Trial. <i>American Heart Journal</i> , 2010 , 160, 171-8	4.9	73
89	Carbonic anhydrase activation is associated with worsened pathological remodeling in human ischemic diabetic cardiomyopathy. <i>Journal of the American Heart Association</i> , 2014 , 3, e000434	6	63
88	8-chloro-cAMP inhibits smooth muscle cell proliferation in vitro and neointima formation induced by balloon injury in vivo. <i>Journal of the American College of Cardiology</i> , 2000 , 36, 288-93	15.1	62
87	MicroRNA-1 downregulation increases connexin 43 displacement and induces ventricular tachyarrhythmias in rodent hypertrophic hearts. <i>PLoS ONE</i> , 2013 , 8, e70158	3.7	58
86	Absence of evidence is not evidence of absence: pitfalls of cre knock-ins in the c-Kit locus. <i>Circulation Research</i> , 2014 , 115, 415-8	15.7	53
85	Fludarabine prevents smooth muscle proliferation in vitro and neointimal hyperplasia in vivo through specific inhibition of STAT-1 activation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007 , 292, H2935-43	5.2	53
84	Effects of insulin-glucose infusion on left ventricular function at rest and during dynamic exercise in healthy subjects and noninsulin dependent diabetic patients: a radionuclide ventriculographic study. <i>Journal of the American College of Cardiology</i> , 2000 , 36, 219-26	15.1	53

83	Myocyte death and renewal: modern concepts of cardiac cellular homeostasis. <i>Nature Clinical Practice Cardiovascular Medicine</i> , 2007 , 4 Suppl 1, S52-9		52
82	Kit knock-in mice fail to fate-map cardiac stem cells. <i>Nature</i> , 2018 , 555, E1-E5	50.4	50
81	Aging exacerbates negative remodeling and impairs endothelial regeneration after balloon injury. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004 , 287, H2850-60	5.2	47
80	Rat carotid artery dilation by PTCA balloon catheter induces neointima formation in presence of IEL rupture. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002 , 283, H760-7	5.2	44
79	Membrane-bound protein kinase A inhibits smooth muscle cell proliferation in vitro and in vivo by amplifying cAMP-protein kinase A signals. <i>Circulation Research</i> , 2001 , 88, 319-24	15.7	42
78	A new rat model of small vessel stenting. <i>Basic Research in Cardiology</i> , 2000 , 95, 179-85	11.8	42
77	Modulation of Circulating MicroRNAs Levels during the Switch from Clopidogrel to Ticagrelor. <i>BioMed Research International</i> , 2016 , 2016, 3968206	3	42
76	Routine ganglionic plexi ablation during Maze procedure improves hospital and early follow-up results of mitral surgery. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2008 , 136, 408-18	1.5	41
75	Cochlear dysfunction in type 2 diabetes: a complication independent of neuropathy and acute hyperglycemia. <i>Metabolism: Clinical and Experimental</i> , 1999 , 48, 1346-50	12.7	41
74	Anti-oxidant effect of bergamot polyphenolic fraction counteracts doxorubicin-induced cardiomyopathy: Role of autophagy and c-kitCD45CD31 cardiac stem cell activation. <i>Journal of Molecular and Cellular Cardiology</i> , 2018 , 119, 10-18	5.8	38
73	Growth-factor-mediated cardiac stem cell activation in myocardial regeneration. <i>Nature Clinical Practice Cardiovascular Medicine</i> , 2007 , 4 Suppl 1, S46-51		38
72	Cardiac stem and progenitor cell biology for regenerative medicine. <i>Trends in Cardiovascular Medicine</i> , 2005 , 15, 229-36	6.9	38
71	Gene therapy for restenosis after balloon angioplasty and stenting. <i>Cardiology in Review</i> , 1999 , 7, 324-31	3.2	38
70	Role of c-Kit in Myocardial Regeneration and Aging. <i>Frontiers in Endocrinology</i> , 2019 , 10, 371	5.7	35
69	Differential regulation of vascular smooth muscle and endothelial cell proliferation in vitro and in vivo by cAMP/PKA-activated p85alphaPI3K. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009 , 297, H2015-25	5.2	34
68	The instantaneous wave-free ratio (iFR) for evaluation of non-culprit lesions in patients with acute coronary syndrome and multivessel disease. <i>International Journal of Cardiology</i> , 2015 , 178, 46-54	3.2	33
67	Cardiac stem and progenitor cell identification: different markers for the same cell?. <i>Frontiers in Bioscience - Scholar</i> , 2010 , 2, 641-52	2.4	33
66	The role of mitochondrial dynamics in cardiovascular diseases. <i>British Journal of Pharmacology</i> , 2021 , 178, 2060-2076	8.6	32

65	Effect of stent coating alone on in vitro vascular smooth muscle cell proliferation and apoptosis. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004 , 286, H902-8	5.2	30
64	Targeting Cardiac Stem Cell Senescence to Treat Cardiac Aging and Disease. <i>Cells</i> , 2020 , 9,	7.9	29
63	miRNA Regulation of the Hyperproliferative Phenotype of Vascular Smooth Muscle Cells in Diabetes. <i>Diabetes</i> , 2018 , 67, 2554-2568	0.9	29
62	Hindlimb Ischemia Impairs Endothelial Recovery and Increases Neointimal Proliferation in the Carotid Artery. <i>Scientific Reports</i> , 2018 , 8, 761	4.9	27
61	Optimizing cardiac repair and regeneration through activation of the endogenous cardiac stem cell compartment. <i>Journal of Cardiovascular Translational Research</i> , 2012 , 5, 667-77	3.3	27
60	The role of endothelial progenitor and cardiac stem cells in the cardiovascular adaptations to age and exercise. <i>Frontiers in Bioscience - Landmark</i> , 2009 , 14, 4685-702	2.8	27
59	HMGA1 is a novel candidate gene for myocardial infarction susceptibility. <i>International Journal of Cardiology</i> , 2017 , 227, 331-334	3.2	26
58	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. <i>Circulation: Cardiovascular Interventions</i> , 2014 , 7, 104-12	6	26
57	c-kit Haploinsufficiency impairs adult cardiac stem cell growth, myogenicity and myocardial regeneration. <i>Cell Death and Disease</i> , 2019 , 10, 436	9.8	25
56	Proteomics reveals high levels of vitamin D binding protein in myocardial infarction. <i>Frontiers in Bioscience - Elite</i> , 2010 , 2, 796-804	1.6	25
55	Adult Cardiac Stem Cell Aging: A Reversible Stochastic Phenomenon?. <i>Oxidative Medicine and Cellular Longevity</i> , 2019 , 2019, 5813147	6.7	24
54	Activated c-Kit receptor in the heart promotes cardiac repair and regeneration after injury. <i>Cell Death and Disease</i> , 2016 , 7, e2317	9.8	24
53	Molecular basis of functional myogenic specification of Bona Fide multipotent adult cardiac stem cells. <i>Cell Cycle</i> , 2018 , 17, 927-946	4.7	21
52	Left radial access for percutaneous coronary procedures: from neglected to performer? A meta-analysis of 14 studies including 7,603 procedures. <i>International Journal of Cardiology</i> , 2014 , 171, 66-72	3.2	21
51	Clinical and Procedural Outcomes of 5-French versus 6-French Sheaths in Transradial Coronary Interventions. <i>Medicine (United States)</i> , 2015 , 94, e2170	1.8	21
50	Atrial myxomas arise from multipotent cardiac stem cells. <i>European Heart Journal</i> , 2020 , 41, 4332-4345	9.5	20
49	Adult c-kit(pos) cardiac stem cells fulfill Koch's postulates as causal agents for cardiac regeneration. <i>Circulation Research</i> , 2014 , 114, e24-6	15.7	20
48	Unravelling the Biology of Adult Cardiac Stem Cell-Derived Exosomes to Foster Endogenous Cardiac Regeneration and Repair. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	19

47	The use and abuse of Cre/Lox recombination to identify adult cardiomyocyte renewal rate and origin. <i>Pharmacological Research</i> , 2018 , 127, 116-128	10.2	19
46	Resident progenitors and bone marrow stem cells in myocardial renewal and repair. <i>Nature Clinical Practice Cardiovascular Medicine</i> , 2006 , 3 Suppl 1, S83-9		19
45	The duration of balloon inflation affects the luminal diameter of coronary segments after bioresorbable vascular scaffolds deployment. <i>BMC Cardiovascular Disorders</i> , 2015 , 15, 169	2.3	18
44	Cardiac stem cell-based myocardial regeneration: towards a translational approach. <i>Cardiovascular and Hematological Agents in Medicinal Chemistry</i> , 2008 , 6, 53-9	1.9	18
43	Combining cell and gene therapy to advance cardiac regeneration. <i>Expert Opinion on Biological Therapy</i> , 2018 , 18, 409-423	5.4	16
42	Neointimal proliferation is associated with clinical restenosis 2 years after fully bioresorbable vascular scaffold implantation. <i>Circulation: Cardiovascular Imaging</i> , 2014 , 7, 755-7	3.9	16
41	Mitogen-activated protein kinases activation in T lymphocytes of patients with acute coronary syndromes. <i>Basic Research in Cardiology</i> , 2011 , 106, 667-79	11.8	15
40	Delayed flow-mediated vasodilation and critical coronary stenosis. <i>Journal of Investigative Medicine</i> , 2018 , 66, 1-7	2.9	14
39	Intracoronary abciximab reduces death and major adverse cardiovascular events in acute coronary syndromes: a meta-analysis of clinical trials. <i>International Journal of Cardiology</i> , 2013 , 168, 1298-305	3.2	14
38	Medicina regenerativa cardiovascular en la encrucijada. Es urgente basar los ensayos clínicos sobre terapia celular en datos sólidos obtenidos en animales experimentales relevantes para los humanos. <i>Revista Espanola De Cardiologia</i> , 2006 , 59, 1175-1189	1.5	14
37	Subclinical myocardial dysfunction and cardiac autonomic dysregulation are closely associated in obese children and adolescents: the potential role of insulin resistance. <i>PLoS ONE</i> , 2015 , 10, e0123916	3.7	12
36	Cardiac adaptations from 4 weeks of intensity-controlled vigorous exercise are lost after a similar period of detraining. <i>Physiological Reports</i> , 2015 , 3, e12302	2.6	12
35	Response to Molkenin's letter to the editor regarding article, "the absence of evidence is not evidence of absence: the pitfalls of Cre knock-ins in the c-kit locus". <i>Circulation Research</i> , 2014 , 115, e38-9	15.7	12
34	Mediterranean jellyfish sting-induced Tako-Tsubo cardiomyopathy. <i>European Heart Journal</i> , 2011 , 32, 18	9.5	12
33	Aspiration thrombectomy: an easily forgiven "latecomer". <i>Journal of the American College of Cardiology</i> , 2014 , 63, 2052-3	15.1	11
32	Statins Stimulate New Myocyte Formation After Myocardial Infarction by Activating Growth and Differentiation of the Endogenous Cardiac Stem Cells. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	11
31	Heterogeneity of Adult Cardiac Stem Cells. <i>Advances in Experimental Medicine and Biology</i> , 2019 , 1169, 141-178	3.6	10
30	Combined lymphocyte/monocyte count, D-dimer and iron status predict COVID-19 course and outcome in a long-term care facility. <i>Journal of Translational Medicine</i> , 2021 , 19, 79	8.5	9

29	Novel Perspectives in Redox Biology and Pathophysiology of Failing Myocytes: Modulation of the Intramyocardial Redox Milieu for Therapeutic Interventions-A Review Article from the Working Group of Cardiac Cell Biology, Italian Society of Cardiology. <i>Oxidative Medicine and Cellular Longevity</i> , 2016 , 2016, 6353469	6.7	8
28	WIND (Workflow for pIRNAs aNd beyonD): a strategy for in-depth analysis of small RNA-seq data. <i>F1000Research</i> , 2021 , 10, 1	3.6	7
27	Low-dose anticoagulation after isolated mechanical aortic valve replacement with Liva Nova Bicarbon prosthesis: A post hoc analysis of LOWERING-IT Trial. <i>Scientific Reports</i> , 2018 , 8, 8405	4.9	6
26	Intracoronary versus intravenous abciximab bolus administration. <i>Journal of the American College of Cardiology</i> , 2014 , 63, 1340-1341	15.1	6
25	Cardiac autonomic regulation in response to a mixed meal is impaired in obese children and adolescents: the role played by insulin resistance. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2014 , 99, 3199-207	5.6	6
24	Generation of new cardiomyocytes after injury: de novo formation from resident progenitors vs. replication of pre-existing cardiomyocytes. <i>Annals of Translational Medicine</i> , 2015 , 3, S8	3.2	6
23	Physical Exercise and Cardiac Repair: The Potential Role of Nitric Oxide in Boosting Stem Cell Regenerative Biology. <i>Antioxidants</i> , 2021 , 10,	7.1	5
22	Delayed sudden radial artery rupture after left transradial coronary catheterization: a case report. <i>Medicine (United States)</i> , 2015 , 94, e634	1.8	4
21	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. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	4
20	Testing regeneration of human myocardium without knowing the identity and the number of effective bone marrow cells transplanted: are the results meaningful?. <i>Journal of the American College of Cardiology</i> , 2006 , 48, 417; author reply 417-8	15.1	4
19	What accounts for the higher clinical efficacy of intracoronary abciximab?. <i>International Journal of Cardiology</i> , 2013 , 168, 4410	3.2	3
18	The baby and the bath water: adult cardiac stem cells revisited. <i>European Heart Journal</i> , 2021 , 42, 3814-3816	3.3	3
17	The everlasting dispute between coronary bypass and angioplasty in patients with multivessels coronary artery disease: results of the SYNTAX II study. <i>European Heart Journal Supplements</i> , 2019 , 21, B55-B56	1.5	2
16	From Spheroids to Organoids: The Next Generation of Model Systems of Human Cardiac Regeneration in a Dish.. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	2
15	Migration of a stent from left main and its retrieval from femoral artery: A case report. <i>Medicine (United States)</i> , 2017 , 96, e9281	1.8	2
14	Reparative cell therapy for the heart: critical internal appraisal of the field in response to recent controversies. <i>ESC Heart Failure</i> , 2021 , 8, 2306-2309	3.7	2
13	New imaging techniques project the cellular and molecular alterations underlying bicuspid aortic valve development. <i>Journal of Molecular and Cellular Cardiology</i> , 2019 , 129, 197-207	5.8	2
12	Hand Laser Perfusion Imaging to Assess Radial Artery Patency: A Pilot Study. <i>Journal of Clinical Medicine</i> , 2018 , 7,	5.1	2

11	In vitro CSC-derived cardiomyocytes exhibit the typical microRNA-mRNA blueprint of endogenous cardiomyocytes. <i>Communications Biology</i> , 2021 , 4, 1146	6.7	2
10	Whole-genome analysis of SARS-CoV-2 in a 2020 infection cluster in a nursing home of Southern Italy.. <i>Infection, Genetics and Evolution</i> , 2022 , 105253	4.5	2
9	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 ³ . <i>Revista Espanola De Cardiologia (English Ed)</i> , 2006 , 59, 1175-1189	0.7	1
8	WIND (Workflow for pIRNAs aNd beyonD): a strategy for in-depth analysis of small RNA-seq data. <i>F1000Research</i> , 2021 , 10, 1	3.6	1
7	Adult Cardiac Stem Cells: Identity, Location and Potential. <i>Pancreatic Islet Biology</i> , 2014 , 47-90	0.4	1
6	Lyotropic Liquid Crystals: A Biocompatible and Safe Material for Local Cardiac Application.. <i>Pharmaceutics</i> , 2022 , 14,	6.4	1
5	Iron Administration Overcomes Resistance to Erastin-Mediated Ferroptosis in Ovarian Cancer Cells.. <i>Frontiers in Oncology</i> , 2022 , 12, 868351	5.3	1
4	Use of Impella device in cardiogenic shock and its clinical outcomes: A systematic review and meta-analysis.. <i>IJC Heart and Vasculature</i> , 2022 , 40, 101007	2.4	1
3	Current and future therapeutic perspective in chronic heart failure.. <i>Pharmacological Research</i> , 2021 , 175, 106035	10.2	0
2	Response to letter regarding, "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". <i>Circulation: Cardiovascular Interventions</i> , 2014 , 7, 634	6	
1	Understanding Tissue Repair Through the Activation of Endogenous Resident Stem Cells. <i>Pancreatic Islet Biology</i> , 2014 , 31-48	0.4	