

RenÅ©-marc MÃge

List of Publications by Year in descending order

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80
papers

6,704
citations

76196

40
h-index

69108

77
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94
all docs

94
docs citations

94
times ranked

6892
citing authors

#	ARTICLE	IF	CITATIONS
1	E-Cadherin Is the Receptor for Internalin, a Surface Protein Required for Entry of <i>L. monocytogenes</i> into Epithelial Cells. <i>Cell</i> , 1996, 84, 923-932.	13.5	832
2	Mechanobiology of collective cell behaviours. <i>Nature Reviews Molecular Cell Biology</i> , 2017, 18, 743-757.	16.1	518
3	Force-dependent conformational switch of β -catenin controls vinculin binding. <i>Nature Communications</i> , 2014, 5, 4525.	5.8	375
4	Regulation of cell-cell junctions by the cytoskeleton. <i>Current Opinion in Cell Biology</i> , 2006, 18, 541-548.	2.6	243
5	Adaptive rheology and ordering of cell cytoskeleton govern matrix rigidity sensing. <i>Nature Communications</i> , 2015, 6, 7525.	5.8	233
6	Strength Dependence of Cadherin-Mediated Adhesions. <i>Biophysical Journal</i> , 2010, 98, 534-542.	0.2	223
7	Meningococcal Type IV Pili Recruit the Polarity Complex to Cross the Brain Endothelium. <i>Science</i> , 2009, 325, 83-87.	6.0	205
8	Integration of Cadherin Adhesion and Cytoskeleton at Adherens Junctions. <i>Cold Spring Harbor Perspectives in Biology</i> , 2017, 9, a028738.	2.3	204
9	Cadherin expression is required for the spread of <i>Shigella flexneri</i> between epithelial cells. <i>Cell</i> , 1994, 76, 829-839.	13.5	181
10	Traction forces exerted through N-cadherin contacts. <i>Biology of the Cell</i> , 2006, 98, 721-730.	0.7	180
11	Remodeling the zonula adherens in response to tension and the role of afadin in this response. <i>Journal of Cell Biology</i> , 2016, 213, 243-260.	2.3	157
12	β -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
13	A Molecular Clutch between the Actin Flow and N-Cadherin Adhesions Drives Growth Cone Migration. <i>Journal of Neuroscience</i> , 2008, 28, 5879-5890.	1.7	144
14	Nanoscale architecture of cadherin-based cell-cell adhesions. <i>Nature Cell Biology</i> , 2017, 19, 28-37.	4.6	135
15	Front-Rear Polarization by Mechanical Cues: From Single Cells to Tissues. <i>Trends in Cell Biology</i> , 2016, 26, 420-433.	3.6	127
16	Lamellipodium extension and cadherin adhesion: two cell responses to cadherin activation relying on distinct signalling pathways. <i>Journal of Cell Science</i> , 2004, 117, 257-270.	1.2	123
17	Cell response to substrate rigidity is regulated by active and passive cytoskeletal stress. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 12817-12825.	3.3	122
18	Multi-level molecular clutches in motile cell processes. <i>Trends in Cell Biology</i> , 2009, 19, 475-486.	3.6	114

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19	Dynamics of ligand-induced, Rac1-dependent anchoring of cadherins to the actin cytoskeleton. <i>Journal of Cell Biology</i> , 2002, 157, 469-479.	2.3	113
20	The role of single-cell mechanical behaviour and polarity in driving collective cell migration. <i>Nature Physics</i> , 2020, 16, 802-809.	6.5	109
21	Mechanics of epithelial tissues during gap closure. <i>Current Opinion in Cell Biology</i> , 2016, 42, 52-62.	2.6	107
22	Sustained Oscillations of Epithelial Cell Sheets. <i>Biophysical Journal</i> , 2019, 117, 464-478.	0.2	100
23	Force-dependent binding of vinculin to β -catenin regulates cell-cell contact stability and collective cell behavior. <i>Molecular Biology of the Cell</i> , 2018, 29, 380-388.	0.9	99
24	Epithelial Cell Packing Induces Distinct Modes of Cell Extrusions. <i>Current Biology</i> , 2016, 26, 2942-2950.	1.8	98
25	Recruitment of the Kainate Receptor Subunit Glutamate Receptor 6 by Cadherin/Catenin Complexes. <i>Journal of Neuroscience</i> , 2002, 22, 6426-6436.	1.7	94
26	Tetanus neurotoxin-mediated cleavage of cellubrevin impairs epithelial cell migration and integrin-dependent cell adhesion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 6362-6367.	3.3	86
27	The formation of ordered nanoclusters controls cadherin anchoring to actin and cell-cell contact fluidity. <i>Journal of Cell Biology</i> , 2015, 210, 333-346.	2.3	73
28	Investigating the nature of active forces in tissues reveals how contractile cells can form extensile monolayers. <i>Nature Materials</i> , 2021, 20, 1156-1166.	13.3	69
29	Regulation of N-Cadherin Dynamics at Neuronal Contacts by Ligand Binding and Cytoskeletal Coupling. <i>Molecular Biology of the Cell</i> , 2006, 17, 862-875.	0.9	68
30	Coordination between Intra- and Extracellular Forces Regulates Focal Adhesion Dynamics. <i>Nano Letters</i> , 2017, 17, 399-406.	4.5	63
31	Myosin II isoforms play distinct roles in adherens junction biogenesis. <i>ELife</i> , 2019, 8, .	2.8	60
32	Nucleation and growth of cadherin adhesions. <i>Experimental Cell Research</i> , 2007, 313, 4025-4040.	1.2	57
33	Cadherin-11 interacts with the FGF receptor and induces neurite outgrowth through associated downstream signalling. <i>Cellular Signalling</i> , 2008, 20, 1061-1072.	1.7	54
34	N-cadherin Activation Substitutes for the Cell Contact Control in Cell Cycle Arrest and Myogenic Differentiation. <i>Journal of Biological Chemistry</i> , 2004, 279, 36795-36802.	1.6	53
35	N-Cadherin Sustains Motility and Polarity of Future Cortical Interneurons during Tangential Migration. <i>Journal of Neuroscience</i> , 2013, 33, 18149-18160.	1.7	52
36	Regulation of epithelial cell organization by tuning cell-substrate adhesion. <i>Integrative Biology (United Kingdom)</i> , 2015, 7, 1228-1241.	0.6	52

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37	Is Intercellular Communication Via Gap Junctions Required for Myoblast Fusion?. <i>Cell Adhesion and Communication</i> , 1994, 2, 329-343.	1.7	51
38	Clustering of cellular prion protein induces ERK1/2 and stathmin phosphorylation in GT1-7 neuronal cells. <i>FEBS Letters</i> , 2004, 576, 114-118.	1.3	50
39	M-cadherin localization in developing adult and regenerating mouse skeletal muscle: possible involvement in secondary myogenesis. <i>Mechanisms of Development</i> , 1995, 50, 85-97.	1.7	47
40	Mechanical forces in cell monolayers. <i>Journal of Cell Science</i> , 2018, 131, .	1.2	45
41	Î±-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
42	N-Cadherin and Fibroblast Growth Factor Receptors crosstalk in the control of developmental and cancer cell migrations. <i>European Journal of Cell Biology</i> , 2016, 95, 415-426.	1.6	41
43	Cell shape and substrate stiffness drive actin-based cell polarity. <i>Physical Review E</i> , 2019, 99, 012412.	0.8	39
44	Homoassociation of VE-cadherin Follows a Mechanism Common to "Classical" Cadherins. <i>Journal of Molecular Biology</i> , 2003, 325, 733-742.	2.0	36
45	Cytotactin is involved in synaptogenesis during regeneration of the frog neuromuscular system. <i>Developmental Biology</i> , 1992, 149, 381-394.	0.9	35
46	Growth and Cell Density-Dependent Expression of Stathmin in C2 Myoblasts in Culture. <i>Experimental Cell Research</i> , 1996, 224, 8-15.	1.2	35
47	A novel function for cadherin-11 in the regulation of motor axon elongation and fasciculation. <i>Molecular and Cellular Neurosciences</i> , 2005, 28, 715-726.	1.0	35
48	Adhesion-mediated heterogeneous actin organization governs apoptotic cell extrusion. <i>Nature Communications</i> , 2021, 12, 397.	5.8	34
49	Complementary Expression and Regulation of Cadherins 6 and 11 during Specific Steps of Motoneuron Differentiation. <i>Molecular and Cellular Neurosciences</i> , 2002, 20, 458-475.	1.0	33
50	Cadherin-dependent cell aggregation is affected by decapeptide derived from rat extracellular super-oxide dismutase. <i>FEBS Letters</i> , 1995, 363, 289-292.	1.3	32
51	Cell migration guided by long-lived spatial memory. <i>Nature Communications</i> , 2021, 12, 4118.	5.8	32
52	Heterogeneity and regulation of cellular prion protein glycoforms in neuronal cell lines. <i>European Journal of Neuroscience</i> , 2003, 18, 542-548.	1.2	30
53	N-Cadherin Mediates Neuronal Cell Survival through Bim Down-Regulation. <i>PLoS ONE</i> , 2012, 7, e33206.	1.1	28
54	M-cadherin Distribution in the Mouse Adult Neuromuscular System Suggests a Role in Muscle Innervation. <i>European Journal of Neuroscience</i> , 1996, 8, 1666-1676.	1.2	26

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55	Cadherin-based cell adhesion in neuromuscular development. <i>Biology of the Cell</i> , 2002, 94, 315-326.	0.7	25
56	Cadherins M, 11, and 6 Expression Patterns Suggest Complementary Roles in Mouse Neuromuscular Axis Development. <i>Molecular and Cellular Neurosciences</i> , 1998, 11, 217-233.	1.0	24
57	A subtle relationship between substrate stiffness and collective migration of cell clusters. <i>Soft Matter</i> , 2020, 16, 1825-1839.	1.2	24
58	Modulation of expression and cell surface distribution of N-CAM during myogenesis in vitro. <i>Neurochemistry International</i> , 1991, 18, 97-106.	1.9	21
59	Adhesive interactions of N-cadherin limit the recruitment of microtubules to cell-cell contacts through organization of actomyosin. <i>Journal of Cell Science</i> , 2014, 127, 1660-1671.	1.2	21
60	N-cadherin and N-CAM-mediated adhesion in development and regeneration of skeletal muscle. <i>Neuromuscular Disorders</i> , 1993, 3, 361-365.	0.3	20
61	Influence of proliferation on the motions of epithelial monolayers invading adherent strips. <i>Soft Matter</i> , 2019, 15, 2798-2810.	1.2	20
62	Enhanced cell-cell contact stability and decreased N-cadherin-mediated migration upon fibroblast growth factor receptor-N-cadherin cross talk. <i>Oncogene</i> , 2019, 38, 6283-6300.	2.6	19
63	Active nematics across scales from cytoskeleton organization to tissue morphogenesis. <i>Current Opinion in Genetics and Development</i> , 2022, 73, 101897.	1.5	18
64	Once upon a time there was β -catenin in cadherin-mediated signalling. <i>Biology of the Cell</i> , 2005, 97, 921-926.	0.7	17
65	A dileucine motif targets MCAM-I cell adhesion molecule to the basolateral membrane in MDCK cells. <i>FEBS Letters</i> , 2006, 580, 3649-3656.	1.3	17
66	Ankyrin G organizes membrane components to promote coupling of cell mechanics and glucose uptake. <i>Nature Cell Biology</i> , 2021, 23, 457-466.	4.6	16
67	Modulation of designer biomimetic matrices for optimized differentiated intestinal epithelial cultures. <i>Biomaterials</i> , 2022, 282, 121380.	5.7	15
68	Upregulation and redistribution of cadherins reveal specific glial and muscle cell phenotypes during Wallerian degeneration and muscle denervation in the mouse. , 1999, 58, 270-283.		13
69	Mechanical plasticity in collective cell migration. <i>Current Opinion in Cell Biology</i> , 2021, 72, 54-62.	2.6	13
70	Local contractions regulate E-cadherin rigidity sensing. <i>Science Advances</i> , 2022, 8, eabk0387.	4.7	11
71	Abnormal enwrapment of intramuscular axons by distal Schwann cells with defective basal lamina in the muscular dysgenic mouse embryo. <i>Developmental Biology</i> , 1987, 124, 259-268.	0.9	10
72	Distinct Location and Prevalence of β -, β -Catenins and β -Catenin/Plakoglobin in Developing and Denervated Skeletal Muscle. <i>Cell Adhesion and Communication</i> , 1998, 5, 161-176.	1.7	10

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73	A phenomenological model of cell-cell adhesion mediated by cadherins. <i>Journal of Mathematical Biology</i> , 2017, 74, 1657-1678.	0.8	3
74	Molecular basis for fluidization of cancer cells. <i>Nature Materials</i> , 2019, 18, 1147-1148.	13.3	3
75	Localized deposition of M-cadherin in the glomeruli of the granular layer during the postnatal development of mouse cerebellum. , 1997, 378, 180.		2
76	Direct measurement of near-nano-Newton forces developed by self-organizing actomyosin fibers bound to catenin. <i>Biology of the Cell</i> , 2021, 113, 441-449.	0.7	1
77	La régulation de l'adhérence cellulaire par la régulation cytoplasmique des cadhérines. <i>Société De Biologie Journal</i> , 2004, 198, 365-374.	0.3	0
78	Why would you like to publish in <i>Biology of the Cell</i> . <i>Biology of the Cell</i> , 2017, 109, 113-114.	0.7	0
79	Adhesive interactions of N-cadherin limit the recruitment of microtubules to cell-cell contacts through organization of actomyosin. <i>Development (Cambridge)</i> , 2014, 141, e1005-e1005.	1.2	0
80	Active forces modulate collective behaviour and cellular organization. <i>Comptes Rendus - Biologies</i> , 2021, 344, 325-335.	0.1	0