Mathieu Ferron

List of Publications by Year
in descending order

49 papers	9,744 citations	172457 29 h-index	197818 49 g-index
56 all docs	56 docs citations	56 times ranked	12627 citing authors

#	Article	IF	Citations
1	Endocrine Regulation of Energy Metabolism by the Skeleton. Cell, 2007, 130, 456-469.	28.9	2,151
2	A lysosome-to-nucleus signalling mechanism senses and regulates the lysosome via mTOR and TFEB. EMBO Journal, 2012, 31, 1095-1108.	7.8	1,507
3	Insulin Signaling in Osteoblasts Integrates Bone Remodeling and Energy Metabolism. Cell, 2010, 142, 296-308.	28.9	957
4	Osteocalcin differentially regulates Î² cell and adipocyte gene expression and affects the development of metabolic diseases in wild-type mice. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 5266-5270.	7.1	819
5	Endocrine Regulation of Male Fertility by the Skeleton. Cell, 2011, 144, 796-809.	28.9	542
6	The contribution of bone to whole-organism physiology. Nature, 2012, 481, 314-320.	27.8	430
7	Intermittent injections of osteocalcin improve glucose metabolism and prevent type 2 diabetes in mice. Bone, 2012, 50, 568-575.	2.9	359
8	Osteocalcin Signaling in Myofibers Is Necessary and Sufficient for Optimum Adaptation to Exercise. Cell Metabolism, 2016, 23, 1078-1092.	16.2	302
9	Grey-lethal mutation induces severe malignant autosomal recessive osteopetrosis in mouse and human. Nature Medicine, 2003, 9, 399-406.	30.7	245
10	Osteocalcin regulates murine and human fertility through a pancreas-bone-testis axis. Journal of Clinical Investigation, 2013, 123, 2421-2433.	8.2	233
11	Bone-specific insulin resistance disrupts whole-body glucose homeostasis via decreased osteocalcin activation. Journal of Clinical Investigation, 2014, 124, 1781-1793.	8.2	213
12	Adiponectin Regulates Bone Mass via Opposite Central and Peripheral Mechanisms through FoxO1. Cell Metabolism, 2013, 17, 901-915.	16.2	198
13	The transcription factor ATF4 regulates glucose metabolism in mice through its expression in osteoblasts. Journal of Clinical Investigation, 2009, 119, 2807-2817.	8.2	193
14	Regulation of energy metabolism by the skeleton: Osteocalcin and beyond. Archives of Biochemistry and Biophysics, 2014, 561, 137-146.	3.0	160
15	A RANKLâ€“PKCÎ²â€“TFEB signaling cascade is necessary for lysosomal biogenesis in osteoclasts. Genes and Development, 2013, 27, 955-969.	5.9	149
16	Genetic determination of the cellular basis of the sympathetic regulation of bone mass accrual. Journal of Experimental Medicine, 2011, 208, 841-851.	8.5	148
17	Genetic evidence points to an osteocalcin-independent influence of osteoblasts on energy metabolism. Journal of Bone and Mineral Research, 2011, 26, 2012-2025.	2.8	125
18	An ELISA-based method to quantify osteocalcin carboxylation in mice. Biochemical and Biophysical Research Communications, 2010, 397, 691-696.	2.1	100

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19	Phenotypic Characterization of MIP-CreERT1Lphi Mice With Transgene-Driven Islet Expression of Human Growth Hormone. Diabetes, 2015, 64, 3798-3807.	0.6	77
20	In vivo analysis of the contribution of bone resorption to the control of glucose metabolism in mice. Molecular Metabolism, 2013, 2, 498-504.	6.5	73
21	Regulation of lysosome biogenesis and functions in osteoclasts. Cell Cycle, 2013, 12, 2744-2752.	2.6	72
22	FoxO1 Protein Cooperates with ATF4 Protein in Osteoblasts to Control Glucose Homeostasis. Journal of Biological Chemistry, 2012, 287, 8757-8768.	3.4	64
23	GGCX and VKORC1 inhibit osteocalcin endocrine functions. Journal of Cell Biology, 2015, 208, 761-776.	5.2	58
24	Regulation of Energy Metabolism by Bone-Derived Hormones. Cold Spring Harbor Perspectives in Medicine, 2018, 8, a031666.	6.2	57
25	Proprotein convertase furin regulates osteocalcin and bone endocrine function. Journal of Clinical Investigation, 2017, 127, 4104-4117.	8.2	55
26	Characterization of the murine Inpp4b gene and identification of a novel isoform. Gene, 2006, 376, 152-161.	2.2	52
27	Inositol Polyphosphate 4-Phosphatase B as a Regulator of Bone Mass in Mice and Humans. Cell Metabolism, 2011, 14, 466-477.	16.2	52
28	Tsc2 Is a Molecular Checkpoint Controlling Osteoblast Development and Glucose Homeostasis. Molecular and Cellular Biology, 2014, 34, 1850-1862.	2.3	52
29	AXL confers cell migration and invasion by hijacking a PEAK1-regulated focal adhesion protein network. Nature Communications, 2020, 11, 3586.	12.8	37
30	VKOR paralog VKORC1L1 supports vitamin Kâ€“dependent protein carboxylation in vivo. JCI Insight, 2018, 3, .	5.0	29
31	Matrix Gla protein deficiency impairs nasal septum growth, causing midface hypoplasia. Journal of Biological Chemistry, 2017, 292, 11400-11412.	3.4	25
32	Loss of OcaB Prevents Age-Induced Fat Accretion and Insulin Resistance by Altering B-Lymphocyte Transition and Promoting Energy Expenditure. Diabetes, 2018, 67, 1285-1296.	0.6	25
33	Measurement of bioactive osteocalcin in humans using a novel immunoassay reveals association with glucose metabolism and Î²-cell function. American Journal of Physiology - Endocrinology and Metabolism, 2020, 318, E381-E391.	3.5	25
34	Association between osteocalcin gamma-carboxylation and insulin resistance in overweight and obese postmenopausal women. Journal of Diabetes and Its Complications, 2017, 31, 1027-1034.	2.3	24
35	Metabolic phenotype in the mouse model of osteogenesis imperfecta. Journal of Endocrinology, 2017, 234, 279-289.	2.6	23
36	Deficiency of the bone mineralization inhibitor NPP1 protects against obesity and diabetes. DMM Disease Models and Mechanisms, 2014, 7, 1341-50.	2.4	21

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37	VKORC1L1, An Enzyme Mediating the Effect of Vitamin K in Liver and Extrahepatic Tissues. Nutrients, 2018, 10, 970.	4.1	21
38	PHOSPHO1 is a skeletal regulator of insulin resistance and obesity. BMC Biology, 2020, 18, 149.	3.8	13
39	Gain-of-Function Lrp5 Mutation Improves Bone Mass and Strength and Delays Hyperglycemia in a Mouse Model of Insulin-Deficient Diabetes. Journal of Bone and Mineral Research, 2020, 36, 1403-1415.	2.8	13
40	Gamma-carboxylation regulates osteocalcin function. Oncotarget, 2015, 6, 19924-19925.	1.8	13
41	The Gutsy Side of Bone. Cell Metabolism, 2009, 10, 7-8.	16.2	9
42	The half-life of the bone-derived hormone osteocalcin is regulated through O-glycosylation in mice, but not in humans. ELife, 2020, 9, .	6.0	7
43	Association between changes in bioactive osteocalcin and glucose homeostasis after biliopancreatic diversion. Endocrine, 2020, 69, 526-535.	2.3	4
44	Male but not female mice with severe osteogenesis imperfecta are partially protected from high-fat diet-induced obesity. Molecular Genetics and Metabolism, 2021, 133, 211-221.	1.1	3
45	ERK3â€MK5 signaling regulates myogenic differentiation and muscle regeneration by promoting FoxO3 degradation. Journal of Cellular Physiology, 2022, 237, 2271-2287.	4.1	3
46	Targeting Bone Cells During Sexual Maturation Reveals Sexually Dimorphic Regulation of Endochondral Ossification. JBMR Plus, 2020, 4, e10413.	2.7	2
47	Adiponectin Regulates Bone Mass via Opposite Central and Peripheral Mechanisms through FoxO1. Cell Metabolism, 2014, 19, 891.	16.2	1
48	Osteocalcin regulates murine and human fertility through a pancreas-bone-testis axis. Journal of Clinical Investigation, 2014, 124, 5522-5522.	8.2	0
49	Cover Image, Volume 237, Number 4, April 2022. Journal of Cellular Physiology, 2022, 237, .	4.1	0