

# Jessica Bertrand

## List of Publications by Year in descending order

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Version: 2024-02-01

70  
papers

2,193  
citations

236925

25  
h-index

233421

45  
g-index

74  
all docs

74  
docs citations

74  
times ranked

3146  
citing authors

#	ARTICLE	IF	CITATIONS
1	Syndecan-4 regulates ADAMTS-5 activation and cartilage breakdown in osteoarthritis. <i>Nature Medicine</i> , 2009, 15, 1072-1076.	30.7	290
2	Myostatin is a direct regulator of osteoclast differentiation and its inhibition reduces inflammatory joint destruction in mice. <i>Nature Medicine</i> , 2015, 21, 1085-1090.	30.7	192
3	WNT-3A modulates articular chondrocyte phenotype by activating both canonical and noncanonical pathways. <i>Journal of Cell Biology</i> , 2011, 193, 551-564.	5.2	175
4	Cartilage biology, pathology, and repair. <i>Cellular and Molecular Life Sciences</i> , 2010, 67, 4197-4211.	5.4	95
5	Stable activation of fibroblasts in rheumatic arthritisâ€”causes and consequences. <i>Rheumatology</i> , 2016, 55, ii64-ii67.	1.9	71
6	Molecular mechanisms of cartilage remodelling in osteoarthritis. <i>International Journal of Biochemistry and Cell Biology</i> , 2010, 42, 1594-1601.	2.8	65
7	TRPC6 Regulates CXCR2-Mediated Chemotaxis of Murine Neutrophils. <i>Journal of Immunology</i> , 2013, 190, 5496-5505.	0.8	64
8	Role of sequence variations in the human ether-a-go-go-related gene (HERG, KCNH2) in the Brugada syndrome. <i>Cardiovascular Research</i> , 2005, 68, 441-453.	3.8	63
9	Syndecans in cartilage breakdown and synovial inflammation. <i>Nature Reviews Rheumatology</i> , 2013, 9, 43-55.	8.0	62
10	A homeostatic function of CXCR2 signalling in articular cartilage. <i>Annals of the Rheumatic Diseases</i> , 2015, 74, 2207-2215.	0.9	62
11	Antibacterial coating of Ti-6Al-4V surfaces using silver nano-powder mixed electrical discharge machining. <i>Surface and Coatings Technology</i> , 2020, 383, 125254.	4.8	59
12	Soluble syndecans: biomarkers for diseases and therapeutic options. <i>British Journal of Pharmacology</i> , 2019, 176, 67-81.	5.4	51
13	Critical role for syndecan-4 in dendritic cell migration during development of allergic airway inflammation. <i>Nature Communications</i> , 2015, 6, 7554.	12.8	45
14	A New $\beta$ 1 Integrin-Dependent Survival Pathway Through GSK3 $\beta$ Activation in Leukemic Cells. <i>PLoS ONE</i> , 2010, 5, e9807.	2.5	45
15	Syndecan 4 supports bone fracture repair, but not fetal skeletal development, in mice. <i>Arthritis and Rheumatism</i> , 2013, 65, 743-752.	6.7	44
16	Cellular and molecular mechanisms of cartilage damage and repair. <i>Drug Discovery Today</i> , 2014, 19, 1172-1177.	6.4	44
17	Regulation of matrixmetalloproteinase-3 and matrixmetalloproteinase-13 by SUMO-2/3 through the transcription factor NF- $\kappa$ B. <i>Annals of the Rheumatic Diseases</i> , 2013, 72, 1874-1881.	0.9	42
18	Forced exercise-induced osteoarthritis is attenuated in mice lacking the small leucine-rich proteoglycan decorin. <i>Annals of the Rheumatic Diseases</i> , 2017, 76, 442-449.	0.9	42

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19	BCP crystals promote chondrocyte hypertrophic differentiation in OA cartilage by sequestering Wnt3a. <i>Annals of the Rheumatic Diseases</i> , 2020, 79, 975-984.	0.9	37
20	ROR2 blockade as a therapy for osteoarthritis. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	34
21	Targeting $\beta$ -catenin dependent Wnt signaling via peptidomimetic inhibitors in murine chondrocytes and OA cartilage. <i>Osteoarthritis and Cartilage</i> , 2018, 26, 818-823.	1.3	33
22	Targeting CD34+ cells of the inflamed synovial endothelium by guided nanoparticles for the treatment of rheumatoid arthritis. <i>Journal of Autoimmunity</i> , 2019, 103, 102288.	6.5	33
23	Retrieval study of commercially available knee implant coatings TiN, TiNbN and ZrN on TiAl6V4 and CoCr28Mo6. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 112, 104034.	3.1	31
24	Amino Acid Substitutions in Putative Selectivity Filter Regions III and IV in KdpA Alter Ion Selectivity of the KdpFABC Complex from <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2004, 186, 5519-5522.	2.2	27
25	The protective role of the 3-mercaptopyruvate sulfurtransferase (3-MST)-hydrogen sulfide (H <sub>2</sub> S) pathway against experimental osteoarthritis. <i>Arthritis Research and Therapy</i> , 2020, 22, 49.	3.5	27
26	MMP-9 mediated Syndecan-4 shedding correlates with osteoarthritis severity. <i>Osteoarthritis and Cartilage</i> , 2021, 29, 280-289.	1.3	27
27	Transport Mechanisms and Their Pathology-Induced Regulation Govern Tyrosine Kinase Inhibitor Delivery in Rheumatoid Arthritis. <i>PLoS ONE</i> , 2012, 7, e52247.	2.5	25
28	Articular cartilage calcification of the humeral head is highly prevalent and associated with osteoarthritis in the general population. <i>Journal of Orthopaedic Research</i> , 2016, 34, 1984-1990.	2.3	23
29	Gender Differences in Cardiac Arrhythmias. <i>Herz</i> , 2005, 30, 390-400.	1.1	22
30	Manipulation of pro-inflammatory cytokine production by the bacterial cell-penetrating effector protein YopM is independent of its interaction with host cell kinases RSK1 and PRK2. <i>Virulence</i> , 2014, 5, 761-771.	4.4	22
31	The cytokine interleukin-11 crucially links bone formation, remodeling and resorption. <i>Cytokine and Growth Factor Reviews</i> , 2021, 60, 18-27.	7.2	22
32	Differential Effect of Cobalt and Chromium Ions as Well as CoCr Particles on the Expression of Osteogenic Markers and Osteoblast Function. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3034.	4.1	20
33	Cartilage Trauma Induces Necroptotic Chondrocyte Death and Expulsion of Cellular Contents. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4204.	4.1	20
34	Ionic cobalt but not metal particles induces ROS generation in immune cells in vitro. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019, 107, 1246-1253.	3.4	19
35	Long-term survival and failure analysis of anatomical stemmed and stemless shoulder arthroplasties. <i>Bone and Joint Journal</i> , 2021, 103-B, 1292-1300.	4.4	19
36	Characteristics of different cathodic arc deposition coatings on CoCrMo for biomedical applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 97, 212-221.	3.1	18

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37	Notch Signaling Activity Determines Uptake and Biological Effect of Imatinib in Systemic Sclerosis Dermal Fibroblasts. <i>Journal of Investigative Dermatology</i> , 2019, 139, 439-447.	0.7	17
38	Antibody-mediated inhibition of syndecan-4 dimerisation reduces interleukin (IL)-1 receptor trafficking and signalling. <i>Annals of the Rheumatic Diseases</i> , 2020, 79, 481-489.	0.9	16
39	Importance of the novel organic cation transporter 1 for tyrosine kinase inhibition by saracatinib in rheumatoid arthritis synovial fibroblasts. <i>Scientific Reports</i> , 2017, 7, 1258.	3.3	14
40	Calcium calmodulin kinase II activity is required for cartilage homeostasis in osteoarthritis. <i>Scientific Reports</i> , 2021, 11, 5682.	3.3	14
41	The effects of cobalt and chromium ions on transforming growth factor $\beta$ patterns and mineralization in human osteoblast-like MG63 and SaOs-2 cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 2105-2115.	4.0	13
42	Tofacitinib and Baricitinib Are Taken up by Different Uptake Mechanisms Determining the Efficacy of Both Drugs in RA. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6632.	4.1	13
43	Severe Traumatic Injury Induces Phenotypic and Functional Changes of Neutrophils and Monocytes. <i>Journal of Clinical Medicine</i> , 2021, 10, 4139.	2.4	13
44	Toll-like receptor 3 activation promotes joint degeneration in osteoarthritis. <i>Cell Death and Disease</i> , 2022, 13, 224.	6.3	13
45	Chondrocytes From Osteoarthritic and Chondrocalcinosis Cartilage Represent Different Phenotypes. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 622287.	3.7	12
46	In vivo corrosion and damages in modular shoulder prostheses. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 1764-1778.	3.4	11
47	The role of calcium crystals and their effect on osteoarthritis pathogenesis. <i>Best Practice and Research in Clinical Rheumatology</i> , 2021, 35, 101722.	3.3	10
48	FHL2 regulates the resolution of tissue damage in chronic inflammatory arthritis. <i>Annals of the Rheumatic Diseases</i> , 2015, 74, 2216-2223.	0.9	9
49	The Genetic Variations Associated With Time to Aseptic Loosening After Total Joint Arthroplasty. <i>Journal of Arthroplasty</i> , 2020, 35, 981-988.	3.1	9
50	The Gasotransmitter Hydrogen Sulfide (H <sub>2</sub> S) Prevents Pathologic Calcification (PC) in Cartilage. <i>Antioxidants</i> , 2021, 10, 1433.	5.1	7
51	Probing Embryonic Development Enables the Discovery of Unique Small-Molecule Bone Morphogenetic Protein Potentiators. <i>Journal of Medicinal Chemistry</i> , 2022, 65, 3978-3990.	6.4	7
52	Periprosthetic hypoxia as consequence of TRPM7 mediated cobalt influx in osteoblasts. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019, 107, 1806-1813.	3.4	6
53	Loss of the WNT9a ligand aggravates the rheumatoid arthritis-like symptoms in hTNF transgenic mice. <i>Cell Death and Disease</i> , 2021, 12, 494.	6.3	6
54	Microstructure-dependent crevice corrosion damage of implant materials $\langle \text{CoCr28Mo6} \rangle$ , $\langle \text{TiAl6V4} \rangle$ and $\langle \text{REX} \rangle$ 734 under severe inflammatory conditions. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2022, 110, 1687-1704.	3.4	6

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55	Role of Proteoglycans in Osteoarthritis. , 2017, , 63-80.		4
56	The Methanocaldococcus jannaschii protein Mj0968 is not a P-type ATPase. FEBS Letters, 2003, 543, 31-36.	2.8	3
57	The terminal complement pathway is activated in septic but not in aseptic shoulder revision arthroplasties. Journal of Shoulder and Elbow Surgery, 2018, 27, 1837-1844.	2.6	3
58	Syndecan-4 Is Increased in Osteoarthritic Knee, but Not Hip or Shoulder, Articular Hypertrophic Chondrocytes. Cartilage, 2019, , 194760351987085.	2.7	3
59	Radiological changes in shoulder osteoarthritis and pain sensation correlate with patients' age. Journal of Orthopaedic Surgery and Research, 2022, 17, 277.	2.3	3
60	Effect of deep rolling on subsurface conditions of CoCr28Mo6 wrought alloy to improve the wear resistance of endoprotheses. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 118, 104398.	3.1	2
61	Synthesis of a Lubricant to Mimic the Biorheological Behavior of Osteoarthritic and Revision Synovial Fluid. Lubricants, 2021, 9, 87.	2.9	2
62	A Novel Alloy Development Approach: Biomedical Equiatomic Ta-Nb-Ti Alloy. Metals, 2021, 11, 1778.	2.3	2
63	Shed syndecan 4 in synovial fluid as a biomarker for OA severity. Osteoarthritis and Cartilage, 2017, 25, S93-S94.	1.3	1
64	Intraoperative assembly of anatomical shoulder prosthesis frequently results in malalignment of the modular taper junction. Journal of Orthopaedic Research, 2021, 39, 2485-2496.	2.3	1
65	Joints and Connective tissue"structure and function. , 2013, , 409-414.		1
66	The role of CXCR2 signaling in articular cartilage homeostasis. Osteoarthritis and Cartilage, 2013, 21, S19-S20.	1.3	0
67	Syndecan-4 regulates chondrocyte extracellular matrix architecture and modulates WNT3A-induced matrix remodeling. Osteoarthritis and Cartilage, 2015, 23, A153.	1.3	0
68	Syndecan-4 deficiency affects extracellular matrix architecture of articular cartilage. Osteoarthritis and Cartilage, 2017, 25, S146.	1.3	0
69	Joint biochemistry. , 2013, , .		0
70	Sensor-based measurement for advanced monitoring and early detection of PE wear in total knee arthroplasties. Current Directions in Biomedical Engineering, 2021, 7, 283-286.	0.4	0