Fred Schaper

List of Publications by Year
in descending order

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94 papers	10,455 citations	76326 40 h-index	48315 88 g-index
96 all docs	96 docs citations	96 times ranked	13561 citing authors

#	Article	IF	Citations
1	Principles of interleukin (IL)-6-type cytokine signalling and its regulation. Biochemical Journal, 2003, 374, 1-20.	3.7	2,784
2	Interleukin-6-type cytokine signalling through the gp130/Jak/STAT pathway. Biochemical Journal, 1998, 334, 297-314.	3.7	1,895
3	Interleukin-6: Biology, signaling and strategies of blockade. Cytokine and Growth Factor Reviews, 2015, 26, 475-487.	7.2	396
4	SOCS3 Exerts Its Inhibitory Function on Interleukin-6 Signal Transduction through the SHP2 Recruitment Site of gp130. Journal of Biological Chemistry, 2000, 275, 12848-12856.	3.4	345
5	Plasticity and cross-talk of Interleukin 6-type cytokines. Cytokine and Growth Factor Reviews, 2012, 23, 85-97.	7.2	311
6	Hepatic acute phase proteins â€“ Regulation by IL-6- and IL-1-type cytokines involving STAT3 and its crosstalk with NF-ÎºB-dependent signaling. European Journal of Cell Biology, 2012, 91, 496-505.	3.6	306
7	Activation of STAT3 by IL-6 and IL-10 in Primary Human Macrophages Is Differentially Modulated by Suppressor of Cytokine Signaling 3. Journal of Immunology, 2003, 170, 3263-3272.	0.8	296
8	IFNâ€Î± antagonistic activity of HCV core protein involves induction of suppressor of cytokine signalingâ€3. FASEB Journal, 2003, 17, 1-16.	0.5	267
9	SHP2 and SOCS3 Contribute to Tyr-759-dependent Attenuation of Interleukin-6 Signaling through gp130. Journal of Biological Chemistry, 2003, 278, 661-671.	3.4	201
10	LPS and TNFÎ± induce SOCS3 mRNA and inhibit IL-6-induced activation of STAT3 in macrophages. FEBS Letters, 1999, 463, 365-370.	2.8	186
11	Activation of the protein tyrosine phosphatase SHP2 via the interleukin-6 signal transducing receptor protein gp130 requires tyrosine kinase Jak1 and limits acute-phase protein expression. Biochemical Journal, 1998, 335, 557-565.	3.7	164
12	Phosphorylation Events Modulate the Ability of Interferon Consensus Sequence Binding Protein to Interact with Interferon Regulatory Factors and to Bind DNA. Journal of Biological Chemistry, 1997, 272, 9785-9792.	3.4	151
13	Interferon regulatory factor 1 (IRF-1) mediates cell growth inhibition by transactivation of downstream target genes. Nucleic Acids Research, 1993, 21, 2881-2889.	14.5	140
14	Expression of suppressors of cytokine signaling during liver regeneration. Journal of Clinical Investigation, 2001, 107, 1285-1292.	8.2	140
15	Interleukin-6 signalling: More than Jaks and STATs. European Journal of Cell Biology, 2012, 91, 486-495.	3.6	137
16	The zinc finger protein Gfi-1 can enhance STAT3 signaling by interacting with the STAT3 inhibitor PIAS3. EMBO Journal, 2000, 19, 5845-5855.	7.8	120
17	Different protein turnover of interleukin-6-type cytokine signalling components. FEBS Journal, 1999, 265, 251-257.	0.2	103
18	Regulation of Suppressor of Cytokine Signaling 3 (SOCS3) mRNA Stability by TNF-Î± Involves Activation of the MKK6/p38MAPK/MK2 Cascade. Journal of Immunology, 2007, 178, 2813-2826.	0.8	101

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19	Interleukin-6 is a direct mediator of Tâ€„cell migration. European Journal of Immunology, 2004, 34, 2895-2906.	2.9	91
20	Cross-regulation of cytokine signalling: pro-inflammatory cytokines restrict IL-6 signalling through receptor internalisation and degradation. Journal of Cell Science, 2010, 123, 947-959.	2.0	90
21	Response to IL-6 trans- and IL-6 classic signalling is determined by the ratio of the IL-6 receptor Î± to gp130 expression: fusing experimental insights and dynamic modelling. Cell Communication and Signaling, 2019, 17, 46.	6.5	89
22	mTORC1 inhibition restricts inflammation-associated gastrointestinal tumorigenesis in mice. Journal of Clinical Investigation, 2013, 123, 767-81.	8.2	89
23	Functional domains of interferon regulatory factor I (IRF-1). Biochemical Journal, 1998, 335, 147-157.	3.7	87
24	The Cytoplasmic Tyrosine Motifs in Full-Length Glycoprotein 130 Have Different Roles in IL-6 Signal Transduction. Journal of Immunology, 2000, 164, 848-854.	0.8	80
25	Interleukin-6 acts in the fashion of a classical chemokine on monocytic cells by inducing integrin activation, cell adhesion, actin polymerization, chemotaxis, and transmigration. Journal of Leukocyte Biology, 2008, 84, 1521-1529.	3.3	79
26	Non-redundant Signal Transduction of Interleukin-6-type Cytokines. Journal of Biological Chemistry, 2000, 275, 40742-40748.	3.4	70
27	Cytoplasmic STAT proteins associate prior to activation. Biochemical Journal, 2000, 345, 417-421.	3.7	65
28	The Inhibition of Interleukin-6-dependent STAT Activation by Mitogen-activated Protein Kinases Depends on Tyrosine 759 in the Cytoplasmic Tail of Glycoprotein 130. Journal of Biological Chemistry, 2000, 275, 18810-18817.	3.4	65
29	The role of the inhibitors of interleukin-6 signal transduction SHP2 and SOCS3 for desensitization of interleukin-6 signalling. Biochemical Journal, 2004, 378, 449-460.	3.7	62
30	The MKK6/p38 Mitogen-Activated Protein Kinase Pathway Is Capable of Inducing SOCS3 Gene Expression and Inhibits IL-6-Induced Transcription. Biological Chemistry, 2001, 382, 1447-53.	2.5	53
31	Activation of NF-Î³B by IL-1Î² blocks IL-6-induced sustained STAT3 activation and STAT3-dependent gene expression of the human Î³-fibrinogen gene. Cellular Signalling, 2007, 19, 1866-1878.	3.6	50
32	A new mechanism for the regulation of Gab1 recruitment to the plasma membrane. Journal of Cell Science, 2009, 122, 55-64.	2.0	50
33	Signal Transduction of IL-6, Leukemia-Inhibitory Factor, and Oncostatin M: Structural Receptor Requirements for Signal Attenuation. Journal of Immunology, 2000, 165, 2535-2543.	0.8	49
34	TNF-Î± Induces Tyrosine Phosphorylation and Recruitment of the Src Homology Protein-Tyrosine Phosphatase 2 to the gp130 Signal-Transducing Subunit of the IL-6 Receptor Complex. Journal of Immunology, 2003, 171, 257-266.	0.8	49
35	Mammary Gland Remodeling Depends on gp130 Signaling through Stat3 and MAPK. Journal of Biological Chemistry, 2004, 279, 44093-44100.	3.4	48
36	Regulation of rat heme oxygenase-1 expression by interleukin-6 via the Jak/STAT pathway in hepatocytes. Journal of Hepatology, 2006, 45, 72-80.	3.7	48

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37	Characterization and Binding Specificity of the Monomeric STAT3-SH2 Domain. Journal of Biological Chemistry, 1999, 274, 1342-1348.	3.4	47
38	The Inhibitory Effect of IL-1Î² on IL-6-Induced Î±2-Macroglobulin Expression Is Due to Activation of NF-ÎºB. Journal of Immunology, 2001, 167, 1469-1481.	0.8	47
39	Hepatocyte growth factor/scatter factor (HGF/SF) signals via the STAT3/APRF transcription factor in human hepatoma cells and hepatocytes. FEBS Letters, 1997, 405, 99-103.	2.8	45
40	Glucocorticoids increase interleukin-6-dependent gene induction by interfering with the expression of the suppressor of cytokine signaling 3 feedback inhibitor. Hepatology, 2012, 55, 256-266.	7.3	42
41	Constitutive internalization and association with adaptor protein-2 of the interleukin-6 signal transducer gp130. FEBS Letters, 1998, 441, 231-234.	2.8	41
42	Interleukin-6 influences stress-signalling by reducing the expression of the mTOR-inhibitor REDD1 in a STAT3-dependent manner. Cellular Signalling, 2016, 28, 907-916.	3.6	40
43	A multifunctional vector family for gene expression in mammalian cells. Gene, 1994, 149, 387-388.	2.2	37
44	Studies on the Interleukin-6-type Cytokine Signal Transducer gp130 Reveal a Novel Mechanism of Receptor Activation by Monoclonal Antibodies. Journal of Biological Chemistry, 2000, 275, 4579-4586.	3.4	37
45	Mechanisms of SOCS3 Phosphorylation upon Interleukin-6 Stimulation. Journal of Biological Chemistry, 2005, 280, 31478-31488.	3.4	36
46	Interleukin-6 plays a crucial role in the hepatic expression of SOCS3 during acute inflammatory processes in vivo. Journal of Hepatology, 2005, 43, 704-710.	3.7	36
47	Oncostatin M Receptor-mediated Signal Transduction Is Negatively Regulated by SOCS3 through a Receptor Tyrosine-independent Mechanism. Journal of Biological Chemistry, 2006, 281, 8458-8468.	3.4	35
48	Robustness and Information Transfer within IL-6-induced JAK/STAT Signalling. Communications Biology, 2019, 2, 27.	4.4	34
49	Identification of mammalian cell clones exhibiting highly regulated expression from inducible promoters. Trends in Genetics, 1995, 11, 219-220.	6.7	33
50	Systems biology of IL-6, IL-12 family cytokines. Cytokine and Growth Factor Reviews, 2015, 26, 595-602.	7.2	32
51	A completely foreign receptor can mediate an interferon-gamma-like response. EMBO Journal, 2001, 20, 5431-5442.	7.8	30
52	Regulation of cell growth by IRF-1 in BHK-21 cells. Cytotechnology, 1996, 22, 147-156.	1.6	29
53	Interleukin-6-induced proliferation of pre-B cells mediated by receptor complexes lacking the SHP2/SOCS3 recruitment sites revisited. FEBS Journal, 2001, 268, 6401-6407.	0.2	29
54	A simple work flow for biologically inspired model reduction - application to early JAK-STAT signaling. BMC Systems Biology, 2011, 5, 30.	3.0	29

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55	Model-driven experimental analysis of the function of SHP-2 in IL-6-induced Jak/STAT signaling. Molecular BioSystems, 2012, 8, 2119.	2.9	28
56	JAK/STAT signalling â€“ an executable model assembled from molecule-centred modules demonstrating a module-oriented database concept for systems and synthetic biology. Molecular BioSystems, 2013, 9, 1290.	2.9	27
57	SHPS-1/SIRP1Î± contributes to interleukin-6 signalling. Cellular Signalling, 2008, 20, 1385-1391.	3.6	26
58	Prostaglandin E1 inhibits IL-6-induced MCP-1 expression by interfering specifically in IL-6-dependent ERK1/2, but not STAT3, activation. Biochemical Journal, 2008, 412, 65-72.	3.7	26
59	Identification of a Leu-Ile internalization motif within the cytoplasmic domain of the leukaemia inhibitory factor receptor. Biochemical Journal, 1999, 339, 15-19.	3.7	25
60	Self-Organization and Regulation of Intrinsically Disordered Proteins with Folded N-Termini. PLoS Biology, 2011, 9, e1000591.	5.6	25
61	Interaction of suppressor of cytokine signalling 3 with cavin-1 links SOCS3 function and cavin-1 stability. Nature Communications, 2018, 9, 168.	12.8	25
62	The tyrosine phosphatase SHP2 increases robustness and information transfer within IL-6-induced JAK/STAT signalling. Cell Communication and Signaling, 2021, 19, 94.	6.5	25
63	Dual Function of Interleukin-1Î² for the Regulation of Interleukin-6-induced Suppressor of Cytokine Signaling 3 Expression. Journal of Biological Chemistry, 2004, 279, 45279-45289.	3.4	24
64	Cytoplasmic STAT proteins associate prior to activation. Biochemical Journal, 2000, 345, 417.	3.7	23
65	â€œFamily reunionâ€•â€“ A structured view on the composition of the receptor complexes of interleukin-6-type and interleukin-12-type cytokines. Cytokine and Growth Factor Reviews, 2015, 26, 471-474.	7.2	23
66	Large-scale network models of IL-1 and IL-6 signalling and their hepatocellular specification. Molecular BioSystems, 2011, 7, 3253.	2.9	22
67	JAK2-V617F-induced MAPK activity is regulated by PI3K and acts synergistically with PI3K on the proliferation of JAK2-V617F-positive cells. Jak-stat, 2013, 2, e24574.	2.2	22
68	Proliferation control of mammalian cells by the tumor suppressor IRF-1. Cytotechnology, 1995, 18, 67-75.	1.6	19
69	In vivo formation of IRF-1 homodimers. Biochimie, 1998, 80, 659-664.	2.6	19
70	The multi-site docking protein Grb2-associated binder 1 (Gab1) enhances interleukin-6-induced MAPK-pathway activation in an SHP2-, Grb2-, and time-dependent manner. Cell Communication and Signaling, 2019, 17, 135.	6.5	19
71	Protein tyrosine phosphatase SHP2/PTPN11 mistargeting as a consequence of SH2-domain point mutations associated with Noonan Syndrome and leukemia. Journal of Proteomics, 2013, 84, 132-147.	2.4	18
72	A new peptide-affinity tag for the detection and affinity purification of recombinant proteins with a monoclonal antibody. Journal of Immunological Methods, 2000, 240, 165-183.	1.4	17

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73	The tyrosine 974 within the LIF-R-chain of the gp130/LIF-R heteromeric receptor complex mediates negative regulation of LIF signalling. Cellular Signalling, 2005, 17, 559-569.	3.6	17
74	A new hybrid promoter directs transcription at identical start points in mammalian cells and in vitro. Gene, 1994, 149, 389-390.	2.2	13
75	Glucagon counteracts interleukin-6-dependent gene expression by redundant action of Epac and PKA. Biological Chemistry, 2011, 392, 1123-1134.	2.5	13
76	Determinants governing the potency of STAT3 activation via the individual STAT3-recruiting motifs of gp130. Cellular Signalling, 2006, 18, 40-49.	3.6	12
77	MAPK-induced Gab1 translocation to the plasma membrane depends on a regulated intramolecular switch. Cellular Signalling, 2015, 27, 340-352.	3.6	12
78	The multi-site docking protein Gab1 is constitutively phosphorylated independent from its recruitment to the plasma membrane in Jak2-V617F-positive cells and mediates proliferation of human erythroleukaemia cells. Cellular Signalling, 2017, 35, 37-47.	3.6	10
79	Intragenic regulation of SOCS3 isoforms. Cell Communication and Signaling, 2019, 17, 70.	6.5	10
80	Differential inhibition of IL-6-type cytokine-induced STAT activation by PMA. FEBS Letters, 2000, 478, 100-104.	2.8	8
81	Identification of a Leu-Ile internalization motif within the cytoplasmic domain of the leukaemia inhibitory factor receptor. Biochemical Journal, 1999, 339, 15.	3.7	6
82	Termination and modulation of IL-6-type cytokine signaling. Advances in Experimental Medicine and Biology, 2001, 495, 153-160.	1.6	6
83	Glucocorticoids attenuate interleukinâ€6â€induced câ€Fos and Egr1 expression and impair neuritogenesis in PC12 cells. Journal of Neurochemistry, 2021, 157, 532-549.	3.9	5
84	Signal Transductionâ€"Receptors, Mediators, and GenesA report on the 12th Joint Meeting of the Signal Transduction Society, Weimar, Germany, 28 to 31 October 2008.. Science Signaling, 2009, 2, mr3.	3.6	3
85	Determination of Protein Turnover Rates in the JAK/STAT Pathway Using a Radioactive Pulse-Chase Approach. Methods in Molecular Biology, 2013, 967, 69-80.	0.9	3
86	A Two-level Approach for Fusing Early Signaling Events and Long Term Cellular Responses. IFAC-PapersOnLine, 2015, 48, 1228-1233.	0.9	3
87	Designing Optimal Experiments to Discriminate Interaction Graph Models. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2019, 16, 925-935.	3.0	1
88	Glucagon counteracts interleukin-6 dependent gene expression by redundant action of Epac and PKA. Biological Chemistry, 0, , ---.	2.5	1
89	IL-6-type cytokines and signalling in inflammation. , 2002, , 256-262.		0
90	A new mechanism for the regulation of Gab1 recruitment to the plasma membrane. Journal of Cell Science, 2009, 122, 574-574.	2.0	0

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91	Signal Transduction in the Footsteps of Goethe and Schiller. Cell Communication and Signaling, 2009, 7, 2.	6.5	0
92	Self-organization of intrinsically disordered proteins with folded N-termini. Nature Precedings, 2010, , .	0.1	0
93	Structural Bases of Receptor-JAK-STAT Interactions. , 2003, , 43-53.		0
94	Proliferation control of mammalian cells by the tumor suppressor IRF-1. , 1995, , 33-43.		0