Isabelle Maridonneau-Parini

List of Publications by Year
in descending order

45 papers	3,251 citations	147801 31 h-index	223800 46 g-index
47 all docs	47 docs citations	47 times ranked	3881 citing authors

#	Article	IF	Citations
1	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
2	The Mannose Receptor Mediates Uptake of Pathogenic and Nonpathogenic Mycobacteria and Bypasses Bactericidal Responses in Human Macrophages. Infection and Immunity, 1999, 67, 469-477.	2.2	221
3	Complement Receptor 3 (CD11b/CD18) Mediates Type I and Type II Phagocytosis During Nonopsonic and Opsonic Phagocytosis, Respectively. Journal of Immunology, 2002, 169, 2003-2009.	0.8	191
4	Protrusion force microscopy reveals oscillatory force generation and mechanosensing activity of human macrophage podosomes. Nature Communications, 2014, 5, 5343.	12.8	176
5	Dynamics of podosome stiffness revealed by atomic force microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 21016-21021.	7.1	152
6	Blood leukocytes and macrophages of various phenotypes have distinct abilities to form podosomes and to migrate in 3D environments. European Journal of Cell Biology, 2012, 91, 938-949.	3.6	127
7	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
8	Macrophage podosomes go 3D. European Journal of Cell Biology, 2011, 90, 224-236.	3.6	122
9	Three-dimensional migration of macrophages requires Hck for podosome organization and extracellular matrix proteolysis. Blood, 2010, 115, 1444-1452.	1.4	116
10	Macrophage polarization: convergence point targeted by Mycobacterium tuberculosis and HIV. Frontiers in Immunology, 2011, 2, 43.	4.8	115
11	Podosomes in space. Cell Adhesion and Migration, 2014, 8, 179-191.	2.7	108
12	An efficient siRNAâ€mediated gene silencing in primary human monocytes, dendritic cells and macrophages. Immunology and Cell Biology, 2014, 92, 699-708.	2.3	94
13	The Process of Macrophage Migration Promotes Matrix Metalloproteinase-Independent Invasion by Tumor Cells. Journal of Immunology, 2011, 187, 3806-3814.	0.8	93
14	Activation of the Lysosome-Associated p61Hck Isoform Triggers the Biogenesis of Podosomes. Traffic, 2005, 6, 682-694.	2.7	86
15	HIV-1 reprograms the migration of macrophages. Blood, 2015, 125, 1611-1622.	1.4	82
16	Extracellular proteolysis in macrophage migration: Losing grip for a breakthrough. European Journal of Immunology, 2011, 41, 2805-2813.	2.9	80
17	Macrophage Mesenchymal Migration Requires Podosome Stabilization by Filamin A. Journal of Biological Chemistry, 2012, 287, 13051-13062.	3.4	78
18	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

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19	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
20	Probing the mechanical landscape â€" new insights into podosome architecture and mechanics. Journal of Cell Science, 2019, 132, .	2.0	66
21	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
22	Bone degradation machinery of osteoclasts: An HIV-1 target that contributes to bone loss. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E2556-E2565.	7.1	56
23	NADPH oxidase is functionally assembled in specific granules during activation of human neutrophils. Journal of Leukocyte Biology, 1999, 65, 629-634.	3.3	55
24	Control of macrophage 3D migration: a therapeutic challenge to limit tissue infiltration. Immunological Reviews, 2014, 262, 216-231.	6.0	52
25	Working Together: Spatial Synchrony in the Force and Actin Dynamics of Podosome First Neighbors. ACS Nano, 2015, 9, 3800-3813.	14.6	49
26	p59Hck Isoform Induces F-actin Reorganization to Form Protrusions of the Plasma Membrane in a Cdc42- and Rac-dependent Manner. Journal of Biological Chemistry, 2002, 277, 21007-21016.	3.4	48
27	Hck Is Activated by Opsonized Zymosan and A23187 in Distinct Subcellular Fractions of Human Granulocytes. Journal of Biological Chemistry, 1997, 272, 102-109.	3.4	44
28	Rho/ROCK pathway inhibition by CDK inhibitor p27kip1 participates in the onset of macrophage 3D-mesenchymal migration. Journal of Cell Science, 2014, 127, 4009-23.	2.0	43
29	The protein tyrosine kinase Hck is located on lysosomal vesicles that are physically and functionally distinct from CD63-positive lysosomes in human macrophages. Journal of Cell Science, 2002, 115, 81-9.	2.0	40
30	Frustrated phagocytosis on micro-patterned immune complexes to characterize lysosome movements in live macrophages. Frontiers in Immunology, 2011, 2, 51.	4.8	39
31	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
32	Fusion of Human Neutrophil Phagosomes with Lysosomes in Vitro. Journal of Biological Chemistry, 2001, 276, 35512-35517.	3.4	30
33	Tyrosine Phosphorylation of Wiskott-Aldrich Syndrome Protein (WASP) by Hck Regulates Macrophage Function. Journal of Biological Chemistry, 2014, 289, 7897-7906.	3.4	29
34	Hck contributes to bone homeostasis by controlling the recruitment of osteoclast precursors. FASEB Journal, 2013, 27, 3608-3618.	0.5	28
35	HIV-1 Infection of T Lymphocytes and Macrophages Affects Their Migration via Nef. Frontiers in Immunology, 2015, 6, 514.	4.8	25
36	Expression of Azurophil and specific granule proteins during differentiation of NB4 cells in neutrophils. Journal of Cellular Physiology, 1998, 175, 203-210.	4.1	23

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37	Molecular and cellular profiles of the resolution phase in a damageâ€associated molecular pattern (DAMP)â€mediated peritonitis model and revelation of leukocyte persistence in peritoneal tissues. FASEB Journal, 2015, 29, 1914-1929.	0.5	21
38	The osteoclast, a target cell for microorganisms. Bone, 2019, 127, 315-323.	2.9	20
39	Evaluation of the force and spatial dynamics of macrophage podosomes by multi-particle tracking. Methods, 2016, 94, 75-84.	3.8	15
40	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
41	Effect of intracellular oxygen-free radicals on the formation of lipid derived mediators in rat renomedullary interstitial cells. Biochemical Pharmacology, 1985, 34, 4137-4143.	4.4	8
42	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
43	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
44	Nanoscale Forces during Confined Cell Migration. Nano Letters, 2018, 18, 6326-6333.	9.1	6
45	Protrusion Force Microscopy: A Method to Quantify Forces Developed by Cell Protrusions. Journal of Visualized Experiments, 2018, , .	0.3	1