Steering cell migration: lamellipodium dynamics and the persistence

Nature Reviews Molecular Cell Biology 15, 577-590

Citation Report

DOI: 10.1038/nrm3861

#	Article	IF	CITATIONS
1	Overexpression of adenylate cyclaseâ€associated protein 2 is a novel prognostic marker in malignant melanoma. Pathology International, 2015, 65, 627-634.	0.6	19
2	Distinct predictive performance of Rac1 and Cdc42 in cell migration. Scientific Reports, 2015, 5, 17527.	1.6	44
3	Membrane protrusion powers clathrinâ€independent endocytosis of interleukinâ€2 receptor. EMBO Journal, 2015, 34, 2147-2161.	3.5	39
4	Stonin1 mediates endocytosis of the proteoglycan NG2 and regulates focal adhesion dynamics and cell motility. Nature Communications, 2015, 6, 8535.	5.8	17
5	The Arp2/3 inhibitory protein arpin induces cell turning by pausing cell migration. Cytoskeleton, 2015, 72, 362-371.	1.0	37
6	Actin binding proteins in blood–testis barrier function. Current Opinion in Endocrinology, Diabetes and Obesity, 2015, 22, 238-247.	1.2	17
7	Role of the WASP and WAVE family proteins in breast cancer invasion and metastasis. Breast Cancer: Targets and Therapy, 2015, 7, 99.	1.0	36
8	Role of Focal Adhesions in Lamellipodia Dynamics. Journal of Biotechnology & Biomaterials, 2015, 05, .	0.3	0
9	SCARN a Novel Class of SCAR Protein That Is Required for Root-Hair Infection during Legume Nodulation. PLoS Genetics, 2015, 11, e1005623.	1.5	78
10	Protrusive waves guide 3D cell migration along nanofibers. Journal of Cell Biology, 2015, 211, 683-701.	2.3	73
11	WHAMY is a novel actin polymerase promoting myoblast fusion, macrophage cell motility and sensory organ development. Journal of Cell Science, 2016, 129, 604-20.	1.2	11
12	Myosin II controls cellular branching morphogenesis and migration in three dimensions by minimizing cell-surfaceÂcurvature. Nature Cell Biology, 2015, 17, 137-147.	4.6	109
13	Endocytosis-dependent coordination of multiple actin regulators is required for wound healing. Journal of Cell Biology, 2015, 210, 419-433.	2.3	36
14	Lamellipodin Is Important for Cell-to-Cell Spread and Actin-Based Motility in Listeria monocytogenes. Infection and Immunity, 2015, 83, 3740-3748.	1.0	16
15	The Ins and Outs of Small GTPase Rac1 in the Vasculature. Journal of Pharmacology and Experimental Therapeutics, 2015, 354, 91-102.	1.3	19
16	Berberine inhibits Chlamydia pneumoniae infection-induced vascular smooth muscle cell migration through downregulating MMP3 and MMP9 via PI3K. European Journal of Pharmacology, 2015, 755, 102-109.	1.7	32
17	Open source software for quantification of cell migration, protrusions, and fluorescence intensities. Journal of Cell Biology, 2015, 209, 163-180.	2.3	138
18	Emerging roles of protocadherins: from self-avoidance to enhancement of motility. Journal of Cell Science, 2015, 128, 1455-64.	1.2	73

#	Article	IF	CITATIONS
19	α5β1 integrin recycling promotes Arp2/3-independent cancer cell invasion via the formin FHOD3. Journal of Cell Biology, 2015, 210, 1013-1031.	2.3	97
20	Shape control of lipid bilayer membranes by confined actin bundles. Soft Matter, 2015, 11, 8834-8847.	1.2	74
21	The mechanisms of spatial and temporal patterning of cell-edge dynamics. Current Opinion in Cell Biology, 2015, 36, 113-121.	2.6	19
22	Quantifying Modes of 3D Cell Migration. Trends in Cell Biology, 2015, 25, 749-759.	3.6	63
23	Signaling Scaffold Protein IQGAP1 Interacts with Microtubule Plus-end Tracking Protein SKAP and Links Dynamic Microtubule Plus-end to Steer Cell Migration. Journal of Biological Chemistry, 2015, 290, 23766-23780.	1.6	26
24	Rho GTPase signalling in cell migration. Current Opinion in Cell Biology, 2015, 36, 103-112.	2.6	647
25	Functional Hierarchy of Redundant Actin Assembly Factors Revealed by Fine-Grained Registration of Intrinsic Image Fluctuations. Cell Systems, 2015, 1, 37-50.	2.9	65
26	Wiskott–Aldrich Syndrome, Leukocyte Adhesion Deficiency, and Other Migration Defects in Human Primary Immunodeficiency. , 2016, , 416-425.		Ο
27	Acute Hypoxic Stress Affects Migration Machinery of Tissue O ₂ -Adapted Adipose Stromal Cells. Stem Cells International, 2016, 2016, 1-16.	1.2	12
28	Scale Invariant Disordered Nanotopography Promotes Hippocampal Neuron Development and Maturation with Involvement of Mechanotransductive Pathways. Frontiers in Cellular Neuroscience, 2016, 10, 267.	1.8	64
29	Tyrosine Phosphorylation of SGEF Regulates RhoG Activity and Cell Migration. PLoS ONE, 2016, 11, e0159617.	1.1	7
30	Elastic instability-mediated actuation by a supra-molecular polymer. Nature Physics, 2016, 12, 926-930.	6.5	32
31	Tropomyosin isoforms differentially modulate the regulation of actin filament polymerization and depolymerization by cofilins. FEBS Journal, 2016, 283, 723-737.	2.2	29
32	Endothelin-3 stimulates cell adhesion and cooperates with β1-integrins during enteric nervous system ontogenesis. Scientific Reports, 2016, 6, 37877.	1.6	11
33	Substrate engagement of integrins α5β1 and αvβ3 is necessary, but not sufficient, for high directional persistence in migration on fibronectin. Scientific Reports, 2016, 6, 23258.	1.6	50
34	Cyclic Nucleotide Control of Microtubule Dynamics for Axon Guidance. Journal of Neuroscience, 2016, 36, 5636-5649.	1.7	42
35	Cell adhesion and invasion mechanisms that guide developing axons. Current Opinion in Neurobiology, 2016, 39, 77-85.	2.0	36
36	Mechano-reciprocity is maintained between physiological boundaries by tuning signal flux through the Rho-associated protein kinase. Small GTPases, 2016, 7, 139-146.	0.7	25

#	Article	IF	CITATIONS
37	Coronin 1B serine 2 phosphorylation by p38α is critical for vascular endothelial growth factor-induced migration of human umbilical vein endothelial cells. Cellular Signalling, 2016, 28, 1817-1825.	1.7	11
38	GOLPH3 drives cell migration by promoting Golgi reorientation and directional trafficking to the leading edge. Molecular Biology of the Cell, 2016, 27, 3828-3840.	0.9	58
39	Clathrin regulates lymphocyte migration by driving actin accumulation at the cellular leading edge. European Journal of Immunology, 2016, 46, 2376-2387.	1.6	9
40	Autophagy: Press and Push for Destruction. Current Biology, 2016, 26, R703-R705.	1.8	8
41	Aberrant expression of Arpin in human breast cancer and its clinical significance. Journal of Cellular and Molecular Medicine, 2016, 20, 450-458.	1.6	11
42	Collective invasion of cancer: Perspectives from pathology and development. Pathology International, 2016, 66, 183-192.	0.6	47
43	Phosphoinositides in Control of Membrane Dynamics. Annual Review of Cell and Developmental Biology, 2016, 32, 143-171.	4.0	240
44	The Structurally Plastic CH2 Domain Is Linked to Distinct Functions of Fimbrins/Plastins. Journal of Biological Chemistry, 2016, 291, 17881-17896.	1.6	16
46	Role of Rho GTPases in Mechanobiology. , 2016, , 97-117.		1
47	Suppression of Rac1 Signaling by Influenza A Virus NS1 Facilitates Viral Replication. Scientific Reports, 2016, 6, 35041.	1.6	11
48	Role of Sphingosine Kinase 1 and S1P Transporter Spns2 in HGF-mediated Lamellipodia Formation in Lung Endothelium. Journal of Biological Chemistry, 2016, 291, 27187-27203.	1.6	32
49	Rho GTPases: Regulation and roles in cancer cell biology. Small GTPases, 2016, 7, 207-221.	0.7	373
50	Cancer-associated mutations in the protrusion-targeting region of p190RhoGAP impact tumor cell migration. Journal of Cell Biology, 2016, 214, 859-873.	2.3	25
51	The SHIP2 interactor Myo1c is required for cell migration in 1321 N1 glioblastoma cells. Biochemical and Biophysical Research Communications, 2016, 476, 508-514.	1.0	14
52	The WASF3–NCKAP1–CYFIP1 Complex Is Essential for Breast Cancer Metastasis. Cancer Research, 2016, 76, 5133-5142.	0.4	57
53	LOVTRAP: an optogenetic system for photoinduced protein dissociation. Nature Methods, 2016, 13, 755-758.	9.0	267
54	Molecular Control of Actin Dynamics In Vivo: Insights from Drosophila. Handbook of Experimental Pharmacology, 2016, 235, 285-310.	0.9	7
55	Signalling Pathways Controlling Cellular Actin Organization. Handbook of Experimental Pharmacology, 2016, 235, 153-178.	0.9	17

#	Article	IF	CITATIONS
56	Matrix metalloproteinases: an emerging role in regulation of actin microfilament system. Biomolecular Concepts, 2016, 7, 321-329.	1.0	11
57	DAAM1 stabilizes epithelial junctions by restraining WAVE complex–dependent lateral membrane motility. Journal of Cell Biology, 2016, 215, 559-573.	2.3	28
58	Inhibition of WAVE Regulatory Complex Activation by a Bacterial Virulence Effector Counteracts Pathogen Phagocytosis. Cell Reports, 2016, 17, 697-707.	2.9	32
59	Tyrosine kinase-mediated axial motility of basal cells revealed by intravital imaging. Nature Communications, 2016, 7, 10666.	5.8	23
60	Common Themes in Cytoskeletal Remodeling by Intracellular Bacterial Effectors. Handbook of Experimental Pharmacology, 2016, 235, 207-235.	0.9	8
61	N-Cadherin and Fibroblast Growth Factor Receptors crosstalk in the control of developmental and cancer cell migrations. European Journal of Cell Biology, 2016, 95, 415-426.	1.6	41
62	Contractility as a global regulator of cellular morphology, velocity, and directionality in low-adhesive fibrillary micro-environments. Biomaterials, 2016, 102, 137-147.	5.7	13
63	Formins at the Junction. Trends in Biochemical Sciences, 2016, 41, 148-159.	3.7	58
64	Hybrid Structural Analysis of the Arp2/3 Regulator Arpin Identifies Its Acidic Tail as a Primary Binding Epitope. Structure, 2016, 24, 252-260.	1.6	20
65	Lamellipodin promotes invasive 3D cancer cell migration via regulated interactions with Ena/VASP and SCAR/WAVE. Oncogene, 2016, 35, 5155-5169.	2.6	76
66	Guidance of Axons by Local Coupling of Retrograde Flow to Point Contact Adhesions. Journal of Neuroscience, 2016, 36, 2267-2282.	1.7	49
67	Arpin downregulation in breast cancer is associated with poor prognosis. British Journal of Cancer, 2016, 114, 545-553.	2.9	25
68	Chemotaxis during neural crest migration. Seminars in Cell and Developmental Biology, 2016, 55, 111-118.	2.3	56
69	SHIP2 controls plasma membrane PI(4,5)P2 thereby participating in the control of cell migration in 1321 N1 glioblastoma. Journal of Cell Science, 2016, 129, 1101-14.	1.2	41
70	Mechanotransduction During Vertebrate Neurulation. Current Topics in Developmental Biology, 2016, 117, 359-376.	1.0	16
71	Comprehensive Proteomic and Metabolomic Signatures of Nontypeable Haemophilus influenzae-Induced Acute Otitis Media Reveal Bacterial Aerobic Respiration in an Immunosuppressed Environment. Molecular and Cellular Proteomics, 2016, 15, 1117-1138.	2.5	18
72	Phototriggered fibril-like environments arbitrate cell escapes and migration from endothelial monolayers. Biomaterials, 2016, 82, 113-123.	5.7	19
73	A hemidesmosomal protein regulates actin dynamics and traction forces in motile keratinocytes. FASEB Journal, 2016, 30, 2298-2310.	0.2	30

ARTICLE IF CITATIONS Cellular immune defenses of Drosophila melanogaster. Developmental and Comparative Immunology, 1.0 62 74 2016, 58, 95-101. The front and rear of collective cell migration. Nature Reviews Molecular Cell Biology, 2016, 17, 16.1 649 97-109. Connexin 43 reboots meiosis and reseals bloodâ€testis barrier following toxicantâ€mediated 76 0.2 37 aspermatogenesis and barrier disruption. FASEB Journal, 2016, 30, 1436-1452. Integration of linear and dendritic actin nucleation in Nck-induced actin comets. Molecular Biology 0.9 of the Cell, 2016, 27, 247-259. Collective cell migration: a physics perspective. Reports on Progress in Physics, 2017, 80, 076601. 78 8.1 158 Global treadmilling coordinates actin turnover and controls the size of actin networks. Nature Reviews Molecular Cell Biology, 2017, 18, 389-401. 79 16.1 109 Coordinated Movement of Vesicles and Actin Bundles during Nerve Growth Revealed by 80 2.9 44 Superresolution Microscopy. Cell Reports, 2017, 18, 2203-2216. Coupled excitable Ras and F-actin activation mediates spontaneous pseudopod formation and directed 59 cell movement. Molecular Biology of the Cell, 2017, 28, 922-934. A novel FOXO1-mediated dedifferentiation blocking role for DKK3 in adrenocortical carcinogenesis. 82 1.1 11 BMC Cancer, 2017, 17, 164. Coordinated cell motility is regulated by a combination of LKB1 farnesylation and kinase activity. 1.6 Scientific Reports, 2017, 7, 40929. Comprehensive Proteomic Characterization of the Human Colorectal Carcinoma Reveals Signature 84 1.6 25 Proteins and Perturbed Pathways. Scientific Reports, 2017, 7, 42436. The roles and regulation of the actin cytoskeleton, intermediate filaments and microtubules in 209 1.4 smooth muscle cell migration. Respiratory Research, 2017, 18, 54. SHIP2: Structure, Function and Inhibition. ChemBioChem, 2017, 18, 233-247. 86 1.3 35 Fibronectin promotes directional persistence in fibroblast migration through interactions with both 87 1.6 its cell-binding and heparin-binding domains. Scientific Reports, 2017, 7, 3711. 88 Leukocyte Breaching of Endothelial Barriers: The Actin Link. Trends in Immunology, 2017, 38, 606-615. 2.9 46 <scp>Pl</scp>(3,4)P₂ plays critical roles in the regulation of focal adhesion dynamics of <scp>MDA</scp>â€<scp>MB</scp>â€231 breast cancer cells. Cancer Science, 2017, 108, 941-951. The geometrical shape of mesenchymal stromal cells measured by quantitative shape descriptors is determined by the stiffness of the biomaterial and by cyclic tensile forces. Journal of Tissue 90 1.338 Engineering and Regenerative Medicine, 2017, 11, 3508-3522. Loss of the Arp2/3 complex component ARPC1B causes platelet abnormalities and predisposes to 5.8 176 inflammatory disease. Nature Communications, 2017, 8, 14816.

		CITATION RE	EPORT	
#	Article		IF	CITATIONS
92	FMNL formins boost lamellipodial force generation. Nature Communications, 2017, 8,	14832.	5.8	112
93	Efficiency of lamellipodia protrusion is determined by the extent of cytosolic actin asse Molecular Biology of the Cell, 2017, 28, 1311-1325.	embly.	0.9	41
94	Altering the threshold of an excitable signal transduction network changes cell migrate Nature Cell Biology, 2017, 19, 329-340.	ory modes.	4.6	121
95	Basolateral protrusion and apical contraction cooperatively drive Drosophila germ-ban Nature Cell Biology, 2017, 19, 375-383.	d extension.	4.6	121
96	Building branched tissue structures: from single cell guidance to coordinated construc Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 201	tion. 50527.	1.8	30
97	MRL proteins cooperate with activated Ras in glia to drive distinct oncogenic outcome 2017, 36, 4311-4322.	s. Oncogene,	2.6	7
98	Nano-scale actin-network characterization of fibroblast cells lacking functional Arp2/3 Journal of Structural Biology, 2017, 197, 312-321.	complex.	1.3	21
99	Copper chaperone Atox1 plays role in breast cancer cell migration. Biochemical and Bio Research Communications, 2017, 483, 301-304.	ophysical	1.0	46
100	The Actin Cytoskeleton. Handbook of Experimental Pharmacology, 2017, , .		0.9	2
101	A bioenergetic mechanism for amoeboid-like cell motility profiles tested in a microfluid assay. Integrative Biology (United Kingdom), 2017, 9, 844-856.	ic electrotaxis	0.6	3
102	Catenins Steer Cell Migration via Stabilization of Front-Rear Polarity. Developmental C 463-479.e5.	ell, 2017, 43,	3.1	31
103	Network heterogeneity regulates steering in actin-based motility. Nature Communicat	ions, 2017, 8, 655.	5.8	30
104	Differential functions of WAVE regulatory complex subunits in the regulation of actin- processes. European Journal of Cell Biology, 2017, 96, 715-727.	driven	1.6	28
105	Actin assembly mechanisms at a glance. Journal of Cell Science, 2017, 130, 3427-3435	5.	1.2	229
106	FGD5 Regulates VEGF Receptor-2 Coupling to PI3 Kinase and Receptor Recycling. Arte Thrombosis, and Vascular Biology, 2017, 37, 2301-2310.	riosclerosis,	1.1	16
107	Fibroblasts derived from patients with opsismodysplasia display SHIP2-specific cell mig adhesion defects. Human Mutation, 2017, 38, 1731-1739.	ration and	1.1	10
108	Sex-specific eNOS activity and function in human endothelial cells. Scientific Reports, 2	2017, 7, 9612.	1.6	67
109	Downregulation of Talin1 promotes hepatocellular carcinoma progression through act ERK1/2 pathway. Cancer Science, 2017, 108, 1157-1168.	ivation of the	1.7	28

#	Article	IF	CITATIONS
110	Actomyosin contractility and collective migration: may the force be with you. Current Opinion in Cell Biology, 2017, 48, 87-96.	2.6	86
111	Brain specific Lamellipodin knockout results in hyperactivity and increased anxiety of mice. Scientific Reports, 2017, 7, 5365.	1.6	3
112	Engineering the geometrical shape of mesenchymal stromal cells through defined cyclic stretch regimens. Scientific Reports, 2017, 7, 6640.	1.6	28
113	The Sharpin interactome reveals a role for Sharpin in lamellipodium formation via the Arp2/3 complex. Journal of Cell Science, 2017, 130, 3094-3107.	1.2	15
114	FAM83G/PAWS1 controls cytoskeletal dynamics and cell migration through association with the SH3 adaptor CD2AP. Journal of Cell Science, 2018, 131, .	1.2	26
115	Gradients of Rac1 Nanoclusters Support Spatial Patterns of Rac1 Signaling. Cell Reports, 2017, 21, 1922-1935.	2.9	74
116	Analysis of a Nonlocal and Nonlinear FokkerPlanck Model for Cell Crawling Migration. SIAM Journal on Applied Mathematics, 2017, 77, 2040-2065.	0.8	4
117	Circadian actin dynamics drive rhythmic fibroblast mobilization during wound healing. Science Translational Medicine, 2017, 9, .	5.8	147
118	NCAM affects directional lamellipodia formation of BMSCs via \hat{l}^21 integrin signal-mediated cofilin activity. Molecular and Cellular Biochemistry, 2017, 435, 175-183.	1.4	6
119	Phosphorylation of CYFIP2, a component of the WAVE-regulatory complex, regulates dendritic spine density and neurite outgrowth in cultured hippocampal neurons potentially by affecting the complex assembly. NeuroReport, 2017, 28, 749-754.	0.6	20
120	Rear-polarized Wnt5a-receptor-actin-myosin-polarity (WRAMP) structures promote the speed and persistence of directional cell migration. Molecular Biology of the Cell, 2017, 28, 1924-1936.	0.9	15
121	Cyclic Stretch Effects on Adipose-Derived Stem Cell Stiffness, Morphology and Smooth Muscle Cell Gene Expression. Tissue Engineering and Regenerative Medicine, 2017, 14, 279-286.	1.6	11
122	Distinct VASP tetramers synergize in the processive elongation of individual actin filaments from clustered arrays. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E5815-E5824.	3.3	60
123	Mechanics of Cell Mechanosensing in Protrusion and Retraction of Lamellipodium. ACS Biomaterials Science and Engineering, 2017, 3, 2943-2953.	2.6	10
124	The Diverse Family of Arp2/3 Complexes. Trends in Cell Biology, 2017, 27, 93-100.	3.6	94
125	Polarized actin and VE-cadherin dynamics regulate junctional remodelling and cell migration during sprouting angiogenesis. Nature Communications, 2017, 8, 2210.	5.8	129
126	Filopodyan: An open-source pipeline for the analysis of filopodia. Journal of Cell Biology, 2017, 216, 3405-3422.	2.3	46
127	Clinicopathological and prognostic significance of aberrant Arpin expression in gastric cancer. World Journal of Gastroenterology, 2017, 23, 1450.	1.4	7

#	Article	lF	Citations
128	Nonmuscle myosin IIA and IIB differentially contribute to intrinsic and directed migration of human embryonic lung fibroblasts. Biochemical and Biophysical Research Communications, 2018, 498, 25-31.	1.0	7
129	VASP regulates leukocyte infiltration, polarization, and vascular repair after ischemia. Journal of Cell Biology, 2018, 217, 1503-1519.	2.3	31
130	New insights into the formation and the function of lamellipodia and ruffles in mesenchymal cell migration. Cell Adhesion and Migration, 2018, 12, 1-16.	1.1	76
131	Rap1 Negatively Regulates the Hippo Pathway to Polarize Directional Protrusions in Collective Cell Migration. Cell Reports, 2018, 22, 2160-2175.	2.9	28
132	The cytoskeleton regulates symmetry transitions in moving amoeboid cells. Journal of Cell Science, 2018, 131, .	1.2	7
133	Local actin polymerization during endocytic carrier formation. Biochemical Society Transactions, 2018, 46, 565-576.	1.6	55
134	Exploratory cell dynamics: a sense of touch for cells?. Biological Chemistry, 2018, 399, 809-819.	1.2	13
135	Spindly is required for rapid migration of human cells. Biology Open, 2018, 7, .	0.6	11
136	Discovery of functional interactions among actin regulators by analysis of image fluctuations in an unperturbed motile cell system. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170110.	1.8	13
137	A Rho-GTPase based model explains spontaneous collective migration of neural crest cell clusters. Developmental Biology, 2018, 444, S262-S273.	0.9	23
138	Anterior Pituitary Transcriptome Suggests Differences in ACTH Release in Tame and Aggressive Foxes. G3: Genes, Genomes, Genetics, 2018, 8, 859-873.	0.8	26
139	Molecular mechanism for inhibition of twinfilin by phosphoinositides. Journal of Biological Chemistry, 2018, 293, 4818-4829.	1.6	15
140	Stem cell-derived neurons from autistic individuals with SHANK3 mutation show morphogenetic abnormalities during early development. Molecular Psychiatry, 2018, 23, 735-746.	4.1	102
141	A Golgi Lipid Signaling Pathway Controls Apical Golgi Distribution and Cell Polarity during Neurogenesis. Developmental Cell, 2018, 44, 725-740.e4.	3.1	57
142	Nanobodies targeting cortactin proline rich, helical and actin binding regions downregulate invadopodium formation and matrix degradation in SCC-61 cancer cells. Biomedicine and Pharmacotherapy, 2018, 102, 230-241.	2.5	12
143	Random Migration Assays of Mammalian Cells and Quantitative Analyses of Single Cell Trajectories. Methods in Molecular Biology, 2018, 1749, 1-9.	0.4	10
144	Imaging the Molecular Machines That Power Cell Migration. Methods in Molecular Biology, 2018, 1749, 257-277.	0.4	6
145	Cell Migration in Microfabricated 3D Collagen Microtracks is Mediated Through the Prometastatic Protein Girdin. Cellular and Molecular Bioengineering, 2018, 11, 1-10.	1.0	11

#	Article	IF	CITATIONS
146	Models of convergent extension during morphogenesis. Wiley Interdisciplinary Reviews: Developmental Biology, 2018, 7, e293.	5.9	75
147	Lipid rafts regulate the lamellipodia formation of melanoma A375 cells via actin cytoskeleton‑mediated recruitment of β1 and β3 integrin. Oncology Letters, 2018, 16, 6540-6546.	0.8	11
148	Does self-organized criticality drive leading edge protrusion?. Biophysical Reviews, 2018, 10, 1571-1575.	1.5	0
149	Enteropathogenic E. coli relies on collaboration between the formin mDia1 and the Arp2/3 complex for actin pedestal biogenesis and maintenance. PLoS Pathogens, 2018, 14, e1007485.	2.1	18
150	Neuronal Migration During Development of the Cerebellum. Frontiers in Cellular Neuroscience, 2018, 12, 484.	1.8	77
151	ARP3 Controls the Podocyte Architecture at the Kidney Filtration Barrier. Developmental Cell, 2018, 47, 741-757.e8.	3.1	33
152	CASP4 gene silencing in epithelial cancer cells leads to impairment of cell migration, cell-matrix adhesion and tissue invasion. Scientific Reports, 2018, 8, 17705.	1.6	37
153	T-cell defects in patients with ARPC1B germline mutations account for combined immunodeficiency. Blood, 2018, 132, 2362-2374.	0.6	99
154	Fam49/CYRI interacts with Rac1 and locally suppresses protrusions. Nature Cell Biology, 2018, 20, 1159-1171.	4.6	64
155	Profiling cellular morphodynamics by spatiotemporal spectrum decomposition. PLoS Computational Biology, 2018, 14, e1006321.	1.5	34
156	Sphingolipids Signaling in Lamellipodia Formation and Enhancement of Endothelial Barrier Function. Current Topics in Membranes, 2018, 82, 1-31.	0.5	12
157	Simulation of melanoblast displacements reveals new features of developmental migration. Development (Cambridge), 2018, 145, .	1.2	8
158	On the relation between filament density, force generation, and protrusion rate in mesenchymal cell motility. Molecular Biology of the Cell, 2018, 29, 2674-2686.	0.9	24
159	The Biophysics of 3D Cell Migration. Annual Review of Biophysics, 2018, 47, 549-567.	4.5	35
160	GMF as an Actin Network Remodeling Factor. Trends in Cell Biology, 2018, 28, 749-760.	3.6	28
161	A disassembly-driven mechanism explains F-actin-mediated chromosome transport in starfish oocytes. ELife, 2018, 7, .	2.8	26
162	Alpha protocadherins and Pyk2 kinase regulate cortical neuron migration and cytoskeletal dynamics via Rac1 GTPase and WAVE complex in mice. ELife, 2018, 7, .	2.8	44
163	Membrane Flow Drives an Adhesion-Independent Amoeboid Cell Migration Mode. Developmental Cell, 2018, 46, 9-22.e4.	3.1	115

		CITATION REPORT		
#	Article	I	IF	CITATIONS
164	Correlated random walks of human embryonic stem cells in vitro. Physical Biology, 2018, 15, 05	6006.	0.8	10
165	The Arp2/3 Regulatory System and Its Deregulation in Cancer. Physiological Reviews, 2018, 98,	215-238.	13.1	147
166	Non-canonical Wnt signals regulate cytoskeletal remodeling in osteoclasts. Cellular and Molecu Life Sciences, 2018, 75, 3683-3692.	ılar	2.4	28
167	The Dynamic Actin Cytoskeleton in Smooth Muscle. Advances in Pharmacology, 2018, 81, 1-38		1.2	60
168	Crawling migration under chemical signalling: A stochastic model. Mathematical Methods in the Applied Sciences, 2018, 41, 8799-8815.	2	1.2	0
169	Actin-Based Cell Protrusion in a 3D Matrix. Trends in Cell Biology, 2018, 28, 823-834.	i	3.6	128
170	Shaping the Cell and the Future: Recent Advancements in Biophysical Aspects Relevant to Rege Medicine. Journal of Functional Morphology and Kinesiology, 2018, 3, 2.	nerative	1.1	27
171	Inhibition of SHIP2 activity inhibits cell migration and could prevent metastasis in breast cancer Journal of Cell Science, 2018, 131, .	cells.	1.2	25
172	Inter-subunit interactions drive divergent dynamics in mammalian and Plasmodium actin filame PLoS Biology, 2018, 16, e2005345.	nts.	2.6	41
173	Cell Migration. Methods in Molecular Biology, 2018, , .		0.4	5
174	Adjustable viscoelasticity allows for efficient collective cell migration. Seminars in Cell and Developmental Biology, 2019, 93, 55-68.	:	2.3	87
175	IRX5 promotes colorectal cancer metastasis by negatively regulating the core components of th RHOA pathway. Molecular Carcinogenesis, 2019, 58, 2065-2076.	ne :	1.3	20
176	CYRI/ Fam49 Proteins Represent a New Class of Rac1 Interactors. Communicative and Integrativ Biology, 2019, 12, 112-118.	Je	0.6	8
177	Targeting non-muscle myosin II promotes corneal endothelial migration through regulating lamellipodial dynamics. Journal of Molecular Medicine, 2019, 97, 1345-1357.		1.7	6
178	CYRI/FAM49B negatively regulates RAC1-driven cytoskeletal remodelling and protects against b infection. Nature Microbiology, 2019, 4, 1516-1531.	acterial	5.9	37
179	Profilin 1 Negatively Regulates Osteoclast Migration in Postnatal Skeletal Growth, Remodeling, Homeostasis in Mice. JBMR Plus, 2019, 3, e10130.	and	1.3	10
180	EPLIN-α and -β Isoforms Modulate Endothelial Cell Dynamics through a Spatiotemporally Differ Interaction with Actin. Cell Reports, 2019, 29, 1010-1026.e6.	entiated	2.9	33
181	Cell confinement reveals a branched-actin independent circuit for neutrophil polarity. PLoS Biolo 2019, 17, e3000457.	ogy,	2.6	54

#	Article	IF	CITATIONS
182	Persistent and polarized global actin flow is essential for directionality during cell migration. Nature Cell Biology, 2019, 21, 1370-1381.	4.6	57
183	Pimozide suppresses cancer cell migration and tumor metastasis through binding to ARPC2, a subunit of the Arp2/3 complex. Cancer Science, 2019, 110, 3788-3801.	1.7	34
184	Transient Activations of Rac1 at the Lamellipodium Tip Trigger Membrane Protrusion. Current Biology, 2019, 29, 2852-2866.e5.	1.8	38
185	GPR124 facilitates pericyte polarization and migration by regulating the formation of filopodia during ischemic injury. Theranostics, 2019, 9, 5937-5955.	4.6	16
186	Diversity and evolution of actin-dependent phenotypes. Current Opinion in Genetics and Development, 2019, 58-59, 40-48.	1.5	27
187	Mechanisms of 3D cell migration. Nature Reviews Molecular Cell Biology, 2019, 20, 738-752.	16.1	539
188	La-Related Protein 4 as a Suppressor for Motility of Ovarian Cancer Cells. Tohoku Journal of Experimental Medicine, 2019, 247, 59-67.	0.5	14
189	Ganoderma lucidum Extract Reduces the Motility of Breast Cancer Cells Mediated by the RAC–Lamellipodin Axis. Nutrients, 2019, 11, 1116.	1.7	23
190	RPEL-family rhoGAPs link Rac/Cdc42 GTP loading to G-actin availability. Nature Cell Biology, 2019, 21, 845-855.	4.6	24
191	CNBP controls tumor cell biology by regulating tumorâ€promoting gene expression. Molecular Carcinogenesis, 2019, 58, 1492-1501.	1.3	13
192	MT1-MMP-dependent cell migration: proteolytic and non-proteolytic mechanisms. Biochemical Society Transactions, 2019, 47, 811-826.	1.6	70
193	Cellular and pathophysiological consequences of Arp2/3 complex inhibition: role of inhibitory proteins and pharmacological compounds. Cellular and Molecular Life Sciences, 2019, 76, 3349-3361.	2.4	25
194	Nephrin Signaling Results in Integrin \hat{l}^21 Activation. Journal of the American Society of Nephrology: JASN, 2019, 30, 1006-1019.	3.0	24
195	The Cytoskeleton—A Complex Interacting Meshwork. Cells, 2019, 8, 362.	1.8	209
196	Mechanochemical self-organization determines search pattern in migratory cells. Nature Physics, 2019, 15, 848-857.	6.5	46
197	Regulators of cell movement during development and regeneration in Drosophila. Open Biology, 2019, 9, 180245.	1.5	11
198	Promotive effects of capillary morphogenetic protein 2 on glioma cell invasion and the molecular mechanism. Folia Neuropathologica, 2019, 57, 6-15.	0.5	2
199	Quantitative Determination of Cellular-and Neurite Motility Speed in Dense Cell Cultures. Frontiers in Neuroinformatics, 2019, 13, 15.	1.3	4

#	Article	IF	CITATIONS
200	Modulating cancer cell mechanics and actin cytoskeleton structure by chemical and mechanical stimulations. Journal of Biomedical Materials Research - Part A, 2019, 107, 1569-1581.	2.1	25
201	The VASP–profilin1 (Pfn1) interaction is critical for efficient cell migration and is regulated by cell–substrate adhesion in a PKA-dependent manner. Journal of Biological Chemistry, 2019, 294, 6972-6985.	1.6	15
202	Phosphorylation of GMFÎ ³ by c-Abl Coordinates Lamellipodial and Focal Adhesion Dynamics to Regulate Airway Smooth Muscle Cell Migration. American Journal of Respiratory Cell and Molecular Biology, 2019, 61, 219-231.	1.4	15
203	Wave patterns organize cellular protrusions and control cortical dynamics. Molecular Systems Biology, 2019, 15, e8585.	3.2	70
204	Cortical branched actin determines cell cycle progression. Cell Research, 2019, 29, 432-445.	5.7	64
205	Regulation of global CD8 ⁺ Tâ€cell positioning by the actomyosin cytoskeleton. Immunological Reviews, 2019, 289, 232-249.	2.8	4
206	Physical constraints on accuracy and persistence during breast cancer cell chemotaxis. PLoS Computational Biology, 2019, 15, e1006961.	1.5	16
207	Physical Plasma Membrane Perturbation Using Subcellular Optogenetics Drives Integrin-Activated Cell Migration. ACS Synthetic Biology, 2019, 8, 498-510.	1.9	15
208	The <i>Drosophila</i> protein, Nausicaa, regulates lamellipodial actin dynamics in a Cortactin-dependent manner. Biology Open, 2019, 8, .	0.6	6
209	Platelet lamellipodium formation is not required for thrombus formation and stability. Blood, 2019, 134, 2318-2329.	0.6	35
210	Two distinct actin waves correlated with turns-and-runs of crawling microglia. PLoS ONE, 2019, 14, e0220810.	1.1	7
211	Plasma membrane localization of MLC1 regulates cellular morphology and motility. Molecular Brain, 2019, 12, 116.	1.3	17
212	Putting VE-cadherin into JAIL for junction remodeling. Journal of Cell Science, 2019, 132, .	1.2	39
213	TAFA2 Induces Skeletal (Stromal) Stem Cell Migration Through Activation of Rac1-p38 Signaling. Stem Cells, 2019, 37, 407-416.	1.4	18
214	Age-dependent migratory behavior of human endothelial cells revealed by substrate microtopography. Experimental Cell Research, 2019, 374, 1-11.	1.2	8
215	Assembling actin filaments for protrusion. Current Opinion in Cell Biology, 2019, 56, 53-63.	2.6	80
216	The role of Exo70 in exocytosis and beyond. Small GTPases, 2019, 10, 331-335.	0.7	19
217	Voltageâ€dependent activation of Rac1 by Na _v 1.5 channels promotes cell migration. Journal of Cellular Physiology, 2020, 235, 3950-3972.	2.0	50

#	Article	IF	CITATIONS
218	Measuring the affinity of protein-protein interactions on a single-molecule level by mass photometry. Analytical Biochemistry, 2020, 592, 113575.	1.1	41
219	Vasodilatorâ€stimulated phosphoprotein (VASP) is recruited into dendritic spines via Gâ€actinâ€dependent mechanism and contributes to spine enlargement and stabilization. European Journal of Neuroscience, 2020, 51, 806-821.	1.2	3
220	Indispensable role of STIL in the regulation of cancer cell motility through the lamellipodial accumulation of ARHGEF7–PAK1 complex. Oncogene, 2020, 39, 1931-1943.	2.6	13
221	The elastic properties and deformation mechanisms of actin filament networks crosslinked by filamins. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 112, 104075.	1.5	10
222	Force generation by a propagating wave of supramolecular nanofibers. Nature Communications, 2020, 11, 3541.	5.8	24
223	Actin remodelling of the endothelium during transendothelial migration of leukocytes. Atherosclerosis, 2020, 315, 102-110.	0.4	22
224	Principles of Leukocyte Migration Strategies. Trends in Cell Biology, 2020, 30, 818-832.	3.6	64
225	Letting Go to Move On: Membrane Detachment Initiates Protrusion. Developmental Cell, 2020, 55, 671-672.	3.1	1
226	Vascular surveillance by haptotactic blood platelets in inflammation and infection. Nature Communications, 2020, 11, 5778.	5.8	48
227	Protocadherins at the Crossroad of Signaling Pathways. Frontiers in Molecular Neuroscience, 2020, 13, 117.	1.4	76
228	WAVE1 and WAVE2 have distinct and overlapping roles in controlling actin assembly at the leading edge. Molecular Biology of the Cell, 2020, 31, 2168-2178.	0.9	23
229	Cell–substrate adhesion drives Scar/WAVE activation and phosphorylation by a Ste20-family kinase, which controls pseudopod lifetime. PLoS Biology, 2020, 18, e3000774.	2.6	22
230	T-Plastin reinforces membrane protrusions to bridge matrix gaps during cell migration. Nature Communications, 2020, 11, 4818.	5.8	23
231	Biomimetic peptide self-assembly for functional materials. Nature Reviews Chemistry, 2020, 4, 615-634.	13.8	411
232	Heparan Sulfate Proteoglycans Can Promote Opposite Effects on Adhesion and Directional Migration of Different Cancer Cells. Journal of Medicinal Chemistry, 2020, 63, 15997-16011.	2.9	7
233	The first quarter of the C-terminal domain of Abelson regulates the WAVE regulatory complex and Enabled in axon guidance. Neural Development, 2020, 15, 7.	1.1	8
234	Involvement of SASH1 in the Maintenance of Stable Cell–Cell Adhesion. Biochemistry (Moscow), 2020, 85, 660-667.	0.7	4
235	What makes leader cells arise: Intrinsic properties and support from neighboring cells. Journal of Cellular Physiology, 2020, 235, 8983-8995.	2.0	13

~		_
C	ITAT	Report
\sim	IIAI	REFORT

#	Article	IF	CITATIONS
236	Rat corneal endothelial cell migration during wound repair on the basement membrane depends more on the PI-3K pathway than the cdc-42 pathway or actin stress fibers. Cell and Tissue Research, 2020, 382, 351-366.	1.5	3
237	Biointerface anisotropy modulates migration of breast cancer cell. Colloids and Surfaces B: Biointerfaces, 2020, 190, 110973.	2.5	9
238	Of Cell Shapes and Motion: The Physical Basis of Animal Cell Migration. Developmental Cell, 2020, 52, 550-562.	3.1	95
239	WHIMP links the actin nucleation machinery to Src-family kinase signaling during protrusion and motility. PLoS Genetics, 2020, 16, e1008694.	1.5	9
240	Cell Mechanics Drives Migration Modes. Biophysical Reviews and Letters, 2020, 15, 1-34.	0.9	2
241	Upregulation of cyclase-associated actin cytoskeleton regulatory protein 2 in epithelial ovarian cancer correlates with aggressive histologic types and worse outcomes. Japanese Journal of Clinical Oncology, 2020, 50, 643-652.	0.6	5
242	Lamellipodin tunes cell migration by stabilizing protrusions and promoting adhesion formation. Journal of Cell Science, 2020, 133, .	1.2	28
243	WDR63 inhibits Arp2/3â€dependent actin polymerization and mediates the function of p53 in suppressing metastasis. EMBO Reports, 2020, 21, e49269.	2.0	16
244	The WAVE Regulatory Complex Is Required to Balance Protrusion and Adhesion in Migration. Cells, 2020, 9, 1635.	1.8	17
245	Long-Range and Directional Allostery of Actin Filaments Plays Important Roles in Various Cellular Activities. International Journal of Molecular Sciences, 2020, 21, 3209.	1.8	18
246	Neutrophil migration defects. , 2020, , 813-827.		1
247	Nanofiber Alignment Mediates the Pattern of Single Cell Migration. Langmuir, 2020, 36, 2129-2135.	1.6	10
248	Polyplexes Are Endocytosed by and Trafficked within Filopodia. Biomacromolecules, 2020, 21, 1379-1392.	2.6	13
249	Extracellular nanofiber-orchestrated cytoskeletal reorganization and mediated directional migration of cancer cells. Nanoscale, 2020, 12, 3183-3193.	2.8	18
250	VE-cadherin fusion protein substrate enhanced the vasculogenic mimicry capability of hepatocellular carcinoma cells. Journal of Materials Chemistry B, 2020, 8, 1699-1712.	2.9	14
251	Myoblast Migration and Directional Persistence Affected by Syndecan-4-Mediated Tiam-1 Expression and Distribution. International Journal of Molecular Sciences, 2020, 21, 823.	1.8	29
252	Live-cell lipid biochemistry reveals a role of diacylglycerol side-chain composition for cellular lipid dynamics and protein affinities. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 7729-7738.	3.3	45
253	Filopodia play an important role in the trans-mesothelial migration of ovarian cancer cells. Experimental Cell Research, 2020, 392, 112011.	1.2	16

#	Article	IF	CITATIONS
254	RAC1-Dependent ORAI1 Translocation to the Leading Edge Supports Lamellipodia Formation and Directional Persistence. Scientific Reports, 2020, 10, 6580.	1.6	25
255	Effects of green light photobiomodulation on Dental Pulp Stem Cells: enhanced proliferation and improved wound healing by cytoskeleton reorganization and cell softening. Lasers in Medical Science, 2021, 36, 437-445.	1.0	7
256	Aberrant Rac pathway signalling in glioblastoma. Small GTPases, 2021, 12, 81-95.	0.7	1
257	Durotaxis: The Hard Path from InÂVitro to InÂVivo. Developmental Cell, 2021, 56, 227-239.	3.1	63
258	Neural tissue engineering: the influence of scaffold surface topography and extracellular matrix microenvironment. Journal of Materials Chemistry B, 2021, 9, 567-584.	2.9	74
259	Recessive Mutations in SYNPO2 as a Candidate of Monogenic Nephrotic Syndrome. Kidney International Reports, 2021, 6, 472-483.	0.4	7
260	Structural Basis of CYRI-B Direct Competition with Scar/WAVE Complex for Rac1. Structure, 2021, 29, 226-237.e4.	1.6	15
261	Fine-tuning viscoelasticity: the key to collectively move in vivo. , 2021, , 79-109.		0
262	Local Myo9b RhoGAP activity regulates cell motility. Journal of Biological Chemistry, 2021, 296, 100136.	1.6	7
263	Arhgef6 (alpha-PIX) cytoskeletal regulator signals to GTPases and Cofilin to couple T cell migration speed and persistence. Journal of Leukocyte Biology, 2021, 110, 839-852.	1.5	3
264	Filopodia-based contact stimulation of cell migration drives tissue morphogenesis. Nature Communications, 2021, 12, 791.	5.8	28
265	Platelet Shape Changes during Thrombus Formation: Role of Actin-Based Protrusions. Hamostaseologie, 2021, 41, 014-021.	0.9	26
266	Monitoring Phosphoinositide Fluxes and Effectors During Leukocyte Chemotaxis and Phagocytosis. Frontiers in Cell and Developmental Biology, 2021, 9, 626136.	1.8	5
267	Phenotypic Plasticity of Cancer Cells Based on Remodeling of the Actin Cytoskeleton and Adhesive Structures. International Journal of Molecular Sciences, 2021, 22, 1821.	1.8	22
268	Induced Arp2/3 Complex Depletion Increases FMNL2/3 Formin Expression and Filopodia Formation. Frontiers in Cell and Developmental Biology, 2021, 9, 634708.	1.8	32
269	α-Linolenic acid induces clearance of Tau seeds via Actin-remodeling in Microglia. Molecular Biomedicine, 2021, 2, 4.	1.7	17
271	Aligned Networks of Engineered Fibrillar Fibronectin Guide Cellular Orientation and Motility. Small Structures, 2021, 2, 2000137.	6.9	6
272	3D mesenchymal cell migration is driven by anterior cellular contraction that generates an extracellular matrix prestrain. Developmental Cell, 2021, 56, 826-841.e4.	3.1	59

		CITATION REPORT		
#	Article		IF	CITATIONS
273	Involvement of actin cytoskeletal modifications in the inhibition of triple-negative breas growth and metastasis by nimbolide. Molecular Therapy - Oncolytics, 2021, 20, 596-60	t cancer 5.	2.0	10
276	A Fully Integrated Arduino-Based System for the Application of Stretching Stimuli to Liv Their Time-Lapse Observation: A Do-It-Yourself Biology Approach. Annals of Biomedical I 2021, 49, 2243-2259.	ng Cells and Engineering,	1.3	1
277	Arpin Regulates Migration Persistence by Interacting with Both Tankyrases and the Arp. International Journal of Molecular Sciences, 2021, 22, 4115.	2/3 Complex.	1.8	10
278	From Proteomic Mapping to Invasion-Metastasis-Cascade Systemic Biomarkering and T of Mutant BRAF-Dependent Human Cutaneous Melanomagenesis. Cancers, 2021, 13, 2	argeted Drugging 024.	1.7	5
279	AQP3 Increases Intercellular Cohesion in NSCLC A549 Cell Spheroids through Explorato Protrusions. International Journal of Molecular Sciences, 2021, 22, 4287.	ry Cell	1.8	3
281	<i>Drosophila</i> USP22/nonstop polarizes the actin cytoskeleton during collective bo migration. Journal of Cell Biology, 2021, 220, .	rder cell	2.3	6
282	Leukaemia: a model metastatic disease. Nature Reviews Cancer, 2021, 21, 461-475.		12.8	68
283	The principles of directed cell migration. Nature Reviews Molecular Cell Biology, 2021, 2	22, 529-547.	16.1	252
286	Mechanosensitive expression of lamellipodin promotes intracellular stiffness, cyclin exp cell proliferation. Journal of Cell Science, 2021, 134, .	ression and	1.2	11
288	Lipid raft integrity is required for human leukemia Jurkat T-cell migratory activity. Biochi Biophysica Acta - Molecular and Cell Biology of Lipids, 2021, 1866, 158917.	mica Et	1.2	8
289	Syndecan-4 in Tumor Cell Motility. Cancers, 2021, 13, 3322.		1.7	21
290	The dipeptide prolyl-hydroxyproline promotes cellular homeostasis and lamellipodia-driv via active l²1-integrin in adult tendon cells. Journal of Biological Chemistry, 2021, 297, 2	en motility 100819.	1.6	14
291	Linoleic and oleic acids enhance cell migration by altering the dynamics of microtubules remodeling of the actin cytoskeleton at the leading edge. Scientific Reports, 2021, 11,	and the 14984.	1.6	7
292	The interplay between matrix deformation and the coordination of turning events gover neutrophil migration in 3D matrices. Science Advances, 2021, 7, .	rns directed	4.7	10
294	Born to Run? Diverse Modes of Epithelial Migration. Frontiers in Cell and Developmenta 2021, 9, 704939.	l Biology,	1.8	15
295	Potential Roles of Iridoid Glycosides and Their Underlying Mechanisms against Diverse C Growth and Metastasis: Do They Have an Inhibitory Effect on Cancer Progression?. Nutr 2974.	Cancer ients, 2021, 13,	1.7	25
296	Directional Persistence of Cell Migration in Schizophrenia Patient-Derived Olfactory Cel International Journal of Molecular Sciences, 2021, 22, 9177.	s.	1.8	5
297	Ultracentrifugal separation, characterization, and functional study of extracellular vesic from serum-free cell culture. STAR Protocols, 2021, 2, 100625.	es derived	0.5	6

#	Article	IF	CITATIONS
298	Collective cell migration driven by filopodia—New insights from the social behavior of myotubes. BioEssays, 2021, 43, e2100124.	1.2	8
299	Nance-Horan Syndrome-like 1 protein negatively regulates Scar/WAVE-Arp2/3 activity and inhibits lamellipodia stability and cell migration. Nature Communications, 2021, 12, 5687.	5.8	17
301	Actin filament debranching regulates cell polarity during cell migration and asymmetric cell division. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	18
302	Juxtanuclear Drebrin-Enriched Zone. Advances in Experimental Medicine and Biology, 2017, 1006, 329-336.	0.8	2
303	Combinatorial nanodot stripe assay to systematically study cell haptotaxis. Microsystems and Nanoengineering, 2020, 6, 114.	3.4	5
304	Actin polymerization downstream of integrins: signaling pathways and mechanotransduction. Biochemical Journal, 2020, 477, 1-21.	1.7	73
305	Conformationally active integrin endocytosis and traffic: why, where, when and how?. Biochemical Society Transactions, 2020, 48, 83-93.	1.6	30
306	Sending messages in moving cells: mRNA localization and the regulation of cell migration. Essays in Biochemistry, 2019, 63, 595-606.	2.1	16
307	Actin dynamics in cell migration. Essays in Biochemistry, 2019, 63, 483-495.	2.1	199
308	Adhesion stimulates Scar/WAVE phosphorylation in mammalian cells. Communicative and Integrative Biology, 2021, 14, 1-4.	0.6	6
309	p53 deficiency triggers dysregulation of diverse cellular processes in physiological oxygen. Journal of Cell Biology, 2020, 219, .	2.3	26
310	Adherens junction regulates cryptic lamellipodia formation for epithelial cell migration. Journal of Cell Biology, 2020, 219, .	2.3	45
320	Cryo-EM of human Arp2/3 complexes provides structural insights into actin nucleation modulation by ARPC5 isoforms. Biology Open, 2020, 9, .	0.6	19
321	Ras GAP-related and C-terminal domain-dependent localization and tumorigenic activities of IQGAP1 in melanoma cells. PLoS ONE, 2017, 12, e0189589.	1.1	8
322	Tropomyosin isoform Tpm2.1 regulates collective and amoeboid cell migration and cell aggregation in breast epithelial cells. Oncotarget, 2017, 8, 95192-95205.	0.8	20
323	MicroRNA-1253 Regulation of WASF2 (WAVE2) and its Relevance to Racial Health Disparities. Genes, 2020, 11, 572.	1.0	3
324	Neuronal function and dysfunction of CYFIP2: from actin dynamics to early infantile epileptic encephalopathy. BMB Reports, 2019, 52, 304-311.	1.1	26
325	Quantitative regulation of the dynamic steady state of actin networks. ELife, 2019, 8, .	2.8	16

#	Article	IF	CITATIONS
327	Ultrastructural Aspects of Rat Renal Tubular Epithelium <i>in Vitro</i> : Scanning Electron Microscopy ï¼^SEM) Analyses at Various Stages of Culture. The Showa University Journal of Medical Sciences, 2017, 29, 307-314.	0.1	0
337	Transition from normal to cancerous cell by precancerous niche (PCN) induced chronic cell-matrix stress. 40pen, 2019, 2, 14.	0.1	5
347	Hesperetin alleviates doxorubicin-induced migration in 4T1 breast cancer cells. Future Journal of Pharmaceutical Sciences, 2020, 6, .	1.1	3
352	Forces generated by lamellipodial actin filament elongation regulate the WAVE complex during cell migration. Nature Cell Biology, 2021, 23, 1148-1162.	4.6	30
355	Investigation of Biophysical Migration Parameters for Normal Tissue and Metastatic Cancer Cells After Radiotherapy Treatment. Frontiers in Physics, 2020, 8, .	1.0	2
358	The Arf-GEF Steppke promotes F-actin accumulation, cell protrusions and tissue sealing during Drosophila dorsal closure. PLoS ONE, 2020, 15, e0239357.	1.1	3
359	Molecular Tuning of Actin Dynamics in Leukocyte Migration as Revealed by Immune-Related Actinopathies. Frontiers in Immunology, 2021, 12, 750537.	2.2	11
360	Methods for assessment of membrane protrusion dynamics. Current Topics in Membranes, 2021, 88, 205-234.	0.5	3
361	Regulation of cell attachment, spreading, and migration by hydrogel substrates with independently tunable mesh size. Acta Biomaterialia, 2022, 141, 178-189.	4.1	14
362	Phosphoinositide Conversion Inactivates Râ€RAS and Drives Metastases in Breast Cancer. Advanced Science, 2022, 9, e2103249.	5.6	8
363	WASp triggers mechanosensitive actin patches to facilitate immune cell migration in dense tissues. Developmental Cell, 2022, 57, 47-62.e9.	3.1	47
364	A computational modeling of invadopodia protrusion into an extracellular matrix fiber network. Scientific Reports, 2022, 12, 1231.	1.6	7
365	Molecular mechanism of Arp2/3 complex inhibition by Arpin. Nature Communications, 2022, 13, 628.	5.8	14
366	Transforming growth factor-β challenge alters the N-, O-, andÂglycosphingolipid glycomes in PaTu-S pancreatic adenocarcinoma cells. Journal of Biological Chemistry, 2022, 298, 101717.	1.6	4
367	Viscoelasticity, Like Forces, Plays a Role in Mechanotransduction. Frontiers in Cell and Developmental Biology, 2022, 10, 789841.	1.8	16
368	Orientation of Cell Polarity by Chemical Gradients. Annual Review of Biophysics, 2022, 51, 431-451.	4.5	16
369	Non-canonical Wnt signaling promotes directed migration of intestinal stem cells to sites of injury. Nature Communications, 2021, 12, 7150.	5.8	25
370	Image-based Quantification of Macropinocytosis Using Dextran Uptake into Cultured Cells. Bio-protocol, 2022, 12, e4367.	0.2	1

#	Article	IF	CITATIONS
372	Cytoskeletal dynamics regulates stromal invasion behavior of distinct liver cancer subtypes. Communications Biology, 2022, 5, 202.	2.0	8
373	<i>In Silico</i> Optimized Stapled Peptides Targeting WASF3 in Breast Cancer. ACS Medicinal Chemistry Letters, 2022, 13, 570-576.	1.3	6
374	Persistent cell migration emerges from a coupling between protrusion dynamics and polarized trafficking. ELife, 2022, 11, .	2.8	5
375	Ena/VASP proteins in cell edge protrusion, migration and adhesion. Journal of Cell Science, 2022, 135, .	1.2	34
376	miR-195 regulates intestinal epithelial restitution after wounding by altering actin-related protein-2 translation. American Journal of Physiology - Cell Physiology, 2022, 322, C712-C722.	2.1	5
377	Olfactomedin 4 regulates migration and proliferation of immortalized non-transformed keratinocytes through modulation of the cell cycle machinery and actin cytoskeleton remodelling. Experimental Cell Research, 2022, 415, 113111.	1.2	5
378	Extracellular Signalling Modulates Scar/WAVE Complex Activity through Abi Phosphorylation. Cells, 2021, 10, 3485.	1.8	4
379	Role of ARP2/3 Complex-Driven Actin Polymerization in RSV Infection. Pathogens, 2022, 11, 26.	1.2	14
380	Membrane-bound IL-6R is upregulated on Th17 cells and inhibits Treg cell migration by regulating post-translational modification of VASP in autoimmune arthritis. Cellular and Molecular Life Sciences, 2022, 79, 3.	2.4	10
381	Fundamental mechanics of cell shape and cell movement. , 2022, , 85-100.		1
382	Cellular substructures, actin dynamics, and actin-binding proteins regulating cell migration. , 2022, , 25-50.		0
383	Cell movement during development. , 2022, , 151-157.		0
391	β2-Integrins – Regulatory and Executive Bridges in the Signaling Network Controlling Leukocyte Trafficking and Migration. Frontiers in Immunology, 2022, 13, 809590.	2.2	7
392	Cellular protrusions in 3D: Orchestrating early mouse embryogenesis. Seminars in Cell and Developmental Biology, 2022, 129, 63-74.	2.3	5
393	Intrinsic epigenetic control of angiogenesis in induced pluripotent stem cell-derived endothelium regulates vascular regeneration. Npj Regenerative Medicine, 2022, 7, 28.	2.5	2
394	Förster Resonance Energy Transfer-Based Single-Cell Imaging Reveals Piezo1-Induced Ca2+ Flux Mediates Membrane Ruffling and Cell Survival. Frontiers in Cell and Developmental Biology, 2022, 10, .	1.8	1
395	Control of protein-based pattern formation via guiding cues. Nature Reviews Physics, 2022, 4, 511-527.	11.9	10
396	Endothelial cell spreading on lipid bilayers with combined integrin and cadherin binding ligands. Bioorganic and Medicinal Chemistry, 2022, , 116850.	1.4	2

#	Article	IF	CITATIONS
398	Coro1B and Coro1C regulate lamellipodia dynamics and cell motility by tuning branched actin turnover. Journal of Cell Biology, 2022, 221, .	2.3	7
400	Inhibition of negative feedback for persistent epithelial cell–cell junction contraction by p21-activated kinase 3. Nature Communications, 2022, 13, .	5.8	2
401	Granger-causal inference of the lamellipodial actin regulator hierarchy by live cell imaging without perturbation. Cell Systems, 2022, 13, 471-487.e8.	2.9	9
402	Optical Cellular Micromotion: A New Paradigm to Measure Tumor Cells Invasion within Gels Mimicking the 3D Tumor Environments. Small Methods, 2022, 6, .	4.6	2
404	Comparison of three <i>in vitro</i> keratinocytes-fibroblasts wound healing models commonly used in pharmaceutical research. Journal of Pharmacy and Pharmacology, 0, , .	1.2	0
405	Dynamic movement and turnover of extracellular matrices during tissue development and maintenance. Fly, 2022, 16, 248-274.	0.9	5
406	A trio of biological rhythms and their relevance in rhythmic mechanical stimulation of cell cultures. Frontiers in Psychology, 0, 13, .	1.1	1
407	Biochemical and mechanical regulation of actin dynamics. Nature Reviews Molecular Cell Biology, 2022, 23, 836-852.	16.1	73
408	Lamellipodia-like actin networks in cells lacking WAVE regulatory complex. Journal of Cell Science, 2022, 135, .	1.2	13
409	Non-equilibrium shapes and dynamics of active vesicles. Soft Matter, 2022, 18, 6868-6881.	1.2	6
410	AKT and SGK kinases regulate cell migration by altering Scar/WAVE complex activation and Arp2/3 complex recruitment. Frontiers in Molecular Biosciences, 0, 9, .	1.6	2
411	N-terminal acetylation and arginylation of actin determines the architecture and assembly rate of linear and branched actin networks. Journal of Biological Chemistry, 2022, 298, 102518.	1.6	6
412	Reciprocal regulation of actin filaments and cellular metabolism. European Journal of Cell Biology, 2022, 101, 151281.	1.6	3
413	Cytoskeletal fractionation identifies LMO7 as a positive regulator of fibroblast polarization and directed migration. Biochemical and Biophysical Research Communications, 2023, 638, 58-65.	1.0	0
414	S-Benproperine, an Active Stereoisomer of Benproperine, Suppresses Cancer Migration and Tumor Metastasis by Targeting ARPC2. Pharmaceuticals, 2022, 15, 1462.	1.7	1
415	Epithelialâ€toâ€mesenchymal transition as a learning paradigm of cell biology. Cell Biology International, 2023, 47, 352-366.	1.4	1
416	Moving through a changing world: Single cell migration in 2D vs. 3D. Frontiers in Cell and Developmental Biology, 0, 10, .	1.8	7
417	Pals1 functions in redundancy with SMAP1 to inhibit Arf6 in order to prevent Rac1-dependent colorectal cancer cell migration and invasion. Cancer Gene Therapy, 0, , .	2.2	0

#	Article	IF	CITATIONS
419	Metformin enhances neural precursor cells migration and functional recovery after ischemic stroke in mice. Experimental Brain Research, 2023, 241, 505-515.	0.7	2
420	Ena/VASP clustering at microspike tips involves lamellipodin but not I-BAR proteins, and absolutely requires unconventional myosin-X. Proceedings of the National Academy of Sciences of the United States of America, 2023, 120, .	3.3	11
421	Visualizing and Quantifying mRNA Localization at the Invasive Front of 3D Cancer Spheroids. Methods in Molecular Biology, 2023, , 263-280.	0.4	0
423	Tuning Water-Resistant Networks in Mussel-Inspired Hydrogels for Robust Wet Tissue and Bioelectronic Adhesion. ACS Nano, 2023, 17, 2745-2760.	7.3	39
424	The mechanobiology of NK cells- â€~Forcing NK to Sense' target cells. Biochimica Et Biophysica Acta: Reviews on Cancer, 2023, 1878, 188860.	3.3	2
426	Actin-rich lamellipodia-like protrusions contribute to the integrity of epithelial cell–cell junctions. Journal of Biological Chemistry, 2023, 299, 104571.	1.6	2
427	Unleashed Actin Assembly in Capping Protein-Deficient B16-F1 Cells Enables Identification of Multiple Factors Contributing to Filopodium Formation. Cells, 2023, 12, 890.	1.8	1
429	Underlying mechanisms that ensure actomyosinâ€mediated directional remodeling of cell–cell contacts for multicellular movement. BioEssays, 2023, 45, .	1.2	0
430	Targeting ASIC1a Promotes Neural Progenitor Cell Migration and Neurogenesis in Ischemic Stroke. Research, 2023, 6, .	2.8	5
431	MACC1-induced migration in tumors: Current state and perspective. Frontiers in Oncology, 0, 13, .	1.3	1
432	On the role of myosin-induced actin depolymerization during cell migration. Molecular Biology of the Cell, 2023, 34, .	0.9	1
433	A machine learning approach to discover migration modes and transition dynamics of heterogeneous dendritic cells. Frontiers in Immunology, 0, 14, .	2.2	4
434	Collective Cellular Phase Transitions in Cancer. Current Cancer Research, 2023, , 33-75.	0.2	0
440	The multiple links between actin and mitochondria. Nature Reviews Molecular Cell Biology, 2023, 24, 651-667.	16.1	8
473	Emerging roles of deubiquitinating enzymes in actin cytoskeleton and tumor metastasis. Cellular Oncology (Dordrecht), 0, , .	2.1	0