

Sylvie Dufour

List of Publications by Year in descending order

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76
papers

4,896
citations

94381

37
h-index

95218

68
g-index

77
all docs

77
docs citations

77
times ranked

5816
citing authors

#	ARTICLE	IF	CITATIONS
1	Force measurements in E-cadherin-mediated cell doublets reveal rapid adhesion strengthened by actin cytoskeleton remodeling through Rac and Cdc42. <i>Journal of Cell Biology</i> , 2004, 167, 1183-1194.	2.3	372
2	Cell adhesion and migration in the early vertebrate embryo: location and possible role of the putative fibronectin receptor complex. <i>Journal of Cell Biology</i> , 1986, 102, 160-178.	2.3	302
3	Neural crest-derived cells with stem cell features can be traced back to multiple lineages in the adult skin. <i>Journal of Cell Biology</i> , 2006, 175, 1005-1015.	2.3	293
4	Adhesion molecules during somitogenesis in the avian embryo.. <i>Journal of Cell Biology</i> , 1987, 104, 1361-1374.	2.3	272
5	The Universal Dynamics of Cell Spreading. <i>Current Biology</i> , 2007, 17, 694-699.	1.8	249
6	Aspiration of Biological Viscoelastic Drops. <i>Physical Review Letters</i> , 2010, 104, 218101.	2.9	215
7	Johnson-Kendall-Roberts Theory Applied to Living Cells. <i>Physical Review Letters</i> , 2005, 94, 028102.	2.9	174
8	Î±-Catenin and Vinculin Cooperate to Promote High E-cadherin-based Adhesion Strength. <i>Journal of Biological Chemistry</i> , 2013, 288, 4957-4969.	1.6	155
9	Spreading dynamics and wetting transition of cellular aggregates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 7315-7320.	3.3	142
10	Implication of Metastasis Suppressor <i>NM23-H1</i> in Maintaining Adherens Junctions and Limiting the Invasive Potential of Human Cancer Cells. <i>Cancer Research</i> , 2010, 70, 7710-7722.	0.4	132
11	Integrins stimulate E-cadherin-mediated intercellular adhesion by regulating Src-kinase activation and actomyosin contractility. <i>Journal of Cell Science</i> , 2010, 123, 712-722.	1.2	130
12	The human tissue plasminogen activator-Cre mouse: a new tool for targeting specifically neural crest cells and their derivatives in vivo. <i>Developmental Biology</i> , 2003, 259, 176-187.	0.9	123
13	Immune-Induced Fever Is Mediated by IL-6 Receptors on Brain Endothelial Cells Coupled to STAT3-Dependent Induction of Brain Endothelial Prostaglandin Synthesis. <i>Journal of Neuroscience</i> , 2014, 34, 15957-15961.	1.7	107
14	Prototypical Type I E-cadherin and Type II Cadherin-7 Mediate Very Distinct Adhesiveness through Their Extracellular Domains. <i>Journal of Biological Chemistry</i> , 2006, 281, 2901-2910.	1.6	101
15	Accumulation of fetal fibronectin mRNAs during the development of rat cardiac hypertrophy induced by pressure overload.. <i>Journal of Clinical Investigation</i> , 1991, 88, 1737-1746.	3.9	101
16	Lack of Î²1 integrins in enteric neural crest cells leads to a Hirschsprung-like phenotype. <i>Development (Cambridge)</i> , 2006, 133, 1725-1734.	1.2	98
17	The role of fibronectins in embryonic cell migrations. <i>Trends in Genetics</i> , 1988, 4, 198-203.	2.9	88
18	How cells flow in the spreading of cellular aggregates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 8055-8060.	3.3	72

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19	Changes in cholesterol levels in the plasma membrane modulate cell signaling and regulate cell adhesion and migration on fibronectin. <i>Cytoskeleton</i> , 2007, 64, 199-216.	4.4	70
20	β 1 integrins are required for the invasion of the caecum and proximal hindgut by enteric neural crest cells. <i>Development (Cambridge)</i> , 2009, 136, 2791-2801.	1.2	70
21	Conditional β 1-integrin gene deletion in neural crest cells causes severe developmental alterations of the peripheral nervous system. <i>Development (Cambridge)</i> , 2004, 131, 3871-3883.	1.2	64
22	E-cadherin expression during the acidic FGF-induced dispersion of a rat bladder carcinoma cell line. <i>Experimental Cell Research</i> , 1992, 201, 347-357.	1.2	63
23	Mechanosensitive shivering of model tissues under controlled aspiration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 13387-13392.	3.3	63
24	Differential perturbations in the morphogenesis of anterior structures induced by overexpression of truncated XB- and N-cadherins in <i>Xenopus</i> embryos.. <i>Journal of Cell Biology</i> , 1994, 127, 521-535.	2.3	61
25	Differential Function of N-Cadherin and Cadherin-7 in the Control of Embryonic Cell Motility. <i>Journal of Cell Biology</i> , 1999, 146, 501-516.	2.3	61
26	Neuropilin-1 regulates a new VEGF-induced gene, Phactr-1, which controls tubulogenesis and modulates lamellipodial dynamics in human endothelial cells. <i>Cellular Signalling</i> , 2012, 24, 214-223.	1.7	60
27	Separation Force Measurements Reveal Different Types of Modulation of E-cadherin-based Adhesion by Nectin-1 and -3. <i>Journal of Biological Chemistry</i> , 2005, 280, 4753-4760.	1.6	56
28	Changes in the fibronectin-specific integrin expression pattern modify the migratory behavior of sarcoma S180 cells in vitro and in the embryonic environment.. <i>Journal of Cell Biology</i> , 1995, 128, 699-713.	2.3	53
29	Measuring the micromechanical properties of embryonic tissues. <i>Methods</i> , 2016, 94, 120-128.	1.9	52
30	Epibranchial ganglia orchestrate the development of the cranial neurogenic crest. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 2066-2071.	3.3	51
31	Design, synthesis and preliminary biological evaluation of a focused combinatorial library of stereodiverse carbohydrate-scaffold-based peptidomimetics. <i>Bioorganic and Medicinal Chemistry</i> , 2001, 9, 511-523.	1.4	50
32	E-Cadherin-Dependent Stimulation of Traction Force at Focal Adhesions via the Src and PI3K Signaling Pathways. <i>Biophysical Journal</i> , 2012, 103, 175-184.	0.2	48
33	News from the endothelin-3/EDNRB signaling pathway: Role during enteric nervous system development and involvement in neural crest-associated disorders. <i>Developmental Biology</i> , 2018, 444, S156-S169.	0.9	47
34	Structure-based discovery of a small non-peptidic Neuropilins antagonist exerting in vitro and in vivo anti-tumor activity on breast cancer model. <i>Cancer Letters</i> , 2014, 349, 120-127.	3.2	46
35	How Tissue Mechanical Properties Affect Enteric Neural Crest Cell Migration. <i>Scientific Reports</i> , 2016, 6, 20927.	1.6	45
36	β -catenin, vinculin, and F-actin in strengthening E-cadherin cell-cell adhesions and mechanosensing. <i>Cell Adhesion and Migration</i> , 2013, 7, 345-350.	1.1	43

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37	Activated leukocyte cell adhesion molecule (<scp>ALCAM</scp>) is a marker of recurrence and promotes cell migration, invasion, and metastasis in early-stage endometrioid endometrial cancer. <i>Journal of Pathology</i> , 2017, 241, 475-487.	2.1	42
38	VGLUT2-dependent glutamatergic transmission in primary afferents is required for intact nociception in both acute and persistent pain modalities. <i>Pain</i> , 2012, 153, 1525-1536.	2.0	41
39	N-cadherin and β 1-integrins cooperate during the development of the enteric nervous system. <i>Developmental Biology</i> , 2012, 364, 178-191.	0.9	40
40	Simple rules for a "simple" nervous system? Molecular and biomathematical approaches to enteric nervous system formation and malformation. <i>Developmental Biology</i> , 2013, 382, 305-319.	0.9	39
41	Spontaneous migration of cellular aggregates from giant keratocytes to running spheroids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 12926-12931.	3.3	39
42	Expression of the cell-binding domain of human fibronectin in <i>E. coli</i> . <i>FEBS Letters</i> , 1987, 213, 261-264.	1.3	34
43	Emergence and development of gut motility in the chicken embryo. <i>PLoS ONE</i> , 2017, 12, e0172511.	1.1	30
44	ADAR1 mediated regulation of neural crest derived melanocytes and Schwann cell development. <i>Nature Communications</i> , 2020, 11, 198.	5.8	30
45	Role of a major cell-substratum adhesion system in cell behavior and morphogenesis. <i>Biology of the Cell</i> , 1986, 58, 1-13.	0.7	30
46	Role of E-Cadherin in Membrane-Cortex Interaction Probed by Nanotube Extrusion. <i>Biophysical Journal</i> , 2009, 96, 2457-2465.	0.2	29
47	NRPa-308, a new neuropilin-1 antagonist, exerts <i>in vitro</i> anti-angiogenic and anti-proliferative effects and <i>in vivo</i> anti-cancer effects in a mouse xenograft model. <i>Cancer Letters</i> , 2018, 414, 88-98.	3.2	29
48	Sox10 and Itgb1 interaction in enteric neural crest cell migration. <i>Developmental Biology</i> , 2013, 379, 92-106.	0.9	28
49	Biochemical and biophysical origins of cadherin selectivity and adhesion strength. <i>Current Opinion in Cell Biology</i> , 2012, 24, 614-619.	2.6	27
50	A novel model to study the dorsolateral migration of melanoblasts. <i>Mechanisms of Development</i> , 1999, 89, 3-14.	1.7	26
51	Involvement of interleukin-1 type 1 receptors in lipopolysaccharide-induced sickness responses. <i>Brain, Behavior, and Immunity</i> , 2017, 66, 165-176.	2.0	23
52	Detachment and fracture of cellular aggregates. <i>Soft Matter</i> , 2013, 9, 2282.	1.2	22
53	Control of the collective migration of enteric neural crest cells by the Complement anaphylatoxin C3a and N-cadherin. <i>Developmental Biology</i> , 2016, 414, 85-99.	0.9	22
54	Negative Feedback from Integrins to Cadherins: A Micromechanical Study. <i>Biophysical Journal</i> , 2011, 101, 336-344.	0.2	21

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55	Generation of full-length cDNA recombinant vectors for the transient expression of human fibronectin in mammalian cell lines. <i>Experimental Cell Research</i> , 1991, 193, 331-338.	1.2	20
56	Differential expression of $\beta 3$ integrin gene in chick and mouse cranial neural crest cells. <i>Developmental Dynamics</i> , 2003, 227, 309-313.	0.8	17
57	New transgenic evidence for a system of sympathetic axons able to express tissue plasminogen activator (t-PA) within arterial/arteriolar walls. <i>Blood</i> , 2006, 108, 200-202.	0.6	17
58	Capns1, a new binding partner of RasGAP-SH3 domain in K-RasV12 oncogenic cells: Modulation of cell survival and migration. <i>Cellular Signalling</i> , 2008, 20, 2119-2126.	1.7	17
59	The migratory behavior of avian embryonic cells does not require phosphorylation of the fibronectin-receptor complex. <i>FEBS Letters</i> , 1988, 230, 181-185.	1.3	16
60	The Instructive Role of Fibronectins in Cell Migrations during Embryonic Development. <i>Annals of the New York Academy of Sciences</i> , 1990, 588, 273-280.	1.8	14
61	A RasGAP SH3 Peptide Aptamer Inhibits RasGAP-Aurora Interaction and Induces Caspase-Independent Tumor Cell Death. <i>PLoS ONE</i> , 2008, 3, e2902.	1.1	14
62	Nanostickers for cells: a model study using cell-nanoparticle hybrid aggregates. <i>Soft Matter</i> , 2016, 12, 7902-7907.	1.2	13
63	Extracellular matrix-cytoskeleton interactions in locomoting embryonic cells. <i>Protoplasma</i> , 1988, 145, 112-119.	1.0	12
64	Direct Role of the Carboxy-Terminal Cell-Binding Domain of Fibronectin in Neural Crest Cell Motility. <i>Experimental Cell Research</i> , 1997, 233, 1-10.	1.2	11
65	Endothelin-3 stimulates cell adhesion and cooperates with $\beta 1$ -integrins during enteric nervous system ontogenesis. <i>Scientific Reports</i> , 2016, 6, 37877.	1.6	11
66	ALCAM shedding at the invasive front of the tumor is a marker of myometrial infiltration and promotes invasion in endometrioid endometrial cancer. <i>Oncotarget</i> , 2018, 9, 16648-16664.	0.8	11
67	Mechanical Tension Drives Elongational Growth of the Embryonic Gut. <i>Scientific Reports</i> , 2018, 8, 5995.	1.6	8
68	How Smooth Muscle Contractions Shape the Developing Enteric Nervous System. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 678975.	1.8	8
69	Synthesis and evaluation of substituted indolizidines as peptidomimetics of RGD tripeptide sequence. <i>Tetrahedron</i> , 2009, 65, 1402-1414.	1.0	7
70	A neural crest cell isotropic-to-nematic phase transition in the developing mammalian gut. <i>Communications Biology</i> , 2021, 4, 770.	2.0	5
71	Differential regulation of the lateral mobility of plasma membrane phospholipids by the extracellular matrix and cholesterol. <i>Journal of Cellular Physiology</i> , 2008, 215, 550-561.	2.0	4
72	How gluttonous cell aggregates clear substrates coated with microparticles. <i>Scientific Reports</i> , 2017, 7, 15729.	1.6	4

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73	Establishing Primary Cultures of Trunk Neural Crest Cells. <i>Current Protocols in Cell Biology</i> , 2020, 88, e109.	2.3	2
74	Î²1-Integrin Function and Interplay during Enteric Nervous System Development. , 2015, , 153-166.		1
75	Integrins stimulate E-cadherin-mediated intercellular adhesion by regulating Src-kinase activation and actomyosin contractility. <i>Development (Cambridge)</i> , 2010, 137, e1-e1.	1.2	1
76	Extracellular domains of E-cadherin determine key mechanical phenotypes of an epithelium through cell- and non-cell-autonomous outside-in signaling. <i>PLoS ONE</i> , 2021, 16, e0260593.	1.1	1