## Serena Zacchigna

List of Publications by Year in descending order

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SEDENIA ZACCHICNIA

#	Article	IF	CITATIONS
1	Functional screening identifies miRNAs inducing cardiac regeneration. Nature, 2012, 492, 376-381.	13.7	922
2	Anti-PIGF Inhibits Growth of VEGF(R)-Inhibitor-Resistant Tumors without Affecting Healthy Vessels. Cell, 2007, 131, 463-475.	13.5	722
3	The Oxygen-Rich Postnatal Environment Induces Cardiomyocyte Cell-Cycle Arrest through DNA Damage Response. Cell, 2014, 157, 565-579.	13.5	688
4	Modification of kidney barrier function by the urokinase receptor. Nature Medicine, 2008, 14, 55-63.	15.2	501
5	Deficiency or inhibition of oxygen sensor Phd1 induces hypoxia tolerance by reprogramming basal metabolism. Nature Genetics, 2008, 40, 170-180.	9.4	433
6	MicroRNA therapy stimulates uncontrolled cardiac repair after myocardial infarction in pigs. Nature, 2019, 569, 418-422.	13.7	347
7	Neurovascular signalling defects in neurodegeneration. Nature Reviews Neuroscience, 2008, 9, 169-181.	4.9	316
8	Persistence of viral RNA, pneumocyte syncytia and thrombosis are hallmarks of advanced COVID-19 pathology. EBioMedicine, 2020, 61, 103104.	2.7	295
9	Vascular endothelial growth factor stimulates skeletal muscle regeneration in Vivo. Molecular Therapy, 2004, 10, 844-854.	3.7	284
10	Virus-mediated gene delivery for human gene therapy. Journal of Controlled Release, 2012, 161, 377-388.	4.8	248
11	Further Pharmacological and Genetic Evidence for the Efficacy of PIGF Inhibition in Cancer and Eye Disease. Cell, 2010, 141, 178-190.	13.5	243
12	Macrophage MicroRNA-155 Promotes Cardiac Hypertrophy and Failure. Circulation, 2013, 128, 1420-1432.	1.6	225
13	VEGF gene therapy: therapeutic angiogenesis in the clinic and beyond. Gene Therapy, 2012, 19, 622-629.	2.3	212
14	InÂVivo Activation of a Conserved MicroRNA Program Induces Mammalian Heart Regeneration. Cell Stem Cell, 2014, 15, 589-604.	5.2	178
15	Loss of the Cholesterol-Binding Protein Prominin-1/CD133 Causes Disk Dysmorphogenesis and Photoreceptor Degeneration. Journal of Neuroscience, 2009, 29, 2297-2308.	1.7	164
16	Single-Dose Intracardiac Injection of Pro-Regenerative MicroRNAs Improves Cardiac Function After Myocardial Infarction. Circulation Research, 2017, 120, 1298-1304.	2.0	162
17	Cardiomyocyte VEGFRâ€1 activation by VEGFâ€B induces compensatory hypertrophy and preserves cardiac function after myocardial infarction. FASEB Journal, 2010, 24, 1467-1478.	0.2	159
18	Systemic Tumor Necrosis Factor–Related Apoptosis-Inducing Ligand Delivery Shows Antiatherosclerotic Activity in Apolipoprotein E–Null Diabetic Mice. Circulation, 2006, 114, 1522-1530.	1.6	147

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19	Bone marrow mononuclear cells are recruited to the sites of VECF-induced neovascularization but are not incorporated into the newly formed vessels. Blood, 2006, 107, 3546-3554.	0.6	139
20	Inhibition of Tumor Angiogenesis and Growth by a Small-Molecule Multi-FGF Receptor Blocker with Allosteric Properties. Cancer Cell, 2013, 23, 477-488.	7.7	138
21	Paracrine effect of regulatory T cells promotes cardiomyocyte proliferation during pregnancy and after myocardial infarction. Nature Communications, 2018, 9, 2432.	5.8	130
22	Induction of functional neovascularization by combined VEGF and angiopoietin-1 gene transfer using AAV vectors. Molecular Therapy, 2003, 7, 450-459.	3.7	124
23	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, 954-961.	2.0	111
24	Adeno-Associated Virus Vectors as Therapeutic and Investigational Tools in the Cardiovascular System. Circulation Research, 2014, 114, 1827-1846.	2.0	111
25	Endothelial cell–cardiomyocyte crosstalk in heart development and disease. Journal of Physiology, 2020, 598, 2923-2939.	1.3	104
26	InÂVivo Therapeutic Potential of Mesenchymal Stromal Cells Depends on the Source and the Isolation Procedure. Stem Cell Reports, 2015, 4, 332-339.	2.3	98
27	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, 1837-1842.	1.1	93
28	VSV-G-Enveloped Vesicles for Traceless Delivery of CRISPR-Cas9. Molecular Therapy - Nucleic Acids, 2018, 12, 453-462.	2.3	85
29	Intramyocardial VEGF-B <sub>167</sub> Gene Delivery Delays the Progression Towards Congestive Failure in Dogs With Pacing-Induced Dilated Cardiomyopathy. Circulation Research, 2010, 106, 1893-1903.	2.0	83
30	Common Regulatory Pathways Mediate Activity of MicroRNAs Inducing Cardiomyocyte Proliferation. Cell Reports, 2019, 27, 2759-2771.e5.	2.9	77
31	Matrix-Binding Vascular Endothelial Growth Factor (VEGF) Isoforms Guide Granule Cell Migration in the Cerebellum via VEGF Receptor Flk1. Journal of Neuroscience, 2010, 30, 15052-15066.	1.7	75
32	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.	3.9	74
33	Inducible adeno-associated virus vectors promote functional angiogenesis in adult organisms via regulated vascular endothelial growth factor expression. Cardiovascular Research, 2009, 83, 663-671.	1.8	73
34	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.	1.8	72
35	In Vivo Imaging Shows Abnormal Function of Vascular Endothelial Growth Factor-Induced Vasculature. Human Gene Therapy, 2007, 18, 515-524.	1.4	66
36	AAV-mediated in vivo functional selection of tissue-protective factors against ischaemia. Nature Communications, 2015, 6, 7388.	5.8	65

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37	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, 2087-2097.	3.7	59
38	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.	2.2	58
39	A novel animal model to study nonâ€spontaneous bisphosphonates osteonecrosis of jaw. Journal of Oral Pathology and Medicine, 2010, 39, 390-396.	1.4	58
40	Epigenetic Modification at Notch Responsive Promoters Blunts Efficacy of Inducing Notch Pathway Reactivation After Myocardial Infarction. Circulation Research, 2014, 115, 636-649.	2.0	56
41	Evidence for a Proangiogenic Activity of TNF-Related Apoptosis-Inducing Ligand. Neoplasia, 2004, 6, 364-373.	2.3	55
42	Similarities Between Angiogenesis and Neural Development: What Small Animal Models Can Tell Us. Current Topics in Developmental Biology, 2007, 80, 1-55.	1.0	54
43	Laser Therapy Inhibits Tumor Growth in Mice by Promoting Immune Surveillance and Vessel Normalization. EBioMedicine, 2016, 11, 165-172.	2.7	52
44	Neuropilin-1 Identifies a Subset of Bone Marrow Gr1â^' Monocytes That Can Induce Tumor Vessel Normalization and Inhibit Tumor Growth. Cancer Research, 2012, 72, 6371-6381.	0.4	51
45	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.	1.8	51
46	Effect of Class IV Laser Therapy on Chemotherapy-Induced Oral Mucositis. American Journal of Pathology, 2013, 183, 1747-1757.	1.9	49
47	Photobiomodulation at Multiple Wavelengths Differentially Modulates Oxidative Stress <i>In Vitro</i> and <i>In Vivo</i> . Oxidative Medicine and Cellular Longevity, 2018, 2018, 1-11.	1.9	45
48	Extra- and intracellular factors regulating cardiomyocyte proliferation in postnatal life. Cardiovascular Research, 2014, 102, 312-320.	1.8	42
49	Therapeutic Delivery of miR-148a Suppresses Ventricular Dilation in Heart Failure. Molecular Therapy, 2019, 27, 584-599.	3.7	41
50	Blue laser light inhibits biofilm formation in vitro and in vivo by inducing oxidative stress. Npj Biofilms and Microbiomes, 2019, 5, 29.	2.9	40
51	Class <scp>IV</scp> laser therapy as treatment for chemotherapyâ€induced oral mucositis in oncoâ€haematological paediatric patients: a prospective study. International Journal of Paediatric Dentistry, 2014, 24, 441-449.	1.0	39
52	Taming the Notch Transcriptional Regulator for Cancer Therapy. Molecules, 2018, 23, 431.	1.7	39
53	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. -	1.8	39
54	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, 273-281.	1.6	37

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55	Harnessing the microRNA pathway for cardiac regeneration. Journal of Molecular and Cellular Cardiology, 2015, 89, 68-74.	0.9	35
56	miR-200 family members reduce senescence and restore idiopathic pulmonary fibrosis type II alveolar epithelial cell transdifferentiation. ERJ Open Research, 2019, 5, 00138-2019.	1.1	35
57	TIM4 expression by dendritic cells mediates uptake of tumor-associated antigens and anti-tumor responses. Nature Communications, 2021, 12, 2237.	5.8	35
58	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, 981-991.	1.9	34
59	Vascular endothelial growth factor-B gene transfer exacerbates retinal and choroidal neovascularization and vasopermeability without promoting inflammation. Molecular Vision, 2011, 17, 492-507.	1.1	32
60	TRAIL shows potential cardioprotective activity. Investigational New Drugs, 2012, 30, 1257-1260.	1.2	31
61	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, 11276-11281.	3.3	30
62	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, 118, 3016-3051.	1.8	30
63	In Vivo Functional Selection Identifies Cardiotrophin-1 as a Cardiac Engraftment Factor for Mesenchymal Stromal Cells. Circulation, 2017, 136, 1509-1524.	1.6	28
64	Chapter 20 Gene Therapy Perspectives for Nerve Repair. International Review of Neurobiology, 2009, 87, 381-392.	0.9	27
65	Reciprocal organ interactions during heart failure: a position paper from the ESC Working Group on Myocardial Function. Cardiovascular Research, 2021, 117, 2416-2433.	1.8	27
66	Transgene Detection by Digital Droplet PCR. PLoS ONE, 2014, 9, e111781.	1.1	26
67	SARS-CoV-2, myocardial injury and inflammation: insights from a large clinical and autopsy study. Clinical Research in Cardiology, 2021, 110, 1822-1831.	1.5	24
68	Idiopathic dilated cardiomyopathy and persistent viral infection: Lack of association in a controlled study using a quantitative assay. Heart Lung and Circulation, 2012, 21, 787-793.	0.2	23
69	Analgesic effect of Photobiomodulation Therapy: An in vitro and in vivo study. Journal of Biophotonics, 2019, 12, e201900043.	1.1	22
70	Genetic lineage tracing reveals poor angiogenic potential of cardiac endothelial cells. Cardiovascular Research, 2021, 117, 256-270.	1.8	22
71	Short Term Effects of Doxycycline on Matrix Metalloproteinases 2 and 9. Cardiovascular Drugs and Therapy, 2009, 23, 153-159.	1.3	19
72	Enhanced Athletic Performance on Multisite AAV-IGF1 Gene Transfer Coincides with Massive Modification of the Muscle Proteome. Human Gene Therapy, 2012, 23, 146-157.	1.4	19

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73	Alternative splicing in endothelial cells: novel therapeutic opportunities in cancer angiogenesis. Journal of Experimental and Clinical Cancer Research, 2020, 39, 275.	3.5	17
74	A ligand-insensitive UNC5B splicing isoform regulates angiogenesis by promoting apoptosis. Nature Communications, 2021, 12, 4872.	5.8	17
75	High-throughput screening discovers antifibrotic properties of haloperidol by hindering myofibroblast activation. JCI Insight, 2019, 4, .	2.3	17
76	Is laser biostimulation safe even when performed in neoplastic fields?. Journal of Clinical Oncology, 2015, 33, 3-3.	0.8	17
77	Potent inhibition of arterial intimal hyperplasia by TIMP1 gene transfer using AAV vectors. Molecular Therapy, 2004, 9, 876-884.	3.7	16
78	The diagnostic performance parameters of Narrow Band Imaging: A preclinical and clinical study. Oral Oncology, 2016, 60, 130-136.	0.8	13
79	Antimicrobial activity of amphiphilic nanomicelles loaded with curcumin against <scp><i>Pseudomonas aeruginosa</i></scp> alone and activated by blue laser light. Journal of Biophotonics, 2021, 14, e202000350.	1.1	13
80	A microRNA program regulates the balance between cardiomyocyte hyperplasia and hypertrophy and stimulates cardiac regeneration. Nature Communications, 2021, 12, 4808.	5.8	13
81	A Polyphenol-Rich Extract of Olive Mill Wastewater Enhances Cancer Chemotherapy Effects, While Mitigating Cardiac Toxicity. Frontiers in Pharmacology, 2021, 12, 694762.	1.6	13
82	Lovastatin Dose-Dependently Potentiates the Pro-inflammatory Activity of Lipopolysaccharide Both In Vitro and In Vivo. Journal of Cardiovascular Translational Research, 2013, 6, 981-988.	1.1	12
83	Bone morphogenetic protein 1.3 inhibition decreases scar formation and supports cardiomyocyte survival after myocardial infarction. Nature Communications, 2022, 13, 81.	5.8	12
84	Improved survival of rat ischemic cutaneous and musculocutaneous flaps after VEGF gene transfer. Microsurgery, 2007, 27, 439-445.	0.6	11
85	Self-Assembled Nanomicelles as Curcumin Drug Delivery Vehicles: Impact on Solitary Fibrous Tumor Cell Protein Expression and Viability. Molecular Pharmaceutics, 2018, 15, 4689-4701.	2.3	11
86	Improving human interferon-Î <sup>2</sup> production in mammalian cell lines by insertion of an intronic sequence within its naturally uninterrupted gene. Biotechnology and Applied Biochemistry, 2009, 52, 191.	1.4	9
87	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.	1.2	9
88	Campaign to Increase Awareness of Oral Cancer Risk Factors Among Preadolescents. Journal of Cancer Education, 2020, 35, 616-620.	0.6	9
89	Differential Capability of Clinically Employed Dermal Regeneration Scaffolds to Support Vascularization for Tissue Bioengineering. Biomedicines, 2021, 9, 1458.	1.4	9
90	Open questions and novel concepts in oral cancer surgery. European Archives of Oto-Rhino-Laryngology, 2016, 273, 1975-1985.	0.8	8

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91	Photobiomodulation modulates inflammation and oral microbiome: aÂpilot study. Biomarkers, 2020, 25, 677-684.	0.9	8
92	Same strategy for pitfalls of radiotherapy in different anatomical districts. Lasers in Medical Science, 2016, 31, 471-479.	1.0	7
93	Immune Cell Therapies to Improve Regeneration and Revascularization of Non-Healing Wounds. International Journal of Molecular Sciences, 2020, 21, 5235.	1.8	7
94	Spotlight on COVIDâ€19: from biology to therapy and prevention. FEBS Journal, 2020, 287, 3606-3608.	2.2	6
95	Expression profiling of angiogenic genes for the characterisation of colorectal carcinoma. European Journal of Cancer, 2008, 44, 1761-1769.	1.3	5
96	Biologics and cardiac disease: challenges and opportunities. Trends in Pharmacological Sciences, 2022, 43, 894-905.	4.0	5
97	A novel myogenic cell line with phenotypic properties of muscle progenitors. Journal of Molecular Medicine, 2008, 86, 105-115.	1.7	4
98	The global role of biotechnology for non communicable disorders. Journal of Biotechnology, 2018, 283, 115-119.	1.9	4
99	Cardiac revascularization: state of the art and perspectives. Vascular Biology (Bristol, England), 2019, 1, H47-H51.	1.2	4
100	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, 2022, 13, 2.	2.7	3
101	Authors' Reply. American Journal of Pathology, 2014, 184, 1251-1252.	1.9	2
102	Angiogenesis in the Central Nervous System. , 2008, , 489-504.		2
103	A new laser device for ultra-rapid and sustainable aerosol sterilization. Environment International, 2022, 164, 107272.	4.8	2
104	142 PLGF Expression By Tumor Stromal Cells Is Induced Via Tumor Cell-Tumor Stromal Crosstalk and Substantially Contributes to Tumor Growth. Gastroenterology, 2008, 134, A-25.	0.6	0
105	Ol0311 Class IV laser biostimulation and tumor angiogenesis. Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology, 2014, 117, e389-e390.	0.2	0
106	Ol0306 Does narrow band imaging add value in oral medicine?. Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology, 2014, 117, e351.	0.2	0
107	Ol0309 New frontiers for radiotherapy-induced oral mucositis and radiodermatitis management. Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology, 2014, 117, e389.	0.2	0
108	Ol0308 Class IV laser therapy in pediatrics affected by chemotherapy-induced oral mucositis. Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology, 2014, 117, e335-e336.	0.2	0

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109	Laser-induced immune modulation inhibits tumor growth in vivo (Conference Presentation). , 2017, , .		0
110	Modulation of Redox Signaling in Chronic Diseases and Regenerative Medicine. Oxidative Medicine and Cellular Longevity, 2019, 2019, 1-4.	1.9	0
111	Vascular and Neuronal Development: Intersecting Parallelisms and rossroads. , 2007, , 159-189.		0
112	Guidance of Vascular and Neuronal Network Formation. , 2008, , 47-65.		0
113	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.	0.8	0
114	Neuropilin-1-Expressing Monocytes: Implications for Therapeutic Angiogenesis and Cancer Therapy. , 2017, , 213-224.		0
115	Novel Targets for Old and Diseased Hearts. International Journal of Molecular Sciences, 2022, 23, 6627.	1.8	0