Shoshana Yakar

List of Publications by Year
in descending order

84 papers	6,772 citations	81900 39 h-index	64796 79 g-index
84 all docs	84 docs citations	84 times ranked	7794 citing authors

#	Article	IF	Citations
1	The Somatomedin Hypothesis: 2001. Endocrine Reviews, 2001, 22, 53-74.	20.1	1,045
2	Circulating levels of IGF-1 directly regulate bone growth and density. Journal of Clinical Investigation, 2002, 110, 771-781.	8.2	640
3	Matrix IGF-1 maintains bone mass by activation of mTOR in mesenchymal stem cells. Nature Medicine, 2012, 18, 1095-1101.	30.7	498
4	Circulating levels of IGF-1 directly regulate bone growth and density. Journal of Clinical Investigation, 2002, 110, 771-781.	8.2	469
5	Mechanisms of Disease: metabolic effects of growth hormone and insulin-like growth factor 1. Nature Clinical Practice Endocrinology and Metabolism, 2007, 3, 302-310.	2.8	265
6	Biological effects of growth hormone on carbohydrate and lipid metabolism. Growth Hormone and IGF Research, 2010, 20, 1-7.	1.1	233
7	Inhibition of growth hormone action improves insulin sensitivity in liver IGF-1â€“deficient mice. Journal of Clinical Investigation, 2004, 113, 96-105.	8.2	200
8	Mutations in pregnancyâ€associated plasma protein A2 cause short stature due to low <scp>IGF</scp> â€ availability. EMBO Molecular Medicine, 2016, 8, 363-374.	6.9	147
9	40 YEARS OF IGF1: Insulin-like growth factors: actions on the skeleton. Journal of Molecular Endocrinology, 2018, 61, T115-T137.	2.5	142
10	The Intricate Role of Growth Hormone in Metabolism. Frontiers in Endocrinology, 2011, 2, 32.	3.5	135
11	Osteocyte Apoptosis Caused by Hindlimb Unloading is Required to Trigger Osteocyte RANKL Production and Subsequent Resorption of Cortical and Trabecular Bone in Mice Femurs. Journal of Bone and Mineral Research, 2016, 31, 1356-1365.	2.8	135
12	Inhibition of growth hormone action improves insulin sensitivity in liver IGF-1â€“deficient mice. Journal of Clinical Investigation, 2004, 113, 96-105.	8.2	131
13	IGF-1 and bone: New discoveries from mouse models. Journal of Bone and Mineral Research, 2010, 25, 2543-2552.	2.8	117
14	Growth hormone regulates the balance between bone formation and bone marrow adiposity. Journal of Bone and Mineral Research, 2010, 25, 757-768.	2.8	107
15	Regulation of skeletal growth and mineral acquisition by the GH/IGF-1 axis: Lessons from mouse models. Growth Hormone and IGF Research, 2016, 28, 26-42.	1.1	106
16	Hepatic lipid metabolism and non-alcoholic fatty liver disease in aging. Molecular and Cellular Endocrinology, 2017, 455, 115-130.	3.2	101
17	Insulin-Like Growth Factor-I Regulates the Liver Microenvironment in Obese Mice and Promotes Liver Metastasis. Cancer Research, 2010, 70, 57-67.	0.9	96
18	Insulin-Like Growth Factor 1 Physiology. Endocrinology and Metabolism Clinics of North America, 2012, 41, 231-247.	3.2	95

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19	Serum IGF-1 Determines Skeletal Strength by Regulating Subperiosteal Expansion and Trait Interactions. Journal of Bone and Mineral Research, 2009, 24, 1481-1492.	2.8	93
20	Serum complexes of insulinâ€like growth factorâ€1 modulate skeletal integrity and carbohydrate metabolism. FASEB Journal, 2009, 23, 709-719.	0.5	90
21	Growth Hormone Control of Hepatic Lipid Metabolism. Diabetes, 2016, 65, 3598-3609.	0.6	90
22	Growth hormone receptor regulates Î² cell hyperplasia and glucose-stimulated insulin secretion in obese mice. Journal of Clinical Investigation, 2011, 121, 2422-2426.	8.2	83
23	Intact Insulin and Insulin-Like Growth Factor-I Receptor Signaling Is Required for Growth Hormone Effects on Skeletal Muscle Growth and Functionin Vivo. Endocrinology, 2005, 146, 1772-1779.	2.8	82
24	The ternary IGF complex influences postnatal bone acquisition and the skeletal response to intermittent parathyroid hormone. Journal of Endocrinology, 2006, 189, 289-299.	2.6	78
25	Elevated Levels of Insulin-Like Growth Factor (IGF)-I in Serum Rescue the Severe Growth Retardation of IGF-I Null Mice. Endocrinology, 2009, 150, 4395-4403.	2.8	76
26	Lactation-Induced Changes in the Volume of Osteocyte Lacunar-Canalicular Space Alter Mechanical Properties in Cortical Bone Tissue. Journal of Bone and Mineral Research, 2017, 32, 688-697.	2.8	75
27	Mice Deficient in Liver Production of Insulin-Like Growth Factor I Display Sexual Dimorphism in Growth Hormone-Stimulated Postnatal Growth. Endocrinology, 2000, 141, 4436-4441.	2.8	72
28	High-Efficient FLPo Deleter Mice in C57BL/6J Background. PLoS ONE, 2009, 4, e8054.	2.5	67
29	Elevated serum levels of IGF-1 are sufficient to establish normal body size and skeletal properties even in the absence of tissue IGF-1. Journal of Bone and Mineral Research, 2010, 25, 1257-1266.	2.8	64
30	Targeted Loss of GHR Signaling in Mouse Skeletal Muscle Protects Against High-Fat Dietâ€“Induced Metabolic Deterioration. Diabetes, 2012, 61, 94-103.	0.6	64
31	The Role of Circulating IGF-I: Lessons from Human and Animal Models. Endocrine, 2002, 19, 239-248.	2.2	63
32	Reduced Susceptibility to Two-Stage Skin Carcinogenesis in Mice with Low Circulating Insulin-Like Growth Factor I Levels. Cancer Research, 2008, 68, 3680-3688.	0.9	60
33	Effects of GH/IGF axis on bone and cartilage. Molecular and Cellular Endocrinology, 2021, 519, 111052.	3.2	57
34	Reductions in serum <scp>IGF</scp>â€1 during aging impair health span. Aging Cell, 2014, 13, 408-418.	6.7	56
35	Skeletal growth and bone mineral acquisition in type 1 diabetic children; abnormalities of the GH/IGF-1 axis. Growth Hormone and IGF Research, 2017, 34, 13-21.	1.1	47
36	Identification of thioredoxin-interacting protein (TXNIP) as a downstream target for IGF1 action. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1045-1050.	7.1	45

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37	Serum IGF-1 Affects Skeletal Acquisition in a Temporal and Compartment-Specific Manner. PLoS ONE, 2011, 6, e14762.	2.5	42
38	The growth hormone-insulin like growth factor axis revisited: lessons from IGF-1 and IGF-1 receptor gene targeting. Pediatric Nephrology, 2005, 20, 251-254.	1.7	40
39	Treatment With Recombinant Human Insulin-Like Growth Factor-1 Improves Growth in Patients With PAPP-A2 Deficiency. Journal of Clinical Endocrinology and Metabolism, 2016, 101, 3879-3883.	3.6	40
40	Elevated serum IGF-1 levels synergize PTH action on the skeleton only when the tissue IGF-1 axis is intact. Journal of Bone and Mineral Research, 2010, 25, 2051-2058.	2.8	38
41	Does the GH/IGF-1 axis contribute to skeletal sexual dimorphism? Evidence from mouse studies. Growth Hormone and IGF Research, 2016, 27, 7-17.	1.1	32
42	Sex-specific regulation of body size and bone slenderness by the acid labile subunit. Journal of Bone and Mineral Research, 2010, 25, 2059-2068.	2.8	31
43	Effects of GH/IGF on the Aging Mitochondria. Cells, 2020, 9, 1384.	4.1	30
44	Central effects of humanin on hepatic triglyceride secretion. American Journal of Physiology - Endocrinology and Metabolism, 2015, 309, E283-E292.	3.5	29
45	Serum IGF-1 Is Insufficient to Restore Skeletal Size in the Total Absence of the Growth Hormone Receptor. Journal of Bone and Mineral Research, 2013, 28, 1575-1586.	2.8	28
46	Genome-Wide Profiling of Laron Syndrome Patients Identifies Novel Cancer Protection Pathways. Cells, 2019, 8, 596.	4.1	28
47	Growth hormone receptor gene disruption in matureâ€adult mice improves male insulin sensitivity and extends female lifespan. Aging Cell, 2021, 20, e13506.	6.7	28
48	Increased serum IGF-1 levels protect the musculoskeletal system but are associated with elevated oxidative stress markers and increased mortality independent of tissue igf1 gene expression. Aging Cell, 2011, 10, 547-550.	6.7	27
49	Mitochondrial Function Is Compromised in Cortical Bone Osteocytes of Long-Lived Growth Hormone Receptor Null Mice. Journal of Bone and Mineral Research, 2019, 34, 106-122.	2.8	27
50	Growth hormone protects against ovariectomy-induced bone loss in states of low circulating insulin-like growth factor (IGF-1). Journal of Bone and Mineral Research, 2010, 25, 235-246.	2.8	26
51	Growth hormone mediates pubertal skeletal development independent of hepatic IGF-1 production. Journal of Bone and Mineral Research, 2011, 26, 761-768.	2.8	26
52	Deletion of Growth Hormone Receptors in Postnatal Skeletal Muscle of Male Mice Does Not Alter Muscle Mass and Response to Pathological Injury. Endocrinology, 2013, 154, 3776-3783.	2.8	26
53	Unbound (bioavailable) IGF1 enhances somatic growth. DMM Disease Models and Mechanisms, 2011, 4, 649-658.	2.4	25
54	DMPâ€1 â€mediated <i>Ghr</i> gene recombination compromises skeletal development and impairs skeletal response to intermittent PTH. FASEB Journal, 2016, 30, 635-652.	0.5	24

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55	Skeletal Muscle Growth Hormone Receptor Signaling Regulates Basal, but Not Fasting-Induced, Lipid Oxidation. PLoS ONE, 2012, 7, e44777.	2.5	22
56	Low levels of plasma IGF-1 inhibit intracortical bone remodeling during aging. Age, 2013, 35, 1691-1703.	3.0	22
57	The Insulin-like Growth Factor-1 Binding Protein Acid-labile Subunit Alters Mesenchymal Stromal Cell Fate. Journal of Biological Chemistry, 2010, 285, 4709-4714.	3.4	20
58	Prostatic Acid Phosphatase Alters the RANKL/OPG System and Induces Osteoblastic Prostate Cancer Bone Metastases. Endocrinology, 2016, 157, 4526-4533.	2.8	19
59	GH directly inhibits steatosis and liver injury in a sex-dependent and IGF1-independent manner. Journal of Endocrinology, 2021, 248, 31-44.	2.6	19
60	Reduced Serum IGF-1 Associated With Hepatic Osteodystrophy Is a Main Determinant of Low Cortical but Not Trabecular Bone Mass. Journal of Bone and Mineral Research, 2018, 33, 123-136.	2.8	18
61	Mice Deficient in Liver Production of Insulin-Like Growth Factor I Display Sexual Dimorphism in Growth Hormone-Stimulated Postnatal Growth. Endocrinology, 2000, 141, 4436-4441.	2.8	18
62	Low IGF-I Bioavailability Impairs Growth and Glucose Metabolism in a Mouse Model of Human PAPPA2 p.Ala1033Val Mutation. Endocrinology, 2019, 160, 1363-1376.	2.8	15
63	Pregnancy-Associated Plasma Protein (PAPP)-A2 in Physiology and Disease. Cells, 2021, 10, 3576.	4.1	15
64	Insulin-Like Growth Factor-I: Compartmentalization Within the Somatotropic Axis?. Physiology, 2002, 17, 82-85.	3.1	14
65	Protein Calorie Restriction Affects Nonhepatic IGF-I Production and the Lymphoid System: Studies Using the Liver-Specific IGF-I Gene-Deleted Mouse Model. Endocrinology, 2002, 143, 2233-2241.	2.8	14
66	Loss of neutrophil polarization in colon carcinoma liver metastases of mice with an inducible, liver-specific IGF-I deficiency. Oncotarget, 2018, 9, 15691-15704.	1.8	14
67	The Olfactory Receptor Gene Product, OR5H2, Modulates Endometrial Cancer Cells Proliferation via Interaction with the IGF1 Signaling Pathway. Cells, 2021, 10, 1483.	4.1	12
68	Membrane-type 1 Matrix Metalloproteinase Modulates Tissue Homeostasis by a Non-proteolytic Mechanism. IScience, 2020, 23, 101789.	4.1	11
69	Ablation of Hepatic Production of the Acid-Labile Subunit in Bovine-GH Transgenic Mice: Effects on Organ and Skeletal Growth. Endocrinology, 2017, 158, 2556-2571.	2.8	10
70	Identification of ZYG11A as a candidate IGF1-dependent proto-oncogene in endometrial cancer. Oncotarget, 2019, 10, 4437-4448.	1.8	9
71	The Effects of 20-kDa Human Placental GH in Male and Female GH-deficient Mice: An Improved Human GH?. Endocrinology, 2020, 161, .	2.8	9
72	Skeletal Response to Insulin in the Naturally Occurring Type 1 Diabetes Mellitus Mouse Model. JBMR Plus, 2021, 5, e10483.	2.7	8

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73	Sexual dimorphic impact of adultâ€onset somatopause on life span and ageâ€induced osteoarthritis. Aging Cell, 2021, 20, e13427.	6.7	8
74	Induction of somatopause in adult mice compromises bone morphology and exacerbates bone loss during aging. Aging Cell, 2021, 20, e13505.	6.7	6
75	Skeletal Response of Male Mice to Anabolic Hormone Therapy in the Absence of theIgfalsGene. Endocrinology, 2014, 155, 987-999.	2.8	5
76	International meeting on GH/IGF actions in the shadow of COVID19. Pituitary, 2020, 23, 1-1.	2.9	4
77	ZYG11A Is Expressed in Epithelial Ovarian Cancer and Correlates With Low Grade Disease. Frontiers in Endocrinology, 2021, 12, 688104.	3.5	4
78	A systematic review and meta-analysis on the efficacy of stem cell therapy on bone brittleness in mouse models of osteogenesis imperfecta. Bone Reports, 2021, 15, 101108.	0.4	2
79	Fsp27 plays a crucial role in muscle performance. American Journal of Physiology - Endocrinology and Metabolism, 2022, 322, E331-E343.	3.5	2
80	Growth hormone, insulin-like growth factors, and IGF binding proteins. , 2020, , 985-1015.		1
81	Bone Marrow Adipogenesis Is Affected by Insulin-Like Growth Factor-1 Complexes. , 2009, , .		0
82	Hepatic GH Receptor Signaling Directly Suppresses Hepatic Steatosis and De Novo Lipogenesis, Independent of Changes in Plasma IGF1 and Insulin. Journal of the Endocrine Society, 2021, 5, A48-A48.	0.2	0
83	SAT-176 Cellular Mechanisms of Impaired Bone Remodeling in Type 1 Diabetes Mellitus. Journal of the Endocrine Society, 2019, 3, .	0.2	0
84	SUN-LB52 The Protective Effects of Hepatocyte GH Receptor (GHR) Signaling Against Steatosis and Liver Injury Is Sexually Dimorphic and Autonomous of IGF1. Journal of the Endocrine Society, 2020, 4, .	0.2	0