

# Alexander von Kriegsheim

## List of Publications by Year in descending order

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106  
papers

10,434  
citations

81900

39  
h-index

34986

98  
g-index

130  
all docs

130  
docs citations

130  
times ranked

16204  
citing authors

#	ARTICLE	IF	CITATIONS
1	Targeting of HIF-1 $\alpha$ to the von Hippel-Lindau Ubiquitylation Complex by O <sub>2</sub> -Regulated Prolyl Hydroxylation. Science, 2001, 292, 468-472.	12.6	4,966
2	Raf Family Kinases: Old Dogs Have Learned New Tricks. Genes and Cancer, 2011, 2, 232-260.	1.9	322
3	CCPG1 Is a Non-canonical Autophagy Cargo Receptor Essential for ER-Phagy and Pancreatic ER Proteostasis. Developmental Cell, 2018, 44, 217-232.e11.	7.0	315
4	Nuclear FAK Controls Chemokine Transcription, Tregs, and Evasion of Anti-tumor Immunity. Cell, 2015, 163, 160-173.	28.9	304
5	Cell fate decisions are specified by the dynamic ERK interactome. Nature Cell Biology, 2009, 11, 1458-1464.	10.3	264
6	Towards complete analysis of the platelet proteome. Proteomics, 2002, 2, 288.	2.2	190
7	Dnmt3a and Dnmt3b Associate with Enhancers to Regulate Human Epidermal Stem Cell Homeostasis. Cell Stem Cell, 2016, 19, 491-501.	11.1	170
8	Bistability in the Rac1, PAK, and RhoA Signaling Network Drives Actin Cytoskeleton Dynamics and Cell Motility Switches. Cell Systems, 2016, 2, 38-48.	6.2	159
9	Regulation of IL-1 $\beta$ -induced NF- $\kappa$ B by hydroxylases links key hypoxic and inflammatory signaling pathways. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 18490-18495.	7.1	145
10	Regulation of the Raf-MEK-ERK pathway by protein phosphatase 5. Nature Cell Biology, 2006, 8, 1011-1016.	10.3	137
11	Spatial Regulation of RhoA Activity during Pancreatic Cancer Cell Invasion Driven by Mutant p53. Cancer Research, 2011, 71, 747-757.	0.9	127
12	On-Beads Digestion in Conjunction with Data-Dependent Mass Spectrometry: A Shortcut to Quantitative and Dynamic Interaction Proteomics. Biology, 2014, 3, 320-332.	2.8	126
13	RCP-driven $\beta$ 1 recycling suppresses Rac and promotes RhoA activity via the RacGAP1-IQGAP1 complex. Journal of Cell Biology, 2013, 202, 917-935.	5.2	119
14	ALIX Regulates Tumor-Mediated Immunosuppression by Controlling EGFR Activity and PD-L1 Presentation. Cell Reports, 2018, 24, 630-641.	6.4	103
15	Inferring Signaling Pathway Topologies from Multiple Perturbation Measurements of Specific Biochemical Species. Science Signaling, 2010, 3, ra20.	3.6	101
16	BRD4 interacts with NIPBL and BRD4 is mutated in a Cornelia de Lange-like syndrome. Nature Genetics, 2018, 50, 329-332.	21.4	96
17	Common and Distinctive Functions of the Hippo Effectors Taz and Yap in Skeletal Muscle Stem Cell Function. Stem Cells, 2017, 35, 1958-1972.	3.2	93
18	The mRNA m6A reader YTHDF2 suppresses proinflammatory pathways and sustains hematopoietic stem cell function. Journal of Experimental Medicine, 2021, 218, .	8.5	90

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19	Phosphorylation of iRhom2 Controls Stimulated Proteolytic Shedding by the Metalloprotease ADAM17/TACE. Cell Reports, 2017, 21, 745-757.	6.4	86
20	Neutrophils Fuel Effective Immune Responses through Gluconeogenesis and Glycogenesis. Cell Metabolism, 2021, 33, 411-423.e4.	16.2	84
21	HGF Induces Epithelial-to-Mesenchymal Transition by Modulating the Mammalian Hippo/MST2 and ISG15 Pathways. Journal of Proteome Research, 2014, 13, 2874-2886.	3.7	82
22	Mutations in DONSON disrupt replication fork stability and cause microcephalic dwarfism. Nature Genetics, 2017, 49, 537-549.	21.4	81
23	Substrate-Trapped Interactors of PHD3 and FIH Cluster in Distinct Signaling Pathways. Cell Reports, 2016, 14, 2745-2760.	6.4	79
24	FIH Regulates Cellular Metabolism through Hydroxylation of the Deubiquitinase OTUB1. PLoS Biology, 2016, 14, e1002347.	5.6	78
25	RASSF2 associates with and stabilizes the proapoptotic kinase MST2. Oncogene, 2009, 28, 2988-2998.	5.9	77
26	Rapamycin regulates autophagy and cell adhesion in induced pluripotent stem cells. Stem Cell Research and Therapy, 2016, 7, 166.	5.5	74
27	Rac1 and RhoA: Networks, loops and bistability. Small GTPases, 2018, 9, 316-321.	1.6	74
28	RASSF1A uncouples Wnt from Hippo signalling and promotes YAP mediated differentiation via p73. Nature Communications, 2018, 9, 424.	12.8	72
29	HEATR2 Plays a Conserved Role in Assembly of the Ciliary Motile Apparatus. PLoS Genetics, 2014, 10, e1004577.	3.5	67
30	<i>HUWE1</i> is a critical colonic tumour suppressor gene that prevents MYC signalling, DNA damage accumulation and tumour initiation. EMBO Molecular Medicine, 2017, 9, 181-197.	6.9	63
31	Targeting endothelin receptor signalling overcomes heterogeneity driven therapy failure. EMBO Molecular Medicine, 2017, 9, 1011-1029.	6.9	63
32	Phosphatase and Feedback Regulation of Raf-1 Signaling. Cell Cycle, 2007, 6, 3-7.	2.6	60
33	ERK2 drives tumour cell migration in 3D microenvironments by suppressing expression of Rab17 and Liprin- $\beta$ 2. Journal of Cell Science, 2012, 125, 1465-77.	2.0	56
34	Ciliary dynein motor preassembly is regulated by Wdr92 in association with HSP90 co-chaperone, R2TP. Journal of Cell Biology, 2018, 217, 2583-2598.	5.2	53
35	PHD3 Regulates p53 Protein Stability by Hydroxylating Proline 359. Cell Reports, 2018, 24, 1316-1329.	6.4	51
36	Signalling by protein phosphatases and drug development: a systems-centred view. FEBS Journal, 2013, 280, 751-765.	4.7	47

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37	iTAP, a novel iRhom interactor, controls TNF secretion by policing the stability of iRhom/TACE. ELife, 2018, 7, .	6.0	47
38	An efficient and scalable pipeline for epitope tagging in mammalian stem cells using Cas9 ribonucleoprotein. ELife, 2018, 7, .	6.0	45
39	Disruption of the TCA cycle reveals an ATF4-dependent integration of redox and amino acid metabolism. ELife, 2021, 10, .	6.0	44
40	ALDH1 Bio-activates Nifuroxazide to Eradicate ALDH <sup>High</sup> Melanoma-Initiating Cells. Cell Chemical Biology, 2018, 25, 1456-1469.e6.	5.2	43
41	NADPH oxidase-derived H <sub>2</sub> O <sub>2</sub> subverts pathogen signaling by oxidative phosphotyrosine conversion to PB-DOPA. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 10406-10411.	7.1	41
42	MIR503HG Loss Promotes Endothelial-to-Mesenchymal Transition in Vascular Disease. Circulation Research, 2021, 128, 1173-1190.	4.5	41
43	Periodic propagating waves coordinate RhoGTPase network dynamics at the leading and trailing edges during cell migration. ELife, 2020, 9, .	6.0	40
44	PLAA Mutations Cause a Lethal Infantile Epileptic Encephalopathy by Disrupting Ubiquitin-Mediated Endolysosomal Degradation of Synaptic Proteins. American Journal of Human Genetics, 2017, 100, 706-724.	6.2	37
45	An Integrated Global Analysis of Compartmentalized HRAS Signaling. Cell Reports, 2019, 26, 3100-3115.e7.	6.4	36
46	Proteomics and phosphoproteomics for the mapping of cellular signalling networks. Proteomics, 2008, 8, 4402-4415.	2.2	35
47	type I IFN, prothrombotic hyperinflammatory neutrophil signature is distinct for COVID-19 ARDS. Wellcome Open Research, 2021, 6, 38.	1.8	35
48	KDM3A coordinates actin dynamics with intraflagellar transport to regulate cilia stability. Journal of Cell Biology, 2017, 216, 999-1013.	5.2	33
49	Nucleolar-nucleoplasmic shuttling of TARG1 and its control by DNA damage-induced poly-ADP-ribosylation and by nucleolar transcription. Scientific Reports, 2018, 8, 6748.	3.3	32
50	A new ER-specific photosensitizer unravels 1O <sub>2</sub> -driven protein oxidation and inhibition of deubiquitinases as a generic mechanism for cancer PDT. Oncogene, 2016, 35, 3976-3985.	5.9	31
51	Extracellular Signal-Regulated Kinase Regulates RhoA Activation and Tumor Cell Plasticity by Inhibiting Guanine Exchange Factor H1 Activity. Molecular and Cellular Biology, 2013, 33, 4526-4537.	2.3	30
52	PRL3-DDX21 Transcriptional Control of Endolysosomal Genes Restricts Melanocyte Stem Cell Differentiation. Developmental Cell, 2020, 54, 317-332.e9.	7.0	30
53	type I IFN, prothrombotic hyperinflammatory neutrophil signature is distinct for COVID-19 ARDS. Wellcome Open Research, 2021, 6, 38.	1.8	29
54	Cyclic Nucleotide-dependent Protein Kinases Target ARHGAP17 and ARHGEF6 Complexes in Platelets. Journal of Biological Chemistry, 2015, 290, 29974-29983.	3.4	28

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55	Identification of a novel TIF-1 $\alpha$ -NF- $\kappa$ B nucleolar stress response pathway. <i>Nucleic Acids Research</i> , 2018, 46, 6188-6205.	14.5	27
56	Prolyl hydroxylase substrate adenylosuccinate lyase is an oncogenic driver in triple negative breast cancer. <i>Nature Communications</i> , 2019, 10, 5177.	12.8	27
57	Mechanochemical Stimulation of MCF7 Cells with Rod-Shaped Fe-Au Janus Particles Induces Cell Death Through Paradoxical Hyperactivation of ERK. <i>Advanced Healthcare Materials</i> , 2015, 4, 395-404.	7.6	26
58	Prolyl hydroxylase-1 regulates hepatocyte apoptosis in an NF- $\kappa$ B-dependent manner. <i>Biochemical and Biophysical Research Communications</i> , 2016, 474, 579-586.	2.1	26
59	FLIM-FRET imaging in vivo reveals 3D-environment spatially regulates RhoGTPase activity during cancer cell invasion. <i>Small GTPases</i> , 2011, 2, 239-244.	1.6	25
60	Carbon dioxide-dependent regulation of NF- $\kappa$ B family members RelB and p100 gives molecular insight into CO <sub>2</sub> -dependent immune regulation. <i>Journal of Biological Chemistry</i> , 2017, 292, 11561-11571.	3.4	25
61	ITPase deficiency causes a Martsolf-like syndrome with a lethal infantile dilated cardiomyopathy. <i>PLoS Genetics</i> , 2019, 15, e1007605.	3.5	25
62	Nucleo-cytoplasmic shuttling of splicing factor SRSF1 is required for development and cilia function. <i>ELife</i> , 2021, 10, .	6.0	25
63	Nonlinear signalling networks and cell-to-cell variability transform external signals into broadly distributed or bimodal responses. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20140383.	3.4	24
64	Mapping of Signaling Pathways by Functional Interaction Proteomics. <i>Methods in Molecular Biology</i> , 2008, 484, 177-192.	0.9	23
65	Growth Cone Localization of the mRNA Encoding the Chromatin Regulator HMGN5 Modulates Neurite Outgrowth. <i>Molecular and Cellular Biology</i> , 2015, 35, 2035-2050.	2.3	22
66	Hypoxia Reduces the Pathogenicity of <i>Pseudomonas aeruginosa</i> by Decreasing the Expression of Multiple Virulence Factors. <i>Journal of Infectious Diseases</i> , 2017, 215, 1459-1467.	4.0	22
67	Hypoxia drives murine neutrophil protein scavenging to maintain central carbon metabolism. <i>Journal of Clinical Investigation</i> , 2021, 131, .	8.2	21
68	Network-based identification of feedback modules that control RhoA activity and cell migration. <i>Journal of Molecular Cell Biology</i> , 2015, 7, 242-252.	3.3	20
69	RAC1B modulates intestinal tumorigenesis via modulation of WNT and EGFR signalling pathways. <i>Nature Communications</i> , 2021, 12, 2335.	12.8	20
70	Linear Approaches to Intramolecular Förster Resonance Energy Transfer Probe Measurements for Quantitative Modeling. <i>PLoS ONE</i> , 2011, 6, e27823.	2.5	18
71	Aircraft noise exposure drives the activation of white blood cells and induces microvascular dysfunction in mice. <i>Redox Biology</i> , 2021, 46, 102063.	9.0	18
72	A Synergistic Anticancer FAK and HDAC Inhibitor Combination Discovered by a Novel Chemical-Genetic High-Content Phenotypic Screen. <i>Molecular Cancer Therapeutics</i> , 2020, 19, 637-649.	4.1	16

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73	ISGylation drives basal breast tumour progression by promoting EGFR recycling and Akt signalling. <i>Oncogene</i> , 2021, 40, 6235-6247.	5.9	16
74	Mammalian protein expression noise: scaling principles and the implications for knockdown experiments. <i>Molecular BioSystems</i> , 2012, 8, 3068.	2.9	15
75	Rapid and specific degradation of endogenous proteins in mouse models using auxin-inducible degrons. <i>ELife</i> , 0, 11, .	6.0	15
76	IQGAP1 Is a Scaffold of the Core Proteins of the Hippo Pathway and Negatively Regulates the Pro-Apoptotic Signal Mediated by This Pathway. <i>Cells</i> , 2021, 10, 478.	4.1	14
77	Chemosensitivity profiling of osteosarcoma tumour cell lines identifies a model of BRCAness. <i>Scientific Reports</i> , 2018, 8, 10614.	3.3	13
78	Egln3 hydroxylase stabilizes BIM-EL linking VHL type 2C mutations to pheochromocytoma pathogenesis and chemotherapy resistance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 16997-17006.	7.1	13
79	Asparagine Hydroxylation is a Reversible Post-translational Modification. <i>Molecular and Cellular Proteomics</i> , 2020, 19, 1777-1789.	3.8	13
80	The autophagy protein Ambra1 regulates gene expression by supporting novel transcriptional complexes. <i>Journal of Biological Chemistry</i> , 2020, 295, 12045-12057.	3.4	13
81	The RNA-bound proteome of MRSA reveals post-transcriptional roles for helix-turn-helix DNA-binding and Rossmann-fold proteins. <i>Nature Communications</i> , 2022, 13, .	12.8	13
82	The RhoA regulators Myo9b and GEFH1 are targets of cyclic nucleotide-dependent kinases in platelets. <i>Journal of Thrombosis and Haemostasis</i> , 2020, 18, 3002-3012.	3.8	12
83	RASSF1C oncogene elicits amoeboid invasion, cancer stemness, and extracellular vesicle release via a SRC/Rho axis. <i>EMBO Journal</i> , 2021, 40, e107680.	7.8	12
84	Protein-Protein Interaction Detection Via Mass Spectrometry-Based Proteomics. <i>Advances in Experimental Medicine and Biology</i> , 2016, 919, 383-396.	1.6	11
85	RNA splicing is a key mediator of tumour cell plasticity and a therapeutic vulnerability in colorectal cancer. <i>Nature Communications</i> , 2022, 13, 2791.	12.8	11
86	Novel roles of PRK1 and PRK2 in cilia and cancer biology. <i>Scientific Reports</i> , 2020, 10, 3902.	3.3	10
87	Signalling mechanisms regulating phenotypic changes in breast cancer cells. <i>Bioscience Reports</i> , 2015, 35, .	2.4	9
88	Transcriptionally inducible Pleckstrin homology-like domain, family A, member 1, attenuates ErbB receptor activity by inhibiting receptor oligomerization. <i>Journal of Biological Chemistry</i> , 2018, 293, 2206-2218.	3.4	9
89	H3K36me3 and PSIP1/LEDGF associate with several DNA repair proteins, suggesting their role in efficient DNA repair at actively transcribing loci. <i>Wellcome Open Research</i> , 2017, 2, 83.	1.8	9
90	The <i>Drosophila</i> orthologue of the primary ciliary dyskinesia-associated gene, <i>DNAAF3</i> , is required for axonemal dynein assembly. <i>Biology Open</i> , 2021, 10, .	1.2	9

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91	A Novel C1q Domain-Containing Protein Isolated from the Mollusk <i>Modiolus kurilensis</i> Recognizing Glycans Enriched with Acidic Galactans and Mannans. <i>Marine Drugs</i> , 2021, 19, 668.	4.6	8
92	Autophosphorylation on S614 inhibits the activity and the transforming potential of BRAF. <i>Cellular Signalling</i> , 2016, 28, 1432-1439.	3.6	6
93	Vitamin D treatment induces in vitro and ex vivo transcriptomic changes indicating anti-tumor effects. <i>FASEB Journal</i> , 2022, 36, e22082.	0.5	6
94	Impaired oxygen-sensitive regulation of mitochondrial biogenesis within the von Hippel-Lindau syndrome. <i>Nature Metabolism</i> , 2022, 4, 739-758.	11.9	6
95	Mass Spectrometry and Bioinformatic Analysis of Hydroxylation-Dependent Protein-Protein Interactions. <i>Methods in Molecular Biology</i> , 2018, 1742, 27-36.	0.9	5
96	Potential mechanisms of calcium dependent regulation of the mammalian cell cycle revealed by comprehensive unbiased label-free nLC-MS/MS quantitative proteomics. <i>Journal of Proteomics</i> , 2018, 170, 151-166.	2.4	4
97	Anti-brain protein autoantibodies are detectable in extraparenchymal but not parenchymal neurocysticercosis. <i>Journal of Neuroimmunology</i> , 2020, 344, 577234.	2.3	4
98	Characterisation of a nucleo-adhesome. <i>Nature Communications</i> , 2022, 13, .	12.8	4
99	WT1-Associated Protein-Protein Interaction Networks. <i>Methods in Molecular Biology</i> , 2016, 1467, 189-196.	0.9	3
100	In vivo analysis of noise dependent activation of white blood cells and microvascular dysfunction in mice. <i>MethodsX</i> , 2021, 8, 101540.	1.6	3
101	Prolyl Hydroxylase 1 (PHD1) and Factor Inhibiting HIF (FIH) regulate IL-1 $\beta$ -induced NF- $\kappa$ B activity linking key hypoxic and inflammatory signaling pathways. <i>FASEB Journal</i> , 2013, 27, 717.9.	0.5	2
102	In vitro study of the interaction of heregulin-functionalized magnetic-optical nanorods with MCF7 and MDA-MB-231 cells. <i>Faraday Discussions</i> , 2014, 175, 189-201.	3.2	1
103	Uncovering Bistability in the Rac1/RhoA Signaling Network Through Integrating Computational Modeling and Experimentation. <i>Methods in Molecular Biology</i> , 2018, 1821, 21-36.	0.9	1
104	A novel role of MNT as a negative regulator of REL and the NF- $\kappa$ B pathway. <i>Oncogenesis</i> , 2021, 10, 5.	4.9	1
105	293: MNT roles and expression in the absence of MAX. <i>European Journal of Cancer</i> , 2014, 50, S69.	2.8	0
106	cGMP and cAMP pathways rearrange ARHGAP17 and ARHGEF6 protein complexes to control Rac1 in platelets. <i>BMC Pharmacology &amp; Toxicology</i> , 2015, 16, .	2.4	0