

# Phil Campbell

## 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.

62 papers	4,052 citations	31 h-index	63 g-index
66 ext. papers	4,677 ext. citations	7.4 avg, IF	5.37 L-index

#	Paper	IF	Citations
62	3D bioprinting of collagen to rebuild components of the human heart. <i>Science</i> , <b>2019</b> , 365, 482-487	33.3	629
61	Microenvironments engineered by inkjet bioprinting spatially direct adult stem cells toward muscle- and bone-like subpopulations. <i>Stem Cells</i> , <b>2008</b> , 26, 127-34	5.8	292
60	Cell population tracking and lineage construction with spatiotemporal context. <i>Medical Image Analysis</i> , <b>2008</b> , 12, 546-66	15.4	256
59	BMP-2 and insulin-like growth factor-I mediate Osterix (Osx) expression in human mesenchymal stem cells via the MAPK and protein kinase D signaling pathways. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 31353-9	5.4	248
58	Insulin-like growth factor I accelerates functional recovery from Achilles tendon injury in a rat model. <i>American Journal of Sports Medicine</i> , <b>1999</b> , 27, 363-9	6.8	169
57	Bioprinting of growth factors onto aligned sub-micron fibrous scaffolds for simultaneous control of cell differentiation and alignment. <i>Biomaterials</i> , <b>2011</b> , 32, 8097-107	15.6	159
56	Tissue engineering with the aid of inkjet printers. <i>Expert Opinion on Biological Therapy</i> , <b>2007</b> , 7, 1123-7	5.4	157
55	Testing the critical size in calvarial bone defects: revisiting the concept of a critical-size defect. <i>Plastic and Reconstructive Surgery</i> , <b>2010</b> , 125, 1685-1692	2.7	150
54	Engineered spatial patterns of FGF-2 immobilized on fibrin direct cell organization. <i>Biomaterials</i> , <b>2005</b> , 26, 6762-70	15.6	134
53	Osx transcriptional regulation is mediated by additional pathways to BMP2/Smad signaling. <i>Journal of Cellular Biochemistry</i> , <b>2005</b> , 95, 518-28	4.7	126
52	Phosphoryn regulates the gene expression and differentiation of NIH3T3, MC3T3-E1, and human mesenchymal stem cells via the integrin/MAPK signaling pathway. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 53323-30	5.4	123
51	Dose-dependent cell growth in response to concentration modulated patterns of FGF-2 printed on fibrin. <i>Biomaterials</i> , <b>2006</b> , 27, 2213-21	15.6	95
50	Inkjet-based biopatterning of bone morphogenetic protein-2 to spatially control calvarial bone formation. <i>Tissue Engineering - Part A</i> , <b>2010</b> , 16, 1749-59	3.9	94
49	Insulin-like growth factor-I induces early osteoblast gene expression in human mesenchymal stem cells. <i>Stem Cells and Development</i> , <b>2005</b> , 14, 621-31	4.4	91
48	Engineering spatial control of multiple differentiation fates within a stem cell population. <i>Biomaterials</i> , <b>2011</b> , 32, 3413-22	15.6	87
47	Spatially directed guidance of stem cell population migration by immobilized patterns of growth factors. <i>Biomaterials</i> , <b>2011</b> , 32, 2775-85	15.6	79
46	Insulin-like growth factor-binding protein-3 binds fibrinogen and fibrin. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 30215-21	5.4	72

45	Role of RhoA-specific guanine exchange factors in regulation of endomitosis in megakaryocytes. <i>Developmental Cell</i> , <b>2012</b> , 22, 573-84	10.2	65
44	Inkjet printing of growth factor concentration gradients and combinatorial arrays immobilized on biologically-relevant substrates. <i>Combinatorial Chemistry and High Throughput Screening</i> , <b>2009</b> , 12, 604-183	18.3	64
43	The use of quantum dots for analysis of chick CAM vasculature. <i>Microvascular Research</i> , <b>2007</b> , 73, 75-83	3.7	59
42	Secretion of insulin-like growth factor-I (IGF-I) and IGF-binding proteins from bovine mammary tissue in vitro. <i>Journal of Endocrinology</i> , <b>1991</b> , 128, 219-28	4.7	57
41	Extracellular matrix-mediated signaling by dentin phosphophoryn involves activation of the Smad pathway independent of bone morphogenetic protein. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 5341-54	5.4	55
40	Insulin-like growth factor binding protein (IGFBP) inhibits IGF action on human osteosarcoma cells. <i>Journal of Cellular Physiology</i> , <b>1991</b> , 149, 293-300	7	55
39	Control of cell behavior by aligned micro/nanofibrous biomaterial scaffolds fabricated by spinneret-based tunable engineered parameters (STEP) technique. <i>Small</i> , <b>2008</b> , 4, 1153-9	11	54
38	Insulin-like growth factor-I and its association with binding proteins in bovine milk. <i>Journal of Endocrinology</i> , <b>1989</b> , 120, 21-9	4.7	52
37	The CARMA3-Bcl10-MALT1 Signalosome Drives NFB Activation and Promotes Aggressiveness in Angiotensin II Receptor-Positive Breast Cancer. <i>Cancer Research</i> , <b>2018</b> , 78, 1225-1240	10.1	48
36	Diffusion of insulin-like growth factor-I and ribonuclease through fibrin gels. <i>Biophysical Journal</i> , <b>2007</b> , 92, 4444-50	2.9	46
35	The influence of polymer blend composition on the degradation of polymer/hydroxyapatite biomaterials. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2001</b> , 12, 673-7	4.5	45
34	Perivascular extracellular matrix hydrogels mimic native matrix microarchitecture and promote angiogenesis via basic fibroblast growth factor. <i>Biomaterials</i> , <b>2017</b> , 123, 142-154	15.6	41
33	Rapid On-Demand Extracellular Vesicle Augmentation with Versatile Oligonucleotide Tethers. <i>ACS Nano</i> , <b>2019</b> , 13, 10555-10565	16.7	40
32	Inkjet-based biopatterning of SDF-1 $\alpha$ augments BMP-2-induced repair of critical size calvarial bone defects in mice. <i>Bone</i> , <b>2014</b> , 67, 95-103	4.7	36
31	Immobilization of aprotinin to fibrinogen as a novel method for controlling degradation of fibrin gels. <i>Bioconjugate Chemistry</i> , <b>2007</b> , 18, 695-701	6.3	29
30	Functionally Graded, Bone- and Tendon-Like Polyurethane for Rotator Cuff Repair. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1707107	15.6	25
29	Improved growth factor directed vascularization into fibrin constructs through inclusion of additional extracellular molecules. <i>Microvascular Research</i> , <b>2007</b> , 73, 84-94	3.7	23
28	Pregnancy-associated plasma protein-a is involved in matrix mineralization of human adult mesenchymal stem cells and angiogenesis in the chick chorioallantoic membrane. <i>Endocrinology</i> , <b>2005</b> , 146, 3765-72	4.8	22

27	Crosstalk between substance P and calcitonin gene-related peptide during heterotopic ossification in murine Achilles tendon. <i>Journal of Orthopaedic Research</i> , <b>2018</b> , 36, 1444-1455	3.8	21
26	Engineering exosome polymer hybrids by atom transfer radical polymerization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	20
25	Binding and activation of plasminogen on the surface of osteosarcoma cells. <i>Journal of Cellular Physiology</i> , <b>1994</b> , 159, 1-10	7	19
24	An engineered approach to stem cell culture: automating the decision process for real-time adaptive subculture of stem cells. <i>PLoS ONE</i> , <b>2011</b> , 6, e27672	3.7	19
23	Transforming growth factor beta 1 augments calvarial defect healing and promotes suture regeneration. <i>Tissue Engineering - Part A</i> , <b>2015</b> , 21, 939-47	3.9	16
22	Dependence of induction of osteocalcin gene expression on the presence of wild-type p53 in a murine osteosarcoma cell line. <i>Molecular Carcinogenesis</i> , <b>1993</b> , 8, 299-305	5	16
21	Biopatterned CTLA4/Fc Matrices Facilitate Local Immunomodulation, Engraftment, and Glucose Homeostasis After Pancreatic Islet Transplantation. <i>Diabetes</i> , <b>2016</b> , 65, 3660-3666	0.9	16
20	Bioprinting exosome-like extracellular vesicle microenvironments. <i>Bioprinting</i> , <b>2019</b> , 13, e00041	7	15
19	Crosstalk between neuropeptides SP and CGRP in regulation of BMP2-induced bone differentiation. <i>Connective Tissue Research</i> , <b>2018</b> , 59, 81-90	3.3	14
18	Direct comparison of progenitor cells derived from adipose, muscle, and bone marrow from wild-type or craniosynostotic rabbits. <i>Plastic and Reconstructive Surgery</i> , <b>2011</b> , 127, 88-97	2.7	14
17	Covalent Poly(lactic acid) Nanoparticles for the Sustained Delivery of Naloxone. <i>ACS Applied Bio Materials</i> , <b>2019</b> , 2, 3418-3428	4.1	13
16	Mechanisms of growth stimulation by suramin in non-small-cell lung cancer cell lines. <i>Cancer Chemotherapy and Pharmacology</i> , <b>1999</b> , 43, 341-7	3.5	12
15	An off-the-shelf plasma-based material to prevent pacemaker pocket infection. <i>Biomaterials</i> , <b>2015</b> , 60, 1-8	15.6	11
14	Osteoconductive Enhancement of Polyether Ether Ketone: A Mild Covalent Surface Modification Approach.. <i>ACS Applied Bio Materials</i> , <b>2018</b> , 1, 1047-1055	4.1	10
13	Controlled Release of Small Molecules from Elastomers for Reducing Epidermal Downgrowth in Percutaneous Devices. <i>ACS Biomaterials Science and Engineering</i> , <b>2016</b> , 2, 1464-1470	5.5	9
12	Reconstruction of a Calvarial Wound Complicated by Infection: Comparing the Effects of Biopatterned Bone Morphogenetic Protein 2 and Vascular Endothelial Growth Factor. <i>Journal of Craniofacial Surgery</i> , <b>2019</b> , 30, 260-264	1.2	9
11	Testing a novel nanofibre scaffold for utility in bone tissue regeneration. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2018</b> , 12, 2055-2066	4.4	6
10	The use of biological agents to accelerate recovery from rotator cuff repair: Path to clinical application. <i>Operative Techniques in Sports Medicine</i> , <b>2002</b> , 10, 58-63	0.4	6

9	Localization of plasmin activity on osteosarcoma cells: cell surface proteolysis of insulin-like growth factor binding proteins. <i>Growth Regulation</i> , <b>1993</b> , 3, 95-8		6
8	Plasma-based biomaterials for the treatment of cutaneous radiation injury. <i>Wound Repair and Regeneration</i> , <b>2019</b> , 27, 139-149	3.6	4
7	Biologically Active Blood Plasma-Based Biomaterials as a New Paradigm for Tissue Repair Therapies. <i>Disruptive Science and Technology</i> , <b>2013</b> , 1, 127-137		3
6	Engineering pro-angiogenic biomaterials via chemoselective extracellular vesicle immobilization.. <i>Biomaterials</i> , <b>2021</b> , 281, 121357	15.6	3
5	Combinatorial mechanical gradation and growth factor biopatterning strategy for spatially controlled bone-tendon-like cell differentiation and tissue formation. <i>NPG Asia Materials</i> , <b>2021</b> , 13,	10.3	3
4	Pneumococcal Extracellular Vesicles Modulate Host Immunity. <i>MBio</i> , <b>2021</b> , 12, e0165721	7.8	3
3	Radioiodination of extravesicular surface constituents to study the biocorona, cell trafficking and storage stability of extracellular vesicles.. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2021</b> , 1866, 130069	4	2
2	Cell trafficking and regulation of osteoblastogenesis by extracellular vesicle associated bone morphogenetic protein 2. <i>Journal of Extracellular Vesicles</i> , <b>2021</b> , 10, e12155	16.4	1
1	Interleukin-10 Does Not Augment Osseous Regeneration in the Scarred Calvarial Defect Achieved with Low-Dose Biopatterned BMP2. <i>Plastic and Reconstructive Surgery</i> , <b>2019</b> , 143, 1215e-1223e	2.7	1