

Gerhard MÃ¼ller-Newen

List of Publications by Year in descending order

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76
papers

8,403
citations

136950

32
h-index

79698

73
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79
all docs

79
docs citations

79
times ranked

12257
citing authors

#	ARTICLE	IF	CITATIONS
1	Principles of interleukin (IL)-6-type cytokine signalling and its regulation. <i>Biochemical Journal</i> , 2003, 374, 1-20.	3.7	2,784
2	Interleukin-6-type cytokine signalling through the gp130/Jak/STAT pathway. <i>Biochemical Journal</i> , 1998, 334, 297-314.	3.7	1,895
3	Oncostatin M drives intestinal inflammation and predicts response to tumor necrosis factor- α neutralizing therapy in patients with inflammatory bowel disease. <i>Nature Medicine</i> , 2017, 23, 579-589.	30.7	571
4	Plasticity and cross-talk of Interleukin 6-type cytokines. <i>Cytokine and Growth Factor Reviews</i> , 2012, 23, 85-97.	7.2	311
5	Cli1 + Mesenchymal Stromal Cells Are a Key Driver of Bone Marrow Fibrosis and an Important Cellular Therapeutic Target. <i>Cell Stem Cell</i> , 2017, 20, 785-800.e8.	11.1	195
6	Loss of Androgen Receptor Expression Promotes a Stem-like Cell Phenotype in Prostate Cancer through STAT3 Signaling. <i>Cancer Research</i> , 2014, 74, 1227-1237.	0.9	169
7	MIF interacts with CXCR7 to promote receptor internalization, ERK1/2 and ZAP-70 signaling, and lymphocyte chemotaxis. <i>FASEB Journal</i> , 2015, 29, 4497-4511.	0.5	129
8	Real Time Analysis of STAT3 Nucleocytoplasmic Shuttling. <i>Journal of Biological Chemistry</i> , 2004, 279, 15114-15123.	3.4	127
9	Proteolytic Cleavage Governs Interleukin-11 Trans-signaling. <i>Cell Reports</i> , 2016, 14, 1761-1773.	6.4	104
10	Interleukin-6 signal transducer gp130 has specific binding sites for different cytokines as determined by antagonistic and agonistic anti-gp130 monoclonal antibodies. <i>European Journal of Immunology</i> , 1995, 25, 3474-3481.	2.9	92
11	Nucleocytoplasmic shuttling of persistently activated STAT3. <i>Journal of Cell Science</i> , 2007, 120, 3249-3261.	2.0	89
12	Soluble Human Interleukin-6 Receptor. Expression in Insect Cells, Purification and Characterization. <i>FEBS Journal</i> , 1995, 234, 661-669.	0.2	85
13	The Cytoplasmic Tyrosine Motifs in Full-Length Glycoprotein 130 Have Different Roles in IL-6 Signal Transduction. <i>Journal of Immunology</i> , 2000, 164, 848-854.	0.8	80
14	Dynamics and non-canonical aspects of JAK/STAT signalling. <i>European Journal of Cell Biology</i> , 2012, 91, 524-532.	3.6	80
15	Activation of the signal transducer gp130 by interleukin-11 and interleukin-6 is mediated by similar molecular interactions. <i>Biochemical Journal</i> , 1998, 331, 695-702.	3.7	77
16	Dimerization of the cytokine receptors gp130 and LIFR analysed in single cells. <i>Journal of Cell Science</i> , 2005, 118, 5129-5140.	2.0	74
17	Mutations in the interleukin receptor <i>IL-11RA</i> cause autosomal recessive Crozon-like craniosynostosis. <i>Molecular Genetics & Genomic Medicine</i> , 2013, 1, 223-237.	1.2	70
18	mTOR-mediated podocyte hypertrophy regulates glomerular integrity in mice and humans. <i>JCI Insight</i> , 2019, 4, .	5.0	69

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19	Molecular Modeling-guided Mutagenesis of the Extracellular Part of gp130 Leads to the Identification of Contact Sites in the Interleukin-6 (IL-6)-IL-6 receptor-gp130 Complex. <i>Journal of Biological Chemistry</i> , 1997, 272, 23748-23757.	3.4	68
20	Cyclin E1 and cyclin-dependent kinase 2 are critical for initiation, but not for progression of hepatocellular carcinoma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 9282-9287.	7.1	68
21	Importance of the Membrane-Proximal Extracellular Domains for Activation of the Signal Transducer Glycoprotein 130. <i>Journal of Immunology</i> , 2000, 164, 273-282.	0.8	67
22	The role of the N-terminal domain in dimerization and nucleocytoplasmic shuttling of latent STAT3. <i>Journal of Cell Science</i> , 2011, 124, 900-909.	2.0	66
23	STAT3 is enriched in nuclear bodies. <i>Journal of Cell Science</i> , 2004, 117, 339-349.	2.0	58
24	The Cytokine Receptor gp130: Faithfully Promiscuous. <i>Science Signaling</i> , 2003, 2003, pe40-pe40.	3.6	49
25	Long Term Association of the Cytokine Receptor gp130 and the Janus Kinase Jak1 Revealed by FRAP Analysis. <i>Journal of Biological Chemistry</i> , 2003, 278, 39205-39213.	3.4	46
26	A fusion protein of interleukin-11 and soluble interleukin-11 receptor acts as a superagonist on cells expressing gp130. <i>FEBS Letters</i> , 1999, 450, 117-122.	2.8	45
27	JAK2V617F but not CALR mutations confer increased molecular responses to interferon- β via JAK1/STAT1 activation. <i>Leukemia</i> , 2019, 33, 995-1010.	7.2	43
28	Constitutive internalization and association with adaptor protein-2 of the interleukin-6 signal transducer gp130. <i>FEBS Letters</i> , 1998, 441, 231-234.	2.8	41
29	Splice Variants of the Dual Specificity Tyrosine Phosphorylation-regulated Kinase 4 (DYRK4) Differ in Their Subcellular Localization and Catalytic Activity*. <i>Journal of Biological Chemistry</i> , 2011, 286, 5494-5505.	3.4	41
30	Two Different Epitopes of the Signal Transducer gp130 Sequentially Cooperate on IL-6-Induced Receptor Activation. <i>Journal of Immunology</i> , 2000, 165, 7042-7049.	0.8	39
31	Studies on the Interleukin-6-type Cytokine Signal Transducer gp130 Reveal a Novel Mechanism of Receptor Activation by Monoclonal Antibodies. <i>Journal of Biological Chemistry</i> , 2000, 275, 4579-4586.	3.4	37
32	Novel 3D analysis using optical tissue clearing documents the evolution of murine rapidly progressive glomerulonephritis. <i>Kidney International</i> , 2019, 96, 505-516.	5.2	35
33	Stem cell persistence in CML is mediated by extrinsically activated JAK1-STAT3 signaling. <i>Leukemia</i> , 2019, 33, 1964-1977.	7.2	35
34	Ribonuclease 1 attenuates septic cardiomyopathy and cardiac apoptosis in a murine model of polymicrobial sepsis. <i>JCI Insight</i> , 2020, 5, .	5.0	34
35	A Fusion Protein of the gp130 and Interleukin-6 Ligand-binding Domains Acts as a Potent Interleukin-6 Inhibitor. <i>Journal of Biological Chemistry</i> , 2003, 278, 16968-16972.	3.4	33
36	Soluble Heparan Sulfate in Serum of Septic Shock Patients Induces Mitochondrial Dysfunction in Murine Cardiomyocytes. <i>Shock</i> , 2015, 44, 569-577.	2.1	32

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37	Nucleolar-nucleoplasmic shuttling of TARG1 and its control by DNA damage-induced poly-ADP-ribosylation and by nucleolar transcription. <i>Scientific Reports</i> , 2018, 8, 6748.	3.3	32
38	Reconstitution of two isoforms of the human interleukin-11 receptor and comparison of their functional properties. <i>FEBS Letters</i> , 1997, 407, 141-147.	2.8	31
39	Nuclear translocation of STAT3 and NF- κ B are independent of each other but NF- κ B supports expression and activation of STAT3. <i>Cellular Signalling</i> , 2017, 32, 36-47.	3.6	31
40	Activated fibronectin-secretory phenotype of mesenchymal stromal cells in pre-fibrotic myeloproliferative neoplasms. <i>Journal of Hematology and Oncology</i> , 2014, 7, 92.	17.0	29
41	Consequences of the disease-related L78R mutation for dimerization and activity of STAT3. <i>Journal of Cell Science</i> , 2014, 127, 1899-910.	2.0	26
42	Functional characterization of DYRK1A missense variants associated with a syndromic form of intellectual deficiency and autism. <i>Biology Open</i> , 2018, 7, .	1.2	26
43	Dominant-negative activity of the STAT3-Y705F mutant depends on the N-terminal domain. <i>Cell Communication and Signaling</i> , 2013, 11, 83.	6.5	24
44	Identification of the domain in the human interleukin-11 receptor that mediates ligand binding ¹¹ Edited by J. A. Wells. <i>Journal of Molecular Biology</i> , 2001, 306, 263-274.	4.2	23
45	Angptl4 is upregulated under inflammatory conditions in the bone marrow of mice, expands myeloid progenitors, and accelerates reconstitution of platelets after myelosuppressive therapy. <i>Journal of Hematology and Oncology</i> , 2015, 8, 64.	17.0	23
46	Different epitopes are required for gp130 activation by interleukin-6, oncostatin M and leukemia inhibitory factor. <i>FEBS Letters</i> , 2000, 468, 120-124.	2.8	21
47	Characterization of the Interleukin (IL)-6 Inhibitor IL-6-RFP. <i>Journal of Biological Chemistry</i> , 2007, 282, 1238-1248.	3.4	20
48	Gp130-dependent signaling in the podocyte. <i>American Journal of Physiology - Renal Physiology</i> , 2014, 307, F346-F355.	2.7	20
49	Phenotypic variability, not noise, accounts for most of the cell-to-cell heterogeneity in IFN- γ and oncostatin M signaling responses. <i>Science Signaling</i> , 2022, 15, eabd9303.	3.6	20
50	Novel Inhibitors for Murine and Human Leukemia Inhibitory Factor Based on Fused Soluble Receptors. <i>Journal of Biological Chemistry</i> , 2008, 283, 5985-5995.	3.4	19
51	Directed Covalent Immobilization of Fluorescently Labeled Cytokines. <i>Bioconjugate Chemistry</i> , 2011, 22, 1210-1220.	3.6	18
52	Development of platelets during steady state and inflammation. <i>Journal of Leukocyte Biology</i> , 2017, 101, 1109-1117.	3.3	18
53	Intracellular signaling prevents effective blockade of oncogenic gp130 mutants by neutralizing antibodies. <i>Cell Communication and Signaling</i> , 2014, 12, 14.	6.5	13
54	Genetic barcoding reveals clonal dominance in iPSC-derived mesenchymal stromal cells. <i>Stem Cell Research and Therapy</i> , 2020, 11, 105.	5.5	13

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55	Biofunctionalization of Dental Abutment Surfaces by Crosslinked ECM Proteins Strongly Enhances Adhesion and Proliferation of Gingival Fibroblasts. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100132.	7.6	13
56	Dissecting functions of the N-terminal domain and GAS-site recognition in STAT3 nuclear trafficking. <i>Cellular Signalling</i> , 2016, 28, 810-825.	3.6	12
57	Development of an IL-6 Inhibitor Based on the Functional Analysis of Murine IL-6R α . <i>Chemistry and Biology</i> , 2009, 16, 783-794.	6.0	11
58	Src family kinases interfere with dimerization of STAT5A through a phosphotyrosine-SH2 domain interaction. <i>Cell Communication and Signaling</i> , 2015, 13, 10.	6.5	11
59	Intramolecular hydrophobic interactions are critical mediators of STAT5 dimerization. <i>Scientific Reports</i> , 2016, 6, 35454.	3.3	11
60	Monoclonal antibodies against the human interleukin-11 receptor alpha-chain (IL-11R α) and their use in studies of human mononuclear cells. <i>Journal of Immunological Methods</i> , 2000, 241, 43-59.	1.4	10
61	A receptor fusion protein for the inhibition of murine oncostatin M. <i>BMC Biotechnology</i> , 2011, 11, 3.	3.3	10
62	The synthetic antimicrobial peptide 19-2.5 attenuates mitochondrial dysfunction in cardiomyocytes stimulated with human sepsis serum. <i>Innate Immunity</i> , 2016, 22, 612-619.	2.4	10
63	Nucleocytoplasmic Shuttling of STATs. A Target for Intervention?. <i>Cancers</i> , 2019, 11, 1815.	3.7	10
64	Oncostatin M regulates hematopoietic stem cell (HSC) niches in the bone marrow to restrict HSC mobilization. <i>Leukemia</i> , 2022, 36, 333-347.	7.2	10
65	Functional expression of the interleukin-11 receptor alpha-chain in normal colonic epithelium and colon cancer. <i>International Journal of Colorectal Disease</i> , 2006, 21, 573-581.	2.2	9
66	Arginine residues within the DNA binding domain of STAT3 promote intracellular shuttling and phosphorylation of STAT3. <i>Cellular Signalling</i> , 2014, 26, 1698-1706.	3.6	8
67	Anti-interleukin-6 therapy through application of a monogenic protein inhibitor via gene delivery. <i>Scientific Reports</i> , 2015, 5, 14685.	3.3	8
68	Heparan Sulfate Induces Necroptosis in Murine Cardiomyocytes: A Medical-In silico Approach Combining In vitro Experiments and Machine Learning. <i>Frontiers in Immunology</i> , 2018, 9, 393.	4.8	8
69	Assessing the Intracellular Integrity of Phosphine-Stabilized Ultrasmall Cytotoxic Gold Nanoparticles Enabled by Fluorescence Labeling. <i>Advanced Healthcare Materials</i> , 2016, 5, 3118-3128.	7.6	6
70	Receptor fusion proteins for the inhibition of cytokines. <i>European Journal of Cell Biology</i> , 2012, 91, 428-434.	3.6	5
71	Prospects for Clinical Development of Stat5 Inhibitor IST5-002: High Transcriptomic Specificity in Prostate Cancer and Low Toxicity In Vivo. <i>Cancers</i> , 2020, 12, 3412.	3.7	3
72	The Impact of Plasma-Derived Microvesicles From a Femoral Fracture Animal Model on Osteoblast Function. <i>Shock</i> , 2020, 53, 78-87.	2.1	2

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73	Cellular uptake of fluorophore-labeled glyco-DNA-gold nanoparticles. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	1
74	Cellular Uptake: Assessing the Intracellular Integrity of Phosphine-Stabilized Ultrasmall Cytotoxic Gold Nanoparticles Enabled by Fluorescence Labeling (Adv. Healthcare Mater. 24/2016). Advanced Healthcare Materials, 2016, 5, 3088-3088.	7.6	0
75	Structural Bases of Receptor-JAK-STAT Interactions. , 2003, , 43-53.		0
76	Enterocytes Of Patients With Uncontrolled Acute Graft Versus Host Disease Of The Gut Undergo Massive Telomere Shortening Compared To Unaffected Controls. Blood, 2013, 122, 4467-4467.	1.4	0