Renaud Poincloux

List of Publications by Year in Descending Order

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	Phagocytosis is coupled to the formation of phagosome-associated podosomes and a transient disruption of podosomes in human macrophages. *European Journal of Cell Biology*, **2021**, 100, 151161	6.1	1
44	Super-resolved live-cell imaging using random illumination microscopy.. *Cell Reports Methods*, **2021**, 1, 100009		8
43	Cellular and molecular actors of myeloid cell fusion: podosomes and tunneling nanotubes call the tune. *Cellular and Molecular Life Sciences*, **2021**, 78, 6087-6104	10.3	4
42	HIV-1-Infected Human Macrophages, by Secreting RANK-L, Contribute to Enhanced Osteoclast Recruitment. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	5
41	Genetic engineering of Hoxb8-immortalized hematopoietic progenitors - a potent tool to study macrophage tissue migration. *Journal of Cell Science*, **2020**, 133,	5.3	1
40	Tuberculosis-associated IFN-I induces Siglec-1 on tunneling nanotubes and favors HIV-1 spread in macrophages. *ELife*, **2020**, 9,	8.9	16
39	Tuberculosis Exacerbates HIV-1 Infection through IL-10/STAT3-Dependent Tunneling Nanotube Formation in Macrophages. *Cell Reports*, **2019**, 26, 3586-3599.e7	10.6	45
38	Probing the mechanical landscape - new insights into podosome architecture and mechanics. *Journal of Cell Science*, **2019**, 132,	5.3	41
37	Lymphocyte-specific protein 1 regulates mechanosensory oscillation of podosomes and actin isoform-based actomyosin symmetry breaking. *Nature Communications*, **2018**, 9, 515	17.4	34
36	Asb2Filamin A Axis Is Essential for Actin Cytoskeleton Remodeling During Heart Development. *Circulation Research*, **2018**, 122, e34-e48	15.7	18
35	Podosomes, But Not the Maturation Status, Determine the Protease-Dependent 3D Migration in Human Dendritic Cells. *Frontiers in Immunology*, **2018**, 9, 846	8.4	22
34	The C-Type Lectin Receptor DC-SIGN Has an Anti-Inflammatory Role in Human M(IL-4) Macrophages in Response to. *Frontiers in Immunology*, **2018**, 9, 1123	8.4	30
33	Protrusion Force Microscopy: A Method to Quantify Forces Developed by Cell Protrusions. *Journal of Visualized Experiments*, **2018**,	1.6	1
32	Frustrated endocytosis controls contractility-independent mechanotransduction at clathrin-coated structures. *Nature Communications*, **2018**, 9, 3825	17.4	47
31	The Protease-Dependent Mesenchymal Migration of Tumor-Associated Macrophages as a Target in Cancer Immunotherapy. *Cancer Immunology Research*, **2018**, 6, 1337-1351	12.5	17
30	Nanoscale Forces during Confined Cell Migration. *Nano Letters*, **2018**, 18, 6326-6333	11.5	5
29	C-type lectin receptor DCIR modulates immunity to tuberculosis by sustaining type I interferon signaling in dendritic cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E540-E549	11.5	41

28	Podosome Force Generation Machinery: A Local Balance between Protrusion at the Core and Traction at the Ring. *ACS Nano*, **2017**, 11, 4028-4040	16.7	44
27	Evaluation of the force and spatial dynamics of macrophage podosomes by multi-particle tracking. *Methods*, **2016**, 94, 75-84	4.6	12
26	HIV-1 reprograms the migration of macrophages. *Blood*, **2015**, 125, 1611-22	2.2	47
25	Working together: spatial synchrony in the force and actin dynamics of podosome first neighbors. *ACS Nano*, **2015**, 9, 3800-13	16.7	32
24	Tuberculosis is associated with expansion of a motile, permissive and immunomodulatory CD16(+) monocyte population via the IL-10/STAT3 axis. *Cell Research*, **2015**, 25, 1333-51	24.7	68
23	Protrusion force microscopy reveals oscillatory force generation and mechanosensing activity of human macrophage podosomes. *Nature Communications*, **2014**, 5, 5343	17.4	134
22	Mycobacterium tuberculosis exploits asparagine to assimilate nitrogen and resist acid stress during infection. *PLoS Pathogens*, **2014**, 10, e1003928	7.6	102
21	Hck contributes to bone homeostasis by controlling the recruitment of osteoclast precursors. *FASEB Journal*, **2013**, 27, 3608-18	0.9	16
20	Queuosine biosynthesis is required for sinorhizobium meliloti-induced cytoskeletal modifications on HeLa Cells and symbiosis with Medicago truncatula. *PLoS ONE*, **2013**, 8, e56043	3.7	16
19	Macrophage mesenchymal migration requires podosome stabilization by filamin A. *Journal of Biological Chemistry*, **2012**, 287, 13051-62	5.4	60
18	Spontaneous contractility-mediated cortical flow generates cell migration in three-dimensional environments. *Biophysical Journal*, **2011**, 101, 1041-5	2.9	95
17	Mycobacterial p(1)-type ATPases mediate resistance to zinc poisoning in human macrophages. *Cell Host and Microbe*, **2011**, 10, 248-59	23.4	232
16	Macrophage podosomes go 3D. *European Journal of Cell Biology*, **2011**, 90, 224-36	6.1	97
15	Contractility of the cell rear drives invasion of breast tumor cells in 3D Matrigel. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 1943-8	11.5	217
14	Implication of metastasis suppressor NM23-H1 in maintaining adherens junctions and limiting the invasive potential of human cancer cells. *Cancer Research*, **2010**, 70, 7710-22	10.1	116
13	Matrix architecture dictates three-dimensional migration modes of human macrophages: differential involvement of proteases and podosome-like structures. *Journal of Immunology*, **2010**, 184, 1049-61	5.3	249
12	Three-dimensional migration of macrophages requires Hck for podosome organization and extracellular matrix proteolysis. *Blood*, **2010**, 115, 1444-52	2.2	93
11	Diaphanous-related formins are required for invadopodia formation and invasion of breast tumor cells. *Cancer Research*, **2009**, 69, 2792-800	10.1	145

10	Matrix invasion by tumour cells: a focus on MT1-MMP trafficking to invadopodia. *Journal of Cell Science*, **2009**, 122, 3015-24	5.3	374
9	The oncogenic activity of the Src family kinase Hck requires the cooperative action of the plasma membrane- and lysosome-associated isoforms. *European Journal of Cancer*, **2009**, 45, 321-7	7.5	11
8	Hematopoietic cell kinase (Hck) isoforms and phagocyte duties - from signaling and actin reorganization to migration and phagocytosis. *European Journal of Cell Biology*, **2008**, 87, 527-42	6.1	50
7	MT1-MMP-dependent invasion is regulated by TI-VAMP/VAMP7. *Current Biology*, **2008**, 18, 926-31	6.3	162
6	Tyrosine-phosphorylated STAT5 accumulates on podosomes in Hck-transformed fibroblasts and chronic myeloid leukemia cells. *Journal of Cellular Physiology*, **2007**, 213, 212-20	7	22
5	Re-arrangements of podosome structures are observed when Hck is activated in myeloid cells. *European Journal of Cell Biology*, **2006**, 85, 327-32	6.1	32
4	Activation of the lysosome-associated p61Hck isoform triggers the biogenesis of podosomes. *Traffic*, **2005**, 6, 682-94	5.7	77
3	Fungal lectin, XCL, is internalized via clathrin-dependent endocytosis and facilitates uptake of other molecules. *European Journal of Cell Biology*, **2003**, 82, 515-22	6.1	21
2	Super-resolved live-cell imaging using Random Illumination Microscopy		1
1	Elasticity of dense actin networks produces nanonewton protrusive forces		3