

# Courtney M Karner

## List of Publications by Year in descending order

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Version: 2024-02-01

33  
papers

2,271  
citations

471061

17  
h-index

433756

31  
g-index

45  
all docs

45  
docs citations

45  
times ranked

3053  
citing authors

#	ARTICLE	IF	CITATIONS
1	Wnt9b signaling regulates planar cell polarity and kidney tubule morphogenesis. <i>Nature Genetics</i> , 2009, 41, 793-799.	9.4	313
2	WNT-LRP5 Signaling Induces Warburg Effect through mTORC2 Activation during Osteoblast Differentiation. <i>Cell Metabolism</i> , 2013, 17, 745-755.	7.2	294
3	Canonical Wnt9b signaling balances progenitor cell expansion and differentiation during kidney development. <i>Development (Cambridge)</i> , 2011, 138, 1247-1257.	1.2	254
4	Wnt signaling and cellular metabolism in osteoblasts. <i>Cellular and Molecular Life Sciences</i> , 2017, 74, 1649-1657.	2.4	212
5	Glutamine Metabolism Regulates Proliferation and Lineage Allocation in Skeletal Stem Cells. <i>Cell Metabolism</i> , 2019, 29, 966-978.e4.	7.2	170
6	Increased glutamine catabolism mediates bone anabolism in response to WNT signaling. <i>Journal of Clinical Investigation</i> , 2015, 125, 551-562.	3.9	126
7	Glucose metabolism in bone. <i>Bone</i> , 2018, 115, 2-7.	1.4	104
8	<i>Gpr126/Adgrg6</i> deletion in cartilage models idiopathic scoliosis and pectus excavatum in mice. <i>Human Molecular Genetics</i> , 2015, 24, 4365-4373.	1.4	82
9	Bmp Induces Osteoblast Differentiation through both Smad4 and mTORC1 Signaling. <i>Molecular and Cellular Biology</i> , 2017, 37, .	1.1	80
10	Hedgehog signaling activates a positive feedback mechanism involving insulin-like growth factors to induce osteoblast differentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 4678-4683.	3.3	78
11	Mitochondrial PE potentiates respiratory enzymes to amplify skeletal muscle aerobic capacity. <i>Science Advances</i> , 2019, 5, eaax8352.	4.7	66
12	Wnt4 is essential to normal mammalian lung development. <i>Developmental Biology</i> , 2015, 406, 222-234.	0.9	58
13	Lrp4 Regulates Initiation of Ureteric Budding and Is Crucial for Kidney Formation – A Mouse Model for Cenani-Lenz Syndrome. <i>PLoS ONE</i> , 2010, 5, e10418.	1.1	54
14	Dual function of Bmpr1a signaling in restricting preosteoblast proliferation and stimulating osteoblast activity in the mouse. <i>Development (Cambridge)</i> , 2015, 143, 339-47.	1.2	52
15	Wnt Protein Signaling Reduces Nuclear Acetyl-CoA Levels to Suppress Gene Expression during Osteoblast Differentiation. <i>Journal of Biological Chemistry</i> , 2016, 291, 13028-13039.	1.6	43
16	Tankyrase is necessary for canonical Wnt signaling during kidney development. <i>Developmental Dynamics</i> , 2010, 239, 2014-2023.	0.8	38
17	Biphasic regulation of glutamine consumption by WNT during osteoblast differentiation. <i>Journal of Cell Science</i> , 2021, 134, .	1.2	36
18	Hypertrophic chondrocytes serve as a reservoir for marrow-associated skeletal stem and progenitor cells, osteoblasts, and adipocytes during skeletal development. <i>ELife</i> , 2022, 11, .	2.8	28

#	ARTICLE	IF	CITATIONS
19	SLC1A5 provides glutamine and asparagine necessary for bone development in mice. <i>ELife</i> , 2021, 10, .	2.8	26
20	Myc cooperates with beta-catenin to drive gene expression in the nephron progenitor cells. <i>Development (Cambridge)</i> , 2017, 144, 4173-4182.	1.2	24
21	The Amino Acid Sensor <i>Eif2ak4/GCN2</i> Is Required for Proliferation of Osteoblast Progenitors in Mice. <i>Journal of Bone and Mineral Research</i> , 2020, 35, 2004-2014.	3.1	21
22	Bioenergetic Metabolism In Osteoblast Differentiation. <i>Current Osteoporosis Reports</i> , 2022, 20, 53-64.	1.5	21
23	SLC38A2 provides proline to fulfill unique synthetic demands arising during osteoblast differentiation and bone formation. <i>ELife</i> , 2022, 11, .	2.8	21
24	Molecular determinants of WNT9b responsiveness in nephron progenitor cells. <i>PLoS ONE</i> , 2019, 14, e0215139.	1.1	15
25	An adhesion G protein-coupled receptor is required in cartilaginous and dense connective tissues to maintain spine alignment. <i>ELife</i> , 2021, 10, .	2.8	15
26	Obesity alters the collagen organization and mechanical properties of murine cartilage. <i>Scientific Reports</i> , 2021, 11, 1626.	1.6	9
27	Morphological and genomic shifts in mole-rat <i>Reithrodontomys</i> increase fecundity but reduce skeletal integrity. <i>ELife</i> , 2021, 10, .	2.8	8
28	Hypoxia depletes contaminating CD45+ hematopoietic cells from murine bone marrow stromal cell (BMSC) cultures: Methods for BMSC culture purification. <i>Stem Cell Research</i> , 2021, 53, 102317.	0.3	5
29	HES1 is a novel downstream modifier of the SHH-GLI3 Axis in the development of preaxial polydactyly. <i>PLoS Genetics</i> , 2021, 17, e1009982.	1.5	5
30	Distinct Roles of Glutamine Metabolism in Benign and Malignant Cartilage Tumors With IDH Mutations. <i>Journal of Bone and Mineral Research</i> , 2020, 37, 983-996.	3.1	4
31	Radiolabeled Amino Acid Uptake Assays in Primary Bone Cells and Bone Explants. <i>Methods in Molecular Biology</i> , 2021, 2230, 449-456.	0.4	3
32	Whole Mount In Situ Hybridization in Murine Tissues. <i>Methods in Molecular Biology</i> , 2021, 2230, 367-376.	0.4	0
33	Evaluation of Amino Acid Consumption in Cultured Bone Cells and Isolated Bone Shafts. <i>Journal of Visualized Experiments</i> , 2022, , .	0.2	0