sandrine Etienne-Manneville

List of Publications by Year
in descending order

84	13,939	57631	74018
papers	citations	44 h-index	75 g-index

94	94	94	16493
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Rho GTPases in cell biology. Nature, 2002, 420, 629-635.	13.7	4,288
2	Integrin-Mediated Activation of Cdc42 Controls Cell Polarity in Migrating Astrocytes through PKCÎ¶. Cell, 2001, 106, 489-498.	13.5	970
3	Cdc42 regulates GSK-3Î² and adenomatous polyposis coli to control cell polarity. Nature, 2003, 421, 753-756.	13.7	803
4	Cdc42 - the centre of polarity. Journal of Cell Science, 2004, 117, 1291-1300.	1.2	662
5	The front and rear of collective cell migration. Nature Reviews Molecular Cell Biology, 2016, 17, 97-109.	16.1	649
6	Microtubules in Cell Migration. Annual Review of Cell and Developmental Biology, 2013, 29, 471-499.	4.0	406
7	Regulation of Cell Migration by the C2 Domain of the Tumor Suppressor PTEN. Science, 2004, 303, 1179-1181.	6.0	299
8	Actin and Microtubules in Cell Motility: Which One is in Control?. Traffic, 2004, 5, 470-477.	1.3	291
9	Single and collective cell migration: the mechanics of adhesions. Molecular Biology of the Cell, 2017, 28, 1833-1846.	0.9	287
10	ICAM-1-Coupled Cytoskeletal Rearrangements and Transendothelial Lymphocyte Migration Involve Intracellular Calcium Signaling in Brain Endothelial Cell Lines. Journal of Immunology, 2000, 165, 3375-3383.	0.4	278
11	Cdc42 and Par6â€"PKCÎ¶ regulate the spatially localized association of Dlg1 and APC to control cell polarization. Journal of Cell Biology, 2005, 170, 895-901.	2.3	277
12	Cell polarity: Par6, aPKC and cytoskeletal crosstalk. Current Opinion in Cell Biology, 2003, 15, 67-72.	2.6	273
13	Polarity proteins in migration and invasion. Oncogene, 2008, 27, 6970-6980.	2.6	250
14	Cytoskeletal Crosstalk in Cell Migration. Trends in Cell Biology, 2020, 30, 720-735.	3.6	225
15	Scrib Controls Cdc42 Localization and Activity to Promote Cell Polarization during Astrocyte Migration. Current Biology, 2006, 16, 2395-2405.	1.8	198
16	Salen-Manganese Complexes Are Superoxide Dismutase-Mimics. Biochemical and Biophysical Research Communications, 1993, 192, 964-968.	1.0	197
17	ICAM-1 signaling pathways associated with Rho activation in microvascular brain endothelial cells. Journal of Immunology, 1998, 161, 5755-61.	0.4	180
18	Classical cadherins control nucleus and centrosome position and cell polarity. Journal of Cell Biology, 2009, 185, 779-786.	2.3	167

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19	Cdc42 localization and cell polarity depend on membrane traffic. Journal of Cell Biology, 2010, 191, 1261-1269.	2.3	156
20	Cytoplasmic Intermediate Filaments in Cell Biology. Annual Review of Cell and Developmental Biology, 2018, 34, 1-28.	4.0	147
21	From signaling pathways to microtubule dynamics: the key players. Current Opinion in Cell Biology, 2010, 22, 104-111.	2.6	143
22	Adherens junction treadmilling during collective migration. Nature Cell Biology, 2014, 16, 639-651.	4.6	142
23	Functional analysis of Peutzâ€“Jeghers mutations reveals that the LKB1 C-terminal region exerts a crucial role in regulating both the AMPK pathway and the cell polarity. Human Molecular Genetics, 2005, 14, 1283-1292.	1.4	131
24	Intermediate filaments control collective migration by restricting traction forces and sustaining cellâ€“cell contacts. Journal of Cell Biology, 2018, 217, 3031-3044.	2.3	126
25	N-cadherin expression level modulates integrin-mediated polarity and strongly impacts on the speed and directionality of glial cell migration. Journal of Cell Science, 2012, 125, 844-857.	1.2	125
26	Intermediate filaments in cell migration and invasion: the unusual suspects. Current Opinion in Cell Biology, 2015, 32, 102-112.	2.6	118
27	Lymphocyte migration into the central nervous system. Vascular Pharmacology, 2002, 38, 315-322.	1.0	112
28	Ezrin tunes T-cell activation by controlling Dlg1 and microtubule positioning at the immunological synapse. EMBO Journal, 2010, 29, 2301-2314.	3.5	111
29	In Vitro Assay of Primary Astrocyte Migration as a Tool to Study Rho GTPase Function in Cell Polarization. Methods in Enzymology, 2006, 406, 565-578.	0.4	103
30	Cytoplasmic intermediate filaments mediate actin-driven positioning of the nucleus. Journal of Cell Science, 2011, 124, 865-872.	1.2	96
31	Interaction of the actin cytoskeleton with microtubules regulates secretory organelle movement near the plasma membrane in human endothelial cells. Journal of Cell Science, 2003, 116, 3927-3938.	1.2	95
32	Scrib regulates PAK activity during the cell migration process. Human Molecular Genetics, 2008, 17, 3552-3565.	1.4	95
33	Integrin diversity brings specificity in mechanotransduction. Biology of the Cell, 2018, 110, 49-64.	0.7	91
34	Regulation of microtubule-associated motors drives intermediate filament network polarization. Journal of Cell Biology, 2017, 216, 1689-1703.	2.3	85
35	APC binds intermediate filaments and is required for their reorganization during cell migration. Journal of Cell Biology, 2013, 200, 249-258.	2.3	84
36	Nuclear positioning: Mechanisms and functions. International Journal of Biochemistry and Cell Biology, 2011, 43, 1698-1707.	1.2	82

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37	Microtubules tune mechanosensitive cell responses. Nature Materials, 2022, 21, 366-377.	13.3	77
38	Microtubules at focal adhesions â€“ a double-edged sword. Journal of Cell Science, 2019, 132, .	1.2	74
39	Dlg1 binds GKAP to control dynein association with microtubules, centrosome positioning, and cell polarity. Journal of Cell Biology, 2010, 191, 585-598.	2.3	72
40	Centrosome positioning in polarized cells: Common themes and variations. Experimental Cell Research, 2014, 328, 240-248.	1.2	69
41	Mitochondrial MDM2 Regulates Respiratory Complex I Activity Independently of p53. Molecular Cell, 2018, 69, 594-609.e8.	4.5	68
42	Distinct functional outputs of PTEN signalling are controlled by dynamic association with Î²-arrestins. EMBO Journal, 2011, 30, 2557-2568.	3.5	58
43	Involvement of the Arp2/3 Complex and Scar2 in Golgi Polarity in Scratch Wound Models. Molecular Biology of the Cell, 2003, 14, 670-684.	0.9	53
44	Positioning centrosomes and spindle poles: looking at the periphery to find the centre. Biology of the Cell, 2006, 98, 557-565.	0.7	50
45	Neighborly relations during collective migration. Current Opinion in Cell Biology, 2014, 30, 51-59.	2.6	50
46	APC in Cell Migration. Advances in Experimental Medicine and Biology, 2009, 656, 30-40.	0.8	46
47	Microtubule acetylation but not detyrosination promotes focal adhesion dynamics and astrocyte migration. Journal of Cell Science, 2019, 132, .	1.2	45
48	Multicellular scale front-to-rear polarity in collective migration. Current Opinion in Cell Biology, 2020, 62, 114-122.	2.6	37
49	Lymphocyte trafficking through the bloodâ€“brain barrier is dependent on endothelial cell heterotrimeric Gâ€protein signaling. FASEB Journal, 2002, 16, 1185-1194.	0.2	34
50	A toxic palmitoylation of Cdc42 enhances NF-Î²B signaling and drives a severe autoinflammatory syndrome. Journal of Allergy and Clinical Immunology, 2020, 146, 1201-1204.e8.	1.5	33
51	Polarity proteins in glial cell functions. Current Opinion in Neurobiology, 2008, 18, 488-494.	2.0	32
52	Heparan Sulfate Saccharides Modify Focal Adhesions: Implication in Mucopolysaccharidosis Neuropathophysiology. Journal of Molecular Biology, 2015, 427, 775-791.	2.0	31
53	Control of polarized cell morphology and motility by adherens junctions. Seminars in Cell and Developmental Biology, 2011, 22, 850-857.	2.3	30
54	Connexin 30 controls astroglial polarization during postnatal brain development. Development (Cambridge), 2018, 145, .	1.2	29

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55	Intermediate Filaments from Tissue Integrity to Single Molecule Mechanics. Cells, 2021, 10, 1905.	1.8	29
56	Adherens Junctions During Cell Migration. Sub-Cellular Biochemistry, 2012, 60, 225-249.	1.0	28
57	Intermediate filaments against actomyosin: the david and goliath of cell migration. Current Opinion in Cell Biology, 2020, 66, 79-88.	2.6	25
58	N-cadherin expression level as a critical indicator of invasion in non-epithelial tumors. Cell Adhesion and Migration, 2012, 6, 327-332.	1.1	23
59	MHC class II engagement in brain endothelial cells induces protein kinase A-dependent IL-6 secretion and phosphorylation of cAMP response element-binding protein. Journal of Immunology, 1999, 163, 3636-41.	0.4	21
60	Molecular organization and mechanics of single vimentin filaments revealed by super-resolution imaging. Science Advances, 2022, 8, eabm2696.	4.7	21
61	p120catenin alteration in cancer and its role in tumour invasion. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20130015.	1.8	19
62	Intermediate filaments. Current Biology, 2021, 31, R522-R529.	1.8	19
63	Stochastic modeling reveals how motor protein and filament properties affect intermediate filament transport. Journal of Theoretical Biology, 2019, 464, 132-148.	0.8	17
64	Engagement of vimentin intermediate filaments in hypotonic stress. Journal of Cellular Biochemistry, 2019, 120, 13168-13176.	1.2	14
65	Spectrin binding motifs regulate Scribble cortical dynamics and polarity function. ELife, 2015, 4, .	2.8	14
66	Multiscale rheology of glioma cells. Biomaterials, 2021, 275, 120903.	5.7	11
67	Connecting the plasma membrane to the nucleus by intermediate filaments. Molecular Biology of the Cell, 2017, 28, 695-696.	0.9	10
68	Front-to-Rear Polarity in Migrating Cells. , 2015, , 115-146.		10
69	Deciphering the transport of elastic filaments by antagonistic motor proteins. Physical Review E, 2019, 99, 042414.	0.8	8
70	Intermediate filaments join the action. Cell Cycle, 2017, 16, 1389-1390.	1.3	7
71	Scribble at the crossroads. Journal of Biology, 2009, 8, 104.	2.7	5
72	Imaging Intermediate Filaments and Microtubules with 2-dimensional Direct Stochastic Optical Reconstruction Microscopy. Journal of Visualized Experiments, 2018, , .	0.2	5

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73	Impact of noise on the regulation of intracellular transport of intermediate filaments. Journal of Theoretical Biology, 2022, 547, 111183.	0.8	5
74	Les molÃ©cules qui dirigent la migration des astrocytes. Medecine/Sciences, 2002, 18, 142-144.	0.0	2
75	Adhesive Micropatterns to Study Intermediate Filament Function in Nuclear Positioning. Current Protocols in Cell Biology, 2015, 66, 13.7.1-13.7.19.	2.3	2
76	P120catenin tuning of VE-cadherin endocytosis controls collective cell behavior during angiogenesis. Journal of Cell Biology, 2020, 219, .	2.3	2
77	Cell polarity: Par6, aPKC and cytoskeletal crosstalk. , 2003, 15, 67-67.		1
78	Alan Hall (1952â€“2015), an Englishman in New York. EMBO Journal, 2015, 34, 1735-1736.	3.5	0
79	Editorial overview: Cell architecture: Intermediate filaments â€” from molecules to patients. Current Opinion in Cell Biology, 2015, 32, v-vi.	2.6	0
80	Having it all, a scientific career and a family. Nature Cell Biology, 2018, 20, 1001-1001.	4.6	0
81	Microtubule Function in the Mechanosensitive Regulation of Cell Migration. Biophysical Journal, 2019, 116, 18a.	0.2	0
82	Cell polarity inside-out. Current Opinion in Cell Biology, 2020, 62, iii-iv.	2.6	0
83	Adhesion Molecules and Their Function in Astrocyte Polarity. Frontiers in Neuroscience, 2011, , 63-106.	0.0	0
84	Abstract P461: Phospho-regulated Spatial Regulation Of Î±-tat1 Mediates Dynamic Microtubule Acetylation. Circulation Research, 2021, 129, .	2.0	0