

# Guillaume Jacquemet

## List of Publications by Year in descending order

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Version: 2024-02-01

45  
papers

3,962  
citations

185998

28  
h-index

253896

43  
g-index

67  
all docs

67  
docs citations

67  
times ranked

5848  
citing authors

#	ARTICLE	IF	CITATIONS
1	Filopodia in cell adhesion, 3D migration and cancer cell invasion. <i>Current Opinion in Cell Biology</i> , 2015, 36, 23-31.	2.6	419
2	Democratising deep learning for microscopy with ZeroCostDL4Mic. <i>Nature Communications</i> , 2021, 12, 2276.	5.8	295
3	TrackMate 7: integrating state-of-the-art segmentation algorithms into tracking pipelines. <i>Nature Methods</i> , 2022, 19, 829-832.	9.0	269
4	Endocytic Trafficking of Integrins in Cell Migration. <i>Current Biology</i> , 2015, 25, R1092-R1105.	1.8	224
5	Endothelial destabilization by angiotensin-2 via integrin $\beta 1$ activation. <i>Nature Communications</i> , 2015, 6, 5962.	5.8	210
6	Integrin endosomal signalling suppresses anoikis. <i>Nature Cell Biology</i> , 2015, 17, 1412-1421.	4.6	184
7	Defining the phospho-adesome through the phosphoproteomic analysis of integrin signalling. <i>Nature Communications</i> , 2015, 6, 6265.	5.8	150
8	Talin-KANK1 interaction controls the recruitment of cortical microtubule stabilizing complexes to focal adhesions. <i>ELife</i> , 2016, 5, .	2.8	150
9	L-type calcium channels regulate filopodia stability and cancer cell invasion downstream of integrin signalling. <i>Nature Communications</i> , 2016, 7, 13297.	5.8	141
10	RCP-driven $\beta 1$ 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
11	SHANK proteins limit integrin activation by directly interacting with Rap1 and R-Ras. <i>Nature Cell Biology</i> , 2017, 19, 292-305.	4.6	117
12	FiloQuant reveals increased filopodia density during breast cancer progression. <i>Journal of Cell Biology</i> , 2017, 216, 3387-3403.	2.3	114
13	The cell biologist's guide to super-resolution microscopy. <i>Journal of Cell Science</i> , 2020, 133, .	1.2	103
14	Filopodome Mapping Identifies p130Cas as a Mechanosensitive Regulator of Filopodia Stability. <i>Current Biology</i> , 2019, 29, 202-216.e7.	1.8	101
15	Cell-derived matrices for studying cell proliferation and directional migration in a complex 3D microenvironment. <i>Nature Protocols</i> , 2017, 12, 2376-2390.	5.5	98
16	$\beta 1$ integrin recycling promotes Arp2/3-independent cancer cell invasion via the formin FHOD3. <i>Journal of Cell Biology</i> , 2015, 210, 1013-1031.	2.3	97
17	AMPK negatively regulates tensin-dependent integrin activity. <i>Journal of Cell Biology</i> , 2017, 216, 1107-1121.	2.3	87
18	Modulation of FAK and Src adhesion signaling occurs independently of adhesion complex composition. <i>Journal of Cell Biology</i> , 2016, 212, 349-364.	2.3	85

#	ARTICLE	IF	CITATIONS
19	Targeting $\beta$ 2-integrin inhibits vascular leakage in endotoxemia. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E6467-E6476.	3.3	72
20	A proteomic approach reveals integrin activation state-dependent control of microtubule cortical targeting. Nature Communications, 2015, 6, 6135.	5.8	71
21	Rac1 is deactivated at integrin activation sites via an IQGAP1/filamin-A/RacGAP1 pathway. Journal of Cell Science, 2013, 126, 4121-35.	1.2	68
22	Avoiding a replication crisis in deep-learning-based bioimage analysis. Nature Methods, 2021, 18, 1136-1144.	9.0	56
23	Cell matrix adhesion in cell migration. Essays in Biochemistry, 2019, 63, 535-551.	2.1	53
24	Fluctuation-Based Super-Resolution Traction Force Microscopy. Nano Letters, 2020, 20, 2230-2245.	4.5	47
25	Role of adhesion receptor trafficking in 3D cell migration. Current Opinion in Cell Biology, 2013, 25, 627-632.	2.6	43
26	<scp>SHARPIN</scp> regulates collagen architecture and ductal outgrowth in the developing mouse mammary gland. EMBO Journal, 2017, 36, 165-182.	3.5	39
27	Superresolution architecture of cornerstone focal adhesions in human pluripotent stem cells. Nature Communications, 2019, 10, 4756.	5.8	38
28	Automated cell tracking using StarDist and TrackMate. F1000Research, 2020, 9, 1279.	0.8	34
29	Cargo-specific recruitment in clathrin- and dynamin-independent endocytosis. Nature Cell Biology, 2021, 23, 1073-1084.	4.6	34
30	IQGAP1 is a key node within the small GTPase network. Small GTPases, 2013, 4, 199-207.	0.7	33
31	Myosin-X and talin modulate integrin activity at filopodia tips. Cell Reports, 2021, 36, 109716.	2.9	33
32	Talin mechanosensitivity is modulated by a direct interaction with cyclin-dependent kinase-1. Journal of Biological Chemistry, 2021, 297, 100837.	1.6	30
33	DeepBacs for multi-task bacterial image analysis using open-source deep learning approaches. Communications Biology, 2022, 5, .	2.0	30
34	Imaging in focus: An introduction to denoising bioimages in the era of deep learning. International Journal of Biochemistry and Cell Biology, 2021, 140, 106077.	1.2	27
35	Endothelial cells cope with hypoxia-induced depletion of ATP via activation of cellular purine turnover and phosphotransfer networks. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2018, 1864, 1804-1815.	1.8	21
36	Effective Delivery of the CRISPR/Cas9 System Enabled by Functionalized Mesoporous Silica Nanoparticles for GFP-Tagged Paxillin Knock-in. Advanced Therapeutics, 2021, 4, 2000072.	1.6	20

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37	Filopodia Quantification Using FiloQuant. <i>Methods in Molecular Biology</i> , 2019, 2040, 359-373.	0.4	16
38	Improving the knock-in efficiency of the MOF-encapsulated CRISPR/Cas9 system through controllable embedding structures. <i>Nanoscale</i> , 2021, 13, 16525-16532.	2.8	16
39	The Sharpin interactome reveals a role for Sharpin in lamellipodium formation via the Arp2/3 complex. <i>Journal of Cell Science</i> , 2017, 130, 3094-3107.	1.2	15
40	SHANK3 conformation regulates direct actin binding and crosstalk with Rap1 signaling. <i>Current Biology</i> , 2021, 31, 4956-4970.e9.	1.8	14
41	Talin rod domain-containing protein 1 (TLNRD1) is a novel actin-bundling protein which promotes filopodia formation. <i>Journal of Cell Biology</i> , 2021, 220, .	2.3	9
42	Automated cell tracking using StarDist and TrackMate. <i>F1000Research</i> , 0, 9, 1279.	0.8	7
43	Deep learning to analyse microscopy images. <i>Biochemist</i> , 2021, 43, 60-64.	0.2	5
44	Mitosis-Resistant Adhesions Provide Molecular Memory to Dividing Cells. <i>Developmental Cell</i> , 2018, 45, 5-7.	3.1	4
45	Î±5Î²1 integrin recycling promotes Arp2/3-independent cancer cell invasion via the formin FHOD3. <i>Journal of Experimental Medicine</i> , 2015, 212, 2121001A78.	4.2	0