

Philippe I H Bastiaens

List of Publications by Citations

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102
papers

10,008
citations

50
h-index

100
g-index

109
ext. papers

11,059
ext. citations

14.9
avg, IF

5.99
L-index

#	Paper	IF	Citations
102	An acylation cycle regulates localization and activity of palmitoylated Ras isoforms. <i>Science</i> , 2005 , 307, 1746-52	33.3	679
101	Protein analysis on a proteomic scale. <i>Nature</i> , 2003 , 422, 208-15	50.4	541
100	Growth factor-induced MAPK network topology shapes Erk response determining PC-12 cell fate. <i>Nature Cell Biology</i> , 2007 , 9, 324-30	23.4	510
99	Small molecule inhibition of the KRAS-PDE δ interaction impairs oncogenic KRAS signalling. <i>Nature</i> , 2013 , 497, 638-42	50.4	460
98	Imaging biochemistry inside cells. <i>Trends in Cell Biology</i> , 2001 , 11, 203-11	18.3	403
97	Imaging sites of receptor dephosphorylation by PTP1B on the surface of the endoplasmic reticulum. <i>Science</i> , 2002 , 295, 1708-11	33.3	368
96	The palmitoylation machinery is a spatially organizing system for peripheral membrane proteins. <i>Cell</i> , 2010 , 141, 458-71	56.2	326
95	PKC α regulates beta1 integrin-dependent cell motility through association and control of integrin traffic. <i>EMBO Journal</i> , 1999 , 18, 3909-23	13	294
94	Small-molecule inhibition of APT1 affects Ras localization and signaling. <i>Nature Chemical Biology</i> , 2010 , 6, 449-56	11.7	287
93	Quantitative imaging of lateral ErbB1 receptor signal propagation in the plasma membrane. <i>Science</i> , 2000 , 290, 1567-70	33.3	287
92	Imaging protein kinase C α activation in cells. <i>Science</i> , 1999 , 283, 2085-9	33.3	278
91	The GDI-like solubilizing factor PDE δ sustains the spatial organization and signalling of Ras family proteins. <i>Nature Cell Biology</i> , 2011 , 14, 148-58	23.4	240
90	Spatial coordination of spindle assembly by chromosome-mediated signaling gradients. <i>Science</i> , 2005 , 309, 1373-6	33.3	240
89	Arl2-GTP and Arl3-GTP regulate a GDI-like transport system for farnesylated cargo. <i>Nature Chemical Biology</i> , 2011 , 7, 942-9	11.7	199
88	Spatial regulation of Fus3 MAP kinase activity through a reaction-diffusion mechanism in yeast pheromone signalling. <i>Nature Cell Biology</i> , 2007 , 9, 1319-26	23.4	198
87	Simultaneous detection of multiple green fluorescent proteins in live cells by fluorescence lifetime imaging microscopy. <i>Current Biology</i> , 1999 , 9, 269-72	6.3	198
86	EGFR activation coupled to inhibition of tyrosine phosphatases causes lateral signal propagation. <i>Nature Cell Biology</i> , 2003 , 5, 447-53	23.4	189

85	Global analysis of fluorescence lifetime imaging microscopy data. <i>Biophysical Journal</i> , 2000 , 78, 2127-37	2.9	189
84	Imaging FRET between spectrally similar GFP molecules in single cells. <i>Nature Biotechnology</i> , 2001 , 19, 167-9	44.5	187
83	Signaling from the living plasma membrane. <i>Cell</i> , 2011 , 144, 897-909	56.2	175
82	Stathmin-tubulin interaction gradients in motile and mitotic cells. <i>Science</i> , 2004 , 303, 1862-6	33.3	174
81	KRas localizes to the plasma membrane by spatial cycles of solubilization, trapping and vesicular transport. <i>Cell</i> , 2014 , 157, 459-471	56.2	166
80	Fluorescence lifetime imaging of receptor tyrosine kinase activity in cells. <i>Current Biology</i> , 1999 , 9, 1127-30	3.0	164
79	MaxSynBio: Avenues Towards Creating Cells from the Bottom Up. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 13382-13392	16.4	155
78	RabGEFs are a major determinant for specific Rab membrane targeting. <i>Journal of Cell Biology</i> , 2013 , 200, 287-300	7.3	137
77	Live-cell imaging of enzyme-substrate interaction reveals spatial regulation of PTP1B. <i>Science</i> , 2007 , 315, 115-9	33.3	122
76	Fluorescence-based sensors to monitor localization and functions of linear and K63-linked ubiquitin chains in cells. <i>Molecular Cell</i> , 2012 , 47, 797-809	17.6	121
75	Activation of the p75 neurotrophin receptor through conformational rearrangement of disulphide-linked receptor dimers. <i>Neuron</i> , 2009 , 62, 72-83	13.9	115
74	Spatial organization of intracellular communication: insights from imaging. <i>Nature Reviews Molecular Cell Biology</i> , 2010 , 11, 440-52	48.7	114
73	Spatio-temporal segregation of Ras signals: one ship, three anchors, many harbors. <i>Current Opinion in Cell Biology</i> , 2006 , 18, 351-7	9	113
72	Recruitment of Eph receptors into signaling clusters does not require ephrin contact. <i>Journal of Cell Biology</i> , 2004 , 164, 661-6	7.3	107
71	Identification of pyrazolopyridazinones as PDE inhibitors. <i>Nature Communications</i> , 2016 , 7, 11360	17.4	106
70	The interdependence of membrane shape and cellular signal processing. <i>Cell</i> , 2014 , 156, 1132-1138	56.2	98
69	Calcium-dependent oligomerization of synaptotagmins I and II. Synaptotagmins I and II are localized on the same synaptic vesicle and heterodimerize in the presence of calcium. <i>Journal of Biological Chemistry</i> , 1999 , 274, 59-66	5.4	91
68	Gradients in the self-organization of the mitotic spindle. <i>Trends in Cell Biology</i> , 2006 , 16, 125-34	18.3	90

67	Imaging phosphorylation dynamics of the epidermal growth factor receptor. <i>Journal of Biological Chemistry</i> , 2004 , 279, 36972-81	5.4	71
66	Red-edge anisotropy microscopy enables dynamic imaging of homo-FRET between green fluorescent proteins in cells. <i>Journal of Structural Biology</i> , 2004 , 147, 62-9	3.4	69
65	Discrete states of a protein interaction network govern interphase and mitotic microtubule dynamics. <i>PLoS Biology</i> , 2007 , 5, e29	9.7	68
64	Ras moves to stay in place. <i>Trends in Cell Biology</i> , 2015 , 25, 190-7	18.3	67
63	Cdt1 associates dynamically with chromatin throughout G1 and recruits Geminin onto chromatin. <i>EMBO Journal</i> , 2007 , 26, 1303-14	13	66
62	A PDE6 β Ras Inhibitor Chemotype with up to Seven H-Bonds and Picomolar Affinity that Prevents Efficient Inhibitor Release by Arl2. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 2423-2428	16.4	63
61	Development of highly potent inhibitors of the Ras-targeting human acyl protein thioesterases based on substrate similarity design. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 9832-7	16.4	63
60	In situ analysis of tyrosine phosphorylation networks by FLIM on cell arrays. <i>Nature Methods</i> , 2010 , 7, 467-72	21.6	62
59	siRNA cell arrays for high-content screening microscopy. <i>BioTechniques</i> , 2004 , 37, 454-8, 460, 462	2.5	60
58	The composition of EphB2 clusters determines the strength in the cellular repulsion response. <i>Journal of Cell Biology</i> , 2014 , 204, 409-22	7.3	59
57	Imaging in situ protein-DNA interactions in the cell nucleus using FRET-FLIM. <i>Experimental Cell Research</i> , 2005 , 309, 390-6	4.2	57
56	Imaging activation of two Ras isoforms simultaneously in a single cell. <i>ChemBioChem</i> , 2005 , 6, 78-85	3.8	57
55	The autodepalmitoylating activity of APT maintains the spatial organization of palmitoylated membrane proteins. <i>Biophysical Journal</i> , 2014 , 106, 93-105	2.9	54
54	Cell signaling as a cognitive process. <i>EMBO Journal</i> , 2017 , 36, 568-582	13	52
53	Selective chemical imaging of static actin in live cells. <i>Journal of the American Chemical Society</i> , 2012 , 134, 8480-6	16.4	51
52	Ubiquitination switches EphA2 vesicular traffic from a continuous safeguard to a finite signalling mode. <i>Nature Communications</i> , 2015 , 6, 8047	17.4	43
51	Regulation of Ras localization by acylation enables a mode of intracellular signal propagation. <i>Science Signaling</i> , 2010 , 3, ra68	8.8	41
50	A protein-interaction array inside a living cell. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 4790-46.4	46.4	39

49	EGF-dependent re-routing of vesicular recycling switches spontaneous phosphorylation suppression to EGFR signaling. <i>ELife</i> , 2015 , 4,	8.9	39
48	Single Particle Tracking Reveals that EGFR Signaling Activity Is Amplified in Clathrin-Coated Pits. <i>PLoS ONE</i> , 2015 , 10, e0143162	3.7	38
47	Reverse engineering intracellular biochemical networks. <i>Nature Chemical Biology</i> , 2008 , 4, 643-7	11.7	37
46	Dynamic recruitment of licensing factor Cdt1 to sites of DNA damage. <i>Journal of Cell Science</i> , 2011 , 124, 422-34	5.3	35
45	Quantitative microscopy and systems biology: seeing the whole picture. <i>Histochemistry and Cell Biology</i> , 2008 , 130, 833-43	2.4	35
44	Direct Measurement of Water States in Cryopreserved Cells Reveals Tolerance toward Ice Crystallization. <i>Biophysical Journal</i> , 2016 , 110, 840-9	2.9	34
43	Configurable low-cost plotter device for fabrication of multi-color sub-cellular scale microarrays. <i>Small</i> , 2014 , 10, 2870-6	11	34
42	Binding of a diphosphotyrosine-containing peptide that mimics activated platelet-derived growth factor receptor beta induces oligomerization of phosphatidylinositol 3-kinase. <i>Journal of Biological Chemistry</i> , 1998 , 273, 33379-85	5.4	32
41	Spatial cycles in G-protein crowd control. <i>EMBO Journal</i> , 2010 , 29, 2689-99	13	31
40	Cdt1 interactions in the licensing process: a model for dynamic spatiotemporal control of licensing. <i>Cell Cycle</i> , 2007 , 6, 1549-52	4.7	31
39	miRs-138 and -424 control palmitoylation-dependent CD95-mediated cell death by targeting acyl protein thioesterases 1 and 2 in CLL. <i>Blood</i> , 2015 , 125, 2948-57	2.2	30
38	Contact inhibitory Eph signaling suppresses EGF-promoted cell migration by decoupling EGFR activity from vesicular recycling. <i>Science Signaling</i> , 2018 , 11,	8.8	29
37	Assay to visualize specific protein oxidation reveals spatio-temporal regulation of SHP2. <i>Nature Communications</i> , 2017 , 8, 466	17.4	29
36	Spatial aspects of intracellular information processing. <i>Current Opinion in Genetics and Development</i> , 2010 , 20, 31-40	4.9	29
35	Lateral phosphorylation propagation: an aspect of feedback signalling?. <i>Nature Reviews Molecular Cell Biology</i> , 2003 , 4, 971-4	48.7	26
34	Fluorescence fluctuations of quantum-dot sensors capture intracellular protein interaction dynamics. <i>Nature Methods</i> , 2010 , 7, 295-8	21.6	25
33	MaxSynBio: Wege zur Synthese einer Zelle aus nicht lebenden Komponenten. <i>Angewandte Chemie</i> , 2018 , 130, 13566-13577	3.6	25
32	Multi-step loading of human minichromosome maintenance proteins in live human cells. <i>Journal of Biological Chemistry</i> , 2013 , 288, 35852-67	5.4	24

31	Imaging epidermal growth factor receptor phosphorylation in human colorectal cancer cells and human tissues. <i>Journal of Biological Chemistry</i> , 2005 , 280, 27826-31	5.4	24
30	Chemical-biological exploration of the limits of the Ras de- and repalmitoylating machinery. <i>ChemBioChem</i> , 2012 , 13, 1017-23	3.8	22
29	Interdependence between EGFR and Phosphatases Spatially Established by Vesicular Dynamics Generates a Growth Factor Sensing and Responding Network. <i>Cell Systems</i> , 2018 , 7, 295-309.e11	10.6	19
28	Reversible cryo-arrest for imaging molecules in living cells at high spatial resolution. <i>Nature Methods</i> , 2016 , 13, 665-672	21.6	19
27	Spatial cycles mediated by UNC119 solubilisation maintain Src family kinases plasma membrane localisation. <i>Nature Communications</i> , 2017 , 8, 114	17.4	18
26	A conformational sensor based on genetic code expansion reveals an autocatalytic component in EGFR activation. <i>Nature Communications</i> , 2018 , 9, 3847	17.4	17
25	Cell cycle-dependent binding modes of the ran exchange factor RCC1 to chromatin. <i>Biophysical Journal</i> , 2013 , 104, 1642-51	2.9	13
24	Imaging protein-protein interactions by fluorescence resonance energy transfer (FRET) microscopy. <i>Current Protocols in Cell Biology</i> , 2001 , Chapter 17, Unit 17.1	2.3	13
23	PDE1 inhibition impedes the proliferation and survival of human colorectal cancer cell lines harboring oncogenic KRas. <i>International Journal of Cancer</i> , 2019 , 144, 767-776	7.5	12
22	The Function of Embryonic Stem Cell-expressed RAS (E-RAS), a Unique RAS Family Member, Correlates with Its Additional Motifs and Its Structural Properties. <i>Journal of Biological Chemistry</i> , 2015 , 290, 15892-15903	5.4	11
21	Quantitative imaging of apoptosis commitment in colorectal tumor cells. <i>Differentiation</i> , 2007 , 75, 809-135	3.5	10
20	Rotational resolution of methyl-group substitution and anisotropic rotation of flavins as revealed by picosecond-resolved fluorescence depolarization. <i>Chemical Physics Letters</i> , 1990 , 165, 315-322	2.5	10
19	A Protein-Interaction Array Inside a Living Cell. <i>Angewandte Chemie</i> , 2013 , 125, 4890-4894	3.6	9
18	Silence on the relevant literature and errors in implementation. <i>Nature Biotechnology</i> , 2015 , 33, 336-9	44.5	8
17	Imaging protein-protein interactions by fluorescence resonance energy transfer (FRET) microscopy. <i>Current Protocols in Protein Science</i> , 2001 , Chapter 19, Unit19.5	3.1	8
16	Adaptive responses of cell hydration to a low temperature arrest. <i>Journal of Physiology</i> , 2016 , 594, 1663-76	3.6	7
15	Co-imaging extrinsic, intrinsic and effector caspase activity by fluorescence anisotropy microscopy. <i>Redox Biology</i> , 2018 , 19, 210-217	11.3	6
14	Optimizing cell arrays for accurate functional genomics. <i>BMC Research Notes</i> , 2012 , 5, 358	2.3	6

13	Imaging protein-protein interactions by Fluorescence Resonance Energy Transfer (FRET) microscopy. <i>Current Protocols in Neuroscience</i> , 2006 , Chapter 5, Unit 5.22	2.7	6
12	The interaction of pyrene labeled diacylglycerol with protein kinase C in mixed micelles. <i>Biophysical Chemistry</i> , 1993 , 48, 183-91	3.5	6
11	Processing Temporal Growth Factor Patterns by an Epidermal Growth Factor Receptor Network Dynamically Established in Space. <i>Annual Review of Cell and Developmental Biology</i> , 2020 , 36, 359-383	12.6	6
10	High-throughput quantification of posttranslational modifications in situ by CA-FLIM. <i>Methods in Enzymology</i> , 2011 , 500, 37-58	1.7	4
9	A self-organized synthetic morphogenic liposome responds with shape changes to local light cues. <i>Nature Communications</i> , 2021 , 12, 1548	17.4	4
8	Small-Molecule Inhibition of the UNC-Src Interaction Impairs Dynamic Src Localization in Cells. <i>Cell Chemical Biology</i> , 2019 , 26, 842-851.e7	8.2	3
7	Hypertonicity-induced cation channels in HepG2 cells: architecture and role in proliferation vs. apoptosis. <i>Journal of Physiology</i> , 2018 , 596, 1227-1241	3.9	3
6	Growth factor-dependent ErbB vesicular dynamics couple receptor signaling to spatially and functionally distinct Erk pools. <i>Science Signaling</i> , 2021 , 14,	8.8	2
5	Reversible Cryo-arrests of Living Cells to Pause Molecular Movements for High-resolution Imaging. <i>Bio-protocol</i> , 2017 , 7,	0.9	1
4	Ultrarapid cryo-arrest of living cells on a microscope enables multiscale imaging of out-of-equilibrium molecular patterns. <i>Science Advances</i> , 2021 , 7, eabk0882	14.3	0
3	Mirs-138 and -424 Control Palmitoylation-Dependent CD95-Mediated Cell Death By Targeting Acyl Protein Thioesterases 1 and 2 in Chronic Lymphocytic Leukemia. <i>Blood</i> , 2014 , 124, 1953-1953	2.2	
2	A Complex Molecular Network Controls Palmitoylation-Dependant CD95 Sensitivity Of CLL Cells. <i>Blood</i> , 2013 , 122, 4148-4148	2.2	
1	Understanding Ras Spatial Cycles Through Reaction-Diffusion Simulations. <i>Methods in Molecular Biology</i> , 2021 , 2262, 199-215	1.4	