

# Jeffery J Babon

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4985239/publications.pdf>

Version: 2024-02-01

96  
papers

7,414  
citations

76294

40  
h-index

58549

82  
g-index

100  
all docs

100  
docs citations

100  
times ranked

10724  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimization of Phosphotyrosine Peptides that Target the SH2 Domain of SOCS1 and Block Substrate Ubiquitination. <i>ACS Chemical Biology</i> , 2022, , .	1.6	2
2	NMR measurement of biomolecular translational and rotational motion for evaluating changes of protein oligomeric state in solution. <i>European Biophysics Journal</i> , 2022, 51, 193-204.	1.2	3
3	The Role of LNK (SH2B3) in the Regulation of JAK-STAT Signalling in Haematopoiesis. <i>Pharmaceuticals</i> , 2022, 15, 24.	1.7	11
4	TLR7 gain-of-function genetic variation causes human lupus. <i>Nature</i> , 2022, 605, 349-356.	13.7	208
5	Chemical Exchange of Hydroxyl Groups in Lipidic Cubic Phases Characterized by NMR. <i>Journal of Physical Chemistry B</i> , 2021, 125, 571-580.	1.2	5
6	Proteomic analyses reveal that immune integrins are major targets for regulation by Membrane-associated Ring-CH (MARCH) proteins MARCH2, 3, 4 and 9. <i>Proteomics</i> , 2021, 21, 2000244.	1.3	3
7	The intracellular domains of the EphB6 and EphA10 receptor tyrosine pseudokinases function as dynamic signalling hubs. <i>Biochemical Journal</i> , 2021, 478, 3351-3371.	1.7	6
8	Dissecting the molecular control of Interleukin 6 signaling using the M1 cell line. <i>Cytokine</i> , 2021, 146, 155624.	1.4	1
9	Persistence of myelofibrosis treated with ruxolitinib: biology and clinical implications. <i>Haematologica</i> , 2021, 106, 1244-1253.	1.7	16
10	Structural and functional analysis of target recognition by the lymphocyte adaptor protein LNK. <i>Nature Communications</i> , 2021, 12, 6110.	5.8	6
11	Discovery of an exosite on the SOCS2-SH2 domain that enhances SH2 binding to phosphorylated ligands. <i>Nature Communications</i> , 2021, 12, 7032.	5.8	8
12	Ptpn6 inhibits caspase-8- and Ripk3/Mlkl-dependent inflammation. <i>Nature Immunology</i> , 2020, 21, 54-64.	7.0	33
13	NK cell-derived GM-CSF potentiates inflammatory arthritis and is negatively regulated by CIS. <i>Journal of Experimental Medicine</i> , 2020, 217, .	4.2	60
14	Physiochemical Characterization and Stability of Lipidic Cubic Phases by Solution NMR. <i>Langmuir</i> , 2020, 36, 6254-6260.	1.6	8
15	Heteronuclear NMR spectroscopy of proteins encapsulated in cubic phase lipids. <i>Journal of Magnetic Resonance</i> , 2019, 305, 146-151.	1.2	11
16	Functional rare and low frequency variants in BLK and BANK1 contribute to human lupus. <i>Nature Communications</i> , 2019, 10, 2201.	5.8	73
17	Enzymatic Characterization of Wild-Type and Mutant Janus Kinase 1. <i>Cancers</i> , 2019, 11, 1701.	1.7	10
18	Membrane-associated RING-CH (MARCH) proteins down-regulate cell surface expression of the interleukin-6 receptor alpha chain (IL6RI $\alpha$ ). <i>Biochemical Journal</i> , 2019, 476, 2869-2882.	1.7	7

#	ARTICLE	IF	CITATIONS
19	The molecular basis of JAK/STAT inhibition by SOCS1. <i>Nature Communications</i> , 2018, 9, 1558.	5.8	298
20	Identification of a second binding site on the TRIM25 B30.2 domain. <i>Biochemical Journal</i> , 2018, 475, 429-440.	1.7	11
21	Expression and Purification of JAK1 and SOCS1 for Structural and Biochemical Studies. <i>Methods in Molecular Biology</i> , 2018, 1725, 267-280.	0.4	4
22	Accumulation of JAK activation loop phosphorylation is linked to type I JAK inhibitor withdrawal syndrome in myelofibrosis. <i>Science Advances</i> , 2018, 4, eaat3834.	4.7	39
23	The molecular details of cytokine signaling via the JAK/STAT pathway. <i>Protein Science</i> , 2018, 27, 1984-2009.	3.1	485
24	Measuring translational diffusion of <sup>15</sup> N-enriched biomolecules in complex solutions with a simplified <sup>1</sup> H- <sup>15</sup> N HMQC-filtered BEST sequence. <i>European Biophysics Journal</i> , 2018, 47, 891-902.	1.2	9
25	Cortical Layer Inversion and Deregulation of Reelin Signaling in the Absence of SOCS6 and SOCS7. <i>Cerebral Cortex</i> , 2017, 27, bhv253.	1.6	13
26	Purification of SOCS (Suppressor of Cytokine Signaling) SH2 Domains for Structural and Functional Studies. <i>Methods in Molecular Biology</i> , 2017, 1555, 173-182.	0.4	7
27	TGF- $\beta^2$ and IL-6 family signalling crosstalk: an integrated model. <i>Growth Factors</i> , 2017, 35, 100-124.	0.5	7
28	Suppressor of cytokine signaling (SOCS)5 ameliorates influenza infection via inhibition of EGFR signaling. <i>ELife</i> , 2017, 6, .	2.8	61
29	CIS is a potent checkpoint in NK cell-mediated tumor immunity. <i>Nature Immunology</i> , 2016, 17, 816-824.	7.0	289
30	JAK1 Takes a FERM Hold of Type II Cytokine Receptors. <i>Structure</i> , 2016, 24, 840-842.	1.6	6
31	Export of malaria proteins requires co-translational processing of the PEXEL motif independent of phosphatidylinositol-3-phosphate binding. <i>Nature Communications</i> , 2016, 7, 10470.	5.8	65
32	Attenuation of AMPK signaling by ROQUIN promotes T follicular helper cell formation. <i>ELife</i> , 2015, 4, .	2.8	52
33	Roquin binds microRNA-146a and Argonaute2 to regulate microRNA homeostasis. <i>Nature Communications</i> , 2015, 6, 6253.	5.8	59
34	Structure and Functional Characterization of the Conserved JAK Interaction Region in the Intrinsically Disordered N-Terminus of SOCS5. <i>Biochemistry</i> , 2015, 54, 4672-4682.	1.2	14
35	VHL: Cullin-g the Hypoxic Response. <i>Structure</i> , 2015, 23, 435-436.	1.6	5
36	Leukemia inhibitory factor (LIF). <i>Cytokine and Growth Factor Reviews</i> , 2015, 26, 533-544.	3.2	320

#	ARTICLE	IF	CITATIONS
37	Insights into the evolution of divergent nucleotide-binding mechanisms among pseudokinases revealed by crystal structures of human and mouse MLKL. <i>Biochemical Journal</i> , 2014, 457, 369-377.	1.7	92
38	Mechanistic insights into activation and SOCS3-mediated inhibition of myeloproliferative neoplasm-associated JAK2 mutants from biochemical and structural analyses. <i>Biochemical Journal</i> , 2014, 458, 395-405.	1.7	33
39	Functional characterization of c-Mpl ectodomain mutations that underlie congenital amegakaryocytic thrombocytopenia. <i>Growth Factors</i> , 2014, 32, 18-26.	0.5	16
40	A robust methodology to subclassify pseudokinases based on their nucleotide-binding properties. <i>Biochemical Journal</i> , 2014, 457, 323-334.	1.7	241
41	Inhibition of IL-6 family cytokines by SOCS3. <i>Seminars in Immunology</i> , 2014, 26, 13-19.	2.7	157
42	NMR studies of interactions between Bax and BH3 domain-containing peptides in the absence and presence of CHAPS. <i>Archives of Biochemistry and Biophysics</i> , 2014, 545, 33-43.	1.4	11
43	Activation of the pseudokinase MLKL unleashes the four-helix bundle domain to induce membrane localization and necroptotic cell death. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 15072-15077.	3.3	484
44	The molecular regulation of Janus kinase (JAK) activation. <i>Biochemical Journal</i> , 2014, 462, 1-13.	1.7	251
45	Reconstruction of an active SOCS3-based E3 ubiquitin ligase complex in vitro: identification of the active components and JAK2 and gp130 as substrates. <i>Growth Factors</i> , 2014, 32, 1-10.	0.5	35
46	A Two-Site Interaction Underpins TRIM25 Activation of the RIG-I Anti-Viral Response. <i>Blood</i> , 2014, 124, 1580-1580.	0.6	1
47	The Pseudokinase MLKL Mediates Necroptosis via a Molecular Switch Mechanism. <i>Immunity</i> , 2013, 39, 443-453.	6.6	958
48	Structure and function of the SPRY/B30.2 domain proteins involved in innate immunity. <i>Protein Science</i> , 2013, 22, 1-10.	3.1	109
49	Molecular Architecture of the Ankyrin SOCS Box Family of Cul5-Dependent E3 Ubiquitin Ligases. <i>Journal of Molecular Biology</i> , 2013, 425, 3166-3177.	2.0	31
50	SOCS3 binds specific receptor-JAK complexes to control cytokine signaling by direct kinase inhibition. <i>Nature Structural and Molecular Biology</i> , 2013, 20, 469-476.	3.6	229
51	In Vitro JAK Kinase Activity and Inhibition Assays. <i>Methods in Molecular Biology</i> , 2013, 967, 39-55.	0.4	16
52	In Vitro Ubiquitination of Cytokine Signaling Components. <i>Methods in Molecular Biology</i> , 2013, 967, 261-271.	0.4	4
53	Quantitative Analysis of JAK Binding Using Isothermal Titration Calorimetry and Surface Plasmon Resonance. <i>Methods in Molecular Biology</i> , 2013, 967, 57-67.	0.4	2
54	Suppression of cytokine signaling: The SOCS perspective. <i>Cytokine and Growth Factor Reviews</i> , 2013, 24, 241-248.	3.2	165

#	ARTICLE	IF	CITATIONS
55	Crystal structure of the TRIM25 B30.2 (PRYSPRY) domain: a key component of antiviral signalling. <i>Biochemical Journal</i> , 2013, 456, 231-240.	1.7	42
56	Regulation of Janus kinases by SOCS proteins. <i>Biochemical Society Transactions</i> , 2013, 41, 1042-1047.	1.6	62
57	Techniques to examine nucleotide binding by pseudokinases. <i>Biochemical Society Transactions</i> , 2013, 41, 975-980.	1.6	15
58	Suppressor of Cytokine Signaling (SOCS) 5 Utilises Distinct Domains for Regulation of JAK1 and Interaction with the Adaptor Protein Shc-1. <i>PLoS ONE</i> , 2013, 8, e70536.	1.1	42
59	The biology and mechanism of action of suppressor of cytokine signaling 3. <i>Growth Factors</i> , 2012, 30, 207-219.	0.5	101
60	Suppression of Cytokine Signaling by SOCS3: Characterization of the Mode of Inhibition and the Basis of Its Specificity. <i>Immunity</i> , 2012, 36, 239-250.	6.6	240
61	Neutrophils Require SHP1 To Regulate IL-1 $\beta$ Production and Prevent Inflammatory Skin Disease. <i>Journal of Immunology</i> , 2011, 186, 1131-1139.	0.4	40
62	The SPRY domain-containing SOCS box protein SPSB2 targets iNOS for proteasomal degradation. <i>Journal of Cell Biology</i> , 2010, 190, 129-141.	2.3	88
63	Heterodimerization of the human RNase P/MRP subunits Rpp20 and Rpp25 is a prerequisite for interaction with the P3 arm of RNase MRP RNA. <i>Nucleic Acids Research</i> , 2010, 38, 4052-4066.	6.5	31
64	The SPRY domain-containing SOCS box protein SPSB2 targets iNOS for proteasomal degradation. <i>Journal of Experimental Medicine</i> , 2010, 207, i22-i22.	4.2	0
65	Deletion of the SOCS box of suppressor of cytokine signaling 3 (SOCS3) in embryonic stem cells reveals SOCS box-dependent regulation of JAK but not STAT phosphorylation. <i>Cellular Signalling</i> , 2009, 21, 394-404.	1.7	57
66	The SOCS Box Encodes a Hierarchy of Affinities for Cullin5: Implications for Ubiquitin Ligase Formation and Cytokine Signalling Suppression. <i>Journal of Molecular Biology</i> , 2009, 387, 162-174.	2.0	117
67	Protein effective rotational correlation times from translational self-diffusion coefficients measured by PFG-NMR. <i>Biophysical Chemistry</i> , 2008, 136, 145-151.	1.5	36
68	Stabilization of Neurotoxic Soluble $\beta$ -Sheet-Rich Conformations of the Alzheimer's Disease Amyloid- $\beta$ Peptide. <i>Biophysical Journal</i> , 2008, 94, 2752-2766.	0.2	87
69	The SOCS Box Domain of SOCS3: Structure and Interaction with the ElonginBC-Cullin5 Ubiquitin Ligase. <i>Journal of Molecular Biology</i> , 2008, 381, 928-940.	2.0	91
70	Structure and Sodium Channel Activity of an Excitatory $\text{K}^+$ -Superfamily Conotoxin. <i>Biochemistry</i> , 2007, 46, 9929-9940.	1.2	78
71	Structural studies on Plasmodium vivax merozoite surface protein-1. <i>Molecular and Biochemical Parasitology</i> , 2007, 153, 31-40.	0.5	40
72	Structure of the Eukaryotic Initiation Factor (eIF) 5 Reveals a Fold Common to Several Translation Factors. <i>Biochemistry</i> , 2006, 45, 4550-4558.	1.2	53

#	ARTICLE	IF	CITATIONS
73	The Structure of SOCS3 Reveals the Basis of the Extended SH2 Domain Function and Identifies an Unstructured Insertion That Regulates Stability. <i>Molecular Cell</i> , 2006, 22, 205-216.	4.5	140
74	The SPRY domain of SSB-2 adopts a novel fold that presents conserved Par-4 binding residues. <i>Nature Structural and Molecular Biology</i> , 2006, 13, 77-84.	3.6	72
75	Dynamics of the SPRY domain-containing SOCS box protein 2: Flexibility of key functional loops. <i>Protein Science</i> , 2006, 15, 2761-2772.	3.1	14
76	Resonance assignment for the N-terminal region of the eukaryotic initiation factor 5 (eIF5). <i>Journal of Biomolecular NMR</i> , 2006, 36, 42-42.	1.6	0
77	Secondary structure assignment of mouse SOCS3 by NMR defines the domain boundaries and identifies an unstructured insertion in the SH2 domain. <i>FEBS Journal</i> , 2005, 272, 6120-6130.	2.2	45
78	Letter to the Editor: Backbone <sup>1</sup> H, <sup>13</sup> C and <sup>15</sup> N assignments of the 25 kDa SPRY domain-containing SOCS box protein 2 (SSB-2). <i>Journal of Biomolecular NMR</i> , 2005, 31, 69-70.	1.6	14
79	Bass Hecpudin Synthesis, Solution Structure, Antimicrobial Activities and Synergism, and in Vivo Hepatic Response to Bacterial Infections. <i>Journal of Biological Chemistry</i> , 2005, 280, 9272-9282.	1.6	179
80	Structure and Inter-domain Interactions of Domain II from the Blood-stage Malarial Protein, Apical Membrane Antigen 1. <i>Journal of Molecular Biology</i> , 2005, 350, 641-656.	2.0	30
81	Structural analysis of cooperative RNA binding by the La motif and central RRM domain of human La protein. <i>Nature Structural and Molecular Biology</i> , 2004, 11, 323-329.	3.6	128
82	Letter to the Editor: Resonance Assignment and Secondary Structure of the La Motif. <i>Journal of Biomolecular NMR</i> , 2004, 29, 449-450.	1.6	5
83	Novel TP53 gene mutations in tumors of Russian patients with breast cancer detected using a new solid phase chemical cleavage of mismatch method and identified by sequencing. <i>Human Mutation</i> , 2004, 23, 186-192.	1.1	12
84	The Use of Resolvases T4 Endonuclease VII and T7 Endonuclease I in Mutation Detection. <i>Molecular Biotechnology</i> , 2003, 23, 73-82.	1.3	57
85	Resonance assignment and secondary structure of an N-terminal fragment of the human La protein. <i>Journal of Biomolecular NMR</i> , 2003, 27, 93-94.	1.6	16
86	Structure of the C-Terminal Domain of Human La Protein Reveals a Novel RNA Recognition Motif Coupled to a Helical Nuclear Retention Element. <i>Structure</i> , 2003, 11, 833-843.	1.6	96
87	Chemical cleavage reactions of DNA on solid support: application in mutation detection. <i>BMC Chemical Biology</i> , 2003, 3, 1.	1.6	12
88	Mutations in the COL4A4 gene in thin basement membrane disease. <i>Kidney International</i> , 2003, 63, 447-453.	2.6	65
89	Suramin and Suramin Analogues Inhibit Merozoite Surface Protein-1 Secondary Processing and Erythrocyte Invasion by the Malaria Parasite <i>Plasmodium falciparum</i> . <i>Journal of Biological Chemistry</i> , 2003, 278, 47670-47677.	1.6	52
90	COL4A4 mutation in thin basement membrane disease previously described in Alport syndrome. See Editorial by Monnens, p. 799. <i>Kidney International</i> , 2001, 60, 480-483.	2.6	70

#	ARTICLE	IF	CITATIONS
91	Interaction of linear homologous DNA duplexes via Holliday junction formation. FEBS Journal, 2001, 268, 7-14.	0.2	18
92	The Use of Resolvases T4 Endonuclease VII and T7 Endonuclease I in Mutation Detection. , 2000, 152, 187-199.		2
93	Reactivity of potassium permanganate and tetraethylammonium chloride with mismatched bases and a simple mutation detection protocol. Nucleic Acids Research, 1999, 27, 1866-1874.	6.5	29
94	Mutation detection using fluorescent enzyme mismatch cleavage with T4 endonuclease VII. Electrophoresis, 1999, 20, 1162-1170.	1.3	21
95	Evolution of Transthyretin in Marsupials. FEBS Journal, 1995, 227, 396-406.	0.2	35
96	Improved strategy for mutation detection—a modification to the enzyme mismatch cleavage method. Nucleic Acids Research, 1995, 23, 5082-5084.	6.5	27