Renaud Poincloux

List of Publications by Year
in descending order

48 papers	3,810 citations	201674 27 h-index	223800 46 g-index
57 all docs	57 docs citations	57 times ranked	5414 citing authors

#	Article	IF	Citations
1	Dysregulation of the IFN-I signaling pathway by<i>Mycobacterium tuberculosis</i>leads to exacerbation of HIV-1 infection of macrophages. Journal of Leukocyte Biology, 2022, 112, 1329-1342.	3.3	6
2	Elasticity of podosome actin networks produces nanonewton protrusive forces. Nature Communications, 2022, 13, .	12.8	14
3	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.	3.6	8
4	Super-resolved live-cell imaging using random illumination microscopy. Cell Reports Methods, 2021, 1, 100009.	2.9	36
5	Cellular and molecular actors of myeloid cell fusion: podosomes and tunneling nanotubes call the tune. Cellular and Molecular Life Sciences, 2021, 78, 6087-6104.	5.4	12
6	HIV-1-Infected Human Macrophages, by Secreting RANK-L, Contribute to Enhanced Osteoclast Recruitment. International Journal of Molecular Sciences, 2020, 21, 3154.	4.1	7
7	Genetic engineering of Hoxb8-immortalized hematopoietic progenitors â€“ a potent tool to study macrophage tissue migration. Journal of Cell Science, 2020, 133, .	2.0	8
8	Tuberculosis-associated IFN-I induces Siglec-1 on tunneling nanotubes and favors HIV-1 spread in macrophages. ELife, 2020, 9, .	6.0	31
9	Tuberculosis Exacerbates HIV-1 Infection through IL-10/STAT3-Dependent Tunneling Nanotube Formation in Macrophages. Cell Reports, 2019, 26, 3586-3599.e7.	6.4	76
10	Probing the mechanical landscape â€“ new insights into podosome architecture and mechanics. Journal of Cell Science, 2019, 132, .	2.0	66
11	Lymphocyte-specific protein 1 regulates mechanosensory oscillation of podosomes and actin isoform-based actomyosin symmetry breaking. Nature Communications, 2018, 9, 515.	12.8	50
12	Asb2Î±â€“Filamin A Axis Is Essential for Actin Cytoskeleton Remodeling During Heart Development. Circulation Research, 2018, 122, e34-e48.	4.5	29
13	Frustrated endocytosis controls contractility-independent mechanotransduction at clathrin-coated structures. Nature Communications, 2018, 9, 3825.	12.8	88
14	The Protease-Dependent Mesenchymal Migration of Tumor-Associated Macrophages as a Target in Cancer Immunotherapy. Cancer Immunology Research, 2018, 6, 1337-1351.	3.4	24
15	Nanoscale Forces during Confined Cell Migration. Nano Letters, 2018, 18, 6326-6333.	9.1	6
16	Podosomes, But Not the Maturation Status, Determine the Protease-Dependent 3D Migration in Human Dendritic Cells. Frontiers in Immunology, 2018, 9, 846.	4.8	37
17	The C-Type Lectin Receptor DC-SIGN Has an Anti-Inflammatory Role in Human M(IL-4) Macrophages in Response to Mycobacterium tuberculosis. Frontiers in Immunology, 2018, 9, 1123.	4.8	51
18	Protrusion Force Microscopy: A Method to Quantify Forces Developed by Cell Protrusions. Journal of Visualized Experiments, 2018, , .	0.3	1

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19	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.	7.1	67
20	Podosome Force Generation Machinery: A Local Balance between Protrusion at the Core and Traction at the Ring. ACS Nano, 2017, 11, 4028-4040.	14.6	72
21	Evaluation of the force and spatial dynamics of macrophage podosomes by multi-particle tracking. Methods, 2016, 94, 75-84.	3.8	15
22	HIV-1 reprograms the migration of macrophages. Blood, 2015, 125, 1611-1622.	1.4	82
23	Working Together: Spatial Synchrony in the Force and Actin Dynamics of Podosome First Neighbors. ACS Nano, 2015, 9, 3800-3813.	14.6	49
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, 1333-1351.	12.0	127
25	Mycobacterium tuberculosis Exploits Asparagine to Assimilate Nitrogen and Resist Acid Stress during Infection. PLoS Pathogens, 2014, 10, e1003928.	4.7	148
26	Protrusion force microscopy reveals oscillatory force generation and mechanosensing activity of human macrophage podosomes. Nature Communications, 2014, 5, 5343.	12.8	176
27	HIV-1 Nef alters podosomes and promotes the mesenchymal migration in human macrophages. Retrovirology, 2013, 10, .	2.0	2
28	Hck contributes to bone homeostasis by controlling the recruitment of osteoclast precursors. FASEB Journal, 2013, 27, 3608-3618.	0.5	28
29	Queuosine Biosynthesis Is Required for Sinorhizobium meliloti-Induced Cytoskeletal Modifications on HeLa Cells and Symbiosis with Medicago truncatula. PLoS ONE, 2013, 8, e56043.	2.5	22
30	Macrophage Mesenchymal Migration Requires Podosome Stabilization by Filamin A. Journal of Biological Chemistry, 2012, 287, 13051-13062.	3.4	78
31	Spontaneous Contractility-Mediated Cortical Flow Generates Cell Migration in Three-Dimensional Environments. Biophysical Journal, 2011, 101, 1041-1045.	0.5	119
32	Mycobacterial P1-Type ATPases Mediate Resistance to Zinc Poisoning in Human Macrophages. Cell Host and Microbe, 2011, 10, 248-259.	11.0	304
33	Macrophage podosomes go 3D. European Journal of Cell Biology, 2011, 90, 224-236.	3.6	122
34	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, 1943-1948.	7.1	254
35	Three-dimensional migration of macrophages requires Hck for podosome organization and extracellular matrix proteolysis. Blood, 2010, 115, 1444-1452.	1.4	116
36	Implication of Metastasis Suppressor <i>NM23-H1</i> in Maintaining Adherens Junctions and Limiting the Invasive Potential of Human Cancer Cells. Cancer Research, 2010, 70, 7710-7722.	0.9	132

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37	Matrix Architecture Dictates Three-Dimensional Migration Modes of Human Macrophages: Differential Involvement of Proteases and Podosome-Like Structures. Journal of Immunology, 2010, 184, 1049-1061.	0.8	309
38	Diaphanous-Related Formins Are Required for Invadopodia Formation and Invasion of Breast Tumor Cells. Cancer Research, 2009, 69, 2792-2800.	0.9	175
39	Matrix invasion by tumour cells: a focus on MT1-MMP trafficking to invadopodia. Journal of Cell Science, 2009, 122, 3015-3024.	2.0	422
40	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, 321-327.	2.8	11
41	Hematopoietic cell kinase (Hck) isoforms and phagocyte duties â€“ From signaling and actin reorganization to migration and phagocytosis. European Journal of Cell Biology, 2008, 87, 527-542.	3.6	61
42	MT1-MMP-Dependent Invasion Is Regulated by TI-VAMP/VAMP7. Current Biology, 2008, 18, 926-931.	3.9	186
43	Tyrosine-phosphorylated STAT5 accumulates on podosomes in Hck-transformed fibroblasts and chronic myeloid leukemia cells. Journal of Cellular Physiology, 2007, 213, 212-220.	4.1	23
44	Re-arrangements of podosome structures are observed when Hck is activated in myeloid cells. European Journal of Cell Biology, 2006, 85, 327-332.	3.6	37
45	Activation of the Lysosome-Associated p61Hck Isoform Triggers the Biogenesis of Podosomes. Traffic, 2005, 6, 682-694.	2.7	86
46	Fungal lectin, XCL, is internalized via clathrin-dependent endocytosis and facilitates uptake of other molecules. European Journal of Cell Biology, 2003, 82, 515-522.	3.6	22
47	Tuberculosis Boosts HIV-1 Production by Macrophages Through IL-10/STAT3-Dependent Tunneling Nanotube Formation. SSRN Electronic Journal, 0, , .	0.4	1
48	Nanoscale architecture and coordination of actin cores within the sealing zone of human osteoclasts. ELife, 0, 11, .	6.0	3