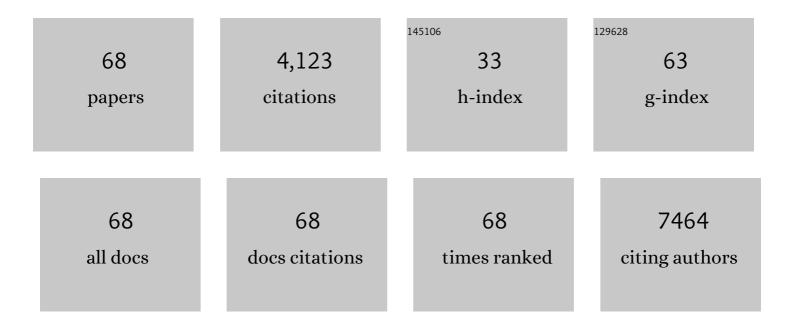
## David G Belair

List of Publications by Year in descending order

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DAVID C. RELAID

#	Article	IF	CITATIONS
1	VEGF-attenuated platelet-rich plasma improves therapeutic effect on cartilage repair. Biomaterials Science, 2022, 10, 2172-2181.	2.6	8
2	Receptor mimicking TGF-β1 binding peptide for targeting TGF-β1 signaling. Biomaterials Science, 2021, 9, 645-652.	2.6	2
3	Investigation Into the Role of ERK in Tyrosine Kinase Inhibitor-Induced Neuropathy. Toxicological Sciences, 2021, 181, 160-174.	1.4	3
4	Xeno-Free Bioreactor Culture of Human Mesenchymal Stromal Cells on Chemically Defined Microcarriers. ACS Biomaterials Science and Engineering, 2021, 7, 617-625.	2.6	8
5	Leveraging microphysiological systems to address challenges encountered during development of oligonucleotide therapeutics. ALTEX: Alternatives To Animal Experimentation, 2021, , .	0.9	7
6	Characterizing cleft palate toxicants using ToxCast data, chemical structure, and the biomedical literature. Birth Defects Research, 2020, 112, 19-39.	0.8	26
7	Synthetic alternatives to Matrigel. Nature Reviews Materials, 2020, 5, 539-551.	23.3	498
8	Customized hydrogel substrates for serum-free expansion of functional hMSCs. Biomaterials Science, 2020, 8, 3819-3829.	2.6	8
9	Engineered Perineural Vascular Plexus for Modeling Developmental Toxicity. Advanced Healthcare Materials, 2020, 9, e2000825.	3.9	14
10	Human ileal organoid model recapitulates clinical incidence of diarrhea associated with small molecule drugs. Toxicology in Vitro, 2020, 68, 104928.	1.1	17
11	Thalidomide Inhibits Human iPSC Mesendoderm Differentiation by Modulating CRBN-dependent Degradation of SALL4. Scientific Reports, 2020, 10, 2864.	1.6	24
12	Neurovascular Organotypic Culture Models Using Induced Pluripotent Stem Cells to Assess Adverse Chemical Exposure Outcomes. Applied in Vitro Toxicology, 2019, 5, 92-110.	0.6	4
13	A microparticle approach for non-viral gene delivery within 3D human mesenchymal stromal cell aggregates. Acta Biomaterialia, 2019, 95, 408-417.	4.1	13
14	Quantitative Labelâ€Free Imaging of 3D Vascular Networks Selfâ€Assembled in Synthetic Hydrogels. Advanced Healthcare Materials, 2019, 8, e1801186.	3.9	15
15	Engineered biomaterials to mitigate growth factor cost in cell biomanufacturing. Current Opinion in Biomedical Engineering, 2019, 10, 1-10.	1.8	19
16	Dual non-viral gene delivery from microparticles within 3D high-density stem cell constructs for enhanced bone tissue engineering. Biomaterials, 2018, 161, 240-255.	5.7	46
17	Bioengineering Solutions for Manufacturing Challenges in CAR T Cells. Biotechnology Journal, 2018, 13, 1700095.	1.8	56
18	Development of an organotypic stem cell model for the study of human embryonic palatal fusion. Birth Defects Research, 2018, 110, 1322-1334.	0.8	9

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#	Article	IF	CITATIONS
19	A Three-Dimensional Organoid Culture Model to Assess the Influence of Chemicals on Morphogenetic Fusion. Toxicological Sciences, 2018, 166, 394-408.	1.4	18
20	Customizable biomaterials as tools for advanced anti-angiogenic drug discovery. Biomaterials, 2018, 181, 53-66.	5.7	4
21	Engineering epithelial-stromal interactions in vitro for toxicology assessment. Toxicology, 2017, 382, 93-107.	2.0	7
22	Microcarriers with Synthetic Hydrogel Surfaces for Stem Cell Expansion. Advanced Healthcare Materials, 2017, 6, 1700072.	3.9	37
23	A Genome-wide Analysis of Human Pluripotent Stem Cell-Derived Endothelial Cells in 2D or 3D Culture. Stem Cell Reports, 2017, 8, 907-918.	2.3	41
24	Functionalization of microparticles with mineral coatings enhances non-viral transfection of primary human cells. Scientific Reports, 2017, 7, 14211.	1.6	19
25	Nanostructured Mineral Coatings Stabilize Proteins for Therapeutic Delivery. Advanced Materials, 2017, 29, 1701255.	11.1	53
26	Versatile synthetic alternatives to Matrigel for vascular toxicity screening and stem cell expansion. Nature Biomedical Engineering, 2017, 1, .	11.6	86
27	Engineering human cell spheroids to model embryonic tissue fusion in vitro. PLoS ONE, 2017, 12, e0184155.	1.1	17
28	Human iPSC-derived endothelial cell sprouting assay in synthetic hydrogel arrays. Acta Biomaterialia, 2016, 39, 12-24.	4.1	27
29	Differential regulation of angiogenesis using degradable VEGF-binding microspheres. Biomaterials, 2016, 93, 27-37.	5.7	23
30	Regulating VEGF signaling in platelet concentrates via specific VEGF sequestering. Biomaterials Science, 2016, 4, 819-825.	2.6	6
31	Stable engineered vascular networks from human induced pluripotent stem cell-derived endothelial cells cultured in synthetic hydrogels. Acta Biomaterialia, 2016, 35, 32-41.	4.1	86
32	Guiding Chondrogenesis and Osteogenesis with Mineral-Coated Hydroxyapatite and BMP-2 Incorporated within High-Density hMSC Aggregates for Bone Regeneration. ACS Biomaterials Science and Engineering, 2016, 2, 30-42.	2.6	40
33	Hydrogel arrays formed via differential wettability patterning enable combinatorial screening of stem cell behavior. Acta Biomaterialia, 2016, 34, 93-103.	4.1	37
34	A dimensionless variable for the scale up and transfer of a roller compaction formulation. Drug Development and Industrial Pharmacy, 2016, 42, 60-69.	0.9	14
35	Polyethylene Glycol Coatings on Plastic Substrates for Chemically Defined Stem Cell Culture. Advanced Healthcare Materials, 2015, 4, 1555-1564.	3.9	23
36	Targeting diverse protein–protein interaction interfaces with α/β-peptides derived from the Z-domain scaffold. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 4552-4557.	3.3	93

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#	Article	IF	CITATIONS
37	How does the pathophysiological context influence delivery of bone growth factors?. Advanced Drug Delivery Reviews, 2015, 84, 68-84.	6.6	21
38	Human pluripotent stem cell-derived neural constructs for predicting neural toxicity. Proceedings of the United States of America, 2015, 112, 12516-12521.	3.3	288
39	α∫β-Peptide Foldamers Targeting Intracellular Protein–Protein Interactions with Activity in Living Cells. Journal of the American Chemical Society, 2015, 137, 11365-11375.	6.6	101
40	Human Vascular Tissue Models Formed from Human Induced Pluripotent Stem Cell Derived Endothelial Cells. Stem Cell Reviews and Reports, 2015, 11, 511-525.	5.6	107
41	Micropatterning of 3D Microenvironments for Living Biosensor Applications. Biosensors, 2014, 4, 28-44.	2.3	34
42	Differential effects of cell adhesion, modulus and VEGFR-2 inhibition on capillary network formation in synthetic hydrogel arrays. Biomaterials, 2014, 35, 2149-2161.	5.7	62
43	Multilayered Inorganic Microparticles for Tunable Dual Growth Factor Delivery. Advanced Functional Materials, 2014, 24, 3082-3093.	7.8	81
44	Materials as stem cell regulators. Nature Materials, 2014, 13, 547-557.	13.3	794
45	3-D scaffold platform for optimized non-viral transfection of multipotent stem cells. Journal of Materials Chemistry B, 2014, 2, 8186-8193.	2.9	13
46	Design of growth factor sequestering biomaterials. Chemical Communications, 2014, 50, 15651-15668.	2.2	89
47	Biomaterial arrays with defined adhesion ligand densities and matrix stiffness identify distinct phenotypes for tumorigenic and non-tumorigenic human mesenchymal cell types. Biomaterials Science, 2014, 2, 745-756.	2.6	44
48	Serum-Dependence of Affinity-Mediated VEGF Release from Biomimetic Microspheres. Biomacromolecules, 2014, 15, 2038-2048.	2.6	21
49	Context Clues: The Importance of Stem Cell–Material Interactions. ACS Chemical Biology, 2014, 9, 45-56.	1.6	30
50	Specific VEGF sequestering to biomaterials: Influence of serum stability. Acta Biomaterialia, 2013, 9, 8823-8831.	4.1	23
51	Inorganic coatings for optimized non-viral transfection of stem cells. Scientific Reports, 2013, 3, 1567.	1.6	38
52	A Quantitative Comparison of Human HT-1080 Fibrosarcoma Cells and Primary Human Dermal Fibroblasts Identifies a 3D Migration Mechanism with Properties Unique to the Transformed Phenotype. PLoS ONE, 2013, 8, e81689.	1.1	32
53	A chemically-defined screening platform reveals behavioral similarities between primary human mesenchymal stem cells and endothelial cells. Integrative Biology (United Kingdom), 2012, 4, 1508-1521.	0.6	18

Differential effects of a soluble or immobilized VEGFR-binding peptide. Integrative Biology (United) Tj ETQq0 0 0 rg $_{0.6}^{BT}$ /Overlock 10 Tf 50

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#	Article	IF	CITATIONS
55	Combinatorial screening of chemically defined human mesenchymal stem cell culture substrates. Journal of Materials Chemistry, 2012, 22, 19474.	6.7	25
56	Extending Foldamer Design beyond α-Helix Mimicry: α/β-Peptide Inhibitors of Vascular Endothelial Growth Factor Signaling. Journal of the American Chemical Society, 2012, 134, 7652-7655.	6.6	92
57	Regulating Specific Growth Factor Signaling Using Immobilized Branched Ligands. Advanced Healthcare Materials, 2012, 1, 457-460.	3.9	17
58	Patterned Selfâ€Assembled Monolayers: Efficient, Chemically Defined Tools for Cell Biology. ChemBioChem, 2012, 13, 1717-1724.	1.3	43
59	Controllable mineral coatings on PCL scaffolds as carriers for growth factor release. Biomaterials, 2012, 33, 713-721.	5.7	87
60	Specific VEGF sequestering and release using peptide-functionalized hydrogel microspheres. Biomaterials, 2012, 33, 3475-3484.	5.7	77
61	Harnessing endogenous growth factor activity modulates stem cell behavior. Integrative Biology (United Kingdom), 2011, 3, 832.	0.6	59
62	Chemically well-defined self-assembled monolayers for cell culture: toward mimicking the natural ECM. Soft Matter, 2011, 7, 9561.	1.2	66
63	Biomaterials that Regulate Growth Factor Activity via Bioinspired Interactions. Advanced Functional Materials, 2011, 21, 1754-1768.	7.8	138
64	Surfaces That Sequester Serumâ€Borne Heparin Amplify Growth Factor Activity. Advanced Materials, 2011, 23, 5415-5418.	11.1	56
65	Sustained plasmid DNA release from dissolving mineral coatings. Acta Biomaterialia, 2010, 6, 3426-3435.	4.1	48
66	Immobilization of Peptides with Distinct Biological Activities onto Stem Cell Culture Substrates Using Orthogonal Chemistries. Langmuir, 2010, 26, 6449-6456.	1.6	56
67	Patterning Discrete Stem Cell Culture Environments via Localized Self-Assembled Monolayer Replacement. Langmuir, 2009, 25, 12825-12834.	1.6	47
68	Using "Click―Chemistry to Prepare SAM Substrates to Study Stem Cell Adhesion. Langmuir, 2009, 25, 5737-5746.	1.6	78