

Pablo Vargas

List of Publications by Year in descending order

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41
papers

3,999
citations

257450

24
h-index

276875

41
g-index

50
all docs

50
docs citations

50
times ranked

6350
citing authors

#	ARTICLE	IF	CITATIONS
1	NOX2 Controls Phagosomal pH to Regulate Antigen Processing during Crosspresentation by Dendritic Cells. <i>Cell</i> , 2006, 126, 205-218.	28.9	754
2	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
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	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
6	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
7	A Role for Lipid Bodies in the Cross-presentation of Phagocytosed Antigens by MHC Class I in Dendritic Cells. <i>Immunity</i> , 2009, 31, 232-244.	14.3	146
8	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
9	ATP promotes the fast migration of dendritic cells through the activity of pannexin 1 channels and P2X ₇ receptors. <i>Science Signaling</i> , 2017, 10, .	3.6	130
10	Lysosome signaling controls the migration of dendritic cells. <i>Science Immunology</i> , 2017, 2, .	11.9	119
11	The actin-based motor protein myosin II regulates MHC class II trafficking and BCR-driven antigen presentation. <i>Journal of Cell Biology</i> , 2007, 176, 1007-1019.	5.2	116
12	Migration of dendritic cells: physical principles, molecular mechanisms, and functional implications. <i>Immunological Reviews</i> , 2013, 256, 240-254.	6.0	111
13	Diversification of human plasmacytoid predendritic cells in response to a single stimulus. <i>Nature Immunology</i> , 2018, 19, 63-75.	14.5	106
14	Profilin and formin constitute a pacemaker system for robust actin filament growth. <i>ELife</i> , 2019, 8, .	6.0	80
15	Antigen presentation by B lymphocytes: how receptor signaling directs membrane trafficking. <i>Current Opinion in Immunology</i> , 2007, 19, 93-98.	5.5	55
16	Mechanisms for fast cell migration in complex environments. <i>Current Opinion in Cell Biology</i> , 2017, 48, 72-78.	5.4	53
17	Measuring pH, ROS Production, Maturation, and Degradation in Dendritic Cell Phagosomes Using Cytofluorometry-Based Assays. <i>Methods in Molecular Biology</i> , 2010, 595, 383-402.	0.9	50
18	Arc/Arg3.1 governs inflammatory dendritic cell migration from the skin and thereby controls T cell activation. <i>Science Immunology</i> , 2016, 1, eaaf8665.	11.9	40

#	ARTICLE	IF	CITATIONS
19	Deterministic actin waves as generators of cell polarization cues. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 826-835.	7.1	39
20	Myosin II Activity Is Selectively Needed for Migration in Highly Confined Microenvironments in Mature Dendritic Cells. Frontiers in Immunology, 2019, 10, 747.	4.8	38
21	Epithelial control of the human pDC response to extracellular bacteria. European Journal of Immunology, 2013, 43, 1264-1273.	2.9	36
22	UNC93B1 interacts with the calcium sensor STIM1 for efficient antigen cross-presentation in dendritic cells. Nature Communications, 2017, 8, 1640.	12.8	34
23	Innate Immune Signals Induce Anterograde Endosome Transport Promoting MHC Class I Cross-Presentation. Cell Reports, 2018, 24, 3568-3581.	6.4	33
24	Space exploration by dendritic cells requires maintenance of myosin II activity by IP_3 receptor 1. EMBO Journal, 2015, 34, 798-810.	7.8	29
25	Study of Cell Migration in Microfabricated Channels. Journal of Visualized Experiments, 2014, , e51099.	0.3	26
26	Study of dendritic cell migration using micro-fabrication. Journal of Immunological Methods, 2016, 432, 30-34.	1.4	26
27	A tuneable microfluidic system for long duration chemotaxis experiments in a 3D collagen matrix. Lab on A Chip, 2017, 17, 3851-3861.	6.0	21
28	Predicting Confined 1D Cell Migration from Parameters Calibrated to a 2D Motor-Clutch Model. Biophysical Journal, 2020, 118, 1709-1720.	0.5	20
29	Caveolin-1 Expression Increases upon Maturation in Dendritic Cells and Promotes Their Migration to Lymph Nodes Thereby Favoring the Induction of CD8+ T Cell Responses. Frontiers in Immunology, 2017, 8, 1794.	4.8	19
30	Role of calcium permeable channels in dendritic cell migration. Current Opinion in Immunology, 2018, 52, 74-80.	5.5	19
31	Reconstitution of cell migration at a glance. Journal of Cell Science, 2019, 132, .	2.0	19
32	Leukocyte Migration and Deformation in Collagen Gels and Microfabricated Constrictions. Methods in Molecular Biology, 2018, 1749, 361-373.	0.9	18
33	Sliding walls: a new paradigm for fluidic actuation and protocol implementation in microfluidics. Microsystems and Nanoengineering, 2020, 6, 18.	7.0	15
34	HIF2 α is a direct regulator of neutrophil motility. Blood, 2021, 137, 3416-3427.	1.4	13
35	Rubella vaccine-induced granulomas are a novel phenotype with incomplete penetrance of genetic defects in cytotoxicity. Journal of Allergy and Clinical Immunology, 2022, 149, 388-399.e4.	2.9	11
36	The tumor suppressor adenomatous polyposis coli regulates T lymphocyte migration. Science Advances, 2022, 8, eabl5942.	10.3	11

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37	Pinching the cortex of live cells reveals thickness instabilities caused by myosin II motors. <i>Science Advances</i> , 2021, 7, .	10.3	10
38	A statistical inference approach to reconstruct intercellular interactions in cell migration experiments. <i>Science Advances</i> , 2020, 6, eaay2103.	10.3	8
39	Immunization with antigen-pulsed dendritic cells significantly improves the immune response to weak self-antigens. <i>Immunobiology</i> , 2006, 211, 29-36.	1.9	4
40	Role of UNC93B1 in the MHC class I cross presentation pathway. <i>Molecular Immunology</i> , 2012, 51, 24-25.	2.2	0
41	The actin-based motor protein myosin II regulates MHC class II trafficking and BCR-driven antigen presentation. <i>Journal of Experimental Medicine</i> , 2007, 204, i10-i10.	8.5	0