

# Kees Jalink

## List of Publications by Year in descending order

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98  
papers

9,388  
citations

44069

48  
h-index

39675

94  
g-index

146  
all docs

146  
docs citations

146  
times ranked

12241  
citing authors

#	ARTICLE	IF	CITATIONS
1	Lysophosphatidate-induced cell proliferation: Identification and dissection of signaling pathways mediated by G proteins. <i>Cell</i> , 1989, 59, 45-54.	28.9	831
2	REV7 counteracts DNA double-strand break resection and affects PARP inhibition. <i>Nature</i> , 2015, 521, 541-544.	27.8	487
3	Detecting cAMP-induced Epac activation by fluorescence resonance energy transfer: Epac as a novel cAMP indicator. <i>EMBO Reports</i> , 2004, 5, 1176-1180.	4.5	404
4	Genome-wide Maps of Nuclear Lamina Interactions in Single Human Cells. <i>Cell</i> , 2015, 163, 134-147.	28.9	399
5	The Drosophila Light-Activated Conductance Is Composed of the Two Channels TRP and TRPL. <i>Cell</i> , 1996, 85, 651-659.	28.9	345
6	TRPM7, a novel regulator of actomyosin contractility and cell adhesion. <i>EMBO Journal</i> , 2006, 25, 290-301.	7.8	323
7	Peptide Diffusion, Protection, and Degradation in Nuclear and Cytoplasmic Compartments before Antigen Presentation by MHC Class I. <i>Immunity</i> , 2003, 18, 97-108.	14.3	267
8	Bright cyan fluorescent protein variants identified by fluorescence lifetime screening. <i>Nature Methods</i> , 2010, 7, 137-139.	19.0	258
9	Tamoxifen resistance by a conformational arrest of the estrogen receptor $\hat{\pm}$ after PKA activation in breast cancer. <i>Cancer Cell</i> , 2004, 5, 597-605.	16.8	241
10	Fourth-Generation Epac-Based FRET Sensors for cAMP Feature Exceptional Brightness, Photostability and Dynamic Range: Characterization of Dedicated Sensors for FLIM, for Ratiometry and with High Affinity. <i>PLoS ONE</i> , 2015, 10, e0122513.	2.5	230
11	InsP3 Receptor Is Essential for Growth and Differentiation but Not for Vision in Drosophila. <i>Neuron</i> , 1997, 18, 881-887.	8.1	226
12	Monitoring Agonist-induced Phospholipase C Activation in Live Cells by Fluorescence Resonance Energy Transfer. <i>Journal of Biological Chemistry</i> , 2001, 276, 15337-15344.	3.4	225
13	Correcting Confocal Acquisition to Optimize Imaging of Fluorescence Resonance Energy Transfer by Sensitized Emission. <i>Biophysical Journal</i> , 2004, 86, 2517-2529.	0.5	213
14	Spatiotemporal Coupling of cAMP Transporter to CFTR Chloride Channel Function in the Gut Epithelia. <i>Cell</i> , 2007, 131, 940-951.	28.9	191
15	Enhancer hubs and loop collisions identified from single-allele topologies. <i>Nature Genetics</i> , 2018, 50, 1151-1160.	21.4	189
16	TRPM7 Is Required for Breast Tumor Cell Metastasis. <i>Cancer Research</i> , 2012, 72, 4250-4261.	0.9	186
17	Calcium Signaling Regulates Translocation and Activation of Rac. <i>Journal of Biological Chemistry</i> , 2003, 278, 39413-39421.	3.4	178
18	Integrins control motile strategy through a Rho-cofilin pathway. <i>Journal of Cell Biology</i> , 2005, 169, 515-526.	5.2	175

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19	A mTurquoise-Based cAMP Sensor for Both FLIM and Ratiometric Read-Out Has Improved Dynamic Range. <i>PLoS ONE</i> , 2011, 6, e19170.	2.5	172
20	PIP2 signaling in lipid domains: a critical re-evaluation. <i>EMBO Journal</i> , 2005, 24, 1664-1673.	7.8	167
21	A Comparison of Donor-Acceptor Pairs for Genetically Encoded FRET Sensors: Application to the Epac cAMP Sensor as an Example. <i>PLoS ONE</i> , 2008, 3, e1916.	2.5	147
22	Optimizing Imaging Conditions for Demanding Multi-Color Super Resolution Localization Microscopy. <i>PLoS ONE</i> , 2016, 11, e0158884.	2.5	143
23	Parathyroid Hormone Activates TRPV5 via PKA-Dependent Phosphorylation. <i>Journal of the American Society of Nephrology: JASN</i> , 2009, 20, 1693-1704.	6.1	142
24	Spatial Separation of HLA-DM/HLA-DR Interactions within MIIC and Phagosome-Induced Immune Escape. <i>Immunity</i> , 2005, 22, 221-233.	14.3	113
25	Activation of TRPM7 Channels by Phospholipase C-coupled Receptor Agonists. <i>Journal of Biological Chemistry</i> , 2007, 282, 232-239.	3.4	111
26	PKA-induced resistance to tamoxifen is associated with an altered orientation of ER $\chi$ towards co-activator SRC-1. <i>EMBO Journal</i> , 2007, 26, 3534-3544.	7.8	110
27	Acute loss of Cell-Cell Communication Caused by G Protein-coupled Receptors: A Critical Role for c-Src. <i>Journal of Cell Biology</i> , 1998, 140, 1199-1209.	5.2	108
28	8- <i>pCPTA</i> is a Selective cAMP Analogue. <i>ChemBioChem</i> , 2008, 9, 2052-2054.	2.5	106
29	A G Protein-Coupled Receptor Phosphatase Required for Rhodopsin Function. <i>Science</i> , 1997, 277, 687-690.	12.6	104
30	Exogenous phospholipase D generates lysophosphatidic acid and activates Ras, Rho and Ca <sup>2+</sup> signaling pathways. <i>Current Biology</i> , 1998, 8, 386-392.	3.9	96
31	Flat clathrin lattices are dynamic actin-controlled hubs for clathrin-mediated endocytosis and signalling of specific receptors. <i>Nature Communications</i> , 2017, 8, 16068.	12.8	93
32	Agonist-induced PIP2 Hydrolysis Inhibits Cortical Actin Dynamics: Regulation at a Global but not at a Micrometer Scale. <i>Molecular Biology of the Cell</i> , 2002, 13, 3257-3267.	2.1	91
33	An emerging role for PtdIns(4,5)P <sub>2</sub> -mediated signalling in human disease. <i>Trends in Pharmacological Sciences</i> , 2005, 26, 654-660.	8.7	86
34	Dopaminergic Modulation of cAMP Drives Nonlinear Plasticity across the <i>Drosophila</i> Mushroom Body Lobes. <i>Current Biology</i> , 2014, 24, 822-831.	3.9	86
35	Direct Spatial Control of Epac1 by Cyclic AMP. <i>Molecular and Cellular Biology</i> , 2009, 29, 2521-2531.	2.3	81
36	Initiation of lamellipodia and ruffles involves cooperation between mDia1 and the Arp2/3 complex. <i>Journal of Cell Science</i> , 2015, 128, 3796-810.	2.0	79

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37	The fidelity of stochastic single-molecule super-resolution reconstructions critically depends upon robust background estimation. <i>Scientific Reports</i> , 2014, 4, 3854.	3.3	76
38	Regulation of connexin43 gap junctional communication by phosphatidylinositol 4,5-bisphosphate. <i>Journal of Cell Biology</i> , 2007, 177, 881-891.	5.2	74
39	WAPL-Mediated Removal of Cohesin Protects against Segregation Errors and Aneuploidy. <i>Current Biology</i> , 2013, 23, 2071-2077.	3.9	71
40	G protein-coupled receptors: the inside story. <i>BioEssays</i> , 2010, 32, 13-16.	2.5	68
41	LPA Is a Chemorepellent for B16 Melanoma Cells: Action through the cAMP-Elevating LPA5 Receptor. <i>PLoS ONE</i> , 2011, 6, e29260.	2.5	67
42	Function and regulation of the channel-kinase TRPM7 in health and disease. <i>European Journal of Cell Biology</i> , 2014, 93, 455-465.	3.6	66
43	TRPM7 triggers Ca <sup>2+</sup> sparks and invadosome formation in neuroblastoma cells. <i>Cell Calcium</i> , 2013, 54, 404-415.	2.4	64
44	Cl <sup>-</sup> mediates activation of a depolarizing chloride current that accompanies RhoA activation in both neuronal and nonneuronal cells. <i>Current Biology</i> , 2001, 11, 121-124.	3.9	61
45	Spatial Regulation of Cyclic AMP-Epac1 Signaling in Cell Adhesion by ERM Proteins. <i>Molecular and Cellular Biology</i> , 2010, 30, 5421-5431.	2.3	58
46	Modular actin nano-architecture enables podosome protrusion and mechanosensing. <i>Nature Communications</i> , 2019, 10, 5171.	12.8	56
47	Synaptic Defects and Compensatory Regulation of Inositol Metabolism in Inositol Polyphosphate 1-Phosphatase Mutants. <i>Neuron</i> , 1998, 20, 1219-1229.	8.1	55
48	The NO/cGMP pathway inhibits transient cAMP signals through the activation of PDE2 in striatal neurons. <i>Frontiers in Cellular Neuroscience</i> , 2013, 7, 211.	3.7	55
49	PFA fixation enables artifact-free super-resolution imaging of the actin cytoskeleton and associated proteins. <i>Biology Open</i> , 2016, 5, 1001-1009.	1.2	55
50	Intracellular tortuosity underlies slow cAMP diffusion in adult ventricular myocytes. <i>Cardiovascular Research</i> , 2016, 110, 395-407.	3.8	53
51	CLIC4 regulates cell adhesion and $\beta$ 1 integrin trafficking. <i>Journal of Cell Science</i> , 2014, 127, 5189-203.	2.0	50
52	siFLIM: single-image frequency-domain FLIM provides fast and photon-efficient lifetime data. <i>Nature Methods</i> , 2016, 13, 501-504.	19.0	48
53	Spatiotemporal Regulation of Chloride Intracellular Channel Protein CLIC4 by RhoA. <i>Molecular Biology of the Cell</i> , 2009, 20, 4664-4672.	2.1	47
54	Glycerophosphodiesterase GDE2 Promotes Neuroblastoma Differentiation through Glypican Release and Is a Marker of Clinical Outcome. <i>Cancer Cell</i> , 2016, 30, 548-562.	16.8	46

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55	A Role for PtdIns(4,5)P <sub>2</sub> and PIP5K $\beta$ in Regulating Stress-Induced Apoptosis. <i>Current Biology</i> , 2006, 16, 1850-1856.	3.9	44
56	cAMP inhibits migration, ruffling and paxillin accumulation in focal adhesions of pancreatic ductal adenocarcinoma cells: Effects of PKA and EPAC. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2013, 1833, 2664-2672.	4.1	44
57	Peptide-Functionalized Luminescent Iridium Complexes for Lifetime Imaging of CXCR4 Expression. <i>ChemBioChem</i> , 2011, 12, 1897-1903.	2.6	43
58	Negative regulation of urokinase receptor activity by a GPI-specific phospholipase C in breast cancer cells. <i>ELife</i> , 2017, 6, .	6.0	43
59	Rapid Remodeling of Invadosomes by Gi-coupled Receptors. <i>Journal of Biological Chemistry</i> , 2016, 291, 4323-4333.	3.4	41
60	Reactive astrocytes in multiple sclerosis impair neuronal outgrowth through TRPM7-mediated chondroitin sulfate proteoglycan production. <i>Glia</i> , 2019, 67, 68-77.	4.9	35
61	TRPM7 maintains progenitor-like features of neuroblastoma cells: implications for metastasis formation. <i>Oncotarget</i> , 2015, 6, 8760-8776.	1.8	34
62	Beyond ion-conduction: Channel-dependent and -independent roles of TRP channels during development and tissue homeostasis. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2016, 1863, 1436-1446.	4.1	33
63	The molecular architecture of hemidesmosomes as revealed by super-resolution microscopy. <i>Journal of Cell Science</i> , 2015, 128, 3714-9.	2.0	32
64	The Pleckstrin Homology Domain of Phosphoinositide-specific Phospholipase C $\beta$ 4 Is Not a Critical Determinant of the Membrane Localization of the Enzyme. <i>Journal of Biological Chemistry</i> , 2004, 279, 24362-24371.	3.4	29
65	Astral microtubules control redistribution of dynein at the cell cortex to facilitate spindle positioning. <i>Cell Cycle</i> , 2014, 13, 1162-1170.	2.6	29
66	TRPM7 controls mesenchymal features of breast cancer cells by tensional regulation of SOX4. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018, 1864, 2409-2419.	3.8	29
67	Hypersensitivity to DNA damage in antephase as a safeguard for genome stability. <i>Nature Communications</i> , 2016, 7, 12618.	12.8	28
68	Resistance to Antiestrogen Arzoxifene Is Mediated by Overexpression of Cyclin D1. <i>Molecular Endocrinology</i> , 2009, 23, 1335-1345.	3.7	27
69	ATP Released by Injured Neurons Activates Schwann Cells. <i>Frontiers in Cellular Neuroscience</i> , 2016, 10, 134.	3.7	27
70	Spectral imaging of FRET-based sensors reveals sustained cAMP gradients in three spatial dimensions. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2018, 93, 1029-1038.	1.5	27
71	Direct measurement of cyclic AMP diffusion and signaling through connexin43 gap junctional channels. <i>Experimental Cell Research</i> , 2007, 313, 415-423.	2.6	26
72	Integrin cytoplasmic domain-associated protein-1 (ICAP-1) interacts with the ROCK-I kinase at the plasma membrane. <i>Journal of Cellular Physiology</i> , 2006, 208, 620-628.	4.1	24

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73	Intravital imaging of fluorescent markers and FRET probes by DNA tattooing. BMC Biotechnology, 2007, 7, 2.	3.3	23
74	Modulated electron-multiplied fluorescence lifetime imaging microscope: all-solid-state camera for fluorescence lifetime imaging. Journal of Biomedical Optics, 2012, 17, 126020.	2.6	23
75	The TRPM7 interactome defines a cytoskeletal complex linked to neuroblastoma progression. European Journal of Cell Biology, 2016, 95, 465-474.	3.6	23
76	Chapter 7 FilterFRET. Laboratory Techniques in Biochemistry and Molecular Biology / Edited By T S Work [and] E Work, 2009, , 289-349.	0.2	21
77	Co-Orientation: Quantifying Simultaneous Co-Localization and Orientational Alignment of Filaments in Light Microscopy. PLoS ONE, 2015, 10, e0131756.	2.5	21
78	The rod domain is not essential for the function of plectin in maintaining tissue integrity. Molecular Biology of the Cell, 2015, 26, 2402-2417.	2.1	18
79	Profilin binding couples chloride intracellular channel protein CLIC4 to RhoA-mediated signaling and filopodium formation. Journal of Biological Chemistry, 2018, 293, 19161-19176.	3.4	18
80	Detecting cAMP with an Epac-Based FRET Sensor in Single Living Cells. Methods in Molecular Biology, 2014, 1071, 49-58.	0.9	18
81	Optotaxis: Caged Lysophosphatidic Acid Enables Optical Control of a Chemotactic Gradient. Cell Chemical Biology, 2016, 23, 629-634.	5.2	16
82	Schwann cells are activated by ATP released from neurons in an <i>in vitro</i> cellular model of Miller Fisher syndrome. DMM Disease Models and Mechanisms, 2017, 10, 597-603.	2.4	16
83	ATP Changes the Fluorescence Lifetime of Cyan Fluorescent Protein via an Interaction with His148. PLoS ONE, 2010, 5, e13862.	2.5	16
84	Fluorescence Resonance Energy Transfer Microscopy (FRET). Methods in Molecular Biology, 2015, 1251, 67-82.	0.9	15
85	An Introduction to Fluorescence Imaging Techniques Geared Towards Biosensor Applications. Methods in Molecular Biology, 2014, 1071, 17-28.	0.9	14
86	TRPM7 residue S1269 mediates cAMP dependence of Ca <sup>2+</sup> influx. PLoS ONE, 2019, 14, e0209563.	2.5	13
87	An activatable, polarity dependent, dual-luminescent imaging agent with a long luminescence lifetime. Chemical Communications, 2014, 50, 9733-9736.	4.1	10
88	Sequence-dependent trafficking and activity of GDE2, a GPI-specific phospholipase promoting neuronal differentiation. Journal of Cell Science, 2020, 133, .	2.0	8
89	Recording Intracellular cAMP Levels with EPAC-Based FRET Sensors by Fluorescence Lifetime Imaging. Methods in Molecular Biology, 2015, 1294, 13-24.	0.9	7
90	MMP-2/9-Specific Activatable Lifetime Imaging Agent. Sensors, 2015, 15, 11076-11091.	3.8	6

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91	Dynamic FRET-FLIM based screening of signal transduction pathways. Scientific Reports, 2021, 11, 20711.	3.3	6
92	hiFRET: some tailwind for FRET resolves weak protein interactions. Nature Methods, 2013, 10, 947-948.	19.0	5
93	Investigation into the mechanism regulating MRP localization. Experimental Cell Research, 2008, 314, 330-341.	2.6	4
94	Tips and tricks for artifact-free PFA-based fixation of the actin cytoskeleton and its regulatory proteins for single molecule localization super-resolution microscopy. Protocol Exchange, 0, , .	0.3	4
95	Lysophosphatidic Acid as a Novel Lipid Mediator. Current Topics in Membranes, 1994, , 439-450.	0.9	2
96	Lysophosphatidic Acid as a Lipid Mediator: Signal Transduction and Receptor Identification. , 1993, , 55-61.		0
97	Lysophosphatidic Acid. , 1996, , 277-284.		0
98	Time-Domain Fluorescence Lifetime Imaging of cAMP Levels with EPAC-Based FRET Sensors. Methods in Molecular Biology, 2022, 2483, 105-116.	0.9	0