

George R Beck Jr

List of Publications by Year in Descending Order

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Version: 2024-04-27

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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.

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	Modulating phosphate consumption, a novel therapeutic approach for the control of cancer cell proliferation and tumorigenesis. <i>Biochemical Pharmacology</i> , 2021 , 183, 114305	6	3
38	Guidelines for the use and interpretation of assays for monitoring autophagy (4th edition). <i>Autophagy</i> , 2021 , 17, 1-382	10.2	440
37	Effects of phosphorus and calcium to phosphorus consumption ratio on mineral metabolism and cardiometabolic health. <i>Journal of Nutritional Biochemistry</i> , 2020 , 80, 108374	6.3	5
36	Applications of silica-based nanomaterials in dental and skeletal biology 2019 , 77-112		4
35	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> , 2018 , 1415, 21-33	6.5	6
34	Bioactive effects of silica nanoparticles on bone cells are size, surface, and composition dependent. <i>Acta Biomaterialia</i> , 2018 , 82, 184-196	10.8	25
33	Nano-Hydroxyapatite Stimulation of Gene Expression Requires Fgf Receptor, Phosphate Transporter, and Erk1/2 Signaling. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 39185-39196	9.5	26
32	Synthesis of pH stable, blue light-emitting diode-excited, fluorescent silica nanoparticles and effects on cell behavior. <i>International Journal of Nanomedicine</i> , 2017 , 12, 8699-8710	7.3	2
31	Phosphorus and Malignancies 2017 , 241-260		
30	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016 , 12, 1-222	10.2	3838
29	Bioactive silica nanoparticles reverse age-associated bone loss in mice. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015 , 11, 959-967	6	28
28	Nano-hydroxyapatite modulates osteoblast lineage commitment by stimulation of DNA methylation and regulation of gene expression. <i>Biomaterials</i> , 2015 , 65, 32-42	15.6	86
27	Impact of Phosphorus-Based Food Additives on Bone and Mineral Metabolism. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2015 , 100, 4264-71	5.6	37
26	Inorganic phosphate induces cancer cell mediated angiogenesis dependent on forkhead box protein C2 (FOXC2) regulated osteopontin expression. <i>Molecular Carcinogenesis</i> , 2015 , 54, 926-34	5	39
25	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> , 2014 , 28, 354-64	3.6	34
24	Bioactive silica nanoparticles promote osteoblast differentiation through stimulation of autophagy and direct association with LC3 and p62. <i>ACS Nano</i> , 2014 , 8, 5898-910	16.7	135
23	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> , 2013 , 161, 145-55	11	42

22	LONG-TERM MONITORING OF THE PHYSICOCHEMICAL PROPERTIES OF SILICA-BASED NANOPARTICLES ON THE RATE OF ENDOCYTOSIS AND EXOCYTOSIS AND CONSEQUENCES OF CELL DIVISION. <i>Soft Materials</i> , 2013 , 11, 195-203	1.7	14
21	An integrated understanding of the physiological response to elevated extracellular phosphate. <i>Journal of Cellular Physiology</i> , 2013 , 228, 1536-50	7	77
20	Knockdown of the sodium-dependent phosphate co-transporter 2b (NPT2b) suppresses lung tumorigenesis. <i>PLoS ONE</i> , 2013 , 8, e77121	3.7	29
19	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> , 2012 , 8, 793-803	6	160
18	Identification of the homeobox protein Prx1 (MHox, Prrx-1) as a regulator of osterix expression and mediator of tumor necrosis factor α action in osteoblast differentiation. <i>Journal of Bone and Mineral Research</i> , 2011 , 26, 209-19	6.3	42
17	Suppression of lung tumorigenesis by leucine zipper/EF hand-containing transmembrane-1. <i>PLoS ONE</i> , 2010 , 5, e12535	3.7	25
16	Elevated phosphate activates N-ras and promotes cell transformation and skin tumorigenesis. <i>Cancer Prevention Research</i> , 2010 , 3, 359-70	3.2	57
15	Toxicity and clearance of intratracheally administered multiwalled carbon nanotubes from murine lung. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2010 , 73, 1530-43	3.2	45
14	Aerosol delivery of small hairpin osteopontin blocks pulmonary metastasis of breast cancer in mice. <i>PLoS ONE</i> , 2010 , 5, e15623	3.7	22
13	High dietary inorganic phosphate increases lung tumorigenesis and alters Akt signaling. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2009 , 179, 59-68	10.2	82
12	New method to prepare very stable and biocompatible fluorescent silica nanoparticles. <i>Chemical Communications</i> , 2009 , 2881-3	5.8	77
11	Analysis of the extracellular matrix and secreted vesicle proteomes by mass spectrometry. <i>Methods in Molecular Biology</i> , 2008 , 428, 231-44	1.4	7
10	Analysis of the extracellular matrix vesicle proteome in mineralizing osteoblasts. <i>Journal of Cellular Physiology</i> , 2007 , 210, 325-35	7	137
9	Elevated inorganic phosphate stimulates Akt-ERK1/2-Mnk1 signaling in human lung cells. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2006 , 35, 528-39	5.7	44
8	A high inorganic phosphate diet perturbs brain growth, alters Akt-ERK signaling, and results in changes in cap-dependent translation. <i>Toxicological Sciences</i> , 2006 , 90, 221-9	4.4	27
7	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> , 2006 , 5, 1931-9	5.6	16
6	A combined proteome and microarray investigation of inorganic phosphate-induced pre-osteoblast cells. <i>Molecular and Cellular Proteomics</i> , 2005 , 4, 1284-96	7.6	101
5	Quantitative proteomic analysis of inorganic phosphate-induced murine MC3T3-E1 osteoblast cells. <i>Electrophoresis</i> , 2004 , 25, 1342-52	3.6	43

- 4 Osteopontin regulation by inorganic phosphate is ERK1/2-, protein kinase C-, and proteasome-dependent. *Journal of Biological Chemistry*, **2003**, 278, 41921-9 5-4 123
- 3 Inorganic phosphate as a signaling molecule in osteoblast differentiation. *Journal of Cellular Biochemistry*, **2003**, 90, 234-43 4-7 230
- 2 Inorganic phosphate regulates multiple genes during osteoblast differentiation, including Nrf2. *Experimental Cell Research*, **2003**, 288, 288-300 4-2 155
- 1 Relationship between alkaline phosphatase levels, osteopontin expression, and mineralization in differentiating MC3T3-E1 osteoblasts. *Journal of Cellular Biochemistry*, **1998**, 68, 269-80 4-7 175