

Gary S Firestein

List of Publications by Year in descending order

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Version: 2024-02-01

91
papers

13,521
citations

53660

45
h-index

48187

88
g-index

95
all docs

95
docs citations

95
times ranked

12852
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolving concepts of rheumatoid arthritis. <i>Nature</i> , 2003, 423, 356-361.	13.7	3,056
2	Fibroblast-like synoviocytes: key effector cells in rheumatoid arthritis. <i>Immunological Reviews</i> , 2010, 233, 233-255.	2.8	1,515
3	Rheumatoid arthritis. <i>Nature Reviews Disease Primers</i> , 2018, 4, 18001.	18.1	1,441
4	Defining inflammatory cell states in rheumatoid arthritis joint synovial tissues by integrating single-cell transcriptomics and mass cytometry. <i>Nature Immunology</i> , 2019, 20, 928-942.	7.0	760
5	Duality of fibroblast-like synoviocytes in RA: passive responders and imprinted aggressors. <i>Nature Reviews Rheumatology</i> , 2013, 9, 24-33.	3.5	715
6	Invasive fibroblast-like synoviocytes in rheumatoid arthritis. Passive responders or transformed aggressors?. <i>Arthritis and Rheumatism</i> , 1996, 39, 1781-1790.	6.7	551
7	Restoring synovial homeostasis in rheumatoid arthritis by targeting fibroblast-like synoviocytes. <i>Nature Reviews Rheumatology</i> , 2020, 16, 316-333.	3.5	400
8	DNA methylome signature in rheumatoid arthritis. <i>Annals of the Rheumatic Diseases</i> , 2013, 72, 110-117.	0.5	283
9	Gene Expression (Collagenase, Tissue Inhibitor of Metalloproteinases, Complement, and HLA-DR) in Rheumatoid Arthritis and Osteoarthritis Synovium. Quantitative Analysis and Effect of Intraarticular Corticosteroids. <i>Arthritis and Rheumatism</i> , 1991, 34, 1094-1105.	6.7	247
10	Rheumatoid arthritis and p53: how oxidative stress might alter the course of inflammatory diseases. <i>Trends in Immunology</i> , 2000, 21, 78-82.	7.5	237
11	How important are T cells in chronic rheumatoid synovitis?: II. T cell-independent mechanisms from beginning to end. <i>Arthritis and Rheumatism</i> , 2002, 46, 298-308.	6.7	194
12	Signal transduction and transcription factors in rheumatic disease. <i>Arthritis and Rheumatism</i> , 1999, 42, 609-621.	6.7	178
13	Fibroblast-like synoviocytes support B-cell pseudoemperipolesis via a stromal cell-derived factor-1 and CD106 (VCAM-1)-dependent mechanism. <i>Journal of Clinical Investigation</i> , 2001, 107, 305-315.	3.9	156
14	Pre-rheumatoid arthritis: predisposition and transition to clinical synovitis. <i>Nature Reviews Rheumatology</i> , 2012, 8, 573-586.	3.5	155
15	The JAK inhibitor CP-690,550 (tofacitinib) inhibits TNF-induced chemokine expression in fibroblast-like synoviocytes: autocrine role of type I interferon. <i>Annals of the Rheumatic Diseases</i> , 2012, 71, 440-447.	0.5	153
16	Prostaglandins increase proMMP-1 and proMMP-3 secretion by human ciliary smooth muscle cells. <i>Current Eye Research</i> , 1996, 15, 869-875.	0.7	138
17	Metabolomics in rheumatic diseases: desperately seeking biomarkers. <i>Nature Reviews Rheumatology</i> , 2016, 12, 269-281.	3.5	128
18	Regulation of DNA Methylation in Rheumatoid Arthritis Synoviocytes. <i>Journal of Immunology</i> , 2013, 190, 1297-1303.	0.4	126

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19	Hexokinase 2 as a novel selective metabolic target for rheumatoid arthritis. <i>Annals of the Rheumatic Diseases</i> , 2018, 77, 1636-1643.	0.5	123
20	Comprehensive epigenetic landscape of rheumatoid arthritis fibroblast-like synoviocytes. <i>Nature Communications</i> , 2018, 9, 1921.	5.8	119
21	Invasiveness of synovial fibroblasts is regulated by p53 in the SCID mouse in vivo model of cartilage invasion. <i>Arthritis and Rheumatism</i> , 2001, 44, 676-681.	6.7	107
22	Joint-specific DNA methylation and transcriptome signatures in rheumatoid arthritis identify distinct pathogenic processes. <i>Nature Communications</i> , 2016, 7, 11849.	5.8	104
23	An imprinted rheumatoid arthritis methylome signature reflects pathogenic phenotype. <i>Genome Medicine</i> , 2013, 5, 40.	3.6	99
24	Mechanisms of Methotrexate Action in Rheumatoid Arthritis. <i>Arthritis and Rheumatism</i> , 1994, 37, 193-200.	6.7	96
25	Acquisition, Culture, and Phenotyping of Synovial Fibroblasts. <i>Methods in Molecular Medicine</i> , 2007, 135, 365-375.	0.8	94
26	P53 overexpression in synovial tissue from patients with early and longstanding rheumatoid arthritis compared with patients with reactive arthritis and osteoarthritis. <i>Arthritis and Rheumatism</i> , 1999, 42, 948-953.	6.7	93
27	Methods for high-dimensional analysis of cells dissociated from cryopreserved synovial tissue. <i>Arthritis Research and Therapy</i> , 2018, 20, 139.	1.6	93
28	PI3 Kinase $\hat{\imath}$ Is a Key Regulator of Synoviocyte Function in Rheumatoid Arthritis. <i>American Journal of Pathology</i> , 2012, 180, 1906-1916.	1.9	92
29	Dominant-negative p53 mutations in rheumatoid arthritis. <i>Arthritis and Rheumatism</i> , 1999, 42, 1088-1092.	6.7	91
30	IL-6 and Matrix Metalloproteinase-1 Are Regulated by the Cyclin-Dependent Kinase Inhibitor p21 in Synovial Fibroblasts. <i>Journal of Immunology</i> , 2003, 170, 838-845.	0.4	91
31	NF- κ B: Holy Grail for rheumatoid arthritis?. <i>Arthritis and Rheumatism</i> , 2004, 50, 2381-2386.	6.7	82
32	The T cell cometh: interplay between adaptive immunity and cytokine networks in rheumatoid arthritis. <i>Journal of Clinical Investigation</i> , 2004, 114, 471-474.	3.9	76
33	DNA Methylome Signature in Synoviocytes From Patients With Early Rheumatoid Arthritis Compared to Synoviocytes From Patients With Longstanding Rheumatoid Arthritis. <i>Arthritis and Rheumatology</i> , 2015, 67, 1978-1980.	2.9	74
34	Modulation of fibroblast-mediated cartilage degradation by articular chondrocytes in rheumatoid arthritis. <i>Arthritis and Rheumatism</i> , 2000, 43, 2531-2536.	6.7	72
35	Antiinflammatory functions of p38 in mouse models of rheumatoid arthritis: Advantages of targeting upstream kinases MKK $\hat{\epsilon}$ 3 or MKK $\hat{\epsilon}$ 6. <i>Arthritis and Rheumatism</i> , 2012, 64, 2887-2895.	6.7	67
36	Chikungunya Arthritis Mechanisms in the Americas. <i>Arthritis and Rheumatology</i> , 2018, 70, 585-593.	2.9	63

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37	Frequency of Chronic Joint Pain Following Chikungunya Virus Infection. <i>Arthritis and Rheumatology</i> , 2018, 70, 578-584.	2.9	62
38	Epigenetics of inflammatory arthritis. <i>Current Opinion in Rheumatology</i> , 2018, 30, 188-196.	2.0	61
39	Epigenetic alterations in rheumatoid arthritis fibroblast-like synoviocytes. <i>Epigenomics</i> , 2017, 9, 479-492.	1.0	59
40	PUMA regulation and proapoptotic effects in fibroblast-like synoviocytes. <i>Arthritis and Rheumatism</i> , 2006, 54, 587-592.	6.7	58
41	Phosphoinositide 3-Kinase $\hat{\Gamma}$ Regulates Migration and Invasion of Synoviocytes in Rheumatoid Arthritis. <i>Journal of Immunology</i> , 2014, 192, 2063-2070.	0.4	58
42	Inhibiting Inflammation in Rheumatoid Arthritis. <i>New England Journal of Medicine</i> , 2006, 354, 80-82.	13.9	57
43	The Rheumatoid Arthritis Risk Gene <i>LBH</i> Regulates Growth in Fibroblast-like Synoviocytes. <i>Arthritis and Rheumatology</i> , 2015, 67, 1193-1202.	2.9	56
44	Rheumatoid Arthritis Naive T Cells Share Hypermethylation Sites With Synoviocytes. <i>Arthritis and Rheumatology</i> , 2017, 69, 550-559.	2.9	50
45	Integrative Omics Analysis of Rheumatoid Arthritis Identifies Non-Obvious Therapeutic Targets. <i>PLoS ONE</i> , 2015, 10, e0124254.	1.1	48
46	p53 tumor suppressor gene mutations in fibroblast-like synoviocytes from erosion synovium and non-erosion synovium in rheumatoid arthritis. <i>Arthritis Research and Therapy</i> , 2005, 7, R12.	1.6	45
47	Targeting phosphatase-dependent proteoglycan switch for rheumatoid arthritis therapy. <i>Science Translational Medicine</i> , 2015, 7, 288ra76.	5.8	44
48	Anti-Inflammatory Effects and Joint Protection in Collagen-Induced Arthritis after Treatment with IQ-1S, a Selective c-Jun N-Terminal Kinase Inhibitor. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2015, 353, 505-516.	1.3	44
49	Protein Tyrosine Phosphatase Expression Profile of Rheumatoid Arthritis Fibroblast-like Synoviocytes: A Novel Role of SH2 Domain-Containing Phosphatase 2 as a Modulator of Invasion and Survival. <i>Arthritis and Rheumatism</i> , 2013, 65, 1171-1180.	6.7	43
50	Synoviocyte-targeted therapy synergizes with TNF inhibition in arthritis reversal. <i>Science Advances</i> , 2020, 6, eaba4353.	4.7	43
51	<i>LBH</i> Gene Transcription Regulation by the Interplay of an Enhancer Risk Allele and DNA Methylation in Rheumatoid Arthritis. <i>Arthritis and Rheumatology</i> , 2016, 68, 2637-2645.	2.9	41
52	Role of MAPK Kinase 6 in Arthritis: Distinct Mechanism of Action in Inflammation and Cytokine Expression. <i>Journal of Immunology</i> , 2009, 183, 1360-1367.	0.4	39
53	Chronic Joint Pain 3 Years after Chikungunya Virus Infection Largely Characterized by Relapsing-remitting Symptoms. <i>Journal of Rheumatology</i> , 2020, 47, 1267-1274.	1.0	38
54	Anti-inflammatory effects of adenosine kinase inhibitors in acute and chronic inflammation. <i>Drug Development Research</i> , 1996, 39, 371-376.	1.4	37

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55	TGF β 2 responsive tyrosine phosphatase promotes rheumatoid synovial fibroblast invasiveness. <i>Annals of the Rheumatic Diseases</i> , 2016, 75, 295-302.	0.5	35
56	Interactive Cytokine Regulation of Synoviocyte Lubricant Secretion. <i>Tissue Engineering - Part A</i> , 2010, 16, 1329-1337.	1.6	34
57	Abnormal PTPN11 enhancer methylation promotes rheumatoid arthritis fibroblast-like synoviocyte aggressiveness and joint inflammation. <i>JCI Insight</i> , 2016, 1, .	2.3	34
58	PTPN14 phosphatase and YAP promote TGF β 2 signalling in rheumatoid synoviocytes. <i>Annals of the Rheumatic Diseases</i> , 2019, 78, 600-609.	0.5	33
59	Joint Location-Specific JAK-STAT Signaling in Rheumatoid Arthritis Fibroblast-like Synoviocytes. <i>ACR Open Rheumatology</i> , 2019, 1, 640-648.	0.9	32
60	Regulation of the Cell Cycle and Inflammatory Arthritis by the Transcription Cofactor <i>LBH</i> Gene. <i>Journal of Immunology</i> , 2017, 199, 2316-2322.	0.4	31
61	Distinct ON/OFF fluorescence signals from dual-responsive activatable nanoprobes allows detection of inflammation with improved contrast. <i>Biomaterials</i> , 2017, 133, 119-131.	5.7	28
62	Pathogenesis of rheumatoid arthritis: how early is early?. <i>Arthritis Research and Therapy</i> , 2005, 7, 157.	1.6	27
63	Histamine and Histamine H4 Receptor Promotes Osteoclastogenesis in Rheumatoid Arthritis. <i>Scientific Reports</i> , 2017, 7, 1197.	1.6	27
64	PUMA gene delivery to synoviocytes reduces inflammation and degeneration of arthritic joints. <i>Nature Communications</i> , 2017, 8, 146.	5.8	26
65	Receptor Protein Tyrosine Phosphatase β -Mediated Enhancement of Rheumatoid Synovial Fibroblast Signaling and Promotion of Arthritis in Mice. <i>Arthritis and Rheumatology</i> , 2016, 68, 359-369.	2.9	24
66	Regulation and function of apoptosis signal-regulating kinase 1 in rheumatoid arthritis. <i>Biochemical Pharmacology</i> , 2018, 151, 282-290.	2.0	22
67	The Cytokine Profile in Acute Chikungunya Infection is Predictive of Chronic Arthritis 20 Months Post Infection. <i>Diseases (Basel, Switzerland)</i> , 2018, 6, 95.	1.0	20
68	Rheumatoid arthritis in a mouse?. <i>Nature Clinical Practice Rheumatology</i> , 2009, 5, 1-1.	3.2	18
69	Computationally expanding infinium HumanMethylation450 BeadChip array data to reveal distinct DNA methylation patterns of rheumatoid arthritis. <i>Bioinformatics</i> , 2016, 32, 1773-1778.	1.8	18
70	BIOMEDICINE: Every Joint Has a Silver Lining. <i>Science</i> , 2007, 315, 952-953.	6.0	16
71	Lasp1 regulates adherens junction dynamics and fibroblast transformation in destructive arthritis. <i>Nature Communications</i> , 2021, 12, 3624.	5.8	16
72	PATHOGENESIS OF RHEUMATOID ARTHRITIS: THE INTERSECTION OF GENETICS AND EPIGENETICS. <i>Transactions of the American Clinical and Climatological Association</i> , 2018, 129, 171-182.	0.9	15

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73	Common mechanisms in immune-mediated inflammatory disease. <i>Journal of rheumatology Supplement, The</i> , 2005, 73, 8-13; discussion 29-30.	2.2	15
74	Persistent Joint Pain Following Arthropod Virus Infections. <i>Current Rheumatology Reports</i> , 2021, 23, 26.	2.1	13
75	Differential regulation of anti-inflammatory genes by p38 MAP kinase and MAP kinase kinase 6. <i>Journal of Inflammation</i> , 2014, 11, 14.	1.5	12
76	Distinct DNA Methylation Patterns of Rheumatoid Arthritis Peripheral Blood and Synovial Tissue T Cells. <i>ACR Open Rheumatology</i> , 2021, 3, 127-132.	0.9	12
77	Epigenetic Regulation of Nutrient Transporters in Rheumatoid Arthritis Fibroblast-Like Synoviocytes. <i>Arthritis and Rheumatology</i> , 2022, , .	2.9	10
78	A multisite study of performance drivers among institutional review boards. <i>Journal of Clinical and Translational Science</i> , 2017, 1, 192-197.	0.3	9
79	Tofacitinib, an orally active histamine H4-receptor antagonist, in patients with active rheumatoid arthritis despite methotrexate: mechanism of action results from a phase 2, multicenter, randomized, double-blind, placebo-controlled synovial biopsy study. <i>Inflammation Research</i> , 2019, 68, 261-274.	1.6	9
80	<i>Synovium</i> . , 2017, , 20-33.		6
81	Persistent chikungunya arthritis in Roraima, Brazil. <i>Clinical Rheumatology</i> , 2020, 39, 2781-2787.	1.0	5
82	Caspase-8 Variant G Regulates Rheumatoid Arthritis Fibroblast-Like Synoviocyte Aggressive Behavior. <i>ACR Open Rheumatology</i> , 2022, 4, 288-299.	0.9	4
83	Comparison of Web-Based Advertising and a Social Media Platform as Recruitment Tools for Underserved and Hard-to-Reach Populations in Rheumatology Clinical Research. <i>ACR Open Rheumatology</i> , 2022, 4, 623-630.	0.9	4
84	IgG Epitopes Processed and Presented by IgG+ B Cells Induce Suppression by Human Thymic-Derived Regulatory T Cells. <i>Journal of Immunology</i> , 2021, 206, 1194-1203.	0.4	3
85	Tender and swollen joint counts are poorly associated with disability in chikungunya arthritis compared to rheumatoid arthritis. <i>Scientific Reports</i> , 2021, 11, 18578.	1.6	3
86	Ten years after: rheumatology research from bench to bedside. <i>Nature Reviews Rheumatology</i> , 2015, 11, 623-624.	3.5	2
87	Crosstalk between CD4 T cells and synovial fibroblasts from human arthritic joints promotes hyaluronan-dependent leukocyte adhesion and inflammatory cytokine expression in vitro. <i>Matrix Biology Plus</i> , 2022, 14, 100110.	1.9	2
88	Clinical features of patients with anti-neutrophil cytoplasmic autoantibodies targeting native myeloperoxidase antigen. <i>Modern Rheumatology</i> , 2013, 23, 963-971.	0.9	1
89	Apoptosis in Rheumatoid Arthritis. , 0, , 169-186.		0
90	Suppressed DNA Repair Mechanisms in Rheumatoid Arthritis. <i>Immune Network</i> , 2002, 2, 208.	1.6	0

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91	A framework and road map for rapid start-up and completion of a COVID-19 vaccine trial: A single clinical trial site experience. <i>Journal of Clinical and Translational Science</i> , 2022, 6, e21.	0.3	0