Sophie Verrier

List of Publications by Year in Descending Order

43 papers	2,278 citations	25 h-index	47 g-index
48 ext. papers	2,455 ext. citations	5.3 avg, IF	4.39 L-index

#	Paper	IF	Citations
43	Quality control methods in musculoskeletal tissue engineering: from imaging to biosensors. *Bone Research*, **2021**, 9, 46	13.3	2
42	Development and characterization of a predictive microCT-based non-union model in Fischer F344 rats. *Archives of Orthopaedic and Trauma Surgery*, **2020**, 1	3.6	1
41	In vitro simulation of the early proinflammatory phase in fracture healing reveals strong immunomodulatory effects of CD146-positive mesenchymal stromal cells. *Journal of Tissue Engineering and Regenerative Medicine*, **2019**, 13, 1466-1481	4.4	6
40	Phenotypic Characterization of Bone Marrow Mononuclear Cells and Derived Stromal Cell Populations from Human Iliac Crest, Vertebral Body and Femoral Head. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	20
39	Five Days Granulocyte Colony-Stimulating Factor Treatment Increases Bone Formation and Reduces Gap Size of a Rat Segmental Bone Defect: A Pilot Study. *Frontiers in Bioengineering and Biotechnology*, **2018**, 6, 5	5.8	10
38	Platelet-Rich Plasma as an Autologous and Proangiogenic Cell Delivery System. *Mediators of Inflammation*, **2017**, 2017, 1075975	4.3	11
37	An In Vitro Investigation of Platelet-Rich Plasma-Gel as a Cell and Growth Factor Delivery Vehicle for Tissue Engineering. *Tissue Engineering - Part C: Methods*, **2016**, 22, 49-58	2.9	47
36	Pericyte plasticity - comparative investigation of the angiogenic and multilineage potential of pericytes from different human tissues. *European Cells and Materials*, **2016**, 31, 236-49	4.3	27
35	Tissue engineering and regenerative approaches to improving the healing of large bone defects. *European Cells and Materials*, **2016**, 32, 87-110	4.3	59
34	In Vitro Models to Mimic the Endothelial Barrier. *ATLA Alternatives To Laboratory Animals*, **2015**, 43, P34-6	1.1	
33	Strategies to Stimulate Mobilization and Homing of Endogenous Stem and Progenitor Cells for Bone Tissue Repair. *Frontiers in Bioengineering and Biotechnology*, **2015**, 3, 79	5.8	62
32	Endothelial Progenitor Cell Fraction Contained in Bone Marrow-Derived Mesenchymal Stem Cell Populations Impairs Osteogenic Differentiation. *BioMed Research International*, **2015**, 2015, 659542	3	8
31	Platelet-rich plasma induces annulus fibrosus cell proliferation and matrix production. *European Spine Journal*, **2014**, 23, 745-53	2.7	31
30	Induction of osteogenic differentiation by nanostructured alumina surfaces. *Journal of Biomedical Nanotechnology*, **2014**, 10, 831-45	4	16
29	Vascularization, Survival, and Functionality of Tissue-Engineered Constructs **2014**, 471-496		1
28	Direct cell-cell contact between mesenchymal stem cells and endothelial progenitor cells induces a pericyte-like phenotype in vitro. *BioMed Research International*, **2014**, 2014, 395781	3	62
27	CD34/CD133 enriched bone marrow progenitor cells promote neovascularization of tissue engineered constructs in vivo. *Stem Cell Research*, **2014**, 13, 465-77	1.6	45

26	3D scaffolds co-seeded with human endothelial progenitor and mesenchymal stem cells: evidence of prevascularisation within 7 days. *European Cells and Materials*, **2013**, 26, 49-64; discussion 64-5	4.3	46
25	Evaluation of the in vitro cell-material interactions and in vivo osteo-integration of a spinal acrylic bone cement. *European Spine Journal*, **2012**, 21 Suppl 6, S800-9	2.7	10
24	The osteogenic differentiation of human osteoprogenitor cells on Anodic-Plasma-Chemical treated Ti6Al7Nb. *Biomaterials*, **2011**, 32, 672-80	15.6	16
23	Platelet released growth factors boost expansion of bone marrow derived CD34(+) and CD133(+) endothelial progenitor cells for autologous grafting. *Platelets*, **2011**, 22, 422-32	3.6	29
22	Bioactive glass containing composites for bone and musculoskeletal tissue engineering scaffolds **2011**, 162-188		
21	Raman micro-spectroscopy as a non-invasive cell viability test. *Methods in Molecular Biology*, **2011**, 740, 179-89	1.4	5
20	Mechanical properties and cytocompatibility of poly(Ɛcaprolactone)-infiltrated biphasic calcium phosphate scaffolds with bimodal pore distribution. *Acta Biomaterialia*, **2010**, 6, 4369-79	10.8	66
19	Platelet-released supernatant induces osteoblastic differentiation of human mesenchymal stem cells: potential role of BMP-2. *European Cells and Materials*, **2010**, 20, 403-14	4.3	31
18	Platelet lysate as a serum substitute for 2D static and 3D perfusion culture of stromal vascular fraction cells from human adipose tissue. *Tissue Engineering - Part A*, **2009**, 15, 869-75	3.9	37
17	In vivo biocompatibility and vascularization of biodegradable porous polyurethane scaffolds for tissue engineering. *Acta Biomaterialia*, **2009**, 5, 1991-2001	10.8	100
16	Bioactive Composite Materials for Bone Tissue Engineering Scaffolds **2008**, 279-311		3
15	Properties of an injectable low modulus PMMA bone cement for osteoporotic bone. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2008**, 86, 474-82	3.5	86
14	The effect of human osteoblasts on proliferation and neo-vessel formation of human umbilical vein endothelial cells in a long-term 3D co-culture on polyurethane scaffolds. *Biomaterials*, **2008**, 29, 4217-26	15.6	159
13	Interaction of Sheep Bone Marrow Stromal Cells With Biodegradable Polyurethane Bone Substitutes. *Macromolecular Symposia*, **2007**, 253, 162-171	0.8	8
12	Human endothelial cells inhibit BMSC differentiation into mature osteoblasts in vitro by interfering with osterix expression. *Journal of Cellular Biochemistry*, **2006**, 98, 992-1006	4.7	102
11	PDLLA/Bioglass composites for soft-tissue and hard-tissue engineering: an in vitro cell biology assessment. *Biomaterials*, **2004**, 25, 3013-21	15.6	246
10	In situ monitoring of cell death using Raman microspectroscopy. *Biopolymers*, **2004**, 74, 157-62	2.2	149
9	ADAM gene expression and regulation during human osteoclast formation. *Bone*, **2004**, 35, 34-46	4.7	52

8	Spectroscopic study of human lung epithelial cells (A549) in culture: living cells versus dead cells. *Biopolymers*, **2003**, 72, 230-40	2.2	262
7	A549 Lung Carcinoma Cells: Binary vs. Ternary Bioactive Gel-Glasses. *Key Engineering Materials*, **2003**, 254-256, 781-784	0.4	1
6	In situCharacterisation of Living Cells by Raman Spectroscopy. *Spectroscopy*, **2002**, 16, 43-51		174
5	Function of linear and cyclic RGD-containing peptides in osteoprogenitor cells adhesion process. *Biomaterials*, **2002**, 23, 585-96	15.6	128
4	The biologically crucial C terminus of cholecystokinin and the non-peptide agonist SR-146,131 share a common binding site in the human CCK1 receptor. Evidence for a crucial role of Met-121 in the activation process. *Journal of Biological Chemistry*, **2002**, 277, 7546-55	5.4	52
3	Tools for tissue engineering of mineralized oral structures. *Clinical Oral Investigations*, **2000**, 4, 126-9	4.2	35
2	Induced tissue integration of bone implants by coating with bone selective RGD-peptides in vitro and in vivo studies. *Journal of Materials Science: Materials in Medicine*, **1999**, 10, 837-9	4.5	41
1	Human osteoprogenitor responses to orthopaedic implant: mechanism of cell attachment and cell adhesion. *Journal of Materials Science: Materials in Medicine*, **1996**, 7, 46-51	4.5	24