

# Eileen Gentleman

## List of Publications by Year in Descending Order

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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.

66

papers

3,731

citations

29

h-index

61

g-index

71

ext. papers

4,320

ext. citations

9.2

avg, IF

5.44

L-index

#	Paper	IF	Citations
66	Intrinsic Mechanical Cues and Their Impact on Stem Cells and Embryogenesis. <i>Frontiers in Cell and Developmental Biology</i> , <b>2021</b> , 9, 761871	5.7	4
65	Measuring the elastic modulus of soft culture surfaces and three-dimensional hydrogels using atomic force microscopy. <i>Nature Protocols</i> , <b>2021</b> , 16, 2418-2449	18.8	15
64	OP13 Mucosal organoids capture Innate Lymphoid Cells (ILC) tissue-specific development and reveal that Inflammatory Bowel Disease-associated ILC modulate intestinal remodelling. <i>Journal of Crohn's and Colitis</i> , <b>2021</b> , 15, S013-S014	1.5	
63	GSK3 Inhibitor-Induced Dentinogenesis Using a Hydrogel. <i>Journal of Dental Research</i> , <b>2021</b> , 220345211080652	10.6	2
62	Selectively Cross-Linked Tetra-PEG Hydrogels Provide Control over Mechanical Strength with Minimal Impact on Diffusivity. <i>ACS Biomaterials Science and Engineering</i> , <b>2021</b> , 7, 4293-4304	5.5	4
61	An integrated pipeline for high-throughput screening and profiling of spheroids using simple live image analysis of frame to frame variations. <i>Methods</i> , <b>2021</b> , 190, 33-43	4.6	3
60	ILC1 drive intestinal epithelial and matrix remodelling. <i>Nature Materials</i> , <b>2021</b> , 20, 250-259	27	23
59	Pluripotency state regulates cytoneme selectivity and self-organization of embryonic stem cells. <i>Journal of Cell Biology</i> , <b>2021</b> , 220,	7.3	5
58	A modified glass ionomer cement to mediate dentine repair. <i>Dental Materials</i> , <b>2021</b> , 37, 1307-1315	5.7	2
57	Inflation comes before the fall: How epithelial stretch drives crypt fission. <i>Cell Stem Cell</i> , <b>2021</b> , 28, 1505-1806		
56	Design considerations for engineering 3D models to study vascular pathologies in vitro. <i>Acta Biomaterialia</i> , <b>2021</b> , 132, 114-128	10.8	2
55	Rethinking Cancer Immunotherapy by Embracing and Engineering Complexity. <i>Trends in Biotechnology</i> , <b>2020</b> , 38, 1054-1065	15.1	7
54	Three-dimensional niche stiffness synergizes with Wnt7a to modulate the extent of satellite cell symmetric self-renewal divisions. <i>Molecular Biology of the Cell</i> , <b>2020</b> , 31, 1703-1713	3.5	10
53	Translation Approach for Dentine Regeneration Using GSK-3 Antagonists. <i>Journal of Dental Research</i> , <b>2020</b> , 99, 544-551	8.1	16
52	Adhesive Hydrogels for Maxillofacial Tissue Regeneration Using Minimally Invasive Procedures. <i>Advanced Healthcare Materials</i> , <b>2020</b> , 9, e1901134	10.1	10
51	Hypoxia Inducible Factor-1 $\beta$ n Osteochondral Tissue Engineering. <i>Tissue Engineering - Part B: Reviews</i> , <b>2020</b> , 26, 105-115	7.9	10
50	A Hydrogel-Integrated Culture Device to Interrogate T Cell Activation with Physicochemical Cues. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 47355-47367	9.5	7

49	Complementary techniques to analyse pericellular matrix formation by human MSC within hyaluronic acid hydrogels. <i>Materials Advances</i> , <b>2020</b> , 1, 2888-2896	3.3	2
48	Harnessing the secreted extracellular matrix to engineer tissues. <i>Nature Biomedical Engineering</i> , <b>2020</b> , 4, 357-363	19	30
47	Hypoxia impacts human MSC response to substrate stiffness during chondrogenic differentiation. <i>Acta Biomaterialia</i> , <b>2019</b> , 89, 73-83	10.8	27
46	Multiscale analyses reveal native-like lamellar bone repair and near perfect bone-contact with porous strontium-loaded bioactive glass. <i>Biomaterials</i> , <b>2019</b> , 209, 152-162	15.6	29
45	A comparison of lithium-substituted phosphate and borate bioactive glasses for mineralised tissue repair. <i>Dental Materials</i> , <b>2019</b> , 35, 919-927	5.7	11
44	Exploiting Advanced Hydrogel Technologies to Address Key Challenges in Regenerative Medicine. <i>Advanced Healthcare Materials</i> , <b>2018</b> , 7, e1700939	10.1	66
43	Matrix-associated chondrocyte transplantation for reconstruction of articulating surfaces in the temporomandibular joint: a pilot study covering medium- and long-term outcomes of 6 patients. <i>Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology</i> , <b>2018</b> , 126, 117-128	2	5
42	Differential Regulation of Human Bone Marrow Mesenchymal Stromal Cell Chondrogenesis by Hypoxia Inducible Factor-1 $\beta$ Hydroxylase Inhibitors. <i>Stem Cells</i> , <b>2018</b> , 36, 1380-1392	5.8	38
41	An engineered, quantifiable in vitro model for analysing the effect of proteostasis-targeting drugs on tissue physical properties. <i>Biomaterials</i> , <b>2018</b> , 183, 102-113	15.6	5
40	Collective Cell Behavior in Mechanosensing of Substrate Thickness. <i>Biophysical Journal</i> , <b>2018</b> , 114, 2743-2755	20	20
39	Bi-directional cell-pericellular matrix interactions direct stem cell fate. <i>Nature Communications</i> , <b>2018</b> , 9, 4049	17.4	65
38	Neighboring cells override 3D hydrogel matrix cues to drive human MSC quiescence. <i>Biomaterials</i> , <b>2018</b> , 176, 13-23	15.6	25
37	Monomeric, porous type II collagen scaffolds promote chondrogenic differentiation of human bone marrow mesenchymal stem cells in vitro. <i>Scientific Reports</i> , <b>2017</b> , 7, 43519	4.9	54
36	Optimisation of lithium-substituted bioactive glasses to tailor cell response for hard tissue repair. <i>Journal of Materials Science</i> , <b>2017</b> , 52, 8832-8844	4.3	21
35	Aortic valve calcification: a bone of contention. <i>European Heart Journal</i> , <b>2017</b> , 38, 1189-1193	9.5	13
34	Perivascular Stem Cells at the Tip of Mouse Incisors Regulate Tissue Regeneration. <i>Journal of Bone and Mineral Research</i> , <b>2016</b> , 31, 514-23	6.3	32
33	Sparse feature selection methods identify unexpected global cellular response to strontium-containing materials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 4280-5	11.5	52
32	Composition of Mineral Produced by Dental Mesenchymal Stem Cells. <i>Journal of Dental Research</i> , <b>2015</b> , 94, 1568-74	8.1	29

31	Evolving insights in cell-matrix interactions: elucidating how non-soluble properties of the extracellular niche direct stem cell fate. <i>Acta Biomaterialia</i> , <b>2015</b> , 11, 3-16	10.8	94
30	Therapeutic Ion-Releasing Bioactive Glass Ionomer Cements with Improved Mechanical Strength and Radiopacity. <i>Frontiers in Materials</i> , <b>2015</b> , 2,	4	16
29	Inadequate fine-tuning of protein synthesis and failure of amino acid homeostasis following inhibition of the ATPase VCP/p97. <i>Cell Death and Disease</i> , <b>2015</b> , 6, e2031	9.8	23
28	The role of material structure and mechanical properties in cell-matrix interactions. <i>Journal of Materials Chemistry B</i> , <b>2014</b> , 2, 2345-2356	7.3	52
27	The role of surface free energy in osteoblastBiomaterial interactions. <i>International Materials Reviews</i> , <b>2014</b> , 59, 417-429	16.1	123
26	WhartonS jelly mesenchymal stromal/stem cells derived under chemically defined animal product-free low oxygen conditions are rich in MSCA-1(+) subpopulation. <i>Regenerative Medicine</i> , <b>2014</b> , 9, 723-32	2.5	12
25	Surface properties and ion release from fluoride-containing bioactive glasses promote osteoblast differentiation and mineralization in vitro. <i>Acta Biomaterialia</i> , <b>2013</b> , 9, 5771-9	10.8	75
24	Correlative spectroscopy of silicates in mineralised nodules formed from osteoblasts. <i>Nanoscale</i> , <b>2013</b> , 5, 7544-51	7.7	9
23	Nano-analytical electron microscopy reveals fundamental insights into human cardiovascular tissue calcification. <i>Nature Materials</i> , <b>2013</b> , 12, 576-83	27	190
22	Anisotropic fibrous scaffolds for articular cartilage regeneration. <i>Tissue Engineering - Part A</i> , <b>2012</b> , 18, 2073-83	3.9	117
21	The role of intracellular calcium phosphate in osteoblast-mediated bone apatite formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 14170-5	11.5	335
20	Characterization of porcine aortic valvular interstitial cell S&calcifiedSnodules. <i>PLoS ONE</i> , <b>2012</b> , 7, e48154	3.7	39
19	Gene-expression analysis reveals that embryonic stem cells cultured under osteogenic conditions produce mineral non-specifically compared to marrow stromal cells or osteoblasts. <i>European Cells and Materials</i> , <b>2012</b> , 24, 211-23	4.3	16
18	Strontium- and zinc-alginate hydrogels for bone tissue engineering. <i>Tissue Engineering - Part A</i> , <b>2011</b> , 17, 2713-22	3.9	60
17	Benefits and drawbacks of zinc in glass ionomer bone cements. <i>Biomedical Materials (Bristol)</i> , <b>2011</b> , 6, 045007	3.5	60
16	The effects of strontium-substituted bioactive glasses on osteoblasts and osteoclasts in vitro. <i>Biomaterials</i> , <b>2010</b> , 31, 3949-56	15.6	458
15	Materials characterisation and cytotoxic assessment of strontium-substituted bioactive glasses for bone regeneration. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 8934		90
14	Extracellular matrix-mediated osteogenic differentiation of murine embryonic stem cells. <i>Biomaterials</i> , <b>2010</b> , 31, 3244-52	15.6	78

13	Comparative materials differences revealed in engineered bone as a function of cell-specific differentiation. <i>Nature Materials</i> , <b>2009</b> , 8, 763-70	27	193
12	Substrate stiffness affects early differentiation events in embryonic stem cells. <i>European Cells and Materials</i> , <b>2009</b> , 18, 1-13; discussion 13-4	4.3	322
11	Operating curves to characterize the contraction of fibroblast-seeded collagen gel/collagen fiber composite biomaterials: effect of fiber mass. <i>Plastic and Reconstructive Surgery</i> , <b>2007</b> , 119, 508-16	2.7	2
10	Bioactive Glass Scaffolds for Bone Regeneration. <i>Elements</i> , <b>2007</b> , 3, 393-399	3.8	103
9	Collagen composite biomaterials resist contraction while allowing development of adipocytic soft tissue in vitro. <i>Tissue Engineering</i> , <b>2006</b> , 12, 1639-49		59
8	Scaffolds for stem cells. <i>Materials Today</i> , <b>2006</b> , 9, 26-33	21.8	103
7	Historic and current strategies in bone tissue engineering: do we have a hope in Hench?. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2006</b> , 17, 1029-35	4.5	26
6	Development of ligament-like structural organization and properties in cell-seeded collagen scaffolds in vitro. <i>Annals of Biomedical Engineering</i> , <b>2006</b> , 34, 726-36	4.7	64
5	Collagen Composite Biomaterials Resist Contraction While Allowing Development of Adipocytic Soft Tissue In Vitro. <i>Tissue Engineering</i> , <b>2006</b> , 060706073730043		1
4	Short collagen fibers provide control of contraction and permeability in fibroblast-seeded collagen gels. <i>Tissue Engineering</i> , <b>2004</b> , 10, 421-7		38
3	Mechanical characterization of collagen fibers and scaffolds for tissue engineering. <i>Biomaterials</i> , <b>2003</b> , 24, 3805-13	15.6	300
2	Collective cell behaviour in mechanosensing of substrate thickness		1
1	ILC1-derived TGF $\beta$ drives intestinal remodelling		1