

# Ana-Maria Lennon-Dumănilă

## List of Publications by Year in descending order

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44  
papers

4,666  
citations

186265

28  
h-index

233421

45  
g-index

49  
all docs

49  
docs citations

49  
times ranked

6021  
citing authors

#	ARTICLE	IF	CITATIONS
1	ESCRT III repairs nuclear envelope ruptures during cell migration to limit DNA damage and cell death. <i>Science</i> , 2016, 352, 359-362.	12.6	738
2	The nucleus acts as a ruler tailoring cell responses to spatial constraints. <i>Science</i> , 2020, 370, .	12.6	299
3	Perinuclear Arp2/3-driven actin polymerization enables nuclear deformation to facilitate cell migration through complex environments. <i>Nature Communications</i> , 2016, 7, 10997.	12.8	282
4	Regulation of Dendritic Cell Migration by CD74, the MHC Class II-Associated Invariant Chain. <i>Science</i> , 2008, 322, 1705-1710.	12.6	265
5	Proteases involved in MHC class II antigen presentation. <i>Immunological Reviews</i> , 1999, 172, 109-120.	6.0	223
6	Confinement-optimized three-dimensional T cell amoeboid motility is modulated via myosin II-regulated adhesions. <i>Nature Immunology</i> , 2010, 11, 953-961.	14.5	214
7	Cathepsin S Controls the Trafficking and Maturation of Mhc Class II Molecules in Dendritic Cells. <i>Journal of Cell Biology</i> , 1999, 147, 775-790.	5.2	210
8	Analysis of Protease Activity in Live Antigen-presenting Cells Shows Regulation of the Phagosomal Proteolytic Contents During Dendritic Cell Activation. <i>Journal of Experimental Medicine</i> , 2002, 196, 529-540.	8.5	201
9	Innate control of actin nucleation determines two distinct migration behaviours in dendritic cells. <i>Nature Cell Biology</i> , 2016, 18, 43-53.	10.3	184
10	Polarized Secretion of Lysosomes at the B Cell Synapse Couples Antigen Extraction to Processing and Presentation. <i>Immunity</i> , 2011, 35, 361-374.	14.3	182
11	Toll-like Receptor 4 Engagement on Dendritic Cells Restrains Phago-Lysosome Fusion and Promotes Cross-Presentation of Antigens. <i>Immunity</i> , 2015, 43, 1087-1100.	14.3	160
12	Cell migration and antigen capture are antagonistic processes coupled by myosin II in dendritic cells. <i>Nature Communications</i> , 2015, 6, 7526.	12.8	143
13	The first World Cell Race. <i>Current Biology</i> , 2012, 22, R673-R675.	3.9	130
14	ATP promotes the fast migration of dendritic cells through the activity of pannexin 1 channels and P2X <sub>7</sub> receptors. <i>Science Signaling</i> , 2017, 10, .	3.6	130
15	A closer look at proteolysis and MHC-class-II-restricted antigen presentation. <i>Current Opinion in Immunology</i> , 2002, 14, 15-21.	5.5	122
16	Lysosome signaling controls the migration of dendritic cells. <i>Science Immunology</i> , 2017, 2, .	11.9	119
17	Migration of dendritic cells: physical principles, molecular mechanisms, and functional implications. <i>Immunological Reviews</i> , 2013, 256, 240-254.	6.0	111
18	Actin nucleation at the centrosome controls lymphocyte polarity. <i>Nature Communications</i> , 2016, 7, 10969.	12.8	109

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19	Actin filaments regulate microtubule growth at the centrosome. <i>EMBO Journal</i> , 2019, 38, .	7.8	82
20	Integrating Physical and Molecular Insights on Immune Cell Migration. <i>Trends in Immunology</i> , 2018, 39, 632-643.	6.8	73
21	Macropinocytosis Overcomes Directional Bias in Dendritic Cells Due to Hydraulic Resistance and Facilitates Space Exploration. <i>Developmental Cell</i> , 2019, 49, 171-188.e5.	7.0	71
22	Cell Migration in Confinement: A Micro-Channel-Based Assay. <i>Methods in Molecular Biology</i> , 2011, 769, 415-434.	0.9	69
23	The p41 isoform of invariant chain is a chaperone for cathepsin L. <i>EMBO Journal</i> , 2001, 20, 4055-4064.	7.8	66
24	Actomyosin-driven force patterning controls endocytosis at the immune synapse. <i>Nature Communications</i> , 2019, 10, 2870.	12.8	53
25	Individual cathepsins degrade immune complexes internalized by antigen-presenting cells via Fc $\gamma$ 3 receptors. <i>European Journal of Immunology</i> , 2001, 31, 1592-1601.	2.9	51
26	Polarity protein Par3 controls B-cell receptor dynamics and antigen extraction at the immune synapse. <i>Molecular Biology of the Cell</i> , 2015, 26, 1273-1285.	2.1	47
27	Deterministic patterns in cell motility. <i>Nature Physics</i> , 2016, 12, 1146-1152.	16.7	40
28	Myosin II Activity Is Selectively Needed for Migration in Highly Confined Microenvironments in Mature Dendritic Cells. <i>Frontiers in Immunology</i> , 2019, 10, 747.	4.8	38
29	LMP2 expression and proteasome activity in NOD mice. <i>Nature Medicine</i> , 2000, 6, 1064-1064.	30.7	30
30	Space exploration by dendritic cells requires maintenance of myosin II activity by $\text{IP}_3$ receptor 1. <i>EMBO Journal</i> , 2015, 34, 798-810.	7.8	29
31	Epithelial colonization by gut dendritic cells promotes their functional diversification. <i>Immunity</i> , 2022, 55, 129-144.e8.	14.3	27
32	Study of Cell Migration in Microfabricated Channels. <i>Journal of Visualized Experiments</i> , 2014, , e51099.	0.3	26
33	Study of dendritic cell migration using micro-fabrication. <i>Journal of Immunological Methods</i> , 2016, 432, 30-34.	1.4	26
34	Dynamics of the membrane-cytoskeleton interface in MHC class II-restricted antigen presentation. <i>Immunological Reviews</i> , 2016, 272, 39-51.	6.0	21
35	Role of calcium permeable channels in dendritic cell migration. <i>Current Opinion in Immunology</i> , 2018, 52, 74-80.	5.5	19
36	Diacylglycerol kinase $\beta$ promotes actin cytoskeleton remodeling and mechanical forces at the B cell immune synapse. <i>Science Signaling</i> , 2020, 13, .	3.6	19

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37	Rab7b regulates dendritic cell migration by linking lysosomes to the actomyosin cytoskeleton. <i>Journal of Cell Science</i> , 2021, 134, .	2.0	14
38	Pinching the cortex of live cells reveals thickness instabilities caused by myosin II motors. <i>Science Advances</i> , 2021, 7, .	10.3	10
39	Proteostasis in dendritic cells is controlled by the PERK signaling axis independently of ATF4. <i>Life Science Alliance</i> , 2021, 4, e202000865.	2.8	9
40	Trpml controls actomyosin contractility and couples migration to phagocytosis in fly macrophages. <i>Journal of Cell Biology</i> , 2020, 219, .	5.2	7
41	The WASp L272P gain-of-function mutation alters dendritic cell coordination of actin dynamics for migration and adhesion. <i>Journal of Leukocyte Biology</i> , 2021, , .	3.3	5
42	Macropinocytosis and Cell Migration: Don't Drink and Drive. <i>Sub-Cellular Biochemistry</i> , 2022, 98, 85-102.	2.4	3
43	â€œIf you pleaseâ€   draw me a cellâ€ Insights from immune cells. <i>Journal of Cell Science</i> , 2020, 133, .	2.0	1
44	Microchannels for the Study of T Cell Immunological Synapses and Kinapses. <i>Methods in Molecular Biology</i> , 2017, 1584, 347-354.	0.9	1