

# George R Beck Jr

## List of Publications by Year in descending order

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39  
papers

8,770  
citations

186209  
28  
h-index

330025  
37  
g-index

40  
all docs

40  
docs citations

40  
times ranked

18032  
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	4.3	4,701
2	Guidelines for the use and interpretation of assays for monitoring autophagy (4th) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702 Td (edition	4.3	1,430
3	Inorganic phosphate as a signaling molecule in osteoblast differentiation. <i>Journal of Cellular Biochemistry</i> , 2003, 90, 234-243.	1.2	261
4	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.	1.7	204
5	Relationship between alkaline phosphatase levels, osteopontin expression, and mineralization in differentiating MC3T3-E1 osteoblasts. <i>Journal of Cellular Biochemistry</i> , 1998, 68, 269-280.	1.2	195
6	Inorganic phosphate regulates multiple genes during osteoblast differentiation, including Nrf2. <i>Experimental Cell Research</i> , 2003, 288, 288-300.	1.2	174
7	Bioactive Silica Nanoparticles Promote Osteoblast Differentiation through Stimulation of Autophagy and Direct Association with LC3 and p62. <i>ACS Nano</i> , 2014, 8, 5898-5910.	7.3	170
8	Analysis of the extracellular matrix vesicle proteome in mineralizing osteoblasts. <i>Journal of Cellular Physiology</i> , 2007, 210, 325-335.	2.0	164
9	Osteopontin Regulation by Inorganic Phosphate Is ERK1/2-, Protein Kinase C-, and Proteasome-dependent. <i>Journal of Biological Chemistry</i> , 2003, 278, 41921-41929.	1.6	153
10	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.	2.5	120
11	A Combined Proteome and Microarray Investigation of Inorganic Phosphate-induced Pre-osteoblast Cells. <i>Molecular and Cellular Proteomics</i> , 2005, 4, 1284-1296.	2.5	113
12	Nano-hydroxyapatite modulates osteoblast lineage commitment by stimulation of DNA methylation and regulation of gene expression. <i>Biomaterials</i> , 2015, 65, 32-42.	5.7	106
13	An integrated understanding of the physiological response to elevated extracellular phosphate. <i>Journal of Cellular Physiology</i> , 2013, 228, 1536-1550.	2.0	94
14	New method to prepare very stable and biocompatible fluorescent silica nanoparticles. <i>Chemical Communications</i> , 2009, , 2881.	2.2	81
15	Elevated Phosphate Activates N-ras and Promotes Cell Transformation and Skin Tumorigenesis. <i>Cancer Prevention Research</i> , 2010, 3, 359-370.	0.7	78
16	Impact of Phosphorus-Based Food Additives on Bone and Mineral Metabolism. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2015, 100, 4264-4271.	1.8	54
17	Inorganic phosphate induces cancer cell mediated angiogenesis dependent on forkhead box protein C2 (FOXO2) regulated osteopontin expression. <i>Molecular Carcinogenesis</i> , 2015, 54, 926-934.	1.3	53
18	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, 528-539.	1.4	52

#	ARTICLE	IF	CITATIONS
19	Identification of the homeobox protein Prx1 (MHox, Prx-1) as a regulator of osterix expression and mediator of tumor necrosis factor $\beta$ action in osteoblast differentiation. <i>Journal of Bone and Mineral Research</i> , 2011, 26, 209-219.	3.1	52
20	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, 145-155.	2.2	51
21	Bioactive effects of silica nanoparticles on bone cells are size, surface, and composition dependent. <i>Acta Biomaterialia</i> , 2018, 82, 184-196.	4.1	49
22	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, 1530-1543.	1.1	46
23	Quantitative proteomic analysis of inorganic phosphate-induced murine MC3T3-E1 osteoblast cells. <i>Electrophoresis</i> , 2004, 25, 1342-1352.	1.3	45
24	Bioactive silica nanoparticles reverse age-associated bone loss in mice. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015, 11, 959-967.	1.7	45
25	Bio-active engineered 50nm silica nanoparticles with bone anabolic activity: Therapeutic index, effective concentration, and cytotoxicity profile in vitro. <i>Toxicology in Vitro</i> , 2014, 28, 354-364.	1.1	38
26	Knockdown of the Sodium-Dependent Phosphate Co-Transporter 2b (NPT2b) Suppresses Lung Tumorigenesis. <i>PLoS ONE</i> , 2013, 8, e77121.	1.1	37
27	Nano-Hydroxyapatite Stimulation of Gene Expression Requires Fgf Receptor, Phosphate Transporter, and Erk1/2 Signaling. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 39185-39196.	4.0	37
28	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, 221-229.	1.4	30
29	Suppression of Lung Tumorigenesis by Leucine Zipper/EF Hand-Containing Transmembrane-1. <i>PLoS ONE</i> , 2010, 5, e12535.	1.1	28
30	Aerosol Delivery of Small Hairpin Osteopontin Blocks Pulmonary Metastasis of Breast Cancer in Mice. <i>PLoS ONE</i> , 2010, 5, e15623.	1.1	23
31	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, 1931-1939.	1.8	19
32	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.	0.8	17
33	Effects of phosphorus and calcium to phosphorus consumption ratio on mineral metabolism and cardiometabolic health. <i>Journal of Nutritional Biochemistry</i> , 2020, 80, 108374.	1.9	12
34	CTLA-4Ig (abatacept) balances bone anabolic effects of T cells and Wnt10b with antianabolic effects of osteoblastic sclerostin. <i>Annals of the New York Academy of Sciences</i> , 2018, 1415, 21-33.	1.8	10
35	Modulating phosphate consumption, a novel therapeutic approach for the control of cancer cell proliferation and tumorigenesis. <i>Biochemical Pharmacology</i> , 2021, 183, 114305.	2.0	9
36	Analysis of the Extracellular Matrix and Secreted Vesicle Proteomes by Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2008, 428, 231-244.	0.4	8

#	ARTICLE	IF	CITATIONS
37	Applications of silica-based nanomaterials in dental and skeletal biology. , 2019, , 77-112.		8
38	Synthesis of pH stable, blue light-emitting diode-excited, fluorescent silica nanoparticles and effects on cell behavior. International Journal of Nanomedicine, 2017, Volume 12, 8699-8710.	3.3	3
39	Phosphorus and Malignancies. , 2017, , 241-260.		0