

sandrine Etienne-Manneville

List of Publications by Year in descending order

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84
papers

13,939
citations

57758

44
h-index

71685

76
g-index

94
all docs

94
docs citations

94
times ranked

16493
citing authors

#	ARTICLE	IF	CITATIONS
1	Rho GTPases in cell biology. <i>Nature</i> , 2002, 420, 629-635.	27.8	4,288
2	Integrin-Mediated Activation of Cdc42 Controls Cell Polarity in Migrating Astrocytes through PKC ζ . <i>Cell</i> , 2001, 106, 489-498.	28.9	970
3	Cdc42 regulates GSK-3 β and adenomatous polyposis coli to control cell polarity. <i>Nature</i> , 2003, 421, 753-756.	27.8	803
4	Cdc42 - the centre of polarity. <i>Journal of Cell Science</i> , 2004, 117, 1291-1300.	2.0	662
5	The front and rear of collective cell migration. <i>Nature Reviews Molecular Cell Biology</i> , 2016, 17, 97-109.	37.0	649
6	Microtubules in Cell Migration. <i>Annual Review of Cell and Developmental Biology</i> , 2013, 29, 471-499.	9.4	406
7	Regulation of Cell Migration by the C2 Domain of the Tumor Suppressor PTEN. <i>Science</i> , 2004, 303, 1179-1181.	12.6	299
8	Actin and Microtubules in Cell Motility: Which One is in Control?. <i>Traffic</i> , 2004, 5, 470-477.	2.7	291
9	Single and collective cell migration: the mechanics of adhesions. <i>Molecular Biology of the Cell</i> , 2017, 28, 1833-1846.	2.1	287
10	ICAM-1-Coupled Cytoskeletal Rearrangements and Transendothelial Lymphocyte Migration Involve Intracellular Calcium Signaling in Brain Endothelial Cell Lines. <i>Journal of Immunology</i> , 2000, 165, 3375-3383.	0.8	278
11	Cdc42 and Par6 ζ -PKC ζ regulate the spatially localized association of Dlg1 and APC to control cell polarization. <i>Journal of Cell Biology</i> , 2005, 170, 895-901.	5.2	277
12	Cell polarity: Par6, aPKC and cytoskeletal crosstalk. <i>Current Opinion in Cell Biology</i> , 2003, 15, 67-72.	5.4	273
13	Polarity proteins in migration and invasion. <i>Oncogene</i> , 2008, 27, 6970-6980.	5.9	250
14	Cytoskeletal Crosstalk in Cell Migration. <i>Trends in Cell Biology</i> , 2020, 30, 720-735.	7.9	225
15	Scrib Controls Cdc42 Localization and Activity to Promote Cell Polarization during Astrocyte Migration. <i>Current Biology</i> , 2006, 16, 2395-2405.	3.9	198
16	Salen-Manganese Complexes Are Superoxide Dismutase-Mimics. <i>Biochemical and Biophysical Research Communications</i> , 1993, 192, 964-968.	2.1	197
17	ICAM-1 signaling pathways associated with Rho activation in microvascular brain endothelial cells. <i>Journal of Immunology</i> , 1998, 161, 5755-61.	0.8	180
18	Classical cadherins control nucleus and centrosome position and cell polarity. <i>Journal of Cell Biology</i> , 2009, 185, 779-786.	5.2	167

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19	Cdc42 localization and cell polarity depend on membrane traffic. <i>Journal of Cell Biology</i> , 2010, 191, 1261-1269.	5.2	156
20	Cytoplasmic Intermediate Filaments in Cell Biology. <i>Annual Review of Cell and Developmental Biology</i> , 2018, 34, 1-28.	9.4	147
21	From signaling pathways to microtubule dynamics: the key players. <i>Current Opinion in Cell Biology</i> , 2010, 22, 104-111.	5.4	143
22	Adherens junction treadmilling during collective migration. <i>Nature Cell Biology</i> , 2014, 16, 639-651.	10.3	142
23	Functional analysis of Peutz-Jeghers mutations reveals that the LKB1 C-terminal region exerts a crucial role in regulating both the AMPK pathway and the cell polarity. <i>Human Molecular Genetics</i> , 2005, 14, 1283-1292.	2.9	131
24	Intermediate filaments control collective migration by restricting traction forces and sustaining cell-cell contacts. <i>Journal of Cell Biology</i> , 2018, 217, 3031-3044.	5.2	126
25	N-cadherin expression level modulates integrin-mediated polarity and strongly impacts on the speed and directionality of glial cell migration. <i>Journal of Cell Science</i> , 2012, 125, 844-857.	2.0	125
26	Intermediate filaments in cell migration and invasion: the unusual suspects. <i>Current Opinion in Cell Biology</i> , 2015, 32, 102-112.	5.4	118
27	Lymphocyte migration into the central nervous system. <i>Vascular Pharmacology</i> , 2002, 38, 315-322.	2.1	112
28	Ezrin tunes T-cell activation by controlling Dlg1 and microtubule positioning at the immunological synapse. <i>EMBO Journal</i> , 2010, 29, 2301-2314.	7.8	111
29	In Vitro Assay of Primary Astrocyte Migration as a Tool to Study Rho GTPase Function in Cell Polarization. <i>Methods in Enzymology</i> , 2006, 406, 565-578.	1.0	103
30	Cytoplasmic intermediate filaments mediate actin-driven positioning of the nucleus. <i>Journal of Cell Science</i> , 2011, 124, 865-872.	2.0	96
31	Interaction of the actin cytoskeleton with microtubules regulates secretory organelle movement near the plasma membrane in human endothelial cells. <i>Journal of Cell Science</i> , 2003, 116, 3927-3938.	2.0	95
32	Scrib regulates PAK activity during the cell migration process. <i>Human Molecular Genetics</i> , 2008, 17, 3552-3565.	2.9	95
33	Integrin diversity brings specificity in mechanotransduction. <i>Biology of the Cell</i> , 2018, 110, 49-64.	2.0	91
34	Regulation of microtubule-associated motors drives intermediate filament network polarization. <i>Journal of Cell Biology</i> , 2017, 216, 1689-1703.	5.2	85
35	APC binds intermediate filaments and is required for their reorganization during cell migration. <i>Journal of Cell Biology</i> , 2013, 200, 249-258.	5.2	84
36	Nuclear positioning: Mechanisms and functions. <i>International Journal of Biochemistry and Cell Biology</i> , 2011, 43, 1698-1707.	2.8	82

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37	Microtubules tune mechanosensitive cell responses. <i>Nature Materials</i> , 2022, 21, 366-377.	27.5	77
38	Microtubules at focal adhesions – a double-edged sword. <i>Journal of Cell Science</i> , 2019, 132, .	2.0	74
39	Dlg1 binds GKAP to control dynein association with microtubules, centrosome positioning, and cell polarity. <i>Journal of Cell Biology</i> , 2010, 191, 585-598.	5.2	72
40	Centrosome positioning in polarized cells: Common themes and variations. <i>Experimental Cell Research</i> , 2014, 328, 240-248.	2.6	69
41	Mitochondrial MDM2 Regulates Respiratory Complex I Activity Independently of p53. <i>Molecular Cell</i> , 2018, 69, 594-609.e8.	9.7	68
42	Distinct functional outputs of PTEN signalling are controlled by dynamic association with β -arrestins. <i>EMBO Journal</i> , 2011, 30, 2557-2568.	7.8	58
43	Involvement of the Arp2/3 Complex and Scar2 in Golgi Polarity in Scratch Wound Models. <i>Molecular Biology of the Cell</i> , 2003, 14, 670-684.	2.1	53
44	Positioning centrosomes and spindle poles: looking at the periphery to find the centre. <i>Biology of the Cell</i> , 2006, 98, 557-565.	2.0	50
45	Neighborly relations during collective migration. <i>Current Opinion in Cell Biology</i> , 2014, 30, 51-59.	5.4	50
46	APC in Cell Migration. <i>Advances in Experimental Medicine and Biology</i> , 2009, 656, 30-40.	1.6	46
47	Microtubule acetylation but not detyrosination promotes focal adhesion dynamics and astrocyte migration. <i>Journal of Cell Science</i> , 2019, 132, .	2.0	45
48	Multicellular scale front-to-rear polarity in collective migration. <i>Current Opinion in Cell Biology</i> , 2020, 62, 114-122.	5.4	37
49	Lymphocyte trafficking through the blood-brain barrier is dependent on endothelial cell heterotrimeric G-protein signaling. <i>FASEB Journal</i> , 2002, 16, 1185-1194.	0.5	34
50	A toxic palmitoylation of Cdc42 enhances NF- κ B signaling and drives a severe autoinflammatory syndrome. <i>Journal of Allergy and Clinical Immunology</i> , 2020, 146, 1201-1204.e8.	2.9	33
51	Polarity proteins in glial cell functions. <i>Current Opinion in Neurobiology</i> , 2008, 18, 488-494.	4.2	32
52	Heparan Sulfate Saccharides Modify Focal Adhesions: Implication in Mucopolysaccharidosis Neuropathophysiology. <i>Journal of Molecular Biology</i> , 2015, 427, 775-791.	4.2	31
53	Control of polarized cell morphology and motility by adherens junctions. <i>Seminars in Cell and Developmental Biology</i> , 2011, 22, 850-857.	5.0	30
54	Connexin 30 controls astroglial polarization during postnatal brain development. <i>Development (Cambridge)</i> , 2018, 145, .	2.5	29

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55	Intermediate Filaments from Tissue Integrity to Single Molecule Mechanics. <i>Cells</i> , 2021, 10, 1905.	4.1	29
56	Adherens Junctions During Cell Migration. <i>Sub-Cellular Biochemistry</i> , 2012, 60, 225-249.	2.4	28
57	Intermediate filaments against actomyosin: the david and goliath of cell migration. <i>Current Opinion in Cell Biology</i> , 2020, 66, 79-88.	5.4	25
58	N-cadherin expression level as a critical indicator of invasion in non-epithelial tumors. <i>Cell Adhesion and Migration</i> , 2012, 6, 327-332.	2.7	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. <i>Journal of Immunology</i> , 1999, 163, 3636-41.	0.8	21
60	Molecular organization and mechanics of single vimentin filaments revealed by super-resolution imaging. <i>Science Advances</i> , 2022, 8, eabm2696.	10.3	21
61	p120catenin alteration in cancer and its role in tumour invasion. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20130015.	4.0	19
62	Intermediate filaments. <i>Current Biology</i> , 2021, 31, R522-R529.	3.9	19
63	Stochastic modeling reveals how motor protein and filament properties affect intermediate filament transport. <i>Journal of Theoretical Biology</i> , 2019, 464, 132-148.	1.7	17
64	Engagement of vimentin intermediate filaments in hypotonic stress. <i>Journal of Cellular Biochemistry</i> , 2019, 120, 13168-13176.	2.6	14
65	Spectrin binding motifs regulate Scribble cortical dynamics and polarity function. <i>ELife</i> , 2015, 4, .	6.0	14
66	Multiscale rheology of glioma cells. <i>Biomaterials</i> , 2021, 275, 120903.	11.4	11
67	Connecting the plasma membrane to the nucleus by intermediate filaments. <i>Molecular Biology of the Cell</i> , 2017, 28, 695-696.	2.1	10
68	Front-to-Rear Polarity in Migrating Cells. , 2015, , 115-146.		10
69	Deciphering the transport of elastic filaments by antagonistic motor proteins. <i>Physical Review E</i> , 2019, 99, 042414.	2.1	8
70	Intermediate filaments join the action. <i>Cell Cycle</i> , 2017, 16, 1389-1390.	2.6	7
71	Scribble at the crossroads. <i>Journal of Biology</i> , 2009, 8, 104.	2.7	5
72	Imaging Intermediate Filaments and Microtubules with 2-dimensional Direct Stochastic Optical Reconstruction Microscopy. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	5

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73	Impact of noise on the regulation of intracellular transport of intermediate filaments. <i>Journal of Theoretical Biology</i> , 2022, 547, 111183.	1.7	5
74	Les molécules qui dirigent la migration des astrocytes. <i>Medecine/Sciences</i> , 2002, 18, 142-144.	0.2	2
75	Adhesive Micropatterns to Study Intermediate Filament Function in Nuclear Positioning. <i>Current Protocols in Cell Biology</i> , 2015, 66, 13.7.1-13.7.19.	2.3	2
76	P120catenin tuning of VE-cadherin endocytosis controls collective cell behavior during angiogenesis. <i>Journal of Cell Biology</i> , 2020, 219, .	5.2	2
77	Cell polarity: Par6, aPKC and cytoskeletal crosstalk. <i>Current Opinion in Cell Biology</i> , 2003, 15, 67-72.	5.4	1
78	Alan Hall (1952–2015), an Englishman in New York. <i>EMBO Journal</i> , 2015, 34, 1735-1736.	7.8	0
79	Editorial overview: Cell architecture: Intermediate filaments – from molecules to patients. <i>Current Opinion in Cell Biology</i> , 2015, 32, v-vi.	5.4	0
80	Having it all, a scientific career and a family. <i>Nature Cell Biology</i> , 2018, 20, 1001-1001.	10.3	0
81	Microtubule Function in the Mechanosensitive Regulation of Cell Migration. <i>Biophysical Journal</i> , 2019, 116, 18a.	0.5	0
82	Cell polarity inside-out. <i>Current Opinion in Cell Biology</i> , 2020, 62, iii-iv.	5.4	0
83	Adhesion Molecules and Their Function in Astrocyte Polarity. <i>Frontiers in Neuroscience</i> , 2011, , 63-106.	0.0	0
84	Abstract P461: Phospho-regulated Spatial Regulation Of β -tub1 Mediates Dynamic Microtubule Acetylation. <i>Circulation Research</i> , 2021, 129, .	4.5	0