Aline Bozec

List of Publications by Year
in descending order

98 papers	4,719 citations	117625 34 h-index	106344 65 g-index
108 all docs	108 docs citations	108 times ranked	8773 citing authors

#	Article	IF	Citations
1	Induction of osteoclastogenesis and bone loss by human autoantibodies against citrullinated vimentin. Journal of Clinical Investigation, 2012, 122, 1791-1802.	8.2	606
2	Anti-inflammatory and immune-regulatory cytokines in rheumatoid arthritis. Nature Reviews Rheumatology, 2019, 15, 9-17.	8.0	421
3	Resolution of inflammation by interleukin-9-producing type 2 innate lymphoid cells. Nature Medicine, 2017, 23, 938-944.	30.7	223
4	Blockade of receptor activator of nuclear factor-Î¹B (RANKL) signaling improves hepatic insulin resistance and prevents development of diabetes mellitus. Nature Medicine, 2013, 19, 358-363.	30.7	211
5	Hypoxia-inducible factor-1Î± is a critical transcription factor for IL-10-producing B cells in autoimmune disease. Nature Communications, 2018, 9, 251.	12.8	188
6	Osteoclast size is controlled by Fra-2 through LIF/LIF-receptor signalling and hypoxia. Nature, 2008, 454, 221-225.	27.8	177
7	Phosphate-Dependent Regulation of MGP in Osteoblasts: Role of ERK1/2 and Fra-1. Journal of Bone and Mineral Research, 2009, 24, 1856-1868.	2.8	152
8	T Cell Costimulation Molecules CD80/86 Inhibit Osteoclast Differentiation by Inducing the IDO/Tryptophan Pathway. Science Translational Medicine, 2014, 6, 235ra60.	12.4	150
9	Microbiota from Obese Mice Regulate Hematopoietic Stem Cell Differentiation by Altering the Bone Niche. Cell Metabolism, 2015, 22, 886-894.	16.2	148
10	Directed differentiation of hematopoietic precursors and functional osteoclasts from human ES and iPS cells. Blood, 2010, 115, 2769-2776.	1.4	135
11	An integrative approach unveils FOSL1 as an oncogene vulnerability in KRAS-driven lung and pancreatic cancer. Nature Communications, 2017, 8, 14294.	12.8	119
12	Fra-2/AP-1 controls bone formation by regulating osteoblast differentiation and collagen production. Journal of Cell Biology, 2010, 190, 1093-1106.	5.2	115
13	Th2 and eosinophil responses suppress inflammatory arthritis. Nature Communications, 2016, 7, 11596.	12.8	98
14	Osteocyte necrosis triggers osteoclast-mediated bone loss through macrophage-inducible C-type lectin. Journal of Clinical Investigation, 2020, 130, 4811-4830.	8.2	93
15	Novel approaches to target the microenvironment of bone metastasis. Nature Reviews Clinical Oncology, 2021, 18, 488-505.	27.6	91
16	Aggregated neutrophil extracellular traps resolve inflammation by proteolysis of cytokines and chemokines and protection from antiproteases. FASEB Journal, 2019, 33, 1401-1414.	0.5	90
17	Sclerostin inhibition reverses systemic, periarticular and local bone loss in arthritis. Annals of the Rheumatic Diseases, 2013, 72, 1732-1736.	0.9	81
18	Androgens and Postmeiotic Germ Cells Regulate Claudin-11 Expression in Rat Sertoli Cells. Endocrinology, 2005, 146, 1532-1540.	2.8	80

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19	The Nuclear Receptor Nr4a1 Mediates Anti-Inflammatory Effects of Apoptotic Cells. Journal of Immunology, 2014, 192, 4852-4858.	0.8	70
20	The AP-1 Transcription Factor c-Jun Promotes Arthritis by Regulating Cyclooxygenase-2 and Arginase-1 Expression in Macrophages. Journal of Immunology, 2017, 198, 3605-3614.	0.8	67
21	FOSL2 promotes leptin gene expression in human and mouse adipocytes. Journal of Clinical Investigation, 2012, 122, 1010-1021.	8.2	67
22	Group 2 Innate Lymphoid Cells Attenuate Inflammatory Arthritis and Protect from Bone Destruction in Mice. Cell Reports, 2018, 24, 169-180.	6.4	64
23	Regulation of osteosarcoma cell lung metastasis by the c-Fos/AP-1 target FGFR1. Oncogene, 2016, 35, 2852-2861.	5.9	63
24	How Autoantibodies Regulate Osteoclast Induced Bone Loss in Rheumatoid Arthritis. Frontiers in Immunology, 2019, 10, 1483.	4.8	59
25	T Regulatory Cells in Bone Remodelling. Current Osteoporosis Reports, 2017, 15, 121-125.	3.6	57
26	A defined metabolic state in pre B cells governs B-cell development and is counterbalanced by Swiprosin-2/EFhd1. Cell Death and Differentiation, 2017, 24, 1239-1252.	11.2	52
27	SIRNA-Directed In Vivo Silencing of Androgen Receptor Inhibits the Growth of Castration-Resistant Prostate Carcinomas. PLoS ONE, 2007, 2, e1006.	2.5	52
28	The histone demethylase Jumonji domain-containing protein 3 (JMJD3) regulates fibroblast activation in systemic sclerosis. Annals of the Rheumatic Diseases, 2018, 77, 150-158.	0.9	51
29	Transcription factor Fra-1 targets arginase-1 to enhance macrophage-mediated inflammation in arthritis. Journal of Clinical Investigation, 2019, 129, 2669-2684.	8.2	51
30	Fra-2/AP-1 controls adipocyte differentiation and survival by regulating PPARÎ³ and hypoxia. Cell Death and Differentiation, 2014, 21, 655-664.	11.2	46
31	The AP-1 transcription factor Fra1 inhibits follicular B cell differentiation into plasma cells. Journal of Experimental Medicine, 2014, 211, 2199-2212.	8.5	45
32	Regulatory eosinophils induce the resolution of experimental arthritis and appear in remission state of human rheumatoid arthritis. Annals of the Rheumatic Diseases, 2021, 80, 451-468.	0.9	43
33	High fat diet increases melanoma cell growth in the bone marrow by inducing osteopontin and interleukin 6. Oncotarget, 2016, 7, 26653-26669.	1.8	40
34	Galectin-3 as a novel regulator of osteoblast-osteoclast interaction and bone homeostasis. Bone, 2017, 105, 35-41.	2.9	38
35	The mitochondrial-dependent pathway is chronically affected in testicular germ cell death in adult rats exposed in utero to anti-androgens. Journal of Endocrinology, 2004, 183, 79-90.	2.6	37
36	Osteoblast-specific expression of Fra-2/AP-1 controls Adiponectin/Osteocalcin expression and affects metabolism. Journal of Cell Science, 2013, 126, 5432-40.	2.0	37

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37	Age-associated B cells contribute to the pathogenesis of rheumatoid arthritis by inducing activation of fibroblast-like synoviocytes via TNF-Î±-mediated ERK1/2 and JAK-STAT1 pathways. Annals of the Rheumatic Diseases, 2022, 81, 1504-1514.	0.9	36
38	Abatacept blocks anti-citrullinated protein antibody and rheumatoid factorÂmediated cytokine production in human macrophages in IDO-dependent manner. Arthritis Research and Therapy, 2018, 20, 24.	3.5	30
39	Latest perspectives on macrophages in bone homeostasis. Pflugers Archiv European Journal of Physiology, 2017, 469, 517-525.	2.8	28
40	Fra-2 regulates B cell development by enhancing IRF4 and Foxo1 transcription. Journal of Experimental Medicine, 2017, 214, 2059-2071.	8.5	27
41	Interstitial lung disease induced by gefitinib and Toll-like receptor ligands is mediated by Fra-1. Oncogene, 2011, 30, 3821-3832.	5.9	26
42	Soluble CD83 Triggers Resolution of Arthritis and Sustained Inflammation Control in IDO Dependent Manner. Frontiers in Immunology, 2019, 10, 633.	4.8	25
43	Alterations of Sertoli cell activity in the long-term testicular germ cell death process induced by fetal androgen disruption. Journal of Endocrinology, 2007, 196, 21-31.	2.6	24
44	Intratumor Heterogeneity Correlates With Reduced Immune Activity and Worse Survival in Melanoma Patients. Frontiers in Oncology, 2020, 10, 596493.	2.8	24
45	Prediction of early metastatic disease in experimental breast cancer bone metastasis by combining PET/CT and MRI parameters to a Model-Averaged Neural Network. Bone, 2019, 120, 254-261.	2.9	23
46	In Vivo Models of Rheumatoid Arthritis. Methods in Molecular Biology, 2019, 1914, 269-280.	0.9	21
47	Neutral sphingomyelinase mediates the co-morbidity trias of alcohol abuse, major depression and bone defects. Molecular Psychiatry, 2021, 26, 7403-7416.	7.9	20
48	Mitochondrial respiration in B lymphocytes is essential for humoral immunity by controlling the flux of the TCA cycle. Cell Reports, 2022, 39, 110912.	6.4	20
49	Status of the executioner step of apoptosis in human with normal spermatogenesis and azoospermia. Fertility and Sterility, 2008, 90, 1723-1731.	1.0	17
50	Defining Metaniches in the Oral Cavity According to Their Microbial Composition and Cytokine Profile. International Journal of Molecular Sciences, 2020, 21, 8218.	4.1	17
51	Osteoprotective action of low-salt diet requires myeloid cellâ€“derived NFAT5. JCI Insight, 2019, 4, .	5.0	16
52	Changes in mechanical loading affect arthritis-induced bone loss in mice. Bone, 2020, 131, 115149.	2.9	14
53	Hypoxia-Inducible Factors Regulate Osteoclasts in Health and Disease. Frontiers in Cell and Developmental Biology, 2021, 9, 658893.	3.7	14
54	The Transcription Factor FRA-1/AP-1 Controls Lipocalin-2 Expression and Inflammation in Sepsis Model. Frontiers in Immunology, 2021, 12, 701675.	4.8	14

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55	Hypoxia Promotes Neutrophil Survival After Acute Myocardial Infarction. Frontiers in Immunology, 2022, 13, 726153.	4.8	14
56	Inhibition of Osteoarthritis by Adiposeâ€Derived Stromal Cells Overexpressing Fraâ€1 in Mice. Arthritis and Rheumatology, 2016, 68, 138-151.	5.6	13
57	Fra-2/AP-1 regulates melanoma cell metastasis by downregulating Fam212b. Cell Death and Differentiation, 2021, 28, 1364-1378.	11.2	13
58	Rheumatoid arthritis and osteoimmunology: The adverse impact of a deregulated immune system on bone metabolism. Bone, 2022, 162, 116468.	2.9	13
59	Fra-2 Expression in Osteoblasts Regulates Systemic Inflammation and Lung Injury through Osteopontin. Molecular and Cellular Biology, 2018, 38, .	2.3	10
60	Binding Immunoglobulin Protein (<scp>BIP</scp>) Inhibits <scp>TNF</scp>â€Î±â€“Induced Osteoclast Differentiation and Systemic Bone Loss in an Erosive Arthritis Model. ACR Open Rheumatology, 2019, 1, 382-393.	2.1	10
61	Fra1 Controls Rheumatoid Factor Autoantibody Production by Bone Marrow Plasma Cells and the Development of Autoimmune Bone Loss. Journal of Bone and Mineral Research, 2019, 34, 1352-1365.	2.8	10
62	A Human Periodontal Ligament Fibroblast Cell Line as a New Model to Study Periodontal Stress. International Journal of Molecular Sciences, 2020, 21, 7961.	4.1	10
63	Estrogen-mediated downregulation of HIF-1Î± signaling in B lymphocytes influences postmenopausal bone loss. Bone Research, 2022, 10, 15.	11.4	10
64	Differential effects of ionizing radiation and platinum-derivative chemotherapy on apoptotic pathways in testicular germ cells. International Journal of Radiation Biology, 2007, 83, 269-278.	1.8	9
65	Adult alcohol drinking and emotional tone are mediated by neutral sphingomyelinase during development in males. Cerebral Cortex, 2023, 33, 844-864.	2.9	9
66	Endocrinology & Metabolism News, August 2005. Journal of Clinical Endocrinology and Metabolism, 2005, 90, 17a-17a.	3.6	8
67	Epigenetic basis of oncogenic-Kras-mediated epithelial-cellular proliferation and plasticity. Developmental Cell, 2022, 57, 310-328.e9.	7.0	6
68	Systemic PPARÎ³ Antagonism Reduces Metastatic Tumor Progression in Adipocyte-Rich Bone in Excess Weight Male Rodents. Journal of Bone and Mineral Research, 2020, 36, 2440-2452.	2.8	5
69	Distinct Metabolism of Bone Marrow Adipocytes and their Role in Bone Metastasis. Frontiers in Endocrinology, 0, 13, .	3.5	5
70	Removing the Bone Brake. Cell Metabolism, 2014, 20, 394-395.	16.2	4
71	Apremilast inhibits inflammatory osteoclastogenesis. Rheumatology, 2021, 61, 452-461.	1.9	4
72	Epithelial HIF2Î± expression induces intestinal barrier dysfunction and exacerbation of arthritis. Annals of the Rheumatic Diseases, 2022, 81, 1119-1130.	0.9	4

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73	Mechanism of Regulation of Adipocyte Numbers in Adult Organisms Through Differentiation and Apoptosis Homeostasis. Journal of Visualized Experiments, 2016, , .	0.3	3
74	Morphological, functional, and molecular assessment of breast cancer bone metastases by experimental ultrasound techniques compared with magnetic resonance imaging and histological analysis. Bone, 2021, 144, 115821.	2.9	3
75	X-linked inhibitor of apoptosis protein (XIAP) inhibition in systemic sclerosis (SSc). Annals of the Rheumatic Diseases, 2021, 80, 1048-1056.	0.9	3
76	Development and Exploitation of a Fully Human and Modular Organotypic Bone Marrow Niche Model to Study the Role of Stroma-Produced Factors in Human MDS. Blood, 2020, 136, 23-23.	1.4	3
77	New insights into the key role of HIF-1Î± in IL-10-producing B cells. Cell Stress, 2018, 2, 94-95.	3.2	3
78	Machine Learning Algorithms for Early Detection of Bone Metastases in an Experimental Rat Model. Journal of Visualized Experiments, 2020, , .	0.3	3
79	The Special Developmental Biology of Craniofacial Tissues Enables the Understanding of Oral and Maxillofacial Physiology and Diseases. International Journal of Molecular Sciences, 2021, 22, 1315.	4.1	2
80	Anti-inflammatory, but not osteoprotective, effect of the TRAF6/CD40 inhibitor 6877002 in rodent models of local and systemic osteolysis. Biochemical Pharmacology, 2022, 195, 114869.	4.4	2
81	Non-Invasive Characterization of Experimental Bone Metastasis in Obesity Using Multiparametric MRI and PET/CT. Cancers, 2022, 14, 2482.	3.7	2
82	A6.4â€...Induction of TH2 cells and eosinophil by infection withnippostrongylus brasiliensisprotects against rheumatoid arthritis. Annals of the Rheumatic Diseases, 2014, 73, A72.1-A72.	0.9	1
83	AB0046â€...Metabolism and osteoarthritis are linked by adipokines. , 2017, , .		1
84	Murine Metatarsus Bone and Joint Collagen-I Fiber Morphologies and Networks Studied With SHG Multiphoton Imaging. Frontiers in Bioengineering and Biotechnology, 2021, 9, 608383.	4.1	1
85	Systemic versus local adipokine expression differs in a combined obesity and osteoarthritis mouse model. Scientific Reports, 2021, 11, 17001.	3.3	1
86	Osteoimmunology. , 2015, , 165-168.		1
87	A4.9â€...How Osteoblast Regulates Energy Metabolism and Systemic Inflammation Dependent of FRA-2 Expression. Annals of the Rheumatic Diseases, 2013, 72, A27.1-A27.	0.9	0
88	An integrative cross-tumors approach identifies FOSL1 as an oncogene dependency in KRAS-driven lung cancer. Journal of Thoracic Oncology, 2016, 11, S51.	1.1	0
89	03.01â€...Adipokines as link between arthritis and metabolism. , 2017, , .		0
90	01.12â€...Fra-1 transcription factor expression in macrophages foster inflammation during rheumatoid arthritis development. , 2017, , .		0

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91	01.05â€…Regulation of arthritis by type 2 innate lymphoid cells. , 2017, , .		0
92	02.24â€…The ap-1 transcription factor c-jun promotes arthritis by regulating cyclooxygenase-2 expression in macrophages. , 2017, , .		0
93	SAT0201â€…Abatacept but not tnf inhibitors block autoantibody-mediated cytokine production by monocytes. , 2017, , .		0
94	SAT0318â€…Epigenetic regulation of FRA2 by JMJD3 regulates fibroblast activation in systemic sclerosis. , 2017, , .		0
95	P086â€…Adipocytokines linking obesity and osteoarthritis. , 2018, , .		0
96	Fra-2/AP-1 controls bone formation by regulating osteoblast differentiation and collagen production. Journal of Experimental Medicine, 2010, 207, i30-i30.	8.5	0
97	Innate Lymphoid Cells Type 2 Attenuate Inflammatory Arthritis and Protect from Bone Destruction. SSRN Electronic Journal, 0, , .	0.4	0
98	B-lymphocytes influence postmenopausal bone loss in an HIF-1a dependent signaling. Bone Reports, 2022, 16, 101397.	0.4	0