

# Andrea Banfi

## List of Publications by Year in descending order

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73  
papers

5,048  
citations

109321

35  
h-index

95266

68  
g-index

75  
all docs

75  
docs citations

75  
times ranked

6881  
citing authors

#	ARTICLE	IF	CITATIONS
1	Proliferation kinetics and differentiation potential of ex vivo expanded human bone marrow stromal cells. <i>Experimental Hematology</i> , 2000, 28, 707-715.	0.4	662
2	Microenvironmental VEGF concentration, not total dose, determines a threshold between normal and aberrant angiogenesis. <i>Journal of Clinical Investigation</i> , 2004, 113, 516-527.	8.2	440
3	Ex vivo enrichment of mesenchymal cell progenitors by fibroblast growth factor 2. <i>Experimental Cell Research</i> , 2003, 287, 98-105.	2.6	343
4	It Takes Two to Tango: Coupling of Angiogenesis and Osteogenesis for Bone Regeneration. <i>Frontiers in Bioengineering and Biotechnology</i> , 2017, 5, 68.	4.1	272
5	Endothelial Lactate Controls Muscle Regeneration from Ischemia by Inducing M2-like Macrophage Polarization. <i>Cell Metabolism</i> , 2020, 31, 1136-1153.e7.	16.2	233
6	Replicative Aging and Gene Expression in Long-Term Cultures of Human Bone Marrow Stromal Cells. <i>Tissue Engineering</i> , 2002, 8, 901-910.	4.6	204
7	Extracellular Matrix and Growth Factor Engineering for Controlled Angiogenesis in Regenerative Medicine. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015, 3, 45.	4.1	159
8	Long-lasting fibrin matrices ensure stable and functional angiogenesis by highly tunable, sustained delivery of recombinant VEGF <sub>164</sub> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 6952-6957.	7.1	136
9	High-dose chemotherapy shows a dose-dependent toxicity to bone marrow osteoprogenitors. <i>Cancer</i> , 2001, 92, 2419-2428.	4.1	128
10	Hypoxia Triggers the Intravasation of Clustered Circulating Tumor Cells. <i>Cell Reports</i> , 2020, 32, 108105.	6.4	126
11	Microenvironmental VEGF distribution is critical for stable and functional vessel growth in ischemia. <i>FASEB Journal</i> , 2006, 20, 2657-2659.	0.5	117
12	Bone Marrow Stromal Damage after Chemo/Radiotherapy: Occurrence, Consequences and Possibilities of Treatment. <i>Leukemia and Lymphoma</i> , 2001, 42, 863-870.	1.3	107
13	The well-tempered vessel. <i>Nature Medicine</i> , 2001, 7, 532-534.	30.7	105
14	PDGF-BB regulates splitting angiogenesis in skeletal muscle by limiting VEGF-induced endothelial proliferation. <i>Angiogenesis</i> , 2018, 21, 883-900.	7.2	101
15	Therapeutic angiogenesis due to balanced single-vector delivery of VEGF and PDGF $\beta$ . <i>FASEB Journal</i> , 2012, 26, 2486-2497.	0.5	89
16	Osteogenic graft vascularization and bone resorption by VEGF-expressing human mesenchymal progenitors. <i>Biomaterials</i> , 2013, 34, 5025-5035.	11.4	77
17	Adipose tissue-derived progenitors for engineering osteogenic and vasculogenic grafts. <i>Journal of Cellular Physiology</i> , 2010, 225, 348-353.	4.1	76
18	Localized arteriole formation directly adjacent to the site of VEGF-Induced angiogenesis in muscle. <i>Molecular Therapy</i> , 2003, 7, 441-449.	8.2	71

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19	The effect of controlled expression of VEGF by transduced myoblasts in a cardiac patch on vascularization in a mouse model of myocardial infarction. <i>Biomaterials</i> , 2013, 34, 393-401.	11.4	71
20	Cotransfection of Vascular Endothelial Growth Factor-A and Platelet-Derived Growth Factor-B Via Recombinant Adeno-Associated Virus Resolves Chronic Ischemic Malperfusion. <i>Journal of the American College of Cardiology</i> , 2010, 56, 414-422.	2.8	70
21	VEGF over-expression in skeletal muscle induces angiogenesis by intussusception rather than sprouting. <i>Angiogenesis</i> , 2013, 16, 123-136.	7.2	67
22	Critical role of microenvironmental factors in angiogenesis. <i>Current Atherosclerosis Reports</i> , 2005, 7, 227-234.	4.8	63
23	EphrinB2/EphB4 signaling regulates non-sprouting angiogenesis by VEGF. <i>EMBO Reports</i> , 2018, 19, .	4.5	62
24	Atypical GPI-Anchored T-Cadherin Stimulates Angiogenesis In Vitro and In Vivo. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2006, 26, 2222-2230.	2.4	59
25	Therapeutic vascularization in regenerative medicine. <i>Stem Cells Translational Medicine</i> , 2020, 9, 433-444.	3.3	56
26	Fibroblast Growth Factor-2 Maintains a Niche-Dependent Population of Self-Renewing Highly Potent Non-adherent Mesenchymal Progenitors Through FGFR2c. <i>Stem Cells</i> , 2012, 30, 1455-1464.	3.2	55
27	Vascular endothelial growth factor biology for regenerative angiogenesis. <i>Swiss Medical Weekly</i> , 2019, 149, w20011.	1.6	55
28	To sprout or to split? VEGF, Notch and vascular morphogenesis. <i>Biochemical Society Transactions</i> , 2011, 39, 1644-1648.	3.4	54
29	Microenvironmental VEGF concentration, not total dose, determines a threshold between normal and aberrant angiogenesis. <i>Journal of Clinical Investigation</i> , 2004, 113, 516-527.	8.2	52
30	Macrophage-mediated angiogenic activation of outgrowth endothelial cells in co-culture with primary osteoblasts. , 2014, 27, 149-165.		49
31	Angiotensin II Induces Angiogenesis in the Hypoxic Adult Mouse Heart In Vitro Through an AT <sub>2</sub> Receptor Pathway. <i>Hypertension</i> , 2007, 49, 1178-1185.	2.7	47
32	Spontaneous In Vivo Chondrogenesis of Bone Marrow-Derived Mesenchymal Progenitor Cells by Blocking Vascular Endothelial Growth Factor Signaling. <i>Stem Cells Translational Medicine</i> , 2016, 5, 1730-1738.	3.3	47
33	Split for the cure: VEGF, PDGF-BB and intussusception in therapeutic angiogenesis. <i>Biochemical Society Transactions</i> , 2014, 42, 1637-1642.	3.4	44
34	Engineered Extracellular Matrices as Biomaterials of Tunable Composition and Function. <i>Advanced Functional Materials</i> , 2017, 27, 1605486.	14.9	44
35	Correlative Imaging of the Murine Hind Limb Vasculature and Muscle Tissue by MicroCT and Light Microscopy. <i>Scientific Reports</i> , 2017, 7, 41842.	3.3	42
36	High-Throughput Flow Cytometry Purification of Transduced Progenitors Expressing Defined Levels of Vascular Endothelial Growth Factor Induces Controlled Angiogenesis In Vivo. <i>Stem Cells</i> , 2010, 28, 611-619.	3.2	40

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37	Taming of the wild vessel: promoting vessel stabilization for safe therapeutic angiogenesis. <i>Biochemical Society Transactions</i> , 2011, 39, 1654-1658.	3.4	34
38	Myoblast-mediated gene transfer for therapeutic angiogenesis and arteriogenesis. <i>British Journal of Pharmacology</i> , 2003, 140, 620-626.	5.4	33
39	Long-term safety and stability of angiogenesis induced by balanced single-vector co-expression of PDGF-BB and VEGF164 in skeletal muscle. <i>Scientific Reports</i> , 2016, 6, 21546.	3.3	32
40	Strategies for re-vascularization and promotion of angiogenesis in trauma and disease. <i>Biomaterials</i> , 2021, 269, 120628.	11.4	32
41	<sup>+</sup> VEGF</sup> dose regulates vascular stabilization through Semaphorin3A and the Neuropilinâ€1<sup>+</sup> monocyte/ <sup>+</sup> TGF</sup> â€21 paracrine axis. <i>EMBO Molecular Medicine</i> , 2015, 7, 1366-1384.	6.9	31
42	Three dimensional multi-cellular muscle-like tissue engineering in perfusion-based bioreactors. <i>Biotechnology and Bioengineering</i> , 2016, 113, 226-236.	3.3	31
43	Balanced single-vector co-delivery of VEGF/PDGF-BB improves functional collateralization in chronic cerebral ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 404-419.	4.3	29
44	Generation of Human Adult Mesenchymal Stromal/Stem Cells Expressing Defined Xenogenic Vascular Endothelial Growth Factor Levels by Optimized Transduction and Flow Cytometry Purification. <i>Tissue Engineering - Part C: Methods</i> , 2012, 18, 283-292.	2.1	27
45	The NFIBâ€RO1A axis promotes breast cancer metastatic colonization of disseminated tumour cells. <i>EMBO Molecular Medicine</i> , 2021, 13, e13162.	6.9	27
46	B2-kinin receptor plays a key role in B1-, angiotensin converting enzyme inhibitor-, and vascular endothelial growth factor-stimulated in vitro angiogenesis in the hypoxic mouse heart. <i>Cardiovascular Research</i> , 2008, 80, 106-113.	3.8	26
47	Robust coupling of angiogenesis and osteogenesis by VEGF-decorated matrices for bone regeneration. <i>Acta Biomaterialia</i> , 2022, 149, 111-125.	8.3	26
48	Controlled Angiogenesis in the Heart by Cell-Based Expression of Specific Vascular Endothelial Growth Factor Levels. <i>Human Gene Therapy Methods</i> , 2012, 23, 346-356.	2.1	24
49	[9] Myoblast-mediated gene transfer for therapeutic angiogenesis. <i>Methods in Enzymology</i> , 2002, 346, 145-157.	1.0	23
50	Induction of Aberrant Vascular Growth, But Not of Normal Angiogenesis, by Cell-Based Expression of Different Doses of Human and Mouse VEGF Is Species-Dependent. <i>Human Gene Therapy Methods</i> , 2013, 24, 28-37.	2.1	23
51	Mechanically Defined Microenvironment Promotes Stabilization of Microvasculature, Which Correlates with the Enrichment of a Novel Piezoâ€1<sup>+</sup> Population of Circulating CD11b<sup>+</sup>/CD115<sup>+</sup> Monocytes. <i>Advanced Materials</i> , 2019, 31, e1808050.	21.0	23
52	Engineered mesenchymal cell-based patches as controlled VEGF delivery systems to induce extrinsic angiogenesis. <i>Acta Biomaterialia</i> , 2016, 42, 127-135.	8.3	21
53	FACSâ€purified myoblasts producing controlled VEGF levels induce safe and stable angiogenesis in chronic hind limb ischemia. <i>Journal of Cellular and Molecular Medicine</i> , 2012, 16, 107-117.	3.6	20
54	Robust Angiogenesis and Arteriogenesis in the Skin of Diabetic Mice by Transient Delivery of Engineered VEGF and PDGF-BB Proteins in Fibrin Hydrogels. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 688467.	4.1	18

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55	Localization of vascular response to VEGF is not dependent on heparin binding. <i>FASEB Journal</i> , 2007, 21, 2074-2085.	0.5	17
56	Rapid and efficient magnetization of mesenchymal stem cells by dendrimer-functionalized magnetic nanoparticles. <i>Nanomedicine</i> , 2016, 11, 1519-1534.	3.3	15
57	Long-term biostability and bioactivity of $\alpha$ -fibrin linked $\alpha$ -VEGF121 in vitro and in vivo. <i>Biomaterials Science</i> , 2014, 2, 581.	5.4	13
58	Scaffold Composition Determines the Angiogenic Outcome of Cell-Based Vascular Endothelial Growth Factor Expression by Modulating Its Microenvironmental Distribution. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700600.	7.6	12
59	The osteo-angiogenic signaling crosstalk for bone regeneration: harmony out of complexity. <i>Current Opinion in Biotechnology</i> , 2022, 76, 102750.	6.6	12
60	Cell and Gene Therapy Approaches for Cardiac Vascularization. <i>Cells</i> , 2012, 1, 961-975.	4.1	11
61	Myocardial infarction stabilization by cell-based expression of controlled Vascular Endothelial Growth Factor levels. <i>Journal of Cellular and Molecular Medicine</i> , 2018, 22, 2580-2591.	3.6	11
62	Editorial: Vascularization for Regenerative Medicine. <i>Frontiers in Bioengineering and Biotechnology</i> , 2018, 6, 175.	4.1	10
63	Non-Adherent Mesenchymal Progenitors from Adipose Tissue Stromal Vascular Fraction. <i>Tissue Engineering - Part A</i> , 2014, 20, 1081-1088.	3.1	8
64	Vascular Endothelial Growth Factor Sequestration Enhances In Vivo Cartilage Formation. <i>International Journal of Molecular Sciences</i> , 2017, 18, 2478.	4.1	8
65	Fibrin hydrogels promote scar formation and prevent therapeutic angiogenesis in the heart. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2020, 14, 1513-1523.	2.7	8
66	Chondrocyte and osteoblast differentiation stage-specific monoclonal antibodies as a tool to investigate the initial bone formation in developing chick embryo. <i>European Journal of Cell Biology</i> , 1995, 67, 99-105.	3.6	6
67	Fibrin-based factor delivery for therapeutic angiogenesis: friend or foe?. <i>Cell and Tissue Research</i> , 2022, 387, 451-460.	2.9	6
68	VEGF, shear stress and muscle angiogenesis: a complicated triangle. <i>Acta Physiologica</i> , 2015, 214, 298-299.	3.8	4
69	VEGF Over-Expression by Engineered BMSC Accelerates Functional Perfusion, Improving Tissue Density and In-Growth in Clinical-Size Osteogenic Grafts. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 755.	4.1	4
70	Stable Angiogenesis: Mechanically Defined Microenvironment Promotes Stabilization of Microvasculature, Which Correlates with the Enrichment of a Novel Piezo $\alpha$ 1 + Population of Circulating CD11b + /CD115 + Monocytes (Adv. Mater. 21/2019). <i>Advanced Materials</i> , 2019, 31, 1970150.	21.0	0
71	Pioneering updates in vascular biology. <i>Vascular Pharmacology</i> , 2019, 112, 1.	2.1	0
72	The Maturation of Vessels $\hat{=}$ A Limitation to Forced Neovascularization?. , 2007, , 139-158.		0

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73	Therapeutische Angiogenese mittels FACS-sortierter transduzierter Myoblasten. , 2007, , 329-332.		0