

# Renaud Poincloux

## List of Publications by Citations

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45  
papers

2,867  
citations

26  
h-index

53  
g-index

57  
ext. papers

3,528  
ext. citations

8.5  
avg, IF

4.73  
L-index

#	Paper	IF	Citations
45	Matrix invasion by tumour cells: a focus on MT1-MMP trafficking to invadopodia. <i>Journal of Cell Science</i> , <b>2009</b> , 122, 3015-24	5.3	374
44	Matrix architecture dictates three-dimensional migration modes of human macrophages: differential involvement of proteases and podosome-like structures. <i>Journal of Immunology</i> , <b>2010</b> , 184, 1049-61	5.3	249
43	Mycobacterial p(1)-type ATPases mediate resistance to zinc poisoning in human macrophages. <i>Cell Host and Microbe</i> , <b>2011</b> , 10, 248-59	23.4	232
42	Contractility of the cell rear drives invasion of breast tumor cells in 3D Matrigel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 1943-8	11.5	217
41	MT1-MMP-dependent invasion is regulated by TI-VAMP/VAMP7. <i>Current Biology</i> , <b>2008</b> , 18, 926-31	6.3	162
40	Diaphanous-related formins are required for invadopodia formation and invasion of breast tumor cells. <i>Cancer Research</i> , <b>2009</b> , 69, 2792-800	10.1	145
39	Protrusion force microscopy reveals oscillatory force generation and mechanosensing activity of human macrophage podosomes. <i>Nature Communications</i> , <b>2014</b> , 5, 5343	17.4	134
38	Implication of metastasis suppressor NM23-H1 in maintaining adherens junctions and limiting the invasive potential of human cancer cells. <i>Cancer Research</i> , <b>2010</b> , 70, 7710-22	10.1	116
37	Mycobacterium tuberculosis exploits asparagine to assimilate nitrogen and resist acid stress during infection. <i>PLoS Pathogens</i> , <b>2014</b> , 10, e1003928	7.6	102
36	Macrophage podosomes go 3D. <i>European Journal of Cell Biology</i> , <b>2011</b> , 90, 224-36	6.1	97
35	Spontaneous contractility-mediated cortical flow generates cell migration in three-dimensional environments. <i>Biophysical Journal</i> , <b>2011</b> , 101, 1041-5	2.9	95
34	Three-dimensional migration of macrophages requires Hck for podosome organization and extracellular matrix proteolysis. <i>Blood</i> , <b>2010</b> , 115, 1444-52	2.2	93
33	Activation of the lysosome-associated p61Hck isoform triggers the biogenesis of podosomes. <i>Traffic</i> , <b>2005</b> , 6, 682-94	5.7	77
32	Tuberculosis is associated with expansion of a motile, permissive and immunomodulatory CD16(+) monocyte population via the IL-10/STAT3 axis. <i>Cell Research</i> , <b>2015</b> , 25, 1333-51	24.7	68
31	Macrophage mesenchymal migration requires podosome stabilization by filamin A. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 13051-62	5.4	60
30	Hematopoietic cell kinase (Hck) isoforms and phagocyte duties - from signaling and actin reorganization to migration and phagocytosis. <i>European Journal of Cell Biology</i> , <b>2008</b> , 87, 527-42	6.1	50
29	HIV-1 reprograms the migration of macrophages. <i>Blood</i> , <b>2015</b> , 125, 1611-22	2.2	47

28	Frustrated endocytosis controls contractility-independent mechanotransduction at clathrin-coated structures. <i>Nature Communications</i> , <b>2018</b> , 9, 3825	17.4	47
27	Tuberculosis Exacerbates HIV-1 Infection through IL-10/STAT3-Dependent Tunneling Nanotube Formation in Macrophages. <i>Cell Reports</i> , <b>2019</b> , 26, 3586-3599.e7	10.6	45
26	Podosome Force Generation Machinery: A Local Balance between Protrusion at the Core and Traction at the Ring. <i>ACS Nano</i> , <b>2017</b> , 11, 4028-4040	16.7	44
25	C-type lectin receptor DCIR modulates immunity to tuberculosis by sustaining type I interferon signaling in dendritic cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E540-E549	11.5	41
24	Probing the mechanical landscape - new insights into podosome architecture and mechanics. <i>Journal of Cell Science</i> , <b>2019</b> , 132,	5.3	41
23	Lymphocyte-specific protein 1 regulates mechanosensory oscillation of podosomes and actin isoform-based actomyosin symmetry breaking. <i>Nature Communications</i> , <b>2018</b> , 9, 515	17.4	34
22	Working together: spatial synchrony in the force and actin dynamics of podosome first neighbors. <i>ACS Nano</i> , <b>2015</b> , 9, 3800-13	16.7	32
21	Re-arrangements of podosome structures are observed when Hck is activated in myeloid cells. <i>European Journal of Cell Biology</i> , <b>2006</b> , 85, 327-32	6.1	32
20	The C-Type Lectin Receptor DC-SIGN Has an Anti-Inflammatory Role in Human M(IL-4) Macrophages in Response to. <i>Frontiers in Immunology</i> , <b>2018</b> , 9, 1123	8.4	30
19	Podosomes, But Not the Maturation Status, Determine the Protease-Dependent 3D Migration in Human Dendritic Cells. <i>Frontiers in Immunology</i> , <b>2018</b> , 9, 846	8.4	22
18	Tyrosine-phosphorylated STAT5 accumulates on podosomes in Hck-transformed fibroblasts and chronic myeloid leukemia cells. <i>Journal of Cellular Physiology</i> , <b>2007</b> , 213, 212-20	7	22
17	Fungal lectin, XCL, is internalized via clathrin-dependent endocytosis and facilitates uptake of other molecules. <i>European Journal of Cell Biology</i> , <b>2003</b> , 82, 515-22	6.1	21
16	Asb2/Filamin A Axis Is Essential for Actin Cytoskeleton Remodeling During Heart Development. <i>Circulation Research</i> , <b>2018</b> , 122, e34-e48	15.7	18
15	The Protease-Dependent Mesenchymal Migration of Tumor-Associated Macrophages as a Target in Cancer Immunotherapy. <i>Cancer Immunology Research</i> , <b>2018</b> , 6, 1337-1351	12.5	17
14	Hck contributes to bone homeostasis by controlling the recruitment of osteoclast precursors. <i>FASEB Journal</i> , <b>2013</b> , 27, 3608-18	0.9	16
13	Queuosine biosynthesis is required for sinorhizobium meliloti-induced cytoskeletal modifications on HeLa Cells and symbiosis with <i>Medicago truncatula</i> . <i>PLoS ONE</i> , <b>2013</b> , 8, e56043	3.7	16
12	Tuberculosis-associated IFN-I induces Siglec-1 on tunneling nanotubes and favors HIV-1 spread in macrophages. <i>ELife</i> , <b>2020</b> , 9,	8.9	16
11	Evaluation of the force and spatial dynamics of macrophage podosomes by multi-particle tracking. <i>Methods</i> , <b>2016</b> , 94, 75-84	4.6	12

10	The oncogenic activity of the Src family kinase Hck requires the cooperative action of the plasma membrane- and lysosome-associated isoforms. <i>European Journal of Cancer</i> , <b>2009</b> , 45, 321-7	7.5	11
9	Super-resolved live-cell imaging using random illumination microscopy.. <i>Cell Reports Methods</i> , <b>2021</b> , 1, 100009		8
8	HIV-1-Infected Human Macrophages, by Secreting RANK-L, Contribute to Enhanced Osteoclast Recruitment. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	5
7	Nanoscale Forces during Confined Cell Migration. <i>Nano Letters</i> , <b>2018</b> , 18, 6326-6333	11.5	5
6	Cellular and molecular actors of myeloid cell fusion: podosomes and tunneling nanotubes call the tune. <i>Cellular and Molecular Life Sciences</i> , <b>2021</b> , 78, 6087-6104	10.3	4
5	Elasticity of dense actin networks produces nanonewton protrusive forces		3
4	Genetic engineering of Hoxb8-immortalized hematopoietic progenitors - a potent tool to study macrophage tissue migration. <i>Journal of Cell Science</i> , <b>2020</b> , 133,	5.3	1
3	Protrusion Force Microscopy: A Method to Quantify Forces Developed by Cell Protrusions. <i>Journal of Visualized Experiments</i> , <b>2018</b> ,	1.6	1
2	Super-resolved live-cell imaging using Random Illumination Microscopy		1
1	Phagocytosis is coupled to the formation of phagosome-associated podosomes and a transient disruption of podosomes in human macrophages. <i>European Journal of Cell Biology</i> , <b>2021</b> , 100, 151161	6.1	1