

Friedemann Kiefer

List of Publications by Year in descending order

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89
papers

5,548
citations

70961

41
h-index

82410

72
g-index

134
all docs

134
docs citations

134
times ranked

7697
citing authors

#	ARTICLE	IF	CITATIONS
1	The Syk Protein Tyrosine Kinase Is Essential for Fc γ 3 Receptor Signaling in Macrophages and Neutrophils. <i>Molecular and Cellular Biology</i> , 1998, 18, 4209-4220.	1.1	356
2	Mechanotransduction, PROX1, and FOXC2 Cooperate to Control Connexin37 and Calcineurin during Lymphatic-Valve Formation. <i>Developmental Cell</i> , 2012, 22, 430-445.	3.1	339
3	A novel multistep mechanism for initial lymphangiogenesis in mouse embryos based on ultramicroscopy. <i>EMBO Journal</i> , 2013, 32, 629-644.	3.5	252
4	The role of fatty acid β -oxidation in lymphangiogenesis. <i>Nature</i> , 2017, 542, 49-54.	13.7	240
5	The junctional adhesion molecule (JAM) family members JAM-2 and JAM-3 associate with the cell polarity protein PAR-3: a possible role for JAMs in endothelial cell polarity. <i>Journal of Cell Science</i> , 2003, 116, 3879-3891.	1.2	234
6	Stabilizing the VE-cadherin-catenin complex blocks leukocyte extravasation and vascular permeability. <i>EMBO Journal</i> , 2011, 30, 4157-4170.	3.5	222
7	Molecular cloning of LSIRF, a lymphoid-specific member of the interferon regulatory factor family that binds the interferon-stimulated response element (ISRE). <i>Nucleic Acids Research</i> , 1995, 23, 2127-2136.	6.5	219
8	Toxic gain of function from mutant <scp>FUS</scp> protein is crucial to trigger cell autonomous motor neuron loss. <i>EMBO Journal</i> , 2016, 35, 1077-1097.	3.5	187
9	FOXC2 and fluid shear stress stabilize postnatal lymphatic vasculature. <i>Journal of Clinical Investigation</i> , 2015, 125, 3861-3877.	3.9	186
10	VE-PTP controls blood vessel development by balancing Tie-2 activity. <i>Journal of Cell Biology</i> , 2009, 185, 657-671.	2.3	167
11	Matrix stiffness controls lymphatic vessel formation through regulation of a GATA2-dependent transcriptional program. <i>Nature Communications</i> , 2018, 9, 1511.	5.8	122
12	Generation of completely embryonic stem cell-derived mutant mice using tetraploid blastocyst injection. <i>Mechanisms of Development</i> , 1997, 62, 137-145.	1.7	121
13	HPK1 Is Activated by Lymphocyte Antigen Receptors and Negatively Regulates AP-1. <i>Immunity</i> , 2000, 12, 399-408.	6.6	118
14	Dual Interaction of JAM-C with JAM-B and β 2Integrin: Function in Junctional Complexes and Leukocyte Adhesion. <i>Molecular Biology of the Cell</i> , 2005, 16, 4992-5003.	0.9	109
15	The role of chemokines and their receptors in angiogenesis. <i>Cellular and Molecular Life Sciences</i> , 2011, 68, 2811-2830.	2.4	102
16	The hormonal peptide Elabela guides angioblasts to the midline during vasculogenesis. <i>ELife</i> , 2015, 4, .	2.8	86
17	Multiple roles of lymphatic vessels in peripheral lymph node development. <i>Journal of Experimental Medicine</i> , 2018, 215, 2760-2777.	4.2	85
18	A novel family of fluorescent hypoxia sensors reveal strong heterogeneity in tumor hypoxia at the cellular level. <i>EMBO Journal</i> , 2016, 35, 102-113.	3.5	80

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19	Regulation of Developmental Lymphangiogenesis by Syk+ Leukocytes. <i>Developmental Cell</i> , 2010, 18, 437-449.	3.1	78
20	Tie1 deletion inhibits tumor growth and improves angiopoietin antagonist therapy. <i>Journal of Clinical Investigation</i> , 2014, 124, 824-834.	3.9	78
21	Intravital two-photon microscopy of lymphatic vessel development and function using a transgenic <i><i>Prox1</i></i> promoter-directed mOrange2 reporter mouse. <i>Biochemical Society Transactions</i> , 2011, 39, 1674-1681.	1.6	76
22	CCR7-mediated LFA-1 functions in T cells are regulated by 2 independent ADAP/SKAP55 modules. <i>Blood</i> , 2012, 119, 777-785.	0.6	74
23	Podoplanin and CLEC-2 drive cerebrovascular patterning and integrity during development. <i>Blood</i> , 2015, 125, 3769-3777.	0.6	73
24	SH2/SH3 Adaptor Proteins Can Link Tyrosine Kinases to a Ste20-related Protein Kinase, HPK1. <i>Journal of Biological Chemistry</i> , 1997, 272, 27804-27811.	1.6	72
25	Activation or suppression of NF κ B by HPK1 determines sensitivity to activation-induced cell death. <i>EMBO Journal</i> , 2005, 24, 4279-4290.	3.5	71
26	Identification of a clonally expanding haematopoietic compartment in bone marrow. <i>EMBO Journal</i> , 2012, 32, 219-230.	3.5	70
27	Caspase-mediated Cleavage of Hematopoietic Progenitor Kinase 1 (HPK1) Converts an Activator of NF κ B into an Inhibitor of NF κ B. <i>Journal of Biological Chemistry</i> , 2001, 276, 14675-14684.	1.6	66
28	Polyoma Middle T-induced Vascular Tumor Formation: The Role of the Plasminogen Activator/Plasmin System. <i>Journal of Cell Biology</i> , 1997, 137, 953-963.	2.3	65
29	The Adaptor Protein Gads (Grb2-Related Adaptor Downstream of Shc) Is Implicated in Coupling Hemopoietic Progenitor Kinase-1 to the Activated TCR. <i>Journal of Immunology</i> , 2000, 165, 1417-1426.	0.4	64
30	The Novel Oral Syk Inhibitor, BI1002494, Protects Mice From Arterial Thrombosis and Thromboinflammatory Brain Infarction. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016, 36, 1247-1253.	1.1	62
31	Distinct roles of <i><sc>VE</sc></i> $\hat{\epsilon}$ adhesion for development and maintenance of specific lymph vessel beds. <i>EMBO Journal</i> , 2018, 37, .	3.5	62
32	B Cell Adaptor Containing Src Homology 2 Domain (Bash) Links B Cell Receptor Signaling to the Activation of Hematopoietic Progenitor Kinase 1. <i>Journal of Experimental Medicine</i> , 2001, 194, 529-540.	4.2	61
33	Phosphorylation of CARMA1 by HPK1 is critical for NF κ B activation in T cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 14508-14513.	3.3	60
34	An Evolutionarily Conserved Role for Polydom/Svep1 During Lymphatic Vessel Formation. <i>Circulation Research</i> , 2017, 120, 1263-1275.	2.0	59
35	Activation of Hematopoietic Progenitor Kinase 1 Involves Relocation, Autophosphorylation, and Transphosphorylation by Protein Kinase D1. <i>Molecular and Cellular Biology</i> , 2005, 25, 2364-2383.	1.1	57
36	Synergistic Regulation of Immunoreceptor Signaling by SLP-76-Related Adaptor Clnk and Serine/Threonine Protein Kinase HPK-1. <i>Molecular and Cellular Biology</i> , 2001, 21, 6102-6112.	1.1	49

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37	Activation of Hematopoietic Progenitor Kinase-1 by Erythropoietin. <i>Blood</i> , 1999, 93, 3347-3354.	0.6	48
38	Hematopoietic Progenitor Kinase 1 Is a Negative Regulator of Dendritic Cell Activation. <i>Journal of Immunology</i> , 2009, 182, 6187-6194.	0.4	48
39	Modulation of synaptic function through the $\hat{\pm}$ -neurexin $\hat{\pm}$ specific ligand neurexophilin-1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E1274-83.	3.3	47
40	Endothelial cell transformation by polyomavirus middle T antigen in mice lacking Src-related kinases. <i>Current Biology</i> , 1994, 4, 100-109.	1.8	46
41	ShcA and Grb2 mediate polyoma middle T antigen-induced endothelial transformation and Gab1 tyrosine phosphorylation. <i>EMBO Journal</i> , 2001, 20, 6327-6336.	3.5	45
42	Hematopoietic progenitor kinase 1 is a critical component of prostaglandin E2-mediated suppression of the anti-tumor immune response. <i>Cancer Immunology, Immunotherapy</i> , 2010, 59, 419-429.	2.0	44
43	Oncogenic Properties Of The Middle T Antigens Of Polyomaviruses. <i>Advances in Cancer Research</i> , 1994, 64, 125-157.	1.9	43
44	Cdk5 controls lymphatic vessel development and function by phosphorylation of Foxc2. <i>Nature Communications</i> , 2015, 6, 7274.	5.8	42
45	Efficient homing of T cells via afferent lymphatics requires mechanical arrest and integrin-supported chemokine guidance. <i>Nature Communications</i> , 2020, 11, 1114.	5.8	41
46	Caspase-cleaved HPK1 induces CD95L-independent activation-induced cell death in T and B lymphocytes. <i>Blood</i> , 2007, 110, 3968-3977.	0.6	40
47	Upregulation of VCAM-1 in lymphatic collectors supports dendritic cell entry and rapid migration to lymph nodes in inflammation. <i>Journal of Experimental Medicine</i> , 2021, 218, .	4.2	37
48	Sustained JNK signaling by proteolytically processed HPK1 mediates IL-3 independent survival during monocytic differentiation. <i>Cell Death and Differentiation</i> , 2007, 14, 568-575.	5.0	36
49	Intravital imaging reveals systemic ezrin inhibition impedes cancer cell migration and lymph node metastasis in breast cancer. <i>Breast Cancer Research</i> , 2019, 21, 12.	2.2	36
50	A qualitative comparison of ten tissue clearing techniques. <i>Histology and Histopathology</i> , 2018, 33, 181-199.	0.5	35
51	Migration inhibition of mammary epithelial cells by Syk is blocked in the presence of DDR1 receptors. <i>Cellular and Molecular Life Sciences</i> , 2011, 68, 3757-3770.	2.4	34
52	Targeted downregulation of platelet CLEC-2 occurs through Syk-independent internalization. <i>Blood</i> , 2015, 125, 4069-4077.	0.6	34
53	Altered BCR signalling quality predisposes to autoimmune disease and a pre-diabetic state. <i>EMBO Journal</i> , 2012, 31, 3363-3374.	3.5	33
54	VIPAR, a quantitative approach to 3D histopathology applied to lymphatic malformations. <i>JCI Insight</i> , 2017, 2, .	2.3	33

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55	Maturation of Platelet Function During Murine Fetal Development In Vivo. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017, 37, 1076-1086.	1.1	28
56	Molecular imaging of MMP activity discriminates unstable from stable plaque phenotypes in shear-stress induced murine atherosclerosis. <i>PLoS ONE</i> , 2018, 13, e0204305.	1.1	27
57	HPK1 Associates with SKAP-HOM to Negatively Regulate Rap1-Mediated B-Lymphocyte Adhesion. <i>PLoS ONE</i> , 2010, 5, e12468.	1.1	26
58	Receptor tyrosine kinase inhibitors: Are they real tumor killers?. <i>International Journal of Cancer</i> , 2016, 138, 540-554.	2.3	26
59	Hematopoietic progenitor kinase 1 (HPK1) is required for LFA-1-mediated neutrophil recruitment during the acute inflammatory response. <i>Blood</i> , 2013, 121, 4184-4194.	0.6	23
60	Dendritic Cells and T Cells Interact Within Murine Afferent Lymphatic Capillaries. <i>Frontiers in Immunology</i> , 2019, 10, 520.	2.2	23
61	HPK1 competes with ADAP for SLP-76 binding and <i>via</i> Rap1 negatively affects T cell adhesion. <i>European Journal of Immunology</i> , 2010, 40, 3220-3225.	1.6	22
62	The guanine nucleotide exchange factor Arhgef7/Pix promotes axon formation upstream of TC10. <i>Scientific Reports</i> , 2018, 8, 8811.	1.6	20
63	Fusing VE-Cadherin to β -Catenin Impairs Fetal Liver Hematopoiesis and Lymph but Not Blood Vessel Formation. <i>Molecular and Cellular Biology</i> , 2014, 34, 1634-1648.	1.1	19
64	Signal transduction and co-stimulatory pathways. <i>Transplant Immunology</i> , 2002, 9, 69-82.	0.6	18
65	Developmental partitioning of SYK and ZAP70 prevents autoimmunity and cancer. <i>Molecular Cell</i> , 2021, 81, 2094-2111.e9.	4.5	17
66	Cx47 fine-tunes the handling of serum lipids but is dispensable for lymphatic vascular function. <i>PLoS ONE</i> , 2017, 12, e0181476.	1.1	17
67	Visualization of Lymphatic Vessel Development, Growth, and Function. <i>Advances in Anatomy, Embryology and Cell Biology</i> , 2014, 214, 167-186.	1.0	16
68	Mature oligodendrocytes bordering lesions limit demyelination and favor myelin repair via heparan sulfate production. <i>ELife</i> , 2020, 9, .	2.8	16
69	Rapid methods for the evaluation of fluorescent reporters in tissue clearing and the segmentation of large vascular structures. <i>IScience</i> , 2021, 24, 102650.	1.9	11
70	Hpk1. <i>The AFCS-nature Molecule Pages</i> , 0, , .	0.2	11
71	Lymphatic endothelial differentiation: start out with Sox - carry on with Prox. <i>Genome Biology</i> , 2008, 9, 243.	13.9	10
72	Scalable robust graph and feature extraction for arbitrary vessel networks in large volumetric datasets. <i>BMC Bioinformatics</i> , 2021, 22, 346.	1.2	9

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73	Vegfr3-tdTomato, a reporter mouse for microscopic visualization of lymphatic vessel by multiple modalities. PLoS ONE, 2021, 16, e0249256.	1.1	8
74	Novel components of mammalian stress-activated protein kinase cascades. Biochemical Society Transactions, 1997, 25, 491-498.	1.6	7
75	Multiscale and Multimodal Optical Imaging of the Ultrastructure of Human Liver Biopsies. Frontiers in Physiology, 2021, 12, 637136.	1.3	7
76	Three-Dimensional Visualization of the Lymphatic Vasculature. Methods in Molecular Biology, 2018, 1846, 1-18.	0.4	6
77	Suboptimal B cell antigen receptor signaling activity in vivo elicits germinal center counterselection mechanisms. European Journal of Immunology, 2015, 45, 603-611.	1.6	5
78	New Therapeutic Approaches for Conjunctival Melanoma—What We Know So Far and Where Therapy Is Potentially Heading: Focus on Lymphatic Vessels and Dendritic Cells. International Journal of Molecular Sciences, 2022, 23, 1478.	1.8	4
79	Tissue clearing may alter emission and absorption properties of common fluorophores. Scientific Reports, 2022, 12, 5551.	1.6	4
80	The BAFF signaling function of Syk in B cell homeostasis. EMBO Journal, 2015, 34, 838-840.	3.5	3
81	Automated Segmentation of Immunostained Cell Nuclei in 3D Ultramicroscopy Images. Lecture Notes in Computer Science, 2016, , 105-116.	1.0	3
82	Introductory Remarks. Advances in Anatomy, Embryology and Cell Biology, 2014, 214, 1-4.	1.0	3
83	A novel model for ectopic, chronic, intravital multiphoton imaging of bone marrow vasculature and architecture in split femurs. Intravital, 2015, 4, e1066949.	2.0	2
84	Rapid Methods for the Evaluation of Fluorescent Reporters in Tissue Clearing and the Segmentation of Large Vascular Structures. SSRN Electronic Journal, 0, , .	0.4	2
85	Immortalization of Endothelial Cells. , 2004, , 63-72.		2
86	VE-PTP controls blood vessel development by balancing Tie-2 activity. Journal of Experimental Medicine, 2009, 206, i11-i11.	4.2	1
87	Characterization of Hematopoietic Progenitor Kinase 1 (HPK1) in Multiple Myeloma: a Player in Pathogenesis?., Blood, 2011, 118, 3956-3956.	0.6	0
88	Unperturbed Immune Function despite Mutation of C-Terminal Tyrosines in Syk Previously Implicated in Signaling and Activity Regulation. Molecular and Cellular Biology, 2017, 37, .	1.1	0
89	HPK1. , 2018, , 2421-2427.		0