

# George R Beck Jr

## List of Publications by Citations

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39  
papers

6,438  
citations

26  
h-index

40  
g-index

40  
ext. papers

7,716  
ext. citations

6.3  
avg, IF

4.89  
L-index

#	Paper	IF	Citations
39	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , <b>2016</b> , 12, 1-222	10.2	3838
38	Guidelines for the use and interpretation of assays for monitoring autophagy (4th edition). <i>Autophagy</i> , <b>2021</b> , 17, 1-382	10.2	440
37	Inorganic phosphate as a signaling molecule in osteoblast differentiation. <i>Journal of Cellular Biochemistry</i> , <b>2003</b> , 90, 234-43	4.7	230
36	Relationship between alkaline phosphatase levels, osteopontin expression, and mineralization in differentiating MC3T3-E1 osteoblasts. <i>Journal of Cellular Biochemistry</i> , <b>1998</b> , 68, 269-80	4.7	175
35	Bioactive silica-based nanoparticles stimulate bone-forming osteoblasts, suppress bone-resorbing osteoclasts, and enhance bone mineral density in vivo. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2012</b> , 8, 793-803	6	160
34	Inorganic phosphate regulates multiple genes during osteoblast differentiation, including Nrf2. <i>Experimental Cell Research</i> , <b>2003</b> , 288, 288-300	4.2	155
33	Analysis of the extracellular matrix vesicle proteome in mineralizing osteoblasts. <i>Journal of Cellular Physiology</i> , <b>2007</b> , 210, 325-35	7	137
32	Bioactive silica nanoparticles promote osteoblast differentiation through stimulation of autophagy and direct association with LC3 and p62. <i>ACS Nano</i> , <b>2014</b> , 8, 5898-910	16.7	135
31	Osteopontin regulation by inorganic phosphate is ERK1/2-, protein kinase C-, and proteasome-dependent. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 41921-9	5.4	123
30	A combined proteome and microarray investigation of inorganic phosphate-induced pre-osteoblast cells. <i>Molecular and Cellular Proteomics</i> , <b>2005</b> , 4, 1284-96	7.6	101
29	Nano-hydroxyapatite modulates osteoblast lineage commitment by stimulation of DNA methylation and regulation of gene expression. <i>Biomaterials</i> , <b>2015</b> , 65, 32-42	15.6	86
28	High dietary inorganic phosphate increases lung tumorigenesis and alters Akt signaling. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2009</b> , 179, 59-68	10.2	82
27	An integrated understanding of the physiological response to elevated extracellular phosphate. <i>Journal of Cellular Physiology</i> , <b>2013</b> , 228, 1536-50	7	77
26	New method to prepare very stable and biocompatible fluorescent silica nanoparticles. <i>Chemical Communications</i> , <b>2009</b> , 2881-3	5.8	77
25	Elevated phosphate activates N-ras and promotes cell transformation and skin tumorigenesis. <i>Cancer Prevention Research</i> , <b>2010</b> , 3, 359-70	3.2	57
24	Toxicity and clearance of intratracheally administered multiwalled carbon nanotubes from murine lung. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , <b>2010</b> , 73, 1530-43	3.2	45
23	Elevated inorganic phosphate stimulates Akt-ERK1/2-Mnk1 signaling in human lung cells. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2006</b> , 35, 528-39	5.7	44

22	Quantitative proteomic analysis of inorganic phosphate-induced murine MC3T3-E1 osteoblast cells. <i>Electrophoresis</i> , <b>2004</b> , 25, 1342-52	3.6	43
21	The effects of thiazolidinediones on human bone marrow stromal cell differentiation in vitro and in thiazolidinedione-treated patients with type 2 diabetes. <i>Translational Research</i> , <b>2013</b> , 161, 145-55	11	42
20	Identification of the homeobox protein Prx1 (MHox, Prrx-1) as a regulator of osterix expression and mediator of tumor necrosis factor $\alpha$ action in osteoblast differentiation. <i>Journal of Bone and Mineral Research</i> , <b>2011</b> , 26, 209-19	6.3	42
19	Inorganic phosphate induces cancer cell mediated angiogenesis dependent on forkhead box protein C2 (FOXC2) regulated osteopontin expression. <i>Molecular Carcinogenesis</i> , <b>2015</b> , 54, 926-34	5	39
18	Impact of Phosphorus-Based Food Additives on Bone and Mineral Metabolism. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2015</b> , 100, 4264-71	5.6	37
17	Bio-active engineered 50 nm silica nanoparticles with bone anabolic activity: therapeutic index, effective concentration, and cytotoxicity profile in vitro. <i>Toxicology in Vitro</i> , <b>2014</b> , 28, 354-64	3.6	34
16	Knockdown of the sodium-dependent phosphate co-transporter 2b (NPT2b) suppresses lung tumorigenesis. <i>PLoS ONE</i> , <b>2013</b> , 8, e77121	3.7	29
15	Bioactive silica nanoparticles reverse age-associated bone loss in mice. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2015</b> , 11, 959-967	6	28
14	A high inorganic phosphate diet perturbs brain growth, alters Akt-ERK signaling, and results in changes in cap-dependent translation. <i>Toxicological Sciences</i> , <b>2006</b> , 90, 221-9	4.4	27
13	Nano-Hydroxyapatite Stimulation of Gene Expression Requires Fgf Receptor, Phosphate Transporter, and Erk1/2 Signaling. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 39185-39196	9.5	26
12	Suppression of lung tumorigenesis by leucine zipper/EF hand-containing transmembrane-1. <i>PLoS ONE</i> , <b>2010</b> , 5, e12535	3.7	25
11	Bioactive effects of silica nanoparticles on bone cells are size, surface, and composition dependent. <i>Acta Biomaterialia</i> , <b>2018</b> , 82, 184-196	10.8	25
10	Aerosol delivery of small hairpin osteopontin blocks pulmonary metastasis of breast cancer in mice. <i>PLoS ONE</i> , <b>2010</b> , 5, e15623	3.7	22
9	Probing early growth response 1 interacting proteins at the active promoter in osteoblast cells using oligoprecipitation and mass spectrometry. <i>Journal of Proteome Research</i> , <b>2006</b> , 5, 1931-9	5.6	16
8	LONG-TERM MONITORING OF THE PHYSICO-CHEMICAL PROPERTIES OF SILICA-BASED NANOPARTICLES ON THE RATE OF ENDOCYTOSIS AND EXOCYTOSIS AND CONSEQUENCES OF CELL DIVISION. <i>Soft Materials</i> , <b>2013</b> , 11, 195-203	1.7	14
7	Analysis of the extracellular matrix and secreted vesicle proteomes by mass spectrometry. <i>Methods in Molecular Biology</i> , <b>2008</b> , 428, 231-44	1.4	7
6	CTLA-4Ig (abatacept) balances bone anabolic effects of T cells and Wnt-10b with antianabolic effects of osteoblastic sclerostin. <i>Annals of the New York Academy of Sciences</i> , <b>2018</b> , 1415, 21-33	6.5	6
5	Effects of phosphorus and calcium to phosphorus consumption ratio on mineral metabolism and cardiometabolic health. <i>Journal of Nutritional Biochemistry</i> , <b>2020</b> , 80, 108374	6.3	5

4	Applications of silica-based nanomaterials in dental and skeletal biology <b>2019</b> , 77-112		4
3	Modulating phosphate consumption, a novel therapeutic approach for the control of cancer cell proliferation and tumorigenesis. <i>Biochemical Pharmacology</i> , <b>2021</b> , 183, 114305	6	3
2	Synthesis of pH stable, blue light-emitting diode-excited, fluorescent silica nanoparticles and effects on cell behavior. <i>International Journal of Nanomedicine</i> , <b>2017</b> , 12, 8699-8710	7.3	2
1	Phosphorus and Malignancies <b>2017</b> , 241-260		