

Alba Diz-Munoz

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/892412/publications.pdf>

Version: 2024-02-01

23
papers

2,149
citations

516710

16
h-index

677142

22
g-index

28
all docs

28
docs citations

28
times ranked

3148
citing authors

#	ARTICLE	IF	CITATIONS
1	Use the force: membrane tension as an organizer of cell shape and motility. <i>Trends in Cell Biology</i> , 2013, 23, 47-53.	7.9	485
2	Brillouin microscopy: an emerging tool for mechanobiology. <i>Nature Methods</i> , 2019, 16, 969-977.	19.0	244
3	Control of Directed Cell Migration In Vivo by Membrane-to-Cortex Attachment. <i>PLoS Biology</i> , 2010, 8, e1000544.	5.6	231
4	Hydraulic control of mammalian embryo size and cell fate. <i>Nature</i> , 2019, 571, 112-116.	27.8	216
5	Reduction of Liver Metastasis Stiffness Improves Response to Bevacizumab in Metastatic Colorectal Cancer. <i>Cancer Cell</i> , 2020, 37, 800-817.e7.	16.8	179
6	Membrane Tension Acts Through PLD2 and mTORC2 to Limit Actin Network Assembly During Neutrophil Migration. <i>PLoS Biology</i> , 2016, 14, e1002474.	5.6	172
7	Pay attention to membrane tension: Mechanobiology of the cell surface. <i>Current Opinion in Cell Biology</i> , 2020, 66, 11-18.	5.4	117
8	Cell Surface Mechanics Gate Embryonic Stem Cell Differentiation. <i>Cell Stem Cell</i> , 2021, 28, 209-216.e4.	11.1	73
9	In pursuit of the mechanics that shape cell surfaces. <i>Nature Physics</i> , 2018, 14, 648-652.	16.7	68
10	Imaging mechanical properties of sub-micron ECM in live zebrafish using Brillouin microscopy. <i>Biomedical Optics Express</i> , 2019, 10, 1420.	2.9	57
11	Cell confinement reveals a branched-actin independent circuit for neutrophil polarity. <i>PLoS Biology</i> , 2019, 17, e3000457.	5.6	54
12	Steering cell migration by alternating blebs and actin-rich protrusions. <i>BMC Biology</i> , 2016, 14, 74.	3.8	49
13	Myosin light chain kinase regulates cell polarization independently of membrane tension or Rho kinase. <i>Journal of Cell Biology</i> , 2015, 209, 275-288.	5.2	40
14	Self-generated gradients steer collective migration on viscoelastic collagen networks. <i>Nature Materials</i> , 2022, 21, 1200-1210.	27.5	29
15	A mechano-osmotic feedback couples cell volume to the rate of cell deformation. <i>ELife</i> , 2022, 11, .	6.0	27
16	Dendritic cell actin dynamics control contact duration and priming efficiency at the immunological synapse. <i>Journal of Cell Biology</i> , 2021, 220, .	5.2	25
17	The Rho regulator Myosin IXb enables nonlymphoid tissue seeding of protective CD8+ T cells. <i>Journal of Experimental Medicine</i> , 2018, 215, 1869-1890.	8.5	22
18	In Vivo Function of the Lipid Raft Protein Flotillin-1 during CD8+ T Cell-Mediated Host Surveillance. <i>Journal of Immunology</i> , 2019, 203, 2377-2387.	0.8	14

#	ARTICLE	IF	CITATIONS
19	Protocol on Tissue Preparation and Measurement of Tumor Stiffness in Primary and Metastatic Colorectal Cancer Samples with an Atomic Force Microscope. STAR Protocols, 2020, 1, 100167.	1.2	14
20	A 3D Brillouin microscopy dataset of the in-vivo zebrafish eye. Data in Brief, 2020, 30, 105427.	1.0	9
21	Using migrating cells as probes to illuminate features in live embryonic tissues. Science Advances, 2020, 6, .	10.3	6
22	Understanding the interplay of membrane trafficking, cell surface mechanics, and stem cell differentiation. Seminars in Cell and Developmental Biology, 2023, 133, 123-134.	5.0	3
23	Strength of interactions in the Notch gene regulatory network determines patterning and fate in the notochord. ELife, 0, 11, .	6.0	3