

Renaud Poincloux

List of Publications by Year in descending order

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Version: 2024-02-01

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	Matrix invasion by tumour cells: a focus on MT1-MMP trafficking to invadopodia. <i>Journal of Cell Science</i> , 2009, 122, 3015-3024.	2.0	422
2	Matrix Architecture Dictates Three-Dimensional Migration Modes of Human Macrophages: Differential Involvement of Proteases and Podosome-Like Structures. <i>Journal of Immunology</i> , 2010, 184, 1049-1061.	0.8	309
3	Mycobacterial P1-Type ATPases Mediate Resistance to Zinc Poisoning in Human Macrophages. <i>Cell Host and Microbe</i> , 2011, 10, 248-259.	11.0	304
4	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> , 2011, 108, 1943-1948.	7.1	254
5	MT1-MMP-Dependent Invasion Is Regulated by TI-VAMP/VAMP7. <i>Current Biology</i> , 2008, 18, 926-931.	3.9	186
6	Protrusion force microscopy reveals oscillatory force generation and mechanosensing activity of human macrophage podosomes. <i>Nature Communications</i> , 2014, 5, 5343.	12.8	176
7	Diaphanous-Related Formins Are Required for Invadopodia Formation and Invasion of Breast Tumor Cells. <i>Cancer Research</i> , 2009, 69, 2792-2800.	0.9	175
8	Mycobacterium tuberculosis Exploits Asparagine to Assimilate Nitrogen and Resist Acid Stress during Infection. <i>PLoS Pathogens</i> , 2014, 10, e1003928.	4.7	148
9	Implication of Metastasis Suppressor <i>NM23-H1</i> in Maintaining Adherens Junctions and Limiting the Invasive Potential of Human Cancer Cells. <i>Cancer Research</i> , 2010, 70, 7710-7722.	0.9	132
10	Tuberculosis is associated with expansion of a motile, permissive and immunomodulatory CD16+ monocyte population via the IL-10/STAT3 axis. <i>Cell Research</i> , 2015, 25, 1333-1351.	12.0	127
11	Macrophage podosomes go 3D. <i>European Journal of Cell Biology</i> , 2011, 90, 224-236.	3.6	122
12	Spontaneous Contractility-Mediated Cortical Flow Generates Cell Migration in Three-Dimensional Environments. <i>Biophysical Journal</i> , 2011, 101, 1041-1045.	0.5	119
13	Three-dimensional migration of macrophages requires Hck for podosome organization and extracellular matrix proteolysis. <i>Blood</i> , 2010, 115, 1444-1452.	1.4	116
14	Frustrated endocytosis controls contractility-independent mechanotransduction at clathrin-coated structures. <i>Nature Communications</i> , 2018, 9, 3825.	12.8	88
15	Activation of the Lysosome-Associated p61Hck Isoform Triggers the Biogenesis of Podosomes. <i>Traffic</i> , 2005, 6, 682-694.	2.7	86
16	HIV-1 reprograms the migration of macrophages. <i>Blood</i> , 2015, 125, 1611-1622.	1.4	82
17	Macrophage Mesenchymal Migration Requires Podosome Stabilization by Filamin A. <i>Journal of Biological Chemistry</i> , 2012, 287, 13051-13062.	3.4	78
18	Tuberculosis Exacerbates HIV-1 Infection through IL-10/STAT3-Dependent Tunneling Nanotube Formation in Macrophages. <i>Cell Reports</i> , 2019, 26, 3586-3599.e7.	6.4	76

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19	Podosome Force Generation Machinery: A Local Balance between Protrusion at the Core and Traction at the Ring. <i>ACS Nano</i> , 2017, 11, 4028-4040.	14.6	72
20	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> , 2017, 114, E540-E549.	7.1	67
21	Probing the mechanical landscape – new insights into podosome architecture and mechanics. <i>Journal of Cell Science</i> , 2019, 132, .	2.0	66
22	Hematopoietic cell kinase (Hck) isoforms and phagocyte duties – From signaling and actin reorganization to migration and phagocytosis. <i>European Journal of Cell Biology</i> , 2008, 87, 527-542.	3.6	61
23	The C-Type Lectin Receptor DC-SIGN Has an Anti-Inflammatory Role in Human M(IL-4) Macrophages in Response to <i>Mycobacterium tuberculosis</i> . <i>Frontiers in Immunology</i> , 2018, 9, 1123.	4.8	51
24	Lymphocyte-specific protein 1 regulates mechanosensory oscillation of podosomes and actin isoform-based actomyosin symmetry breaking. <i>Nature Communications</i> , 2018, 9, 515.	12.8	50
25	Working Together: Spatial Synchrony in the Force and Actin Dynamics of Podosome First Neighbors. <i>ACS Nano</i> , 2015, 9, 3800-3813.	14.6	49
26	Re-arrangements of podosome structures are observed when Hck is activated in myeloid cells. <i>European Journal of Cell Biology</i> , 2006, 85, 327-332.	3.6	37
27	Podosomes, But Not the Maturation Status, Determine the Protease-Dependent 3D Migration in Human Dendritic Cells. <i>Frontiers in Immunology</i> , 2018, 9, 846.	4.8	37
28	Super-resolved live-cell imaging using random illumination microscopy. <i>Cell Reports Methods</i> , 2021, 1, 100009.	2.9	36
29	Tuberculosis-associated IFN- γ induces Siglec-1 on tunneling nanotubes and favors HIV-1 spread in macrophages. <i>ELife</i> , 2020, 9, .	6.0	31
30	Asb2 – Filamin A Axis Is Essential for Actin Cytoskeleton Remodeling During Heart Development. <i>Circulation Research</i> , 2018, 122, e34-e48.	4.5	29
31	Hck contributes to bone homeostasis by controlling the recruitment of osteoclast precursors. <i>FASEB Journal</i> , 2013, 27, 3608-3618.	0.5	28
32	The Protease-Dependent Mesenchymal Migration of Tumor-Associated Macrophages as a Target in Cancer Immunotherapy. <i>Cancer Immunology Research</i> , 2018, 6, 1337-1351.	3.4	24
33	Tyrosine-phosphorylated STAT5 accumulates on podosomes in Hck-transformed fibroblasts and chronic myeloid leukemia cells. <i>Journal of Cellular Physiology</i> , 2007, 213, 212-220.	4.1	23
34	Fungal lectin, XCL, is internalized via clathrin-dependent endocytosis and facilitates uptake of other molecules. <i>European Journal of Cell Biology</i> , 2003, 82, 515-522.	3.6	22
35	Queuosine Biosynthesis Is Required for <i>Sinorhizobium meliloti</i> -Induced Cytoskeletal Modifications on HeLa Cells and Symbiosis with <i>Medicago truncatula</i> . <i>PLoS ONE</i> , 2013, 8, e56043.	2.5	22
36	Evaluation of the force and spatial dynamics of macrophage podosomes by multi-particle tracking. <i>Methods</i> , 2016, 94, 75-84.	3.8	15

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37	Elasticity of podosome actin networks produces nanonewton protrusive forces. Nature Communications, 2022, 13, .	12.8	14
38	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
39	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
40	Genetic engineering of Hoxb8-immortalized hematopoietic progenitors " a potent tool to study macrophage tissue migration. Journal of Cell Science, 2020, 133, .	2.0	8
41	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
42	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
43	Nanoscale Forces during Confined Cell Migration. Nano Letters, 2018, 18, 6326-6333.	9.1	6
44	Dysregulation of the IFN-I signaling pathway by Mycobacterium tuberculosis leads to exacerbation of HIV-1 infection of macrophages. Journal of Leukocyte Biology, 2022, 112, 1329-1342.	3.3	6
45	Nanoscale architecture and coordination of actin cores within the sealing zone of human osteoclasts. ELife, 0, 11, .	6.0	3
46	HIV-1 Nef alters podosomes and promotes the mesenchymal migration in human macrophages. Retrovirology, 2013, 10, .	2.0	2
47	Protrusion Force Microscopy: A Method to Quantify Forces Developed by Cell Protrusions. Journal of Visualized Experiments, 2018, , .	0.3	1
48	Tuberculosis Boosts HIV-1 Production by Macrophages Through IL-10/STAT3-Dependent Tunneling Nanotube Formation. SSRN Electronic Journal, 0, , .	0.4	1