

Alexander von Kriegsheim

List of Publications by Year in descending order

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Version: 2024-02-01

106
papers

10,434
citations

81839

39
h-index

34964

98
g-index

130
all docs

130
docs citations

130
times ranked

16204
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Targeting of HIF-1 α to the von Hippel-Lindau Ubiquitylation Complex by O ₂ -Regulated Prolyl Hydroxylation. <i>Science</i> , 2001, 292, 468-472. | 6.0 | 4,966 |
| 2 | Raf Family Kinases: Old Dogs Have Learned New Tricks. <i>Genes and Cancer</i> , 2011, 2, 232-260. | 0.6 | 322 |
| 3 | CCPG1 Is a Non-canonical Autophagy Cargo Receptor Essential for ER-Phagy and Pancreatic ER Proteostasis. <i>Developmental Cell</i> , 2018, 44, 217-232.e11. | 3.1 | 315 |
| 4 | Nuclear FAK Controls Chemokine Transcription, Tregs, and Evasion of Anti-tumor Immunity. <i>Cell</i> , 2015, 163, 160-173. | 13.5 | 304 |
| 5 | Cell fate decisions are specified by the dynamic ERK interactome. <i>Nature Cell Biology</i> , 2009, 11, 1458-1464. | 4.6 | 264 |
| 6 | Towards complete analysis of the platelet proteome. <i>Proteomics</i> , 2002, 2, 288. | 1.3 | 190 |
| 7 | Dnmt3a and Dnmt3b Associate with Enhancers to Regulate Human Epidermal Stem Cell Homeostasis. <i>Cell Stem Cell</i> , 2016, 19, 491-501. | 5.2 | 170 |
| 8 | Bistability in the Rac1, PAK, and RhoA Signaling Network Drives Actin Cytoskeleton Dynamics and Cell Motility Switches. <i>Cell Systems</i> , 2016, 2, 38-48. | 2.9 | 159 |
| 9 | Regulation of IL-1 β -induced NF- κ B by hydroxylases links key hypoxic and inflammatory signaling pathways. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 18490-18495. | 3.3 | 145 |
| 10 | Regulation of the Raf-MEK-ERK pathway by protein phosphatase 5. <i>Nature Cell Biology</i> , 2006, 8, 1011-1016. | 4.6 | 137 |
| 11 | Spatial Regulation of RhoA Activity during Pancreatic Cancer Cell Invasion Driven by Mutant p53. <i>Cancer Research</i> , 2011, 71, 747-757. | 0.4 | 127 |
| 12 | On-Beads Digestion in Conjunction with Data-Dependent Mass Spectrometry: A Shortcut to Quantitative and Dynamic Interaction Proteomics. <i>Biology</i> , 2014, 3, 320-332. | 1.3 | 126 |
| 13 | RCP-driven β 1 recycling suppresses Rac and promotes RhoA activity via the RacGAP1-IQGAP1 complex. <i>Journal of Cell Biology</i> , 2013, 202, 917-935. | 2.3 | 119 |
| 14 | ALIX Regulates Tumor-Mediated Immunosuppression by Controlling EGFR Activity and PD-L1 Presentation. <i>Cell Reports</i> , 2018, 24, 630-641. | 2.9 | 103 |
| 15 | Inferring Signaling Pathway Topologies from Multiple Perturbation Measurements of Specific Biochemical Species. <i>Science Signaling</i> , 2010, 3, ra20. | 1.6 | 101 |
| 16 | BRD4 interacts with NIPBL and BRD4 is mutated in a Cornelia de Lange-like syndrome. <i>Nature Genetics</i> , 2018, 50, 329-332. | 9.4 | 96 |
| 17 | Common and Distinctive Functions of the Hippo Effectors Taz and Yap in Skeletal Muscle Stem Cell Function. <i>Stem Cells</i> , 2017, 35, 1958-1972. | 1.4 | 93 |
| 18 | The mRNA m6A reader YTHDF2 suppresses proinflammatory pathways and sustains hematopoietic stem cell function. <i>Journal of Experimental Medicine</i> , 2021, 218, . | 4.2 | 90 |

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|----|---|-----|-----------|
| 19 | Phosphorylation of iRhom2 Controls Stimulated Proteolytic Shedding by the Metalloprotease ADAM17/TACE. <i>Cell Reports</i> , 2017, 21, 745-757. | 2.9 | 86 |
| 20 | Neutrophils Fuel Effective Immune Responses through Gluconeogenesis and Glycogenesis. <i>Cell Metabolism</i> , 2021, 33, 411-423.e4. | 7.2 | 84 |
| 21 | HGF Induces Epithelial-to-Mesenchymal Transition by Modulating the Mammalian Hippo/MST2 and ISG15 Pathways. <i>Journal of Proteome Research</i> , 2014, 13, 2874-2886. | 1.8 | 82 |
| 22 | Mutations in DONSON disrupt replication fork stability and cause microcephalic dwarfism. <i>Nature Genetics</i> , 2017, 49, 537-549. | 9.4 | 81 |
| 23 | Substrate-Trapped Interactors of PHD3 and FIH Cluster in Distinct Signaling Pathways. <i>Cell Reports</i> , 2016, 14, 2745-2760. | 2.9 | 79 |
| 24 | FIH Regulates Cellular Metabolism through Hydroxylation of the Deubiquitinase OTUB1. <i>PLoS Biology</i> , 2016, 14, e1002347. | 2.6 | 78 |
| 25 | RASSF2 associates with and stabilizes the proapoptotic kinase MST2. <i>Oncogene</i> , 2009, 28, 2988-2998. | 2.6 | 77 |
| 26 | Rapamycin regulates autophagy and cell adhesion in induced pluripotent stem cells. <i>Stem Cell Research and Therapy</i> , 2016, 7, 166. | 2.4 | 74 |
| 27 | Rac1 and RhoA: Networks, loops and bistability. <i>Small GTPases</i> , 2018, 9, 316-321. | 0.7 | 74 |
| 28 | RASSF1A uncouples Wnt from Hippo signalling and promotes YAP mediated differentiation via p73. <i>Nature Communications</i> , 2018, 9, 424. | 5.8 | 72 |
| 29 | HEATR2 Plays a Conserved Role in Assembly of the Ciliary Motile Apparatus. <i>PLoS Genetics</i> , 2014, 10, e1004577. | 1.5 | 67 |
| 30 | <i>HUWE1</i> is a critical colonic tumour suppressor gene that prevents MYC signalling, DNA damage accumulation and tumour initiation. <i>EMBO Molecular Medicine</i> , 2017, 9, 181-197. | 3.3 | 63 |
| 31 | Targeting endothelin receptor signalling overcomes heterogeneity driven therapy failure. <i>EMBO Molecular Medicine</i> , 2017, 9, 1011-1029. | 3.3 | 63 |
| 32 | Phosphatase and Feedback Regulation of Raf-1 Signaling. <i>Cell Cycle</i> , 2007, 6, 3-7. | 1.3 | 60 |
| 33 | ERK2 drives tumour cell migration in 3D microenvironments by suppressing expression of Rab17 and Liprin- β 2. <i>Journal of Cell Science</i> , 2012, 125, 1465-77. | 1.2 | 56 |
| 34 | Ciliary dynein motor preassembly is regulated by Wdr92 in association with HSP90 co-chaperone, R2TP. <i>Journal of Cell Biology</i> , 2018, 217, 2583-2598. | 2.3 | 53 |
| 35 | PHD3 Regulates p53 Protein Stability by Hydroxylating Proline 359. <i>Cell Reports</i> , 2018, 24, 1316-1329. | 2.9 | 51 |
| 36 | Signalling by protein phosphatases and drug development: a systems-centred view. <i>FEBS Journal</i> , 2013, 280, 751-765. | 2.2 | 47 |

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|----|--|-----|-----------|
| 37 | iTAP, a novel iRhom interactor, controls TNF secretion by policing the stability of iRhom/TACE. <i>ELife</i> , 2018, 7, . | 2.8 | 47 |
| 38 | An efficient and scalable pipeline for epitope tagging in mammalian stem cells using Cas9 ribonucleoprotein. <i>ELife</i> , 2018, 7, . | 2.8 | 45 |
| 39 | Disruption of the TCA cycle reveals an ATF4-dependent integration of redox and amino acid metabolism. <i>ELife</i> , 2021, 10, . | 2.8 | 44 |
| 40 | ALDH1 Bio-activates Nifuroxazide to Eradicate ALDHHigh Melanoma-Initiating Cells. <i>Cell Chemical Biology</i> , 2018, 25, 1456-1469.e6. | 2.5 | 43 |
| 41 | NADPH oxidase-derived H ₂ O ₂ subverts pathogen signaling by oxidative phosphotyrosine conversion to PB-DOPA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 10406-10411. | 3.3 | 41 |
| 42 | MIR503HG Loss Promotes Endothelial-to-Mesenchymal Transition in Vascular Disease. <i>Circulation Research</i> , 2021, 128, 1173-1190. | 2.0 | 41 |
| 43 | Periodic propagating waves coordinate RhoGTPase network dynamics at the leading and trailing edges during cell migration. <i>ELife</i> , 2020, 9, . | 2.8 | 40 |
| 44 | PLAA Mutations Cause a Lethal Infantile Epileptic Encephalopathy by Disrupting Ubiquitin-Mediated Endolysosomal Degradation of Synaptic Proteins. <i>American Journal of Human Genetics</i> , 2017, 100, 706-724. | 2.6 | 37 |
| 45 | An Integrated Global Analysis of Compartmentalized HRAS Signaling. <i>Cell Reports</i> , 2019, 26, 3100-3115.e7. | 2.9 | 36 |
| 46 | Proteomics and phosphoproteomics for the mapping of cellular signalling networks. <i>Proteomics</i> , 2008, 8, 4402-4415. | 1.3 | 35 |
| 47 | type I IFN, prothrombotic hyperinflammatory neutrophil signature is distinct for COVID-19 ARDS. Wellcome Open Research, 2021, 6, 38. | 0.9 | 35 |
| 48 | KDM3A coordinates actin dynamics with intraflagellar transport to regulate cilia stability. <i>Journal of Cell Biology</i> , 2017, 216, 999-1013. | 2.3 | 33 |
| 49 | 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. | 1.6 | 32 |
| 50 | A new ER-specific photosensitizer unravels 1O ₂ -driven protein oxidation and inhibition of deubiquitinases as a generic mechanism for cancer PDT. <i>Oncogene</i> , 2016, 35, 3976-3985. | 2.6 | 31 |
| 51 | Extracellular Signal-Regulated Kinase Regulates RhoA Activation and Tumor Cell Plasticity by Inhibiting Guanine Exchange Factor H1 Activity. <i>Molecular and Cellular Biology</i> , 2013, 33, 4526-4537. | 1.1 | 30 |
| 52 | PRL3-DDX21 Transcriptional Control of Endolysosomal Genes Restricts Melanocyte Stem Cell Differentiation. <i>Developmental Cell</i> , 2020, 54, 317-332.e9. | 3.1 | 30 |
| 53 | type I IFN, prothrombotic hyperinflammatory neutrophil signature is distinct for COVID-19 ARDS. Wellcome Open Research, 2021, 6, 38. | 0.9 | 29 |
| 54 | Cyclic Nucleotide-dependent Protein Kinases Target ARHGAP17 and ARHGEF6 Complexes in Platelets. <i>Journal of Biological Chemistry</i> , 2015, 290, 29974-29983. | 1.6 | 28 |

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|----|--|-----|-----------|
| 55 | Identification of a novel TIF-1A α -NF- κ B nucleolar stress response pathway. <i>Nucleic Acids Research</i> , 2018, 46, 6188-6205. | 6.5 | 27 |
| 56 | Prolyl hydroxylase substrate adenylosuccinate lyase is an oncogenic driver in triple negative breast cancer. <i>Nature Communications</i> , 2019, 10, 5177. | 5.8 | 27 |
| 57 | Mechanochemical Stimulation of MCF7 Cells with Rod α -Shaped Fe α -Au Janus Particles Induces Cell Death Through Paradoxical Hyperactivation of ERK. <i>Advanced Healthcare Materials</i> , 2015, 4, 395-404. | 3.9 | 26 |
| 58 | Prolyl hydroxylase-1 regulates hepatocyte apoptosis in an NF- κ B-dependent manner. <i>Biochemical and Biophysical Research Communications</i> , 2016, 474, 579-586. | 1.0 | 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. | 0.7 | 25 |
| 60 | Carbon dioxide-dependent regulation of NF- κ B family members RelB and p100 gives molecular insight into CO ₂ -dependent immune regulation. <i>Journal of Biological Chemistry</i> , 2017, 292, 11561-11571. | 1.6 | 25 |
| 61 | ITPase deficiency causes a Martsolf-like syndrome with a lethal infantile dilated cardiomyopathy. <i>PLoS Genetics</i> , 2019, 15, e1007605. | 1.5 | 25 |
| 62 | Nucleo-cytoplasmic shuttling of splicing factor SRSF1 is required for development and cilia function. <i>ELife</i> , 2021, 10, . | 2.8 | 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. | 1.5 | 24 |
| 64 | Mapping of Signaling Pathways by Functional Interaction Proteomics. <i>Methods in Molecular Biology</i> , 2008, 484, 177-192. | 0.4 | 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. | 1.1 | 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. | 1.9 | 22 |
| 67 | Hypoxia drives murine neutrophil protein scavenging to maintain central carbon metabolism. <i>Journal of Clinical Investigation</i> , 2021, 131, . | 3.9 | 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. | 1.5 | 20 |
| 69 | RAC1B modulates intestinal tumourigenesis via modulation of WNT and EGFR signalling pathways. <i>Nature Communications</i> , 2021, 12, 2335. | 5.8 | 20 |
| 70 | Linear Approaches to Intramolecular Förster Resonance Energy Transfer Probe Measurements for Quantitative Modeling. <i>PLoS ONE</i> , 2011, 6, e27823. | 1.1 | 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. | 3.9 | 18 |
| 72 | A Synergistic Anticancer FAK and HDAC Inhibitor Combination Discovered by a Novel Chemical α -Genetic High-Content Phenotypic Screen. <i>Molecular Cancer Therapeutics</i> , 2020, 19, 637-649. | 1.9 | 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. | 2.6 | 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, . | 2.8 | 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. | 1.8 | 14 |
| 77 | Chemosensitivity profiling of osteosarcoma tumour cell lines identifies a model of BRCAness. <i>Scientific Reports</i> , 2018, 8, 10614. | 1.6 | 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. | 3.3 | 13 |
| 79 | Asparagine Hydroxylation is a Reversible Post-translational Modification. <i>Molecular and Cellular Proteomics</i> , 2020, 19, 1777-1789. | 2.5 | 13 |
| 80 | The autophagy protein Ambra1 regulates gene expression by supporting novel transcriptional complexes. <i>Journal of Biological Chemistry</i> , 2020, 295, 12045-12057. | 1.6 | 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, . | 5.8 | 13 |
| 82 | The RhoA regulators Myo9b and GEF1 are targets of cyclic nucleotide-dependent kinases in platelets. <i>Journal of Thrombosis and Haemostasis</i> , 2020, 18, 3002-3012. | 1.9 | 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. | 3.5 | 12 |
| 84 | Protein-Protein Interaction Detection Via Mass Spectrometry-Based Proteomics. <i>Advances in Experimental Medicine and Biology</i> , 2016, 919, 383-396. | 0.8 | 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. | 5.8 | 11 |
| 86 | Novel roles of PRK1 and PRK2 in cilia and cancer biology. <i>Scientific Reports</i> , 2020, 10, 3902. | 1.6 | 10 |
| 87 | Signalling mechanisms regulating phenotypic changes in breast cancer cells. <i>Bioscience Reports</i> , 2015, 35, . | 1.1 | 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. | 1.6 | 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. | 0.9 | 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, . | 0.6 | 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. | 2.2 | 8 |
| 92 | Autophosphorylation on S614 inhibits the activity and the transforming potential of BRAF. <i>Cellular Signalling</i> , 2016, 28, 1432-1439. | 1.7 | 6 |
| 93 | Vitamin D treatment induces in vitro and ex vivo transcriptomic changes indicating anti-tumor effects. <i>FASEB Journal</i> , 2022, 36, e22082. | 0.2 | 6 |
| 94 | Impaired oxygen-sensitive regulation of mitochondrial biogenesis within the von Hippel-Lindau syndrome. <i>Nature Metabolism</i> , 2022, 4, 739-758. | 5.1 | 6 |
| 95 | Mass Spectrometry and Bioinformatic Analysis of Hydroxylation-Dependent Protein-Protein Interactions. <i>Methods in Molecular Biology</i> , 2018, 1742, 27-36. | 0.4 | 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. | 1.2 | 4 |
| 97 | Anti-brain protein autoantibodies are detectable in extraparenchymal but not parenchymal neurocysticercosis. <i>Journal of Neuroimmunology</i> , 2020, 344, 577234. | 1.1 | 4 |
| 98 | Characterisation of a nucleo-adesome. <i>Nature Communications</i> , 2022, 13, . | 5.8 | 4 |
| 99 | WT1-Associated Protein-Protein Interaction Networks. <i>Methods in Molecular Biology</i> , 2016, 1467, 189-196. | 0.4 | 3 |
| 100 | In vivo analysis of noise dependent activation of white blood cells and microvascular dysfunction in mice. <i>MethodsX</i> , 2021, 8, 101540. | 0.7 | 3 |
| 101 | Prolyl Hydroxylase 1 (PHD1) and Factor Inhibiting HIF (FIH) regulate IL-1 β -induced NF- κ B activity linking key hypoxic and inflammatory signaling pathways. <i>FASEB Journal</i> , 2013, 27, 717.9. | 0.2 | 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. | 1.6 | 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. | 0.4 | 1 |
| 104 | A novel role of MNT as a negative regulator of REL and the NF- κ B pathway. <i>Oncogenesis</i> , 2021, 10, 5. | 2.1 | 1 |
| 105 | 293: MNT roles and expression in the absence of MAX. <i>European Journal of Cancer</i> , 2014, 50, S69. | 1.3 | 0 |
| 106 | cGMP and cAMP pathways rearrange ARHGAP17 and ARHGEF6 protein complexes to control Rac1 in platelets. <i>BMC Pharmacology & Toxicology</i> , 2015, 16, . | 1.0 | 0 |