Mary C Farach-Carson

List of Publications by Citations

187 papers	9,815 citations	55 h-index	95 g-index
217 ext. papers	11,362 ext. citations	6.1 avg, IF	6.01 L-index

#	Paper	IF	Citations
187	A promoter-level mammalian expression atlas. *Nature*, **2014**, 507, 462-70	50.4	1301
186	Hyaluronan: a simple polysaccharide with diverse biological functions. *Acta Biomaterialia*, **2014**, 10, 1558-70	7.8	377
185	Hyaluronic Acid-Based Hydrogels: from a Natural Polysaccharide to Complex Networks. *Soft Matter*, **2012**, 8, 3280-3294	3.6	344
184	Three-dimensional in vitro tumor models for cancer research and drug evaluation. *Biotechnology Advances*, **2014**, 32, 1256-1268	17.8	295
183	Tumor Budding: The Name is EMT. Partial EMT. *Journal of Clinical Medicine*, **2016**, 5,	5.1	258
182	Hyaluronic acid-based hydrogels as 3D matrices for in vitro evaluation of chemotherapeutic drugs using poorly adherent prostate cancer cells. *Biomaterials*, **2009**, 30, 6076-85	15.6	222
181	Evaluation of cross-linking methods for electrospun gelatin on cell growth and viability. *Biomacromolecules*, **2009**, 10, 1675-80	6.9	214
180	1,25(OH)2-vitamin D3, a steroid hormone that produces biologic effects via both genomic and nongenomic pathways. *Journal of Steroid Biochemistry and Molecular Biology*, **1992**, 41, 231-40	5.1	183
179	Modeling Ewing sarcoma tumors in vitro with 3D scaffolds. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 6500-5	11.5	180
178	Ultrastructural immunolocalization of noncollagenous (osteopontin and osteocalcin) and plasma (albumin and alpha 2HS-glycoprotein) proteins in rat bone. *Journal of Bone and Mineral Research*, **1993**, 8, 485-96	6.3	156
177	Attachment, proliferation, and migration of marrow stromal osteoblasts cultured on biomimetic hydrogels modified with an osteopontin-derived peptide. *Biomaterials*, **2004**, 25, 895-906	15.6	135
176	Expression of the heparan sulfate proteoglycan, perlecan, during mouse embryogenesis and perlecan chondrogenic activity in vitro. *Journal of Cell Biology*, **1999**, 145, 1103-15	7.3	128
175	Osteopontin-stimulated vascular smooth muscle cell migration is mediated by beta 3 integrin. *Experimental Cell Research*, **1994**, 214, 459-64	4.2	122
174	Isolation, characterization and immunolocalization of a 53-kDal dentin sialoprotein (DSP). *Matrix Biology*, **1992**, 12, 343-51		122
173	Coating electrospun collagen and gelatin fibers with perlecan domain I for increased growth factor binding. *Biomacromolecules*, **2007**, 8, 1116-23	6.9	121
172	Modulation of differentiation and mineralization of marrow stromal cells cultured on biomimetic hydrogels modified with Arg-Gly-Asp containing peptides. *Journal of Biomedical Materials Research Part B*, **2004**, 69, 535-43		121
171	Nongenomic actions of 1,25-dihydroxyvitamin D3 in rat osteosarcoma cells: structure-function studies using ligand analogs. *Endocrinology*, **1991**, 129, 1876-84	4.8	114

170	Membrane receptors for steroid hormones: a case for specific cell surface binding sites for vitamin D metabolites and estrogens. *Biochemical and Biophysical Research Communications*, **1998**, 248, 443-9	3.4	111
169	Immunolocalization of osteopontin, osteocalcin, and dentin sialoprotein during dental root formation and early cementogenesis in the rat. *Journal of Bone and Mineral Research*, **1994**, 9, 833-41	6.3	108
168	Border patrol: insights into the unique role of perlecan/heparan sulfate proteoglycan 2 at cell and tissue borders. *Matrix Biology*, **2014**, 34, 64-79	11.4	107
167	Biofunctionalization of electrospun PCL-based scaffolds with perlecan domain IV peptide to create a 3-D pharmacokinetic cancer model. *Biomaterials*, **2010**, 31, 5700-18	15.6	107
166	Perlecan--a multifunctional extracellular proteoglycan scaffold. *Glycobiology*, **2007**, 17, 897-905	5.8	107
165	Recreating the tumor microenvironment in a bilayer, hyaluronic acid hydrogel construct for the growth of prostate cancer spheroids. *Biomaterials*, **2012**, 33, 9049-60	15.6	103
164	Osteogenic differentiation of rat bone marrow stromal cells cultured on Arg-Gly-Asp modified hydrogels without dexamethasone and beta-glycerol phosphate. *Biomaterials*, **2005**, 26, 3645-54	15.6	103
163	Heralding a new paradigm in 3D tumor modeling. *Biomaterials*, **2016**, 108, 197-213	15.6	98
162	Evidence for the formation of a complex between osteopontin and osteocalcin. *Journal of Bone and Mineral Research*, **1992**, 7, 877-85	6.3	95
161	The in vivo performance of plasmonic nanobubbles as cell theranostic agents in zebrafish hosting prostate cancer xenografts. *Biomaterials*, **2010**, 31, 7567-74	15.6	92
160	A hydrogel-based tumor model for the evaluation of nanoparticle-based cancer therapeutics. *Biomaterials*, **2014**, 35, 3319-30	15.6	90
159	Perlecan domain I-conjugated, hyaluronic acid-based hydrogel particles for enhanced chondrogenic differentiation via BMP-2 release. *Biomaterials*, **2009**, 30, 6964-75	15.6	90
158	FANTOM5 CAGE profiles of human and mouse samples. *Scientific Data*, **2017**, 4, 170112	8.2	88
157	beta2-microglobulin is a signaling and growth-promoting factor for human prostate cancer bone metastasis. *Cancer Research*, **2006**, 66, 9108-16	10.1	88
156	Perlecan/Hspg2 deficiency alters the pericellular space of the lacunocanalicular system surrounding osteocytic processes in cortical bone. *Journal of Bone and Mineral Research*, **2011**, 26, 618-29	6.3	83
155	Inflammatory breast cancer: a model for investigating cluster-based dissemination. *Npj Breast Cancer*, **2017**, 3, 21	7.8	81
154	Potential role for heparan sulfate proteoglycans in regulation of transforming growth factor-beta (TGF-beta) by modulating assembly of latent TGF-beta-binding protein-1. *Journal of Biological Chemistry*, **2007**, 282, 26418-30	5.4	80
153	Multifunctionality of extracellular and cell surface heparan sulfate proteoglycans. *Cellular and Molecular Life Sciences*, **2009**, 66, 3421-34	10.3	75

152	A 3D in vitro model of patient-derived prostate cancer xenograft for controlled interrogation of in vivo tumor-stromal interactions. *Biomaterials*, **2016**, 77, 164-72	15.6	74
151	Identification and characterization of 1,25D3-membrane-associated rapid response, steroid (1,25D3-MARRS) binding protein. *Journal of Steroid Biochemistry and Molecular Biology*, **2004**, 89-90, 281-5	5.1	74
150	3D Matrices for Anti-Cancer Drug Testing and Development. *Oncology Issues*, **2010**, 25, 20-25	0.2	73
149	Steroid hormone interactions with target cells: cross talk between membrane and nuclear pathways. *Journal of Pharmacology and Experimental Therapeutics*, **2003**, 307, 839-45	4.7	73
148	Perlecan-containing pericellular matrix regulates solute transport and mechanosensing within the osteocyte lacunar-canalicular system. *Journal of Bone and Mineral Research*, **2014**, 29, 878-91	6.3	68
147	Tunable plasmonic nanoprobes for theranostics of prostate cancer. *Theranostics*, **2011**, 1, 3-17	12.1	64
146	Expression of voltage sensitive calcium channel (VSCC) L-type Cav1.2 (alpha1C) and T-type Cav3.2 (alpha1H) subunits during mouse bone development. *Developmental Dynamics*, **2005**, 234, 54-62	2.9	64
145	RANK- and c-Met-mediated signal network promotes prostate cancer metastatic colonization. *Endocrine-Related Cancer*, **2014**, 21, 311-26	5.7	62
144	Evidence that a non-RGD domain in rat osteopontin is involved in cell attachment. *Journal of Bone and Mineral Research*, **1993**, 8, 1499-506	6.3	62
143	Association of the (2)(1) subunit with Ca(v)3.2 enhances membrane expression and regulates mechanically induced ATP release in MLO-Y4 osteocytes. *Journal of Bone and Mineral Research*, **2011**, 26, 2125-39	6.3	61
142	Fiber diameters control osteoblastic cell migration and differentiation in electrospun gelatin. *Journal of Biomedical Materials Research - Part A*, **2010**, 94, 1312-20	5.4	61
141	Chondrogenic activity of the heparan sulfate proteoglycan perlecan maps to the N-terminal domain I. *Journal of Bone and Mineral Research*, **2002**, 17, 48-55	6.3	61
140	Hydrogel-based 3D model of patient-derived prostate xenograft tumors suitable for drug screening. *Molecular Pharmaceutics*, **2014**, 11, 2040-50	5.6	60
139	Implantable three-dimensional salivary spheroid assemblies demonstrate fluid and protein secretory responses to neurotransmitters. *Tissue Engineering - Part A*, **2013**, 19, 1610-20	3.9	60
138	High extracellular calcium attenuates adipogenesis in 3T3-L1 preadipocytes. *Experimental Cell Research*, **2004**, 301, 280-92	4.2	60
137	Structure-based design of selective agonists for a rickets-associated mutant of the vitamin d receptor. *Journal of the American Chemical Society*, **2002**, 124, 13795-805	16.4	60
136	Microfabricated electrospun collagen membranes for 3-D cancer models and drug screening applications. *Biomacromolecules*, **2009**, 10, 2019-32	6.9	58
135	Type I collagen-mediated proliferation of PC3 prostate carcinoma cell line: implications for enhanced growth in the bone microenvironment. *Matrix Biology*, **2001**, 20, 429-37	11.4	57

134	Chondrogenic differentiation on perlecan domain I, collagen II, and bone morphogenetic protein-2-based matrices. *Tissue Engineering*, **2006**, 12, 2009-24		56
133	Perlecan knockdown in metastatic prostate cancer cells reduces heparin-binding growth factor responses in vitro and tumor growth in vivo. *Clinical and Experimental Metastasis*, **2005**, 22, 377-90	4.7	55
132	Interleukin-6: a bone marrow stromal cell paracrine signal that induces neuroendocrine differentiation and modulates autophagy in bone metastatic PCa cells. *Autophagy*, **2012**, 8, 650-63	10.2	53
131	Hierarchically structured, hyaluronic acid-based hydrogel matrices via the covalent integration of microgels into macroscopic networks. *Soft Matter*, **2010**, 6, 5045-5055	3.6	51
130	Injectable perlecan domain 1-hyaluronan microgels potentiate the cartilage repair effect of BMP2 in a murine model of early osteoarthritis. *Biomedical Materials (Bristol)*, **2012**, 7, 024109	3.5	51
129	Phosphorylated osteopontin promotes migration of human choriocarcinoma cells via a p70 S6 kinase-dependent pathway. *Journal of Cellular Biochemistry*, **2005**, 94, 1218-33	4.7	51
128	Perlecan domain I promotes fibroblast growth factor 2 delivery in collagen I fibril scaffolds. *Tissue Engineering*, **2005**, 11, 76-89		50
127	Matrilysin/matrix metalloproteinase-7(MMP7) cleavage of perlecan/HSPG2 creates a molecular switch to alter prostate cancer cell behavior. *Matrix Biology*, **2014**, 36, 64-76	11.4	49
126	Prostate cancer and neuroendocrine differentiation: more neuronal, less endocrine?. *Frontiers in Oncology*, **2015**, 5, 37	5.3	49
125	Hyaluronan (HA) interacting proteins RHAMM and hyaluronidase impact prostate cancer cell behavior and invadopodia formation in 3D HA-based hydrogels. *PLoS ONE*, **2012**, 7, e50075	3.7	49
124	Lumen formation in three-dimensional cultures of salivary acinar cells. *Otolaryngology - Head and Neck Surgery*, **2010**, 142, 191-5	5.5	48
123	Mining the extracellular matrix for tissue engineering applications. *Regenerative Medicine*, **2010**, 5, 961-70	2.5	48
122	Nuclear translocation of the 1,25D3-MARRS (membrane associated rapid response to steroids) receptor protein and NFkappaB in differentiating NB4 leukemia cells. *Experimental Cell Research*, **2010**, 316, 1101-8	4.2	48
121	Bone matrix proteins in osteogenesis and remodelling in the neonatal rat mandible as studied by immunolocalization of osteopontin, bone sialoprotein, alpha 2HS-glycoprotein and alkaline phosphatase. *Archives of Oral Biology*, **1995**, 40, 145-55	2.8	48
120	Osteoprotegerin expression and secretion are regulated by calcium influx through the L-type voltage-sensitive calcium channel. *Endocrinology*, **2004**, 145, 426-36	4.8	47
119	Quantitative modeling and analysis of the transforming growth factor beta signaling pathway. *Biophysical Journal*, **2009**, 96, 1733-50	2.9	46
118	Dual 1,25-dihydroxyvitamin D3 signal response pathways in osteoblasts: cross-talk between genomic and membrane-initiated pathways. *American Journal of Kidney Diseases*, **1998**, 31, 729-42	7.4	45
117	Differentiation-induced loss of heparan sulfate in human exostosis derived chondrocytes. *Differentiation*, **2005**, 73, 212-21	3.5	43

116	Calcium signals in prostate cancer cells: specific activation by bone-matrix proteins. *Cell Calcium*, **2000**, 27, 35-42	4	43
115	Differing shapes of 1 alpha,25-dihydroxyvitamin D3 function as ligands for the D-binding protein, nuclear receptor and membrane receptor: a status report. *Journal of Steroid Biochemistry and Molecular Biology*, **1996**, 56, 13-22	5.1	43
114	Identification of the rat bone 60K acidic glycoprotein as alpha 2HS-glycoprotein. *Bone and Mineral*, **1991**, 13, 1-21		43
113	Mecp2 deficiency decreases bone formation and reduces bone volume in a rodent model of Rett syndrome. *Bone*, **2009**, 45, 346-56	4.7	41
112	A novel peptide sequence in perlecan domain IV supports cell adhesion, spreading and FAK activation. *Matrix Biology*, **2008**, 27, 150-60	11.4	41
111	Modulation of osteopontin post-translational state by 1, 25-(OH)2-vitamin D3. Dependence on Ca2+ influx. *Journal of Biological Chemistry*, **1998**, 273, 29935-41	5.4	40
110	Primary Salivary Human Stem/Progenitor Cells Undergo Microenvironment-Driven Acinar-Like Differentiation in Hyaluronate Hydrogel Culture. *Stem Cells Translational Medicine*, **2017**, 6, 110-120	6.9	38
109	Osteoblast Ca(2+) permeability and voltage-sensitive Ca(2+) channel expression is temporally regulated by 1,25-dihydroxyvitamin D(3). *American Journal of Physiology - Cell Physiology*, **2006**, 290, C822-31	5.4	38
108	Multilayered, Hyaluronic Acid-Based Hydrogel Formulations Suitable for Automated 3D High Throughput Drug Screening of Cancer-Stromal Cell Cocultures. *Advanced Healthcare Materials*, **2015**, 4, 1664-74	10.1	36
107	Perlecan domain IV peptide stimulates salivary gland cell assembly in vitro. *Tissue Engineering - Part A*, **2009**, 15, 3309-20	3.9	36
106	Involvement of 1,25D3-MARRS (membrane associated, rapid response steroid-binding), a novel vitamin D receptor, in growth inhibition of breast cancer cells. *Experimental Cell Research*, **2010**, 316, 695-703	4.2	36
105	Conditional disruption of calcineurin B1 in osteoblasts increases bone formation and reduces bone resorption. *Journal of Biological Chemistry*, **2007**, 282, 35318-27	5.4	35
104	Heparan sulfate proteoglycans: key players in cartilage biology. *Critical Reviews in Eukaryotic Gene Expression*, **2005**, 15, 29-48	1.3	35
103	Identification and characterization of 1,25D3-membrane-associated rapid response, steroid (1,25D3-MARRS)-binding protein in rat IEC-6 cells. *Steroids*, **2005**, 70, 458-63	2.8	34
102	Heparanase expression and activity influences chondrogenic and osteogenic processes during endochondral bone formation. *Bone*, **2008**, 43, 689-99	4.7	33
101	Microarray detection of gene expression changes induced by 1,25(OH)(2)D(3) and a Ca(2+) influx-activating analog in osteoblastic ROS 17/2.8 cells. *Steroids*, **2002**, 67, 467-70	2.8	33
100	Single molecule force measurements of perlecan/HSPG2: A key component of the osteocyte pericellular matrix. *Matrix Biology*, **2016**, 50, 27-38	11.4	32
99	Improved cellular specificity of plasmonic nanobubbles versus nanoparticles in heterogeneous cell systems. *PLoS ONE*, **2012**, 7, e34537	3.7	32

98	Ribozyme ablation demonstrates that the cardiac subtype of the voltage-sensitive calcium channel is the molecular transducer of 1, 25-dihydroxyvitamin D(3)-stimulated calcium influx in osteoblastic cells. *Journal of Biological Chemistry*, **2000**, 275, 8711-8	5.4	32
97	A novel in vivo model for evaluating functional restoration of a tissue-engineered salivary gland. *Laryngoscope*, **2014**, 124, 456-61	3.6	31
96	Down-regulation of L-type Ca2+ channel transcript levels by 1,25-dihyroxyvitamin D3. Osteoblastic cells express L-type alpha1C Ca2+ channel isoforms. *Journal of Biological Chemistry*, **1996**, 271, 32981-5	5.4	31
95	Paracrine factors produced by bone marrow stromal cells induce apoptosis and neuroendocrine differentiation in prostate cancer cells. *Prostate*, **2011**, 71, 157-67	4.2	29
94	Perlecan functions in chondrogenesis: insights from in vitro and in vivo models. *Cells Tissues Organs*, **2004**, 176, 79-86	2.1	28
93	Biomaterials-based strategies for salivary gland tissue regeneration. *Biomaterials Science*, **2016**, 4, 592-604	7.4	27
92	Novel surface expression of reticulocalbin 1 on bone endothelial cells and human prostate cancer cells is regulated by TNF-alpha. *Journal of Cellular Biochemistry*, **2008**, 104, 2298-309	4.7	27
91	Coculture with prostate cancer cells alters endoglin expression and attenuates transforming growth factor-beta signaling in reactive bone marrow stromal cells. *Molecular Cancer Research*, **2007**, 5, 585-603	6.6	27
90	IL-1□induces p62/SQSTM1 and represses androgen receptor expression in prostate cancer cells. *Journal of Cellular Biochemistry*, **2014**, 115, 2188-97	4.7	25
89	Transcriptional activation by NFB increases perlecan/HSPG2 expression in the desmoplastic prostate tumor microenvironment. *Journal of Cellular Biochemistry*, **2014**, 115, 1322-33	4.7	25
88	Dynamic interactions between L-type voltage-sensitive calcium channel Cav1.2 subunits and ahnak in osteoblastic cells. *American Journal of Physiology - Cell Physiology*, **2009**, 296, C1067-78	5.4	25
87	Modular Proteoglycan Perlecan/: Mutations, Phenotypes, and Functions. *Genes*, **2018**, 9,	4.2	24
86	Tuning Hydrogel Properties to Promote the Assembly of Salivary Gland Spheroids in 3D. *ACS Biomaterials Science and Engineering*, **2016**, 2, 2217-2230	5.5	23
85	Heparanase expression and function during early pregnancy in mice. *Biology of Reproduction*, **2007**, 77, 433-41	3.9	23
84	Hypoxia increases VEGF-A production by prostate cancer and bone marrow stromal cells and initiates paracrine activation of bone marrow endothelial cells. *Clinical and Experimental Metastasis*, **2006**, 23, 75-86	4.7	23
83	Three-dimensional (3D) culture of bone-derived human 786-O renal cell carcinoma retains relevant clinical characteristics of bone metastases. *Cancer Letters*, **2015**, 365, 89-95	9.9	22
82	Deficiency in perlecan/HSPG2 during bone development enhances osteogenesis and decreases quality of adult bone in mice. *Calcified Tissue International*, **2014**, 95, 29-38	3.9	21
81	Voltage-sensitive calcium channels in osteoblasts: mediators of plasma membrane signalling events. *Connective Tissue Research*, **1996**, 35, 107-11	3.3	21

80	Perlecan/HSPG2 and matrilysin/MMP-7 as indices of tissue invasion: tissue localization and circulating perlecan fragments in a cohort of 288 radical prostatectomy patients. *Oncotarget*, **2016**, 7, 10433-47	3.3	21
79	Bottom-up assembly of salivary gland microtissues for assessing myoepithelial cell function. *Biomaterials*, **2017**, 142, 124-135	15.6	19
78	Tumor necrosis factor-□treatment of HepG2 cells mobilizes a cytoplasmic pool of ERp57/1,25D□MARRS to the nucleus. *Journal of Cellular Biochemistry*, **2011**, 112, 2606-15	4.7	19
77	Ribosomal protein L29/HIP deficiency delays osteogenesis and increases fragility of adult bone in mice. *Journal of Orthopaedic Research*, **2009**, 27, 28-35	3.8	19
76	Ultrahigh-throughput Generation and Characterization of Cellular Aggregates in Laser-ablated Microwells of Poly(dimethylsiloxane). *RSC Advances*, **2016**, 6, 8980-8991	3.7	18
75	Matrilysin/MMP-7 Cleavage of Perlecan/HSPG2 Complexed with Semaphorin 3A Supports FAK-Mediated Stromal Invasion by Prostate Cancer Cells. *Scientific Reports*, **2018**, 8, 7262	4.9	17
74	p62/SQSTM1 is required for cell survival of apoptosis-resistant bone metastatic prostate cancer cell lines. *Prostate*, **2014**, 74, 149-63	4.2	17
73	HIP/RPL29 down-regulation accompanies terminal chondrocyte differentiation. *Differentiation*, **2003**, 71, 322-36	3.5	17
72	Neuronal Trans-Differentiation in Prostate Cancer Cells. *Prostate*, **2016**, 76, 1312-25	4.2	16
71	Sex Differences and Bone Metastases of Breast, Lung, and Prostate Cancers: Do Bone Homing Cancers Favor Feminized Bone Marrow?. *Frontiers in Oncology*, **2017**, 7, 163	5.3	15
70	Mechanism of 24,25-dihydroxyvitamin D3-mediated inhibition of rapid, 1,25-dihydroxyvitamin D3-induced responses: role of reactive oxygen species. *Journal of Cellular Biochemistry*, **2006**, 99, 1572-81	4.7	15
69	Ribozyme-mediated perlecan knockdown impairs chondrogenic differentiation of C3H10T1/2 fibroblasts. *Differentiation*, **2006**, 74, 53-63	3.5	15
68	Parathyroid hormone-stimulated resorption in calvaria cultured in serum-free medium is enhanced by the calcium-mobilizing activity of 1,25-dihydroxyvitamin D(3). *Bone*, **2001**, 29, 231-5	4.7	15
67	Evolution of the perlecan/HSPG2 gene and its activation in regenerating Nematostella vectensis. *PLoS ONE*, **2015**, 10, e0124578	3.7	14
66	Perlecan domain I gradients establish stable biomimetic heparin binding growth factor gradients for cell migration in hydrogels. *Acta Biomaterialia*, **2019**, 97, 385-398	10.8	13
65	A control engineering approach to understanding the TGF-□paradox in cancer. *Journal of the Royal Society Interface*, **2012**, 9, 1389-97	4.1	13
64	Chaperone properties of pdia3 participate in rapid membrane actions of 1□25-dihydroxyvitamin d3. *Molecular Endocrinology*, **2013**, 27, 1065-77		12
63	HIP/RPL29 antagonizes VEGF and FGF2 stimulated angiogenesis by interfering with HS-dependent responses. *Journal of Cellular Biochemistry*, **2008**, 105, 1183-93	4.7	12

62	Heparan sulfate interacting protein (HIP/L29) negatively regulates growth responses to basic fibroblast growth factor in gingival fibroblasts. *Journal of Dental Research*, **2002**, 81, 247-52	8.1	12
61	Perlecan/Hspg2 deficiency impairs bone calcium signaling and associated transcriptome in response to mechanical loading. *Bone*, **2020**, 131, 115078	4.7	12
60	Perlecan/HSPG2: Signaling role of domain IV in chondrocyte clustering with implications for Schwartz-Jampel Syndrome. *Journal of Cellular Biochemistry*, **2018**, 120, 2138	4.7	12
59	TISSUE ENGINEERING PERFUSABLE CANCER MODELS. *Current Opinion in Chemical Engineering*, **2014**, 3, 112-117	5.4	11
58	Regulation of expression of 1,25D3-MARRS/ERp57/PDIA3 in rat IEC-6 cells by TGF beta and 1,25(OH)2D3. *Steroids*, **2007**, 72, 144-50	2.8	11
57	Artificial Induction of Native Aquaporin-1 Expression in Human Salivary Cells. *Journal of Dental Research*, **2017**, 96, 444-449	8.1	10
56	Amphiphilic block co-polyesters bearing pendant cyclic ketal groups as nanocarriers for controlled release of camptothecin. *Journal of Biomaterials Science, Polymer Edition*, **2011**, 22, 1275-98	3.5	10
55	Sustained delivery of recombinant human bone morphogenetic protein-2 from perlecan domain I - functionalized electrospun poly (caprolactone) scaffolds for bone regeneration. *Journal of Experimental Orthopaedics*, **2016**, 3, 25	2.3	10
54	Effect of agents used in perforation repair on osteoblastic cells. *Journal of Endodontics*, **1997**, 23, 158-61	4.7	9
53	Effect of HIP/ribosomal protein L29 deficiency on mineral properties of murine bones and teeth. *Bone*, **2010**, 47, 93-101	4.7	8
52	1,25 dihydroxyvitamin D(3) activates sphingomyelin turnover in ROS17/2.8 osteosarcoma cells without sphingolipid-induced changes in cytosolic Ca(2+). *Biochemical and Biophysical Research Communications*, **2000**, 273, 95-100	3.4	8
51	Integrating rapid responses to 1,25-dihydroxyvitamin D3 with transcriptional changes in osteoblasts: Ca2+ regulated pathways to the nucleus. *Steroids*, **2004**, 69, 543-7	2.8	7
50	Rainbow Plasmonic Nanobubbles: Synergistic Activation of Gold Nanoparticle Clusters. *Journal of Nanomedicine & Nanotechnology*, **2011**, 2, 1-8	1.9	7
49	Flipping the Molecular Switch: Influence of Perlecan and Its Modifiers in the Tumor Microenvironment. *Advances in Experimental Medicine and Biology*, **2020**, 1245, 133-146	3.6	7
48	Dynamic Assembly of Human Salivary Stem/Progenitor Microstructures Requires Coordinated Integrin-Mediated Motility. *Frontiers in Cell and Developmental Biology*, **2019**, 7, 224	5.7	7
47	Medical and Dental Electronic Health Record Reporting Discrepancies in Integrated Patient Care. *JDR Clinical and Translational Research*, **2020**, 5, 278-283	2.2	7
46	Reassembly of Functional Human Stem/Progenitor Cells in 3D Culture. *Methods in Molecular Biology* , **2018**, 1817, 19-32	1.4	6
45	Co-culture of osteocytes and neurons on a unique patterned surface. *Biointerphases*, **2011**, 6, 200-9	1.8	6

44	Decidual heparanase activity is increased during pregnancy in the baboon (Papio anubis) and in in vitro decidualization of human stromal cells. *Biology of Reproduction*, **2008**, 78, 316-23	3.9	6
43	Spatiotemporal distribution of heparan sulfate epitopes during murine cartilage growth plate development. *Histochemistry and Cell Biology*, **2006**, 126, 713-22	2.4	6
42	A rapid and simple nonradioactive method for in vitro testing of ribozyme activity. *Oligonucleotides*, **2002**, 12, 283-8		6
41	Bioactive analogs that simulate subsets of biological activities of 1alpha,25(OH)(2)D(3) in osteoblasts. *Steroids*, **2001**, 66, 357-61	2.8	6
40	Cabozantinib Reverses Renal Cell Carcinoma-mediated Osteoblast Inhibition in Three-dimensional Coculture and Reduces Bone Osteolysis. *Molecular Cancer Therapeutics*, **2020**, 19, 1266-1278	6.1	6
39	SULF1 suppresses Wnt3A-driven growth of bone metastatic prostate cancer in perlecan-modified 3D cancer-stroma-macrophage triculture models. *PLoS ONE*, **2020**, 15, e0230354	3.7	5
38	Ribozyme-mediated reduction of wild-type and mutant cartilage oligomeric matrix protein (COMP) mRNA and protein. *Rna*, **2009**, 15, 686-95	5.8	4
37	Rapamycin selectively reduces the association of transcripts containing complex 5QUTRs with ribosomes in C4-2B prostate cancer cells. *Journal of Cellular Biochemistry*, **2009**, 107, 473-81	4.7	4
36	Assay of direct effect of 1,25-dihydroxyvitamin D3 on calcium ion influx into cultured osteoblasts. *Methods in Enzymology*, **1997**, 282, 236-43	1.7	4
35	Immunochemical comparison of transformation-associated protein and secreted phosphoprotein. *International Journal of Cancer*, **1990**, 46, 864-70	7.5	4
34	Building a Functional Salivary Gland for Cell-Based Therapy: More than Secretory Epithelial Acini. *Tissue Engineering - Part A*, **2020**, 26, 1332-1348	3.9	4
33	Dissociative and Nondissociative Models for Culture of Human Eccrine Glands for Toxicology Testing and Tissue Engineering Applications. *Applied in Vitro Toxicology*, **2015**, 1, 187-197	1.3	3
32	Improved binding of acidic bone matrix proteins to cationized filters during solid phase assays. *Bone and Mineral*, **1992**, 16, 1-9		3
31	All bone metastases are not created equal: Revisiting treatment resistance in renal cell carcinoma. *Journal of Bone Oncology*, **2021**, 31, 100399	4.5	3
30	Cleavage of the Perlecan-Semaphorin 3A-Plexin A1-Neuropilin-1 (PSPN) Complex by Matrix Metalloproteinase 7/Matrilysin Triggers Prostate Cancer Cell Dyscohesion and Migration. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	3
29	Discovery of widespread transcription initiation at microsatellites predictable by sequence-based deep neural network. *Nature Communications*, **2021**, 12, 3297	17.4	3
28	The role of combined radiation and immunotherapy in breast cancer treatment. *Journal of Radiation Oncology*, **2015**, 4, 347-354	0.7	2
27	Enhanced Viability for Ex vivo 3D Hydrogel Cultures of Patient-Derived Xenografts in a Perfused Microfluidic Platform. *Journal of Visualized Experiments*, **2020**,	1.6	2

26	Salivary Gland Tissue Engineering and Repair **2015**, 613-623		1
25	Trabecular Bone Deficit and Enhanced Anabolic Response to Re-Ambulation after Disuse in Perlecan-Deficient Skeleton. *Biomolecules*, **2020**, 10,	5.9	1
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