Serena Zacchigna

List of Publications by Year in Descending Order

105 papers	7,394 citations	41 h-index	85 g-index
120 ext. papers	8,651 ext. citations	10.6 avg, IF	5.64 L-index

#	Paper	IF	Citations
105	Bone morphogenetic protein 1.3 inhibition decreases scar formation and supports cardiomyocyte survival after myocardial infarction.. *Nature Communications*, **2022**, 13, 81	17.4	2
104	Animal models and animal-free innovations for cardiovascular research: current status and routes to be explored. Consensus document of the ESC working group on myocardial function and the ESC Working Group on Cellular Biology of the Heart.. *Cardiovascular Research*, **2022**,	9.9	3
103	A new laser device for ultra-rapid and sustainable aerosol sterilization.. *Environment International*, **2022**, 164, 107272	12.9	0
102	TIM4 expression by dendritic cells mediates uptake of tumor-associated antigens and anti-tumor responses. *Nature Communications*, **2021**, 12, 2237	17.4	8
101	SARS-CoV-2, myocardial injury and inflammation: insights from a large clinical and autopsy study. *Clinical Research in Cardiology*, **2021**, 110, 1822-1831	6.1	2
100	Towards standardization of echocardiography for the evaluation of left ventricular function in adult rodents: a position paper of the ESC Working Group on Myocardial Function. *Cardiovascular Research*, **2021**, 117, 43-59	9.9	25
99	Genetic lineage tracing reveals poor angiogenic potential of cardiac endothelial cells. *Cardiovascular Research*, **2021**, 117, 256-270	9.9	12
98	Antimicrobial activity of amphiphilic nanomicelles loaded with curcumin against Pseudomonas aeruginosa alone and activated by blue laser light. *Journal of Biophotonics*, **2021**, 14, e202000350	3.1	6
97	A ligand-insensitive UNC5B splicing isoform regulates angiogenesis by promoting apoptosis. *Nature Communications*, **2021**, 12, 4872	17.4	2
96	A microRNA program regulates the balance between cardiomyocyte hyperplasia and hypertrophy and stimulates cardiac regeneration. *Nature Communications*, **2021**, 12, 4808	17.4	2
95	A Polyphenol-Rich Extract of Olive Mill Wastewater Enhances Cancer Chemotherapy Effects, While Mitigating Cardiac Toxicity. *Frontiers in Pharmacology*, **2021**, 12, 694762	5.6	3
94	Reciprocal organ interactions during heart failure: a position paper from the ESC Working Group on Myocardial Function. *Cardiovascular Research*, **2021**, 117, 2416-2433	9.9	5
93	Wet-dry-wet drug screen leads to the synthesis of TS1, a novel compound reversing lung fibrosis through inhibition of myofibroblast differentiation.. *Cell Death and Disease*, **2021**, 13, 2	9.8	
92	Persistence of viral RNA, pneumocyte syncytia and thrombosis are hallmarks of advanced COVID-19 pathology. *EBioMedicine*, **2020**, 61, 103104	8.8	155
91	Non-coding RNAs: update on mechanisms and therapeutic targets from the ESC Working Groups of Myocardial Function and Cellular Biology of the Heart. *Cardiovascular Research*, **2020**, 116, 1805-1819	9.9	18
90	Cardiac dysfunction in cancer patients: beyond direct cardiomyocyte damage of anticancer drugs: novel cardio-oncology insights from the joint 2019 meeting of the ESC Working Groups of Myocardial Function and Cellular Biology of the Heart. *Cardiovascular Research*, **2020**, 116, 1820-1834	9.9	17
89	Alternative splicing in endothelial cells: novel therapeutic opportunities in cancer angiogenesis. *Journal of Experimental and Clinical Cancer Research*, **2020**, 39, 275	12.8	7

88	Immune Cell Therapies to Improve Regeneration and Revascularization of Non-Healing Wounds. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	2
87	Photobiomodulation modulates inflammation and oral microbiome: a pilot study. *Biomarkers*, **2020**, 25, 677-684	2.6	2
86	Campaign to Increase Awareness of Oral Cancer Risk Factors Among Preadolescents. *Journal of Cancer Education*, **2020**, 35, 616-620	1.8	4
85	Endothelial cell-cardiomyocyte crosstalk in heart development and disease. *Journal of Physiology*, **2020**, 598, 2923-2939	3.9	41
84	Analgesic effect of Photobiomodulation Therapy: An in vitro and in vivo study. *Journal of Biophotonics*, **2019**, 12, e201900043	3.1	12
83	Common Regulatory Pathways Mediate Activity of MicroRNAs Inducing Cardiomyocyte Proliferation. *Cell Reports*, **2019**, 27, 2759-2771.e5	10.6	52
82	MicroRNA therapy stimulates uncontrolled cardiac repair after myocardial infarction in pigs. *Nature* , **2019**, 569, 418-422	50.4	194
81	Is early detection of late-onset Pompe disease a pneumologist's affair? A lesson from an Italian screening study. *Orphanet Journal of Rare Diseases*, **2019**, 14, 62	4.2	6
80	Blue laser light inhibits biofilm formation in vitro and in vivo by inducing oxidative stress. *Npj Biofilms and Microbiomes*, **2019**, 5, 29	8.2	27
79	High-throughput screening discovers antifibrotic properties of haloperidol by hindering myofibroblast activation. *JCI Insight*, **2019**, 4,	9.9	9
78	Cardiac revascularization: state of the art and perspectives. *Vascular Biology (Bristol, England)*, **2019** , 1, H47-H51	2.9	1
77	miR-200 family members reduce senescence and restore idiopathic pulmonary fibrosis type II alveolar epithelial cell transdifferentiation. *ERJ Open Research*, **2019**, 5,	3.5	17
76	Therapeutic Delivery of miR-148a Suppresses Ventricular Dilation in Heart Failure. *Molecular Therapy*, **2019**, 27, 584-599	11.7	24
75	VSV-G-Enveloped Vesicles for Traceless Delivery of CRISPR-Cas9. *Molecular Therapy - Nucleic Acids*, **2018**, 12, 453-462	10.7	55
74	Taming the Notch Transcriptional Regulator for Cancer Therapy. *Molecules*, **2018**, 23,	4.8	30
73	The global role of biotechnology for non communicable disorders. *Journal of Biotechnology*, **2018**, 283, 115-119	3.7	2
72	Photobiomodulation at Multiple Wavelengths Differentially Modulates Oxidative Stress and. *Oxidative Medicine and Cellular Longevity*, **2018**, 2018, 6510159	6.7	30
71	Self-Assembled Nanomicelles as Curcumin Drug Delivery Vehicles: Impact on Solitary Fibrous Tumor Cell Protein Expression and Viability. *Molecular Pharmaceutics*, **2018**, 15, 4689-4701	5.6	7

70	Paracrine effect of regulatory T cells promotes cardiomyocyte proliferation during pregnancy and after myocardial infarction. *Nature Communications*, **2018**, 9, 2432	17.4	76
69	Single-Dose Intracardiac Injection of Pro-Regenerative MicroRNAs Improves Cardiac Function After Myocardial Infarction. *Circulation Research*, **2017**, 120, 1298-1304	15.7	111
68	In Vivo Functional Selection Identifies Cardiotrophin-1 as a Cardiac Engraftment Factor for Mesenchymal Stromal Cells. *Circulation*, **2017**, 136, 1509-1524	16.7	18
67	Neuropilin-1-Expressing Monocytes: Implications for Therapeutic Angiogenesis and Cancer Therapy **2017**, 213-224		
66	The diagnostic performance parameters of Narrow Band Imaging: A preclinical and clinical study. *Oral Oncology*, **2016**, 60, 130-6	4.4	10
65	Open questions and novel concepts in oral cancer surgery. *European Archives of Oto-Rhino-Laryngology*, **2016**, 273, 1975-85	3.5	8
64	Same strategy for pitfalls of radiotherapy in different anatomical districts. *Lasers in Medical Science*, **2016**, 31, 471-9	3.1	6
63	Laser Therapy Inhibits Tumor Growth in Mice by Promoting Immune Surveillance and Vessel Normalization. *EBioMedicine*, **2016**, 11, 165-172	8.8	39
62	AAV-mediated in vivo functional selection of tissue-protective factors against ischaemia. *Nature Communications*, **2015**, 6, 7388	17.4	49
61	In vivo therapeutic potential of mesenchymal stromal cells depends on the source and the isolation procedure. *Stem Cell Reports*, **2015**, 4, 332-9	8	83
60	Harnessing the microRNA pathway for cardiac regeneration. *Journal of Molecular and Cellular Cardiology*, **2015**, 89, 68-74	5.8	31
59	Genome-wide RNAi screening identifies host restriction factors critical for in vivo AAV transduction. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 11276-81	11.5	22
58	Is laser biostimulation safe even when performed in neoplastic fields?. *Journal of Clinical Oncology*, **2015**, 33, 3-3	2.2	2
57	Laser therapy for radio-induced oral mucositis and skin dermatitis: Oral medicine, radiotherapy and oncology shared experience from the University of Trieste.. *Journal of Clinical Oncology*, **2015**, 33, 213-213	2.2	
56	The oxygen-rich postnatal environment induces cardiomyocyte cell-cycle arrest through DNA damage response. *Cell*, **2014**, 157, 565-79	56.2	461
55	In vivo activation of a conserved microRNA program induces mammalian heart regeneration. *Cell Stem Cell*, **2014**, 15, 589-604	18	141
54	Adeno-associated virus vectors as therapeutic and investigational tools in the cardiovascular system. *Circulation Research*, **2014**, 114, 1827-46	15.7	84
53	Epigenetic modification at Notch responsive promoters blunts efficacy of inducing notch pathway reactivation after myocardial infarction. *Circulation Research*, **2014**, 115, 636-49	15.7	46

52	AuthorsVreply. *American Journal of Pathology*, **2014**, 184, 1251-2	5.8	2
51	Transgene detection by digital droplet PCR. *PLoS ONE*, **2014**, 9, e111781	3.7	15
50	Extra- and intracellular factors regulating cardiomyocyte proliferation in postnatal life. *Cardiovascular Research*, **2014**, 102, 312-20	9.9	35
49	Class IV laser therapy as treatment for chemotherapy-induced oral mucositis in onco-haematological paediatric patients: a prospective study. *International Journal of Paediatric Dentistry*, **2014**, 24, 441-9	3.1	29
48	Effect of class IV laser therapy on chemotherapy-induced oral mucositis: a clinical and experimental study. *American Journal of Pathology*, **2013**, 183, 1747-1757	5.8	40
47	Macrophage microRNA-155 promotes cardiac hypertrophy and failure. *Circulation*, **2013**, 128, 1420-32	16.7	190
46	Lovastatin dose-dependently potentiates the pro-inflammatory activity of lipopolysaccharide both in vitro and in vivo. *Journal of Cardiovascular Translational Research*, **2013**, 6, 981-8	3.3	11
45	Inhibition of tumor angiogenesis and growth by a small-molecule multi-FGF receptor blocker with allosteric properties. *Cancer Cell*, **2013**, 23, 477-88	24.3	110
44	Virus-mediated gene delivery for human gene therapy. *Journal of Controlled Release*, **2012**, 161, 377-88	11.7	218
43	Functional screening identifies miRNAs inducing cardiac regeneration. *Nature*, **2012**, 492, 376-81	50.4	724
42	Terminal differentiation of cardiac and skeletal myocytes induces permissivity to AAV transduction by relieving inhibition imposed by DNA damage response proteins. *Molecular Therapy*, **2012**, 20, 2087-97	11.7	51
41	Idiopathic dilated cardiomyopathy and persistent viral infection: lack of association in a controlled study using a quantitative assay. *Heart Lung and Circulation*, **2012**, 21, 787-93	1.8	20
40	VEGF gene therapy: therapeutic angiogenesis in the clinic and beyond. *Gene Therapy*, **2012**, 19, 622-9	4	165
39	Enhanced athletic performance on multisite AAV-IGF1 gene transfer coincides with massive modification of the muscle proteome. *Human Gene Therapy*, **2012**, 23, 146-57	4.8	17
38	TRAIL shows potential cardioprotective activity. *Investigational New Drugs*, **2012**, 30, 1257-60	4.3	27
37	Neuropilin-1 identifies a subset of bone marrow Gr1- monocytes that can induce tumor vessel normalization and inhibit tumor growth. *Cancer Research*, **2012**, 72, 6371-81	10.1	44
36	Vascular endothelial growth factor-B gene transfer exacerbates retinal and choroidal neovascularization and vasopermeability without promoting inflammation. *Molecular Vision*, **2011**, 17, 492-507	2.3	27
35	A novel animal model to study non-spontaneous bisphosphonates osteonecrosis of jaw. *Journal of Oral Pathology and Medicine*, **2010**, 39, 390-6	3.3	48

34	Matrix-binding vascular endothelial growth factor (VEGF) isoforms guide granule cell migration in the cerebellum via VEGF receptor Flk1. *Journal of Neuroscience*, **2010**, 30, 15052-66	6.6	68
33	Cardiomyocyte VEGFR-1 activation by VEGF-B induces compensatory hypertrophy and preserves cardiac function after myocardial infarction. *FASEB Journal*, **2010**, 24, 1467-78	0.9	134
32	Impaired autonomic regulation of resistance arteries in mice with low vascular endothelial growth factor or upon vascular endothelial growth factor trap delivery. *Circulation*, **2010**, 122, 273-81	16.7	30
31	Intramyocardial VEGF-B167 gene delivery delays the progression towards congestive failure in dogs with pacing-induced dilated cardiomyopathy. *Circulation Research*, **2010**, 106, 1893-903	15.7	76
30	Further pharmacological and genetic evidence for the efficacy of PlGF inhibition in cancer and eye disease. *Cell*, **2010**, 141, 178-90	56.2	218
29	Loss of the cholesterol-binding protein prominin-1/CD133 causes disk dysmorphogenesis and photoreceptor degeneration. *Journal of Neuroscience*, **2009**, 29, 2297-308	6.6	132
28	Inducible adeno-associated virus vectors promote functional angiogenesis in adult organisms via regulated vascular endothelial growth factor expression. *Cardiovascular Research*, **2009**, 83, 663-71	9.9	62
27	Short term effects of doxycycline on matrix metalloproteinases 2 and 9. *Cardiovascular Drugs and Therapy*, **2009**, 23, 153-9	3.9	17
26	Improving human interferon-beta production in mammalian cell lines by insertion of an intronic sequence within its naturally uninterrupted gene. *Biotechnology and Applied Biochemistry*, **2009**, 52, 191-8	2.8	8
25	Chapter 20: Gene therapy perspectives for nerve repair. *International Review of Neurobiology*, **2009**, 87, 381-92	4.4	25
24	Neurovascular signalling defects in neurodegeneration. *Nature Reviews Neuroscience*, **2008**, 9, 169-81	13.5	277
23	Deficiency or inhibition of oxygen sensor Phd1 induces hypoxia tolerance by reprogramming basal metabolism. *Nature Genetics*, **2008**, 40, 170-80	36.3	383
22	Modification of kidney barrier function by the urokinase receptor. *Nature Medicine*, **2008**, 14, 55-63	50.5	410
21	Expression profiling of angiogenic genes for the characterisation of colorectal carcinoma. *European Journal of Cancer*, **2008**, 44, 1761-9	7.5	5
20	A novel myogenic cell line with phenotypic properties of muscle progenitors. *Journal of Molecular Medicine*, **2008**, 86, 105-15	5.5	3
19	Similarities between angiogenesis and neural development: what small animal models can tell us. *Current Topics in Developmental Biology*, **2008**, 80, 1-55	5.3	50
18	Bone marrow cells recruited through the neuropilin-1 receptor promote arterial formation at the sites of adult neoangiogenesis in mice. *Journal of Clinical Investigation*, **2008**, 118, 2062-75	15.9	65
17	Guidance of Vascular and Neuronal Network Formation **2008**, 47-65		

16	Angiogenesis in the Central Nervous System **2008**, 489-504		2
15	Improved survival of rat ischemic cutaneous and musculocutaneous flaps after VEGF gene transfer. *Microsurgery*, **2007**, 27, 439-45	2.1	10
14	In vivo imaging shows abnormal function of vascular endothelial growth factor-induced vasculature. *Human Gene Therapy*, **2007**, 18, 515-24	4.8	59
13	Anti-PlGF inhibits growth of VEGF(R)-inhibitor-resistant tumors without affecting healthy vessels. *Cell*, **2007**, 131, 463-75	56.2	666
12	Vascular and Neuronal Development: Intersecting Parallelisms and rossroads **2007**, 159-189		
11	Systemic tumor necrosis factor-related apoptosis-inducing ligand delivery shows antiatherosclerotic activity in apolipoprotein E-null diabetic mice. *Circulation*, **2006**, 114, 1522-30	16.7	134
10	Adeno-associated virus-mediated transduction of VEGF165 improves cardiac tissue viability and functional recovery after permanent coronary occlusion in conscious dogs. *Circulation Research*, **2006**, 98, 954-61	15.7	104
9	Bone marrow mononuclear cells are recruited to the sites of VEGF-induced neovascularization but are not incorporated into the newly formed vessels. *Blood*, **2006**, 107, 3546-54	2.2	130
8	Improved survival of ischemic cutaneous and musculocutaneous flaps after vascular endothelial growth factor gene transfer using adeno-associated virus vectors. *American Journal of Pathology*, **2005**, 167, 981-91	5.8	32
7	Pentraxin 3 inhibits fibroblast growth factor 2-dependent activation of smooth muscle cells in vitro and neointima formation in vivo. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2005**, 25, 1837-42	9.4	79
6	Vascular endothelial growth factor stimulates skeletal muscle regeneration in vivo. *Molecular Therapy*, **2004**, 10, 844-54	11.7	231
5	Potent inhibition of arterial intimal hyperplasia by TIMP1 gene transfer using AAV vectors. *Molecular Therapy*, **2004**, 9, 876-84	11.7	11
4	AAV-mediated gene transfer of tissue inhibitor of metalloproteinases-1 inhibits vascular tumor growth and angiogenesis in vivo. *Cancer Gene Therapy*, **2004**, 11, 73-80	5.4	55
3	Evidence for a proangiogenic activity of TNF-related apoptosis-inducing ligand. *Neoplasia*, **2004**, 6, 364-73	5.4	47
2	Induction of functional neovascularization by combined VEGF and angiopoietin-1 gene transfer using AAV vectors. *Molecular Therapy*, **2003**, 7, 450-9	11.7	112
1	Persistence of viral RNA, widespread thrombosis and abnormal cellular syncytia are hallmarks of COVID-19 lung pathology		10